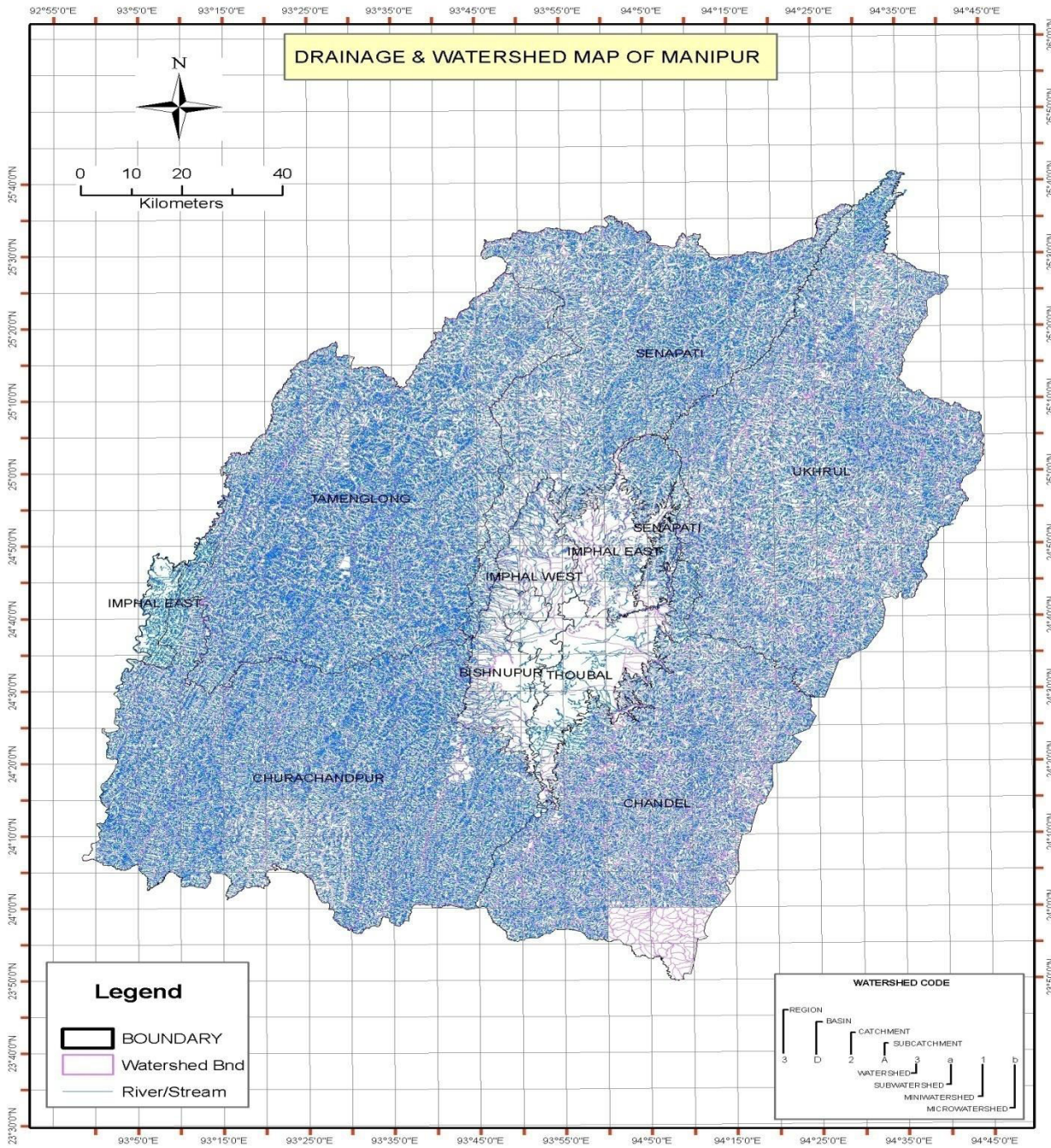




PRESENTATION ON WATERSHED MANAGEMENT PROGRAMME IN MANIPUR

Planning Deptt, Govt of Manipur







New Delhi 20/5/2010

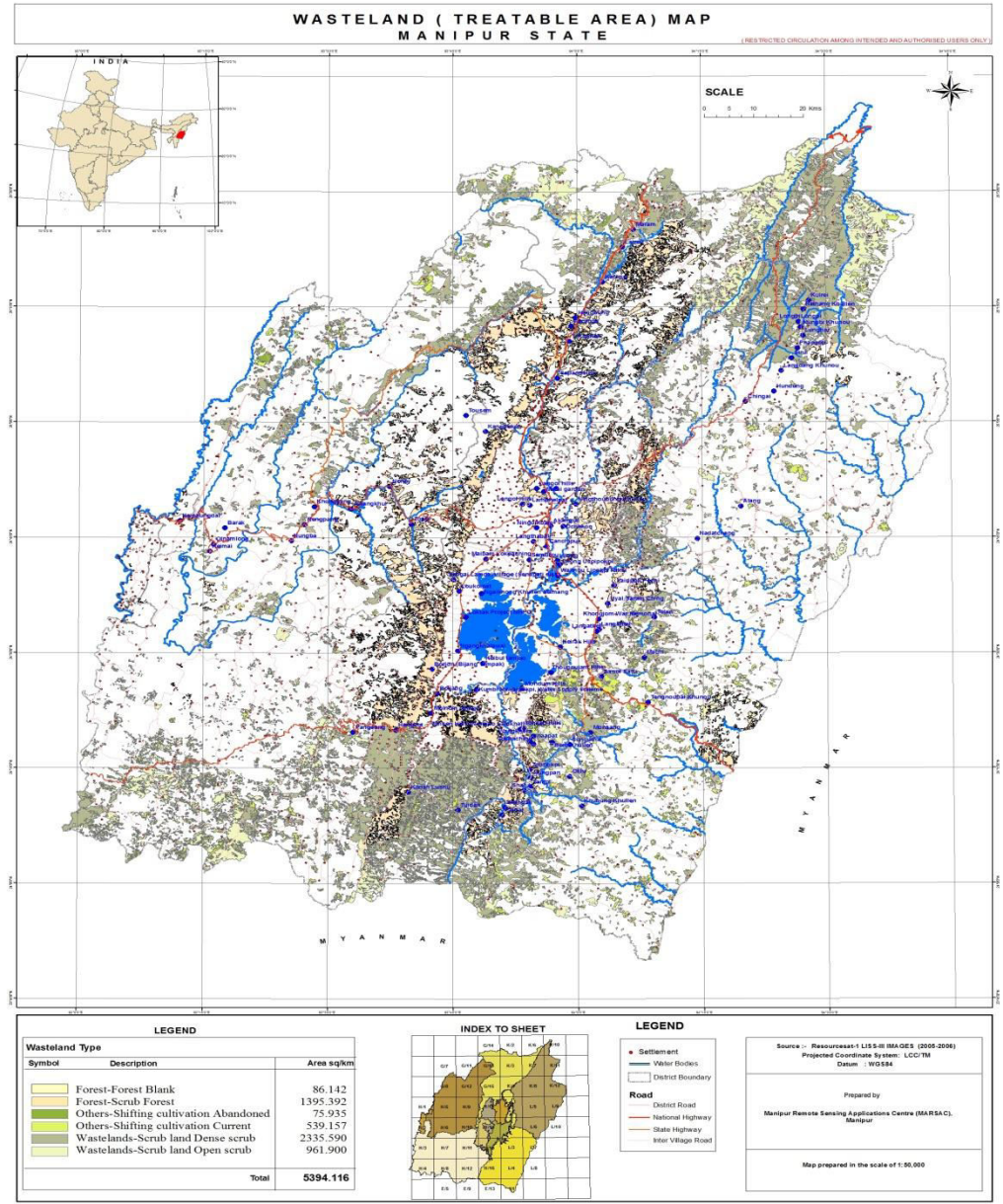


Wasteland (treatable Area) Map of Manipur

LEGEND

Wasteland Type

Symbol	Description	Area sq/km
	Forest-Forest Blank	86.142
	Forest-Scrub Forest	1395.392
	Others-Shifting cultivation Abandoned	75.935
	Others-Shifting cultivation Current	539.157
	Wastelands-Scrub land Dense scrub	2335.590
	Wastelands-Scrub land Open scrub	961.900
	Total	5394.116



Area covered under the watershed programme

Total micro-watersheds in Manipur

- No. of micro-watersheds – 1528
- Area in Ha. – 22,32,769

Total watershed covered

- No. of micro-watersheds – 381
- Area in Ha. – 2,58,493

Watersheds to be covered(out of treatable)

- No. of micro-watersheds – 1147
- Area in Ha. – 19,74,276

Watersheds proposed to be covered

- No. of micro-watersheds – 332
- Area in Ha. – 2,30,862

Land Uses

- ▶ Major Land covers are Forest Cover and land with or without scrub forest .
- ▶ Wasteland treatable area - 5394.12 sq/km of the total geographical area(24.16%).
- ▶ Land with forest blank- 0.39% % of the total geographical area,
- ▶ Land with Scrub Forest- 6.25%
- ▶ Others-Shifting cultivation abandoned-0.34 %
- ▶ Wastelands- scrub Land Dense scrub- 10.46%
- ▶ Wastelands- Scrub land open scrub- 4.31%

ABSTRACT OF THE STATE : MANIPUR

S. No.	Item		Details	
			No.	Area (ha)
1	Total no. of micro-watersheds in the District		1528	2232769
2	Total no. of untreatable micro-watersheds (High altitude areas, snow covered, not to be covered)		335	669830
3	Total no. of treatable micro-watersheds in the district (Wasteland treatable area)		781 (270)	1562938 (539412)
4	No. of micro-watersheds covered under different schemes		381	258493
5	Balance no. of micro-watersheds not covered till date		1147	1974276
6		11 th Plan	115	230862
		12 th Plan	46	92418
		13 th Plan	47	94638
		14 th Plan	36	71457
7	Micro-watersheds proposed to be taken during 2010-11		332	104805
8	Estimated project cost (Rs. in crores)			
	Central share		Rs135.15 crores	
	State share		<u>Rs15.02 crores</u>	
	Total		Rs150.17 crores	
	Amount of 1 st installment of Central Share (20%)		Total	Rs 30.03 crores

Status of Ongoing IWMP/ Hariyali Projects- Manipur

Rs. In Lakhs

Sl. No.	District	Ongoing No. of Projects	Amt released	Unspent	Outstanding UCs
1	Tamenglong	6	1788.07	7.67	0.00
2	Chandel	7	1291.53	3.88	3.98
3	Ukhrul	4	576.78	0.03	180.00
4	Senapati	7	1487.92	142.58	381.33
5	Churachandpur	5	288.00	0.63	0.00
6	Bishnupur	3	719.31	10.35	104.36
7	Thoubal	1	175.72	0.00	0.00
8	Imphal East	6	676.84	0.29	29.95
9	Imphal West	1	162.00	9.50	112.10
	Total:	40	7166.17	174.93	811.72

Annual Progress Report (2009-10) for IWMP- Manipur

Rs. In Lakhs

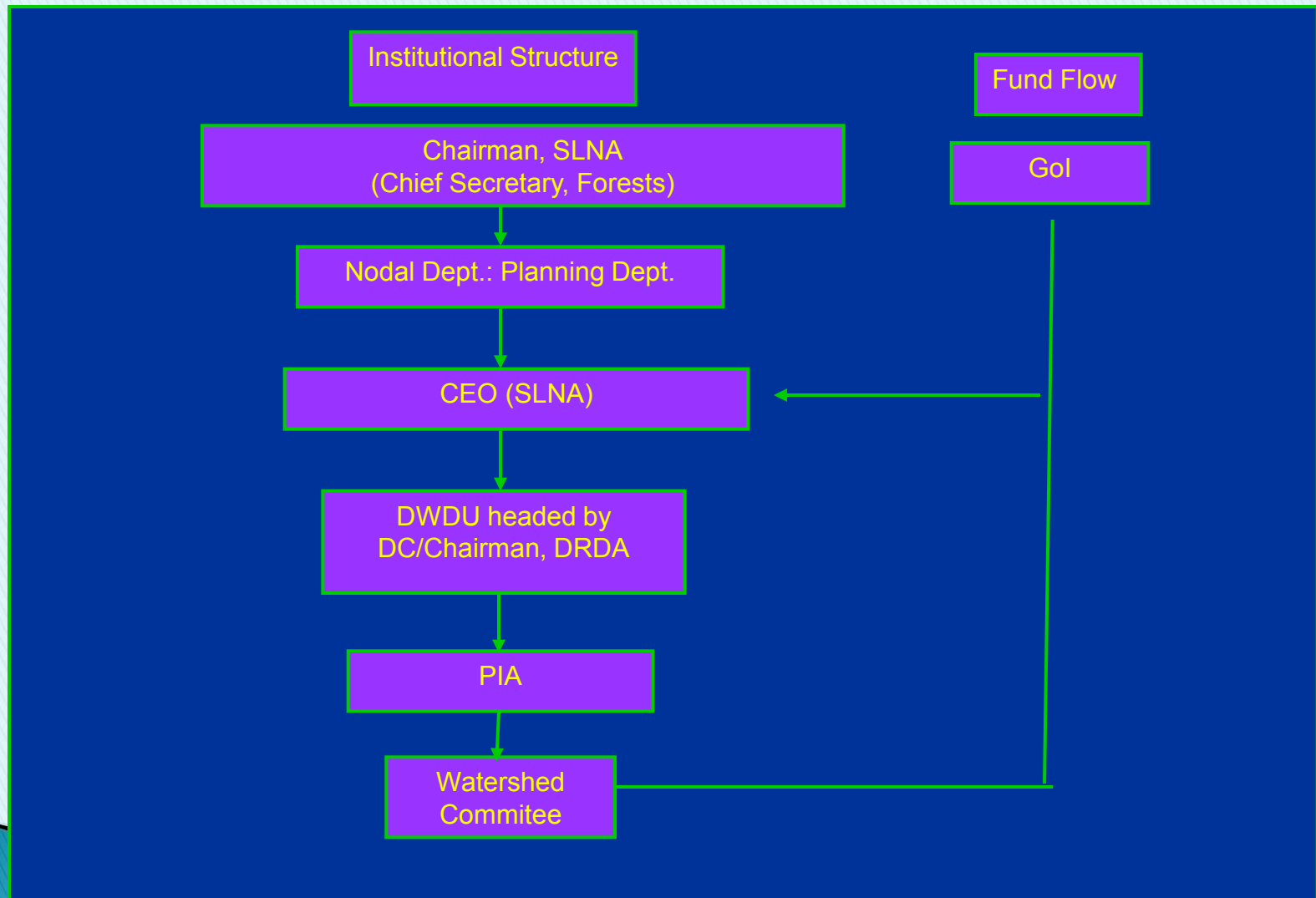
Sl. N o.	Districts	Opening Balance	Total Available Fund	Expenditure	% Expdr.	Closing balance
1	Tamenglong	2.25	499.19	491.52	32.87	7.67
2	Chandel	244.67	514.12	510.24	99.25	3.88
3	Ukhrul	0.864	0.895	0.864	96.54	0.03
4	Senapati	21.72	416.79	274.21	65.79	142.58
5	Churachandpur	0.81	0.81	0.18	22.22	0.63
6	Bishnupur	16.34	247.19	236.84	95.81	10.35
7	Thoubal	4.89	15.31	15.31	100.00	0.00
8	Imphal East	25.62	30.34	30.05	99.04	0.29
9	Imphal West	108.022	108.02	98.522	91.21	9.50
	Total:	425.186	1832.66	1657.74	72.12	174.93

MANDAYS GENERATED UNDER IWDP OF DoLR (2007-2010)

(As on 31/3/2009)

Name of the District	2007-08	2008-09	2009-10	Cuml Total
Senapati	106800	95500	208100	410400
Chandel	406570	609860	609860	1626290
Ukhrul	236000	139000	0	375000
Churachandpur	134103	155384	224009	513496
Tamenglong	31800	0	155830	187630
Imphal East Imphal West	10898	102430	555172	668500
Bishnupur	13000	37000	38200	88200
Thoubal	82044	2987	17392	102423
Total(State)	1022796	1144922	1808563	3976281

ORGANOGRAM FOR IMPLEMENTATION OF IWMP



SELECTION CRITERIA FOLLOWED BY DISTRICT WHILE SELECTING NEW PROJECTS

S. No.	Criteria	Applied or Not
i	Poverty index (% of poor to population)	Applied
ii	% of SC/ST population	Applied
iii	Actual wages	Applied
iv	% of small and marginal farmers	Applied
v	Ground water status	Not applicable
vi	Moisture index/ DPAP/ DDP Block	Not applicable
vii	Area under rain-fed agriculture	Applied
viii	Drinking water	Applied
ix	Degraded land	Applied
x	Productivity potential of the land	Applied
xi	Contiguity to another watershed that has already been developed/ treated	Applied
xii	Cluster approach in the hills	Applied

Agro-Climatic zone covers of Project Area

- Name of the Agro-Climatic zone covers project area
 - **sub-tropical**
 - **Soil Type**
 - (fine silt, clay loam and laterite)
 - **Topography**
 - hilly terrain with moderate to very steep slopes
 - Average rainfall in mm (preceding 5 years average)
 - Ranges from 361.65 mm in Senapati to 2248 mm at Churchandpur
- Major Crops**
- Paddy, Maize, Pulses, etc

MAJOR REASONS FOR SELECTION OF WATERSHED

- ▶ To contain Jhum Cultivation
- ▶ Better Livelihood through income generation and resource management
- ▶ To harvest rain water for irrigation, households use and pisci-culture
- ▶ To restore ecological balance in the wasteland areas by developing wastelands into arable lands and developing natural resources

CAPACITY BUILDING INSTITUTIONS IDENTIFIED

S. No.	Name of institute	Type	Specialization
1	ICAR, Lamphelpat Imphal	Central Government	Agricultural practices, Vegetable crops
2	Central Agricultural University Iroisemba Imphal	Central Government	Orchid cultivation, Horticulture development
3	K.V.K. Tamenglong districts	Central Government	Fishery, cropping pattern and animal husbandry
4	NIRD, Guwahati	Central Government	Rural Development and watershed management
5	SIRD, Porompat Imphal	State Government	Rural Development and watershed management
6	Khadi & Village Industries (KVI) Imphal	State Government	Honey bee cultural practices, Handicrafts etc
7	Handloom and Handicrafts Corporation. Imphal	State Government	Handicrafts, Handlooms
8	Horticulture and Soil Conservation Dept. Govt. of Manipur, Imphal	State Government	Orchid cultivation, Horticulture development
9	Manipur Remote Sensing Applications Centre Imphal	State Government	GIS and Remote Sensing

Summary of Livelihoods

- ▶ Existing livelihood activities
 - *Jhuming, terrace cultivation, farming*
- ▶ Possible Livelihood interventions under the project
 - *checked jhuming, assured better income generation, resource management and restoration of ecosystem*

LIVELIHOODS INTERVENTIONS PROPOSED

<p>Livelihoods proposed for asset less</p>	<p>Livestock production, Milch cattle production, Piggery farming, Rabbit rearing Bee keeping, Mushroom cultivation, Handloom and handicrafts production, Micro-financing for handlooms and allied activities, Skill development Training and placement,</p>
<p>Livelihoods proposed for farmers</p>	<p>High yielding varieties of cereals, Horticulture species, Off season vegetables, cultivation of medicinal plants, Exotic vegetables (Broccoli, baby corn), promoting organic foods, vermi-composting, Floriculture, value addition of farm products</p>

EXPECTED OUTCOMES

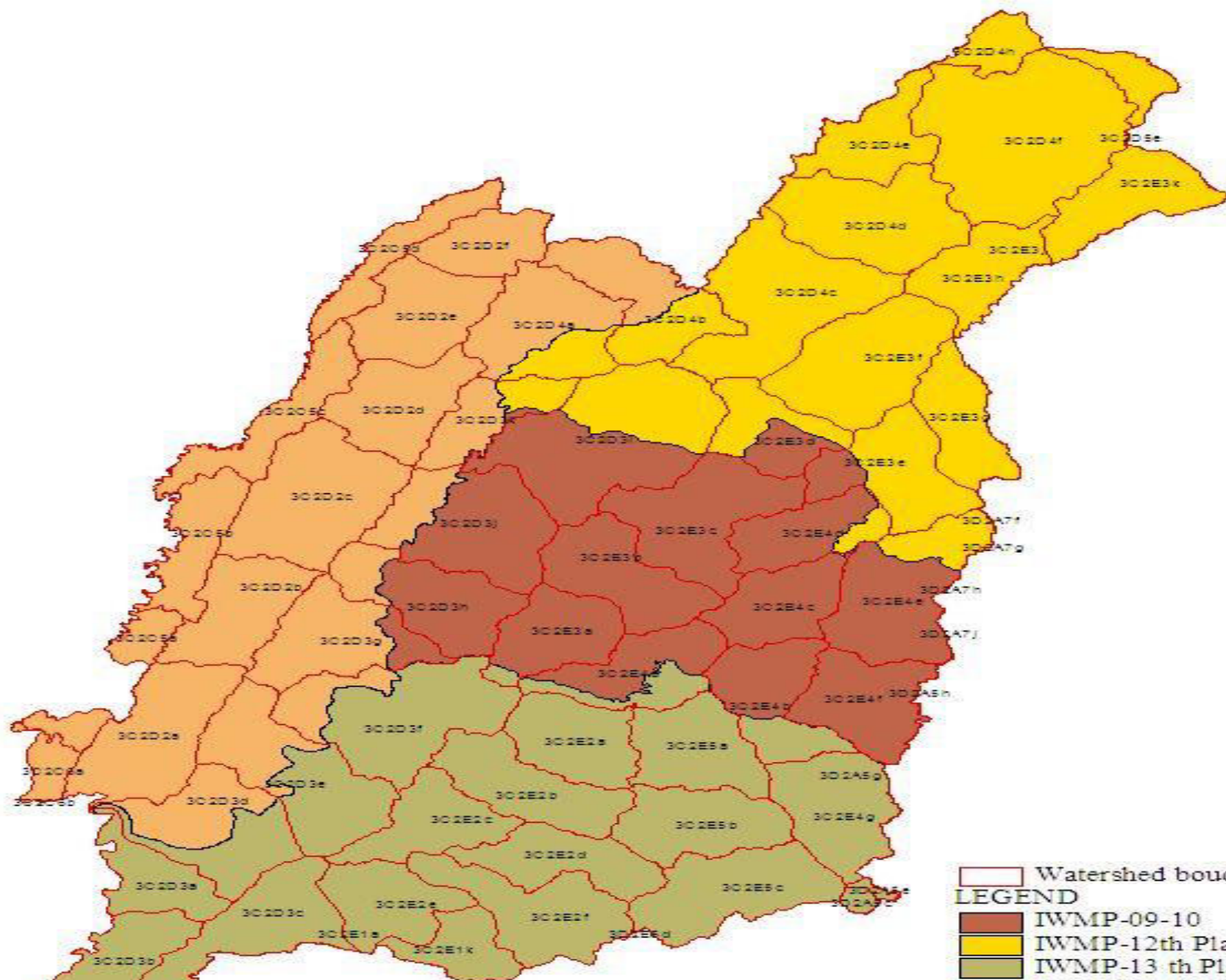
Sl. No.	Item	Pre-Project Status	Expected Post Project Status
1	Status of Water Table	Springs are drying in many of the project villages	Springs will be recharged
2	Surface springs & other water harvesting structures repaired/ rejuvenated	Around 50 structures require repair	All such structures will be repaired
3	Quality of Drinking Water	Muddy/ contaminated	Will improve
4	Availability of Drinking Water	Scarce and has to be carried from long distances (2-3 km)	Will improve significantly with project interventions
5	Increase in Irrigation Potential	Around 450 ha	Will improve significantly in about 4000 ha
6	Change in Cropping Pattern	Cereals (Maize, Rice), Kodo, Potato, Cabbage, Ginger	High yielding varieties of cereals, Floriculture, Horticulture species like Oranges, Passion fruit, Pear, Plum, Guava, Papaya, Exotic and off season vegetables, hybrid Ginger
7	Area under Single Crop		Area under double/ triple cropping will increase
8	Milk production		Nilk production will increase
9	SHGs		Nos of SHGs will increase
10	Livelihoods	Approx. households require livelihoods support	At least house holds will get the benefit of increased livelihood support
11	Average income per capita (at current prices)		Average income will enhance

SUMMARY OF PROJECTS

District	Total projects			Projects proposed for release of funds in the 1 st phase			
	Total no. of projects	Area (ha)	Total project cost (Rs in crores)	No. of projects	Area (ha)	Total project cost	1 st instal of CS (Rs in crores)
Senapati	2	9000	9.00	2	9000	13.50	2.70
Churachandpur	3	25350	38.02	3	18000	27.00	7.61
Tamenglong	4	24000	36.00	4	24000	36.00	7.20
Ukhrul	1	25000	37.50	1	5000	7.50	1.50
Chandel	4	24000	36.00	4	6000	9.00	1.80
Bishnupur	1	6000	9.00	1	6000	9.00	1.80
Thoubal	2	14455	17.35	2	14455	17.35	3.47
Imphal East	3	9000	10.80	3	9000	10.80	2.15
Imphal West	1	6000	9.00	1	6000	9.00	1.80
Total(State)	21	142805	202.70	21	97455	139.25	30.03

Brief Budget Overview

Sl.No.	Budget Component	Amount Rs. In crores
1	Administrative Cost	15.02
2	Monitoring	1.68
3	Evaluation	1.33
Preparatory Phase Including		
4	Entry Point activities	6.01
5	Institution and capacity building	7.51
6	Detailed Project Report	1.50
Watershed Works Phase		
7	Watershed development works	75.08
8	Livelihood activities for the asset less persons	15.02
9	Production system and micro enterprises	19.52
10	Consolidation phase	7.51
Total		150.17
1st instalment proposed for released		30.03



Legend for Watershed boundaries and planning periods:

- Watershed boundary (indicated by a red line)
- IWMP-09-10 (indicated by a brown color)
- IWMP-12th Plan (indicated by a yellow color)
- IWMP-13th Plan (indicated by a green color)

THANK YOU