

## Template for District Water Conservation Plans

1. Name : Hailakandi District, Assam  
Area : 1327 sq km  
No of villages : 331 nos.  
No of Blocks : 5 (five)  
Population : 731819 nos.  
Rainfall : Normal average annual rainfall = 2838mm  
Land use : It is a function of four variables - Land, Water, Air and Man
- I. Total Geographical area - 132700 Ha
  - II. Total area under forest - 57600 Ha
  - III. Total Cultivable area - 44147 Ha
  - IV. Total area under waste land - 7254 Ha
  - V. Total area under other uses - 2369 Ha

Cropping pattern:

- I. Area under Mono crop - 25182 Ha
- II. Area under Double crop - 18052 Ha
- III. Triple cropped area - 2150 Ha
- IV. Cropping intensity - 150%

Irrigation:

- I. Total Irrigated - 4543 Ha
- II. Production - 297438.7 Qtl./yr
- III. Productivity - 189300 kg/Ha

Ground Water Scenario: Net ground water available in the Hailakandi district is 308.51 MCM and ground draft for all uses is 21.19 MCM. Ground water draft for irrigation and drinking purposes accounts for 34.5% and 65.5% of total ground water draft respectively. The stage of development of the district is only 7% categorized as safe.

Surface Water Scenario: 1350 MCM (approx) available

  
Executive Engineer  
Hailakandi Katlicherra-Algapur  
Division (Irrigation) Hailakandi

  
Executive Engineer  
Water Resources Division  
Hailakandi


ECR  
3354/24  
02/09/23

2. Gap in existing water demand and supply

Sl. No.	Purposes	Existing water demand (MCM)	Existing water Supply (MCM)		Gap (MCM)
			Surface water sources (MCM)	Ground water sources (MCM)	
1	Drinking & Domestic	124.4	70.5	13.88	40.02
2	Irrigation	350.00	60.5	5.12	284.38
3	Industries	15.50	8.5	1.09	5.91
4	Infrastructure Projects	25.50	18.90	1.10	5.50

3. Hydrology of the area:

- (i) Rainfall: 2838 mm (average)
- (ii) Catchment area: 1280 sq. Km. (approx)
- (iii) Volume of water availability (Runoff): 1350 MCM (average)

  
Executive Engineer  
Hailakandi Kallanura-Algapur  
Division (Irrigation) Hailakandi

  
20/05/2023  
Executive Engineer  
Water Resources Division  
Hailakandi

4. Intervention proposed for water conservation

i) Supply side interventions

Sl. No.	Type of Intervention	Nos.					Volume of water proposed to be conserved (MCM)	Fund Required					Scheme
		Year 1	Year 2	Year 3	Year 4	Year 5		Year 1	Year 2	Year 3	Year 4	Year 5	
1	Conservation of artificial recharge structures	26	45	60	80	80	33.46 MCM	1600 L	2300 L	3200 L	4600 L	4600 L	Rainwater Harvesting Structures
2	Creation of surface storage	3	10	20	20	20	44.00 MCM	6800 L	400 L	800 L	800 L	800 L	Creation of pond, Reservoirs, etc
3	Repair, restoration and rejuvenation of existing structures	1	-	-	-	-	88.01 MCM	840 L	1360 L	2000 L	-	-	De-siltation and Re-sectioning of Jia Nadi (Defunct Water Body)
4	Recycle and reuse of sewage water	-	-	-	-	-	-	-	-	-	-	-	-

  
**Executive Engineer**  
 Hallakandi Karipal  
 Division (H)

  
**Executive Engineer**  
 Water Resources Division  
 Hallakandi

ii) Demand side Interventions

Sl. No.	Type of Intervention	Area (Hectares)					Volume of water proposed to be conserved (MCM)	Fund Required					Scheme
		Year 1	Year 2	Year 3	Year 4	Year 5		Year 1	Year 2	Year 3	Year 4	Year 5	
1	Drip Irrigation	5000	5000	5000	5000	4000	150	5000 L	5000 L	5000 L	5000 L	5000 L	
2	Sprinkler Irrigation	5000	7000	7000	5000	5000	384	10000 L	12000 L	12000 L	12000 L	12000 L	
3	Change in Cropping pattern / Crop Diversification	10000	10000	10000	10000	11120	85	3000 L	3600 L	3000 L	3000 L	3080 L	

Executive Engineer  
 Hailakandi Kailicherra-Algapur  
 Division (Irrigation), Hailakandi

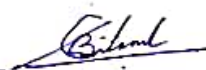
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 Hailakandi

5. Afforestation measures: Tentative plan, outlay with yearly targets

Sl. No.	Yearly targets in nos.					Total
	Year 1	Year 2	Year 3	Year 4	Year 5	
1	10000 nos.	10000 nos.	10000 nos.	10000 nos.	10000 nos.	50000 nos.

6. Awareness generation measures: Tentative plan, outlay with yearly targets

Sl. No.	Yearly Targets				
	Year 1	Year 2	Year 3	Year 4	Year 5
1	Raising awareness through public outreach campaign through social media, mobile phones, newspapers, newsletters, leaflets, T-shirts, armbands, banners, street plays etc.				

  
**Executive Engineer**  
**Hailakandi Katlicherra-Algapur**  
**Division (Irrigation) Hailakandi**

  
**Executive Engineer**  
**Water Resources Division**  
**Hailakandi**