



GOVERNMENT OF MANIPUR



ANNUAL ADMINISTRATIVE REPORT
2011-12



IRRIGATION & FLOOD CONTROL DEPARTMENT
March, 2012

ANNUAL ADMINISTRATIVE REPORT
2011-12
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 by taking up flood control schemes and restoration/ improvement 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.

1.2.11 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 12th Nov., 2010 by Smt. Sonia Gandhi, Chairperson UPA & NAC 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 named 3(three) on-going projects could not be completed in time mainly due to fund constraint coupled with disturbed law and order situation. 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 2011-12 under Major & Medium Irrigation has been agreed to Rs. 226.04 crores. The proposed outlay for the next year, 2012-13 under MMI is Rs. 260.90 crores including Rs. 220.00 crores (AIBP). The 3(three) ongoing projects will be completed during 2012-13.

2. BENEFITS FROM COMPLETED / PARTIALLY COMPLETED PROJECTS:

i) IRRIGATION: -

Total Irrigation potential of 31,411 ha. has been created by this deptt. up to 3/2011 with utilization of 21,513 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.

3. ONGOING PROJECTS :

The revised approved outlay for Irrigation Sector for 2011-12 is Rs 226.04 crore including CLA (AIBP) of Rs 181.29 crore. The anticipated expenditure during 2011-12 is Rs 226.04 crore including CLA (AIBP) of Rs. 181.29 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 revised estimated cost of the project is Rs.381.28 crore for irrigation component at price level 2009 has been cleared and sanctioned by the Technical Advisory Committee (TAC) of Ministry of Water Resources in its 100th meeting held on 26-10-2009. 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 latest revised cost of Rs. 434.65 crores has been approved by State PIB on 21st October, 2011 and the same has been submitted to the CWC, New Delhi for obtaining Investment Clearance of Planning Commission, Government of India.

The outlay for 2011-12 is Rs. 5.50 crore. The anticipated expenditure during 2011-12 is Rs.5.50 crore. The progressive expenditure up to March, 2011 is Rs. 395.55 crore. **The budget provision of the project for the next year, 2012-13 is Rs 5.50 crore.**

3.2 THOUBAL MULTIPURPOSE PROJECT:

The Project was approved by the Planning Commission in 1980 for Rs. 47.25 Crore. The project will create 33,400 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 February, 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 etc., completion has been delayed and it is now targeted in 2012-13.

Revised project costing Rs. 982.00 crore (P.L.2008) has been cleared and sanctioned by the Technical Advisory Committee (TAC) of Ministry of Water Resources in its 101th meeting held on 30-11-2009. The latest revised cost of Rs.1361.51 crore has been approved by the State PIB on 03-10-2011 and has been submitted to CWC, New Delhi for obtaining Investment Clearance of Planning Commission, Government of India.

The outlay for 2011-12 is Rs. 148.24 crore including Rs. 124.34 crore (AIBP). The anticipated expenditure during 2011-12 is Rs.148.24 crore. The progressive expenditure up to March,2011 is Rs. 819.62 crore. **The budget provision of the project for the next year, 2012-13 is Rs.157.40 crore including Rs 135.00 crore (AIBP).**

3.3 DOLAITHABI BARRAGE PROJECT:

The project was sanctioned for Rs. 18.86 crore 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 in 2012-13.

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.

The first Revised project costing Rs.98.37 crore based on MSR ,04 was cleared and sanctioned by the Technical Advisory Committee (TAC) of Minister of Water Resources. The second Revised amounting to Rs. 215.52 crore has been cleared and sanctioned by the Technical Advisory Committee (TAC) of Ministry of Water Resources in its 100th meeting held on 26-10-2009.

The latest revised cost of the Rs.381.56 crore has been approved by the State PIB on 03-10-2011 and the same has been submitted to CWC, New Delhi for obtaining Investment Clearance of Planning Commission, Government of India.

The outlay for 2011-12 is Rs. 70.95 crore including Rs. 56.95 crore (AIBP). The anticipated expenditure during 2011-12 is Rs.70.95 crore. The progressive expenditure up to March,2011 is Rs. 179.55 crore. **The budget provision of the project for the next year, 2012-13 is Rs 98.00 crore including Rs 85.00 crore (AIBP).**

3.4 AUGMENTATION OF 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 Imphal to augment water supply of the Imphal City by 45 MLD. The above project was identified for funding under special package vide M/o DoNER letter No.1/15/2008—Budget(DoNER) dt. 15th June, 2009. The department has engaged M/s Bedrock-EGIS India JV for preparation of Detailed Project Report(DPR). The preliminary survey on the alignment of the pipe line including tunnel portion of about 3.00 km. has been completed and a preliminary Project Report has been started from 1st April,2010 and completed. The draft Detailed Project Report is now under scrutiny for finalisation.

An amount of Rs.2.50 crore has been anticipated as cost of the consultancy charge for preparation of the DPR. The State Government has allocated an amount of Rs.1.00 crore during 2009-10 as additional fund under state plan for payment of consultancy charge and has been utilised in payment of the consultancy charge. The budget provision of the above work for 2010-11 is Rs.1.50 crore, out of which Rs.75.00 lakh has been utilised for the purpose. An additional amount of RS.134.00 crore has been proposed during 2012-13 for payment of the consultancy charge.

4. ADDITIONAL BENEFITS TO BE ACCRUED FROM ONGOING PROJECTS:

On completion of the ongoing projects, an ultimate annual irrigation of 55.95 Th. ha, water supply facility of 15.00 MGD and power generation of 9.75 MW will be achieved. Out of these, 0.75 MW of power will accrue soon to the State on commissioning of the power component of Singda Multipurpose Project.

5. 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 and Xth Plan (up to 2006-07) owing to the financial constraint. Up to 2006-07, an irrigation potential of 940 ha. only could be restored.

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 crore and Rs.2.00 crore earmarked for the year 2011-12 has been submitted to the Govt. for approval under 13th Finance Commission.

6. SURVEY AND INVESTIGATION WORKS:

The Department is continuing investigation works for taking up new projects under State Plan as well as with funding by NEC.

A. Under State Plan:

i) Chakpi Multipurpose Project :

The Chakpi Multipurpose Project is targeted for taking up during XIth Plan. The Project envisages construction of an earthen Dam across Chakpi River at Chakpikarong. The Project will create 12,375 Ha. of annual Irrigation., provide 1.5 MGD water supply and generate 7.5MW of Hydropower. The administrative approval of the project amounting to Rs.281.00 crore was given by the State Govt. on June, 2008 and the Detailed Project Report (DPR) has been submitted to the Central Water Commission(CWC) on July, 2008. At present rectification of the DPR as per the guideline of the CWC amounting to Rs.600.00 Crore is in final stage. The proposed outlay for the year 2012-13 is Rs.39.02 lakhs.

The survey and investigation for construction of dam across Iril River at Yangnoi, Chakpi river at Chakpikarong and Sekmai river at Kangoi Hiranpham are in the advanced stage. On implementation, these projects will provide 11.50 MGD of water supply, 17.50 MW of power and 22.00 Th ha. of irrigation potential. Apart from these, some other projects are also under investigation.

B. With Funding by NEC:

i) REGIONAL JIRI IRRIGATION PROJECT:

It is an Inter-State Irrigation Project of Manipur and Assam by constructing a barrage across Jiri river at Laingangpokpi, Jiribam. This will provide Irrigation potential of 6,360 ha. in Assam and 3,415 ha. in Manipur and 1.20 MGD of water supply for Jiribam.

The project proposal costing Rs. 200.00 crore has been proposed for implementation in the XIIth Plan of NEC. The project will be taken up as soon as investment clearance is obtained and has now been targeted for taking up during XII th Plan. The proposed outlay for the year 2012-13 is Rs.4.00 crores.

**STATUS NOTE ON
FLOOD CONTROL WORKS
(March, 2012)**

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 2011-12.

- i) Improvement of river banks,
- ii) Re-sectioning and dredging of narrow river/stream sections and
- iii) 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 and Wangjing River etc. As such, occurrence of 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 due to erosion of river banks during flood seasons. However, in both the areas of hill and valley districts during flood, the magnitude of the flood damages can not be predicted as it depends on the intensity of the rainfall of the year.

ACTIVITIES:

The main activities of department during 2011-12 are implementation of anti-erosion and flood control schemes sponsored by Central Funding Agencies under NEC, Brahmaputra Board (MOWR), RIDF (NABARD), SCA and J_NNURM besides carrying out of similar activities under State Annual Plan of 2011-12 inclusive of SDF provision.

Works taken up under Annual Plan: 2011-12

Sl.No.	Name of scheme	Remarks
(i)	4 (four) schemes under SDF	2 (two) schemes completed and 2 (two) scheme continued for completion during 2011-12.
(ii)	Schemes under convergence of activities (STAP) for Development of Loktak Lake	Completed
(iii) (a)	12 (twelve) schemes under FMP of MOWR 2007-08	a) Completed, awaited release of balance Central share.
(b)	10 (ten) schemes under FMP of MOWR 2010-11	b) Targeted for completion during 2011-12.
(iv) (a)	49 (forty-nine) schemes under SPA 2010-11	a) Completed during 2011-12.
(b)	46 (forty six) schemes under SCA 2011-12.	b) Targeted for completion during 2012-13.
(v)	5 (five) schemes under RIDF (NABARD) 2011-12.	Targeted for completion during 2012-13
(vi)	4 (four) schemes under NEC	Targeted for completion during 2011-12.
(vii)	1 (one) Scheme under J _N NURM 2009-10	Continued & targeted for completion during 2011-12.

Outlay for the year 2011-12**(A) - STATE**

(i)	Plan	: Rs. 860.00 lakhs	
(ii)	STAP	: Rs. 200.00 lakhs	
(iii)	SDF	: Rs. 218.41 lakhs	
	Total-	Rs. 1278.41 lakhs	Rs. 1278.41 lakhs

(B) - CENTRAL ASSISTANCE

(i)	AIBP	: Rs. 2000.00 lakhs	
(ii)	SCA	: Rs. 4160.00 lakhs.	
(iii)	RIDF(NABARD)	: Rs. 1542.00 lakhs	
		Rs. 7702.00 lakhs	Rs. 7702.00 lakhs
			Rs. 8980.41 lakhs
(iv)	NEC	:	Rs. 230.38 lakhs

(C) - DEPOSIT WORK:

J _N NURM	:	Rs. 190.82 lakhs
Grand total	-	Rs. 9401.61 lakhs

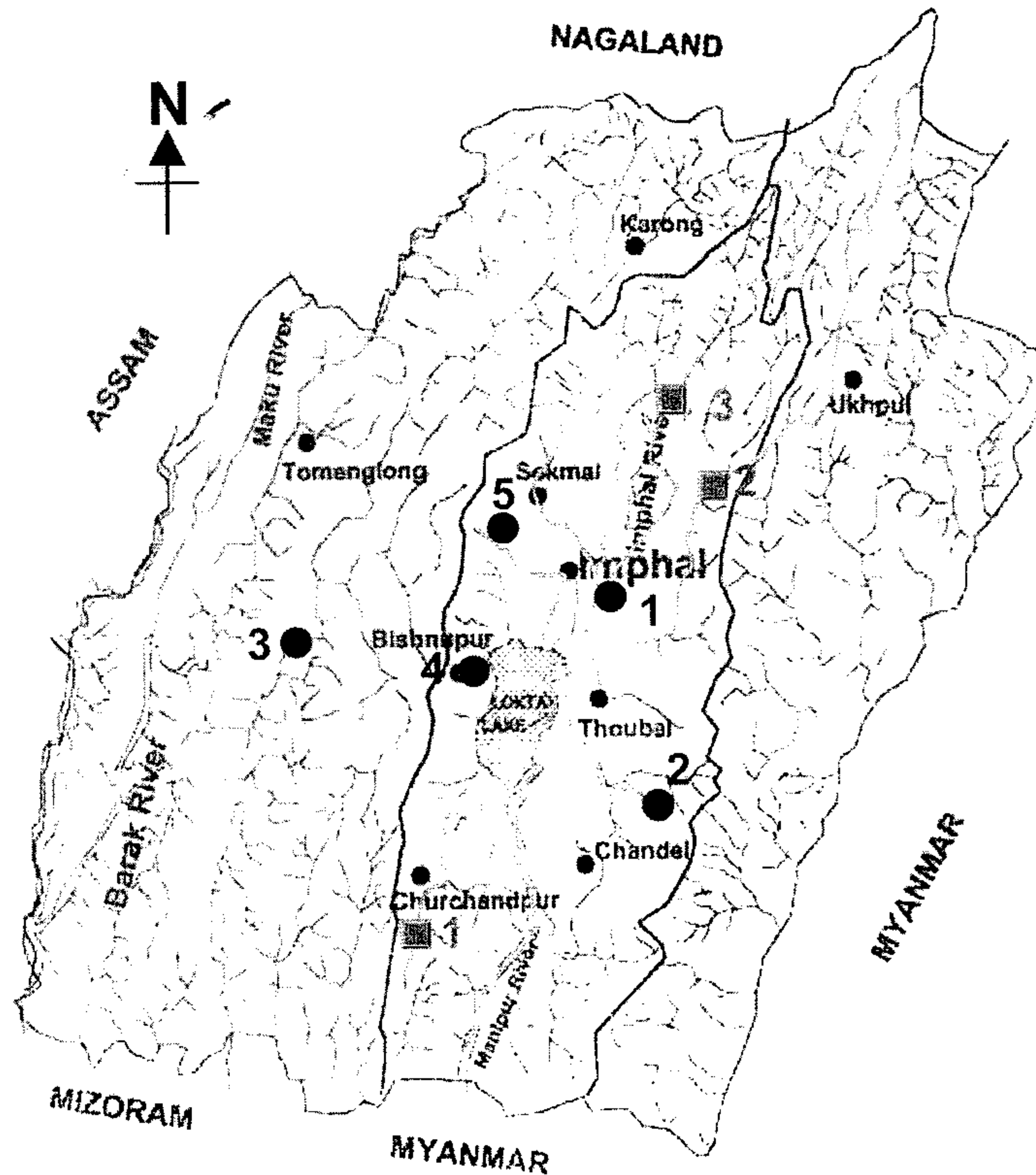
1. PHYSICAL ACHIEVEMENT DURING XI th PLAN
(During 2011-12)

Sl No.	Items	Unit	Achievement during 2010-11 of XI th Plan.	Target for 2011-12	Qty. Achieved during 1 st 2 nd & 3 rd qtr.	Qty. Achieved during 4 th quarter		
						01/12	02/12	03/12 (Anticipated)
1	i) Embankment	Km	65	96	66	10	10	10
	ii) Drainage.		10	58	43	5	5	5
	iii) Anti Erosion	Km	22	30	27	1	1	1
	iv) Culvert/Regulator	No.	8	3	1	-	-	2

2. FINANCIAL ACHIEVEMENT DURING XI th PLAN
(During 2011-12)

(Rs. in lakhs.)

Sl No.	Name of Schemes.	Expenditure during 2011-12 (Anticipated upto 31-03-2012).	Remarks.
A.	State Flood Control Plan Works	1278.41	
B.	Flood Control and Anti-Erosion Works under Flood Management Programme (of MOWR)	2000.00	
C.	Flood Control Schemes taken up under S.C.A.	4160.00	
D.	RIDF schemes under NABARD.	1542.00	
E.	Flood Control Schemes Taken up Under NEC's Programme.	230.38	
F.	Nambal River Front Improvement Scheme under J _N NURM.	190.82	
	Total:-	9401.61	



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 06-03-2012.

