



सत्यमेव जयते

GOVERNMENT OF NAGALAND

**ANNUAL PLAN
2022-23**

**WATER RESOURCES DEPARTMENT
NAGALAND : KOHIMA.**

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SUMMARY OF

ANNUAL PLAN 2022-23 WATER RESOURCES DEPARTMENT NAGALAND

(in lakh)

Sl. No	Funding	Brief description of Program	Annual Plan 2022-23
1	2	3	4
1	CSS	(I) PMKSY : (a) Minor Irrigation(C/S & S/S)..... (b) Ground Water (C/S & S/S)..... (c) Command Area Development & Water Management(CADWM)..... (d) RRR of Water Bodies..... (e) Jal Kranti Abhiyan..... (II) Flood Management Programme(C/S & S/S)..... (III) Command Area Development (CAD)(ISBIG)..... (IV) North Eastern Concil (NEC).....	32696.00 1337.55 0.00 0.00 0.00 2074.00 500.00 442.78
		Sub Total :-	37050.33
2	CPS	i) 6 th M.I. Census.....	71.00
3	EAP	(i) National Hydrology Project	0.00
4	Negotiated Loan	(i) Construction of Water Harvesting Structures (NABARD)...	200.00
5	State Resource (State Earmarked)	(i) Construction of Rain Water Harvesting.....	100.00
6	State Resource (Untied)	i) Lift Irrigation..... ii) Ground Water..... iii) Other M.I. Works (Minor Works)..... iv) Other Administrative Expenses..... v) Capital Outlay: a) Irrigation Maintenance Works..... b) Capital Assets(Maintenance)..... c) Flood Control Maintenance Works.....	10.00 3.00 54.00 3.00 0.00 30.00 0.00
		Sub Total: -	100.00
		Grand Total: -	37521.33

(Rupees, Three hundred Seventy five Crore, Twenty one Lakh and Thirty three Thousand) only

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ANNUAL PLAN 2022-23
WATER RESOURCES DEPARTMENT, NAGALAND.

1.1 INTRODUCTION

1.1.1 The primary objective of the Water Resources Department, Nagaland is to achieve the ultimate goal of creating sufficient Irrigation Potential (IP) in the state to provide Sustainable Agriculture for increased food production, improving the economy and quality of life for the farming community which constitute 80-85% of the state's population.

1.1.2 To achieve utilization of the Irrigation Potential created under the flagship programme of Pradhan Mantri Krishi Sinchayee Yojna- Har Khet Ko Pani. Irrigation Potential created in the state stands at 151054 Ha. against which the utilization is 85550 Ha. The under utilization of the IP created is mainly due to most farmers still engaged in the traditional *jhum* system of farming. Further, the farmers are not able to develop the land to utilize the potential area created due to their poor income and economic depravity. To bridge the gap between 'Potential Created' and 'Potential Utilized', the Command Area Development and Water Management (CADWM) is proposed to be taken up for the minor irrigation projects being implemented under the flagship programme of '**Pradhan Mantri Krishi Sinchayee Yojna**' (PMKSY) in line with the guidelines of the Ministry of Water Resources (MoWR)

1.1.3 In order to involve the participation of all the farmers in the maintenance, operation and management of irrigation facilities created under PMKSY (erstwhile AIBP), the department has introduced "Nagaland Farmers Participation in Irrigation Management (NFPIM) Bill; 2013". The Act will provide legal empowerment to the farmers for operation and management of irrigation project. The department will also create avenue for providing financial assistance for maintenance of the irrigation facility, introduce improved farming practices and inputs through capacity building and trainings.

1.1.4 Another thrust area of the Department is taking up 'Anti Erosion Works' for protection of agricultural land and infrastructure like townships, road and communication and establishments from soil erosion caused by major rivers.

1.1.5 The department is participating in the National Hydrology Programme (NHP) which is an 8 (eight) years project being implemented from 2016-17 to 2023-24 under the MoWR with funding by the World Bank. The tentative budget outlay for the state is targeted at ` 2300.00 lakh. The key objectives of the project are:-

- i) Modernizing Water Resources Monitoring System (WRMS).
- ii) Modernizing Water Resources information System (WRIS).
- iii) Water Resources Management Tools & Applications (WRMTA).

2.0 MINOR IRRIGATION

2.1 The Department proposes the following activities of minor irrigation works during the **Annual Plan 2022-23**:-

- a) **Lift Irrigation:** There are potential area in the foothills that cannot be covered by surface flow irrigation through Diversion structures. Hence, to lift the water from streams and water bodies; electrical or diesel operated pumps are proposed to be provided. This scheme had been not been implemented during the last few years due to constraint in Plan allocation. The Department proposes to construct few numbers of Lift Irrigation Schemes under the programme with budgetary provision of ` **10.00 lakh** during **2022-23**.
- b) **Ground Water:** The exploration and utilization of ground water to augment surface flow are taken up in the foothills of the State. This department proposes to construct few dug wells in foot hill areas in conjunction with surface irrigation. A budgetary provision of ` **3.00 lakh** is kept for implementation of the programme during **2022-23**.
- c) **Pradhan Mantri Krishi Sinchayee Yojna (PMKSY):** The minor irrigation programme is implemented under the Central Flagship Programme PMKSY under sub head Har Khet Ko Pani by converging the activities of the Department of Agriculture, Land Resources and Water Resources. The Department has taken up 270 nos of Surface Minor Irrigation Schemes at an estimated cost of ` **20685.21 lakh** to cover CCA target of 8544 ha and IP of 10508 ha during 2019-20, out of which 91 nos SMI has been completed till date. The Department also proposes to take up 213 nos of SMI projects covering all the Districts at an estimated cost of ` **13320.94 lakh** to cover CCA of 5350 Ha and 2 new nos of Minor Irrigation project at Jalukie at an estimated cost of **1398.49 lakh** covering **350 ha CCA**. A budgetary provision of ` **32696.00 lakh** is kept for implementation of the schemes during **2022-23**.

The Department also proposes to take up new MDW/DTW of Ground Water Scheme under PMKSY-HKPP for increasing the irrigation potential to cover a CCA of 500 ha. A budgetary provision of ` **1337.55 lakh** is kept for implementation of the schemes during **2022-23**.

- d) **Jal Kranti Abhiyan:** Jal Kranti Abhiyan is an important programme to consolidate information and management of water conservation through a holistic and integrated approach involving all stakeholders, making it a mass movement. Main activities under Jal Kranti Abhiyan include (a) Identification of two Jal Grams for every district (b) Mass Awareness through holding workshops / training Programmes etc. (c) Identifying Model Command Area (d) Increase awareness of water pollution abatement etc.

2.2 PHYSICAL & FINANCIAL TARGET & ACHIEVEMENT.

` in lakh.

PMKSY (Har Khet Ko Pani)						
A. Minor Irrigation.	Particulars	2020-21		2021-22		2022-23
		Targets	Achievement	Targets	Achievement	Target
1. On going 270 Batch	Physical (Ha) CCA	6322	2392	6152	2402	5714
	Financial(in lakh)	15513.91	2199.27	13314.64	4390.33	8924.31
2. Ongoing 213 Batch	Physical (Ha) CCA	Nil	Nil	2722	Nil	6837
	Financial(in lakh)	Nil	Nil	6660.47	1498.50	11822.44
3. Surface Ground Water	Physical (Ha) CCA	667.5	15	652.5	652.5	Nil
	Financial(in lakh)	1805.88	1083.33	722.55	585.00	137.55
4.Surface Ground Water(New)	Physical (Ha) CCA	0	0	0	0	500
	Financial(in lakh)	0.00	0.00	0.00	0.00	1200.00
B. CAD (ISBIG)	Physical (Ha)CCA	Nil	Nil	Nil	Nil	504
	Financial(in lakh)	Nil	Nil	Nil	Nil	500.00
C. RRR of Water Bodies.	Physical (Ha)CCA	Nil	Nil	Nil	Nil	Nil
	Financial(in lakh)	Nil	Nil	Nil	Nil	Nil

3.0 OTHER M.I. WORKS

3.1 **Minor Works:** Enormous huge capital investment is involved in creation of Minor Irrigation infrastructures in the State received from the funds of G.o.I. These infra structures assets needs to be safe guard by way of Operation & Maintenance (O&M). However, no provision for O&M is provided by the Ministry of Water Resources (MoWR), G.o.I. Till date, no provision is available for any damages whether minor or major to the infrastructures already created due to unforeseen vagaries of nature during pre and post construction. Therefore, a budgetary provision of of ` 54.00 lakh is kept for 2022-23.

3.2 **Other Administrative Expenses:** The G.o.I.,MoWR since the past few years,various Mission Mode programme had been mooted by the MoWR in which the participation of all States in *water resources sector* has become mandatory. There has been a shift in the *view of the Ministry* in regards to Global Climate change in Mission Mode and in the water resources in particular which has become a “KEY ISSUE”. So, the States have to participate in various venues outside the State in different subject matters and key issues outside the domain of water resources field. In view of this, the MoWR is on a Mission Mode to enhance the Capacity building and augmentation of Knowledge of the Personnels /Engineers involved in the field of water resources in all the States to ensure quality service and output. The department envisages to avail the benefit of such trainings/workshop as it is often mandatory. For the purpose, the department has kept a budget provision of ` 3.00 lakh for 2022-23.

4.0 CAPITAL OUTLAY (INFRASTRUCTURAL DEVELOPMENT)

4.1 **Renovation & Up-gradation of Capital Assets:** At the time of bifurcating from the Agriculture department, the Department in 1988 inherited 166 nos. of buildings comprising of Office & residential buildings. There are presently 16 office establishments in the department with 11 Divisional and 3 Sub-Divisional Offices, one SE Circle and Head Office and about 150 residential quarters for Officers and Staff in the Department. Most of the building are very old requiring major reconstruction and up gradation, hence an amount of ` **30.00 lakh** has been kept for the same during **2022-23**.

5.0 COMMAND AREA DEVELOPMENT AND WATER MANAGEMENT.

5.1 **Incentivisation Scheme for Bridging Irrigation Gap (ISBIG):** During the year 2018-19, the Government of India has decided to take up CADWM (Command Area Development and Work Management) works through a new scheme ISBIG (Incentivisation Scheme for Bridging Irrigation Gap) 90:10 funding pattern wherein 13 Clusters of M.I. project at Changki Valley have been considered for inclusion. Accordingly, as per ISBIG guidelines a DPR with estimated cost of ` **966.29 lakh** to cover the balance CCA of 1007 ha is under submission to CWC, Guwahati. An amount of ` **500.00 lakh** has been kept as first installment during **2022-23**.

6.0 RRR OF WATER BODIES

6.1 The department proposes to take up 6 nos. of schemes under 'Repair, Restoration and Renovation (RRR) of Water Bodies' with 90:10 funding pattern by the MoWR during 2016-17 This program envisages restoring the existing Water Bodies by way of Repair, Restoration and Renovation having water surface area of 5.0 Ha. in the rural area and 2.0 Ha in the urban area with the objectives of providing facilities for irrigation, groundwater recharge, potable water supply, fishery (pisciculture) and eco-tourism.

7.0 NATIONAL HYDROLOGY PROJECT

7.1 The department is participating with the rest of the country in implementation of National Hydrology Project with World Bank Assistance through MoWR, River Development and Ganga Rejuvenation. The "Project Implementation Plan"(PIP) of the State with an outlay of ` 2300.00 lakh has been prepared and approved for implementation in 8 (eight) years from 2016-17 to 2023-24.

The objectives and key indicators of the National Hydrology Project is to Modernize nationwide data, information and knowledge support for Water Resources Management, Planning & operation in India.

8.0 NEGOTIATED LOAN (NABARD)

8.1 CONSTRUCTION OF WATER HARVESTING STRUCTURES:

NABARD has approved an amount of ` **270.31 lakh** only for creation of 29 Nos. of farm ponds/water bodies in Kohima, Dimapur, Zunheboto, Mokokchung and Wokha under RIDF XXVII. An amount of ` **200.00 Lakh** is earmarked during the fiscal year 2022-23.

9.0 CONSTRUCTION OF RAIN HARVESTING AT CMRC AND NEW MINISTERS QUARTERS AT THIZAMA:

The Department of Water Resources has prepared an estimate for Construction of 13 nos of structures at CMRC & Ministers Quarters at Thizama, Kohima at an estimated cost of ` **147.70 lakh** to meet the potable and domestic requirement of the inhabitants of the area numbering up to 667 individuals in lean period at the rate of 150 litre per capita (LPCD). However, the State Planning Board has approved an amount of ` **100.00 lakh** which can only accommodate 9 units of Rain Water Harvesting structures.

The sanctioned amount of ` **100.00 lakh** will accommodate the following core activities:

Sl.No.	Item of Work	Unit	Amount (`)
1	Const. of RWH unit at CMRC	1	10,97,615.00
2	Const. of RWH unit at Banquet Hall	1	10,32,364.00
3	Const. of RWH unit at Ministers Quarters	7	76,83,305.00
	Total:	9	98,13,284.00
	Contingency @ 3%		2,94,398.52
	Grand Total:		1,01,07,682.52
	Say		1,01,07,000.00

10.0 FLOOD MANAGEMENT PROGRAMME

10.1 During 2022-23, the department proposes to take up 4 (four) nos. of anti erosion works at an estimated cost of ` **4148.62 lakh**, namely:

- (i) Protection of Tuli Town from erosion of Milak River, Phase – II.
- (ii) Development of Dimapur Airport Drainage, Phase – IV.
- (iii) Anti erosion works for protection of Kughovi, Toluvi, Henivi, Shozukhu & Zukihe Village Areas from erosion of Chathe river in Dimapur.
- (iv) Anti erosion works for protection of Kushiabill, Imkongsenden & Domokhia village areas from erosion of Dhansiri river in Dimapur.

For taking up the aforesaid works, a budgetary provision of ` **2074.00 lakh** is kept during **2022-23**.

11.0 RATIONALIZATION OF MINOR IRRIGATION STATISTIC (RMIS)

11.1 The Department has embarked on the 6th M.I. Census and Census of water bodies of Minor Irrigation with reference year 2017-18. A budget provision of ` **71.00 lakh** is proposed during **2022-23**.

12.0 NORTH EASTERN COUNCIL (NEC)

During 2022-23, the Department proposed to take up 2(two) Nos of ongoing NEC funded project on estimated cost of ` **583 lakh**, namely:

Sl.No	Name of Project	Estimated Cost	Amount Sanctioned upto date	Pending Payment	Remarks
1.	Anti-erosion work on Tizu River at Zunheboto District'	297.00	11.11	285.89	Ongoing
2.	Seitsaru Multi purpose Irrigation Project at Phe sema Village, Kohima	268.00	111.11	156.89	Ongoing
	Total	565.00	122.22	442.78	

For taking up the aforesaid NEC ongoing projects, a budgetary provision of ` 442.78 Lakh is kept during 2022-23.

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Annexure-I

DRAFT ANNUAL PLAN 2022-23

Demand No.59 – WATER RESOURCES DEPARTMENT

(` in lakh)

Sl No.	Head of Account	Particulars	Draft Annual Plan – 2022-23
A. REVENUE SECTION:			
Major Head: 2702 – Minor Irrigation			
1.	01 – SURFACE WATER:		
	102 - Lift Irrigation.	01-Micro Irrigation (15) Machinery & Equipment.....	10.00
2.	02 – GROUNDWATER:		
	01-Ground Water Development	(14) Minor Works.....	3.00
3.	80 – GENERAL		
	001 – Direction & Administration	01-Direction.....	0.00
80-800 – Other Expenditures			
	01 – Agriculture Engineering Superintendence	.....	0.00
	02 – Other M.I. Works	(14) Minor Works	54.00
		(31) Other Administrative Expenses	3.00
	03 – Land Reclamation	.....	0.00
	04 – Agriculture Workshop	.....	0.00
	05 – Statistical Cell	(01) Salaries	57.00
		(26) Other Charges	14.00
	06 – National Hydrology Project (NHP) EAP	.....	0.00
B. Capital Section :-			
1.	Major Head: 4059 – Capital Outlay on Public Works		
	01 – Office Building	051-01- Irrigation & Flood Control.....	0.00
2.	Major Head: 4552 – Capital Outlay on North Eastern Areas		
	59 – Irrigation & Flood Control		
	800 – Other Expenditure	01-Water Sector,(13) Major Works.....	442.78
3.	Major Head: 4701 – Capital Outlay on Major & Medium Irrigation		
	04 – Medium Irrigation – Non-Commercial		
	002-01-Medium Irrigation	.....	0.00
4.	Major Head: 4702 – Capital Outlay on Minor Irrigation		
	800 – Other Expenditures		
	01 – Irrigation Works	(13) Major Works	
		(a) Const. of Water Harvesting Structure(NABARD) ..	200.00
		(b) Const. of Rain Water Harvesting.....	100.00
	02 – Capital Assets	(17) Maintenance	30.00
	03 – Flood Control	(13) Major Works.....	0.00
	04 – Construction of Buildings	(13) Major Works	0.00
	05 – Accelerated Irrigation Benefit & Flood Management Programme	(13) Major Works (i) FMP (C/S & S/S)	2074.00
	06 – Pradhan Mantri Krishi Sinchai Yojana, 01 – Minor Irrigation	(13) Major Works & (26) Other Charges	
		(a) Minor Irrigation(C/S & S/S).....	32696.00
		(b) CADWM	0.00
		(c) RRR	0.00
		(d) Jal Kranti Abhiyan	0.00
	02 – Ground Water	(13) Major Works & (26) Other Charges(C/S & S/S).	1337.55
5.	Major Head: 4705 – Capital Outlay on Command Area Development		
	800 – Other Expenditures	01-CAD (ISBIG) (13) Major Works	500.00
Total :-			37521.33

(Rupees, Three hundred Seventy five Crore, Twenty one Lakh and Thirty three Thousand) only

Administrative Head of the Department

**Chief Engineer
Water Resources Department
Nagaland : Kohima.**