

# **Bhagirathi Eco-Sensitive Zone**

**“Master Zonal Plan” Proposed projects  
under Eco-Sensitive Zone by Swajal**

**District Project Management Unit**

**Swajal, Uttarkashi**

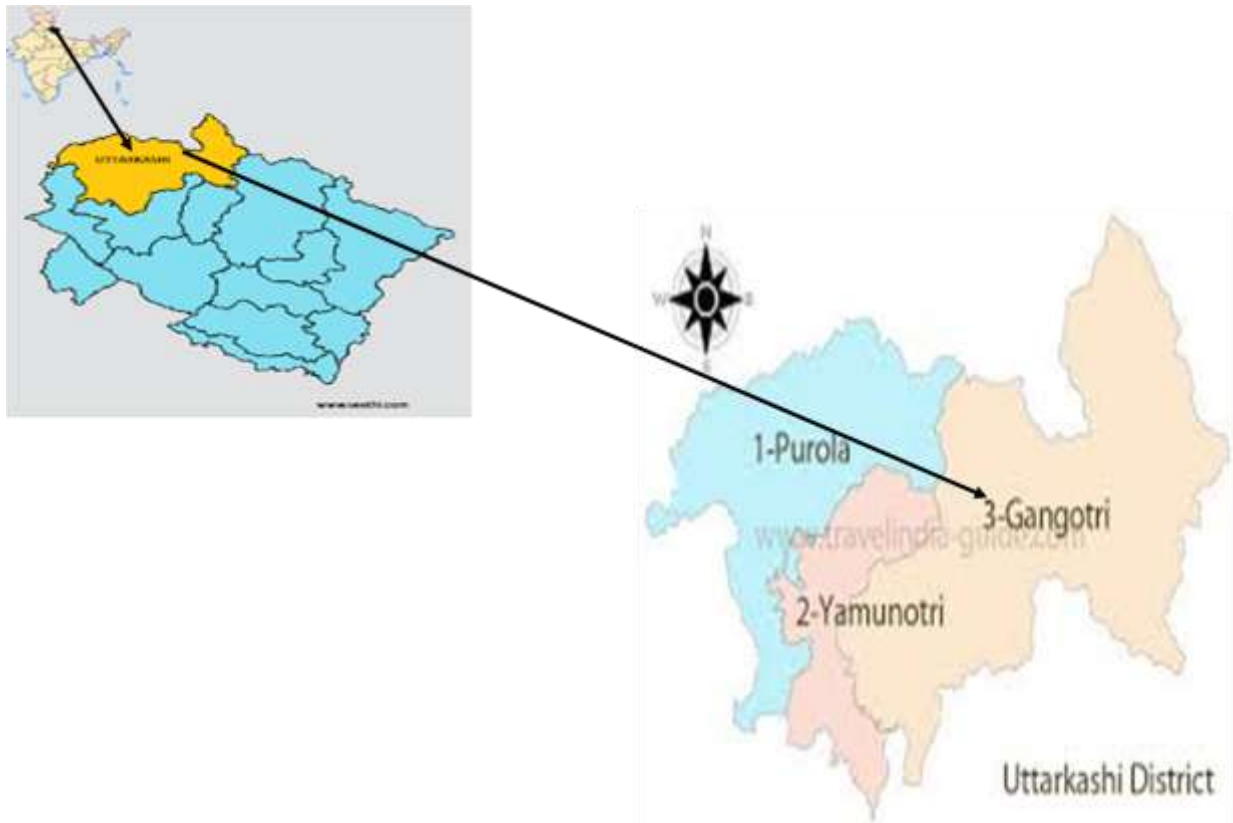
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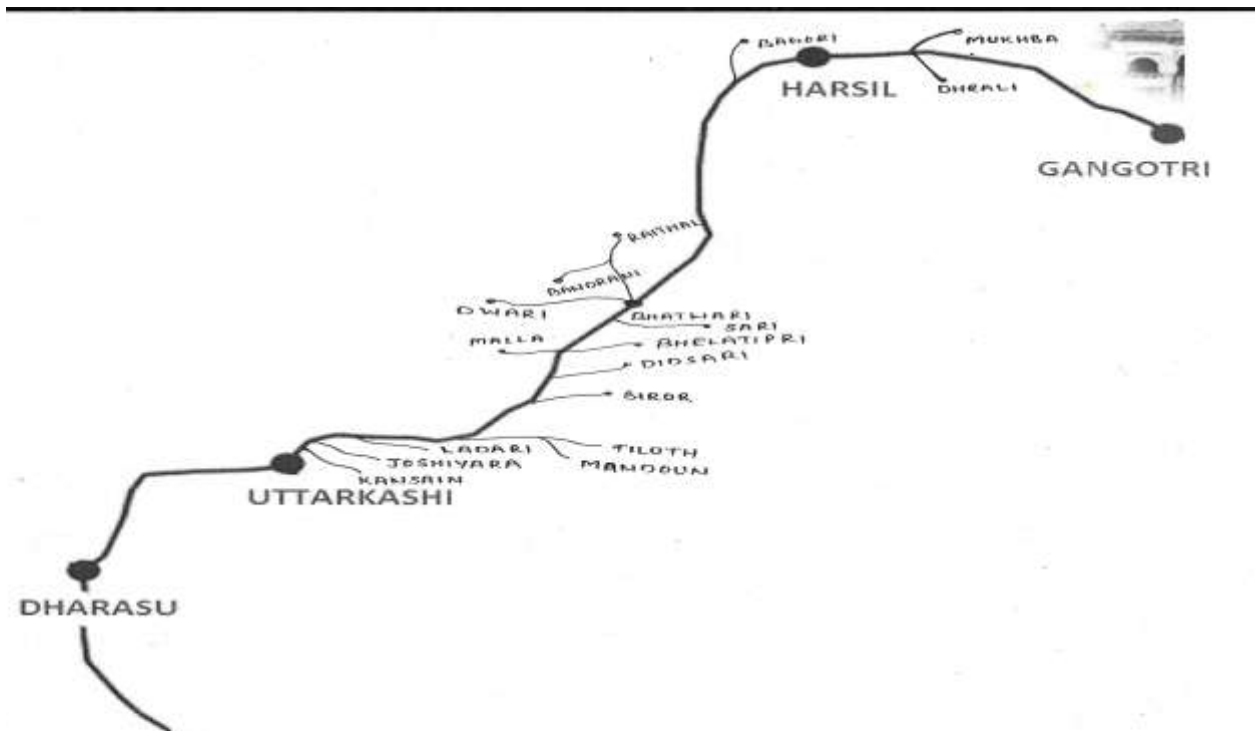
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1. View Map of Eco Sensitive Zone



2. Location of proposed sites under Eco-Sensitive Zone



### 3. Work proposed under different programmes

- **HHL (Household latrine) construction in all villages and solid & Liquid waste management work in Bandrani & Raithal Gram Panchyat under Swachh Bharat Mission (SBM) (G) Programme.**
- **Community Toilet and Solid & Liquid waste management work Namami Gange programme.**

#### Proposed works under SBM (G)

Sl. No	Work	Cost (in Lac)	Work Category notify in Gazette			Remarks
			Regulated	Permitted	Non Permitted	
01	Mukhwa Water Supply	30.27	-	Permitted	-	No explosive will be used in digging of trenches. Muck will be used filling of trenches and no Muck be remain. In futures same works can be done as per the public demand in Eco-Sensitive Zone as per laid norms.
02	Dwari Water Supply	17.72	-	Permitted	-	

#### Proposed works under SBM (G)

Sl. No	Work	Cost (in Lac)	Work Category notify in Gazette			Remarks
			Regulated	Permitted	Non Permitted	
01	IHHL (855)	100.02	-	Permitted	-	To make villages ODF
02	Solid & Liquid waste management (Drainages/Soak Pit/Garbage Pit)					
	1- Bandrani	7.00	Regulated	-	-	Contaminated water will be discharge on ground/ rivulet after proper treatment. In futures same works can be done as per the public demand in Eco-Sensitive Zone as per laid norms .
	2- Raithal	12.00	Regulated	-	-	

**Proposed works under Namami Gange Programm**

Sl. No	Work	Cost (in Lac)	Work Category notify in Gazette			Remarks
			Regulated	Permitted	Non Permitted	
1	Bagori	12.00	Regulated	-	-	Contaminated water will be discharge on ground/rivulet after proper treatment. In futures same works can be done as per the public demand in Eco-Sensitive Zone as per laid norms .
2	Bhatwari	12.00	Regulated	-	-	
3	Bhela Tipri	7.00	Regulated	-	-	
4	Dhrali	12.00	Regulated	-	-	
5	Didsari	7.00	Regulated	-	-	
6	Harsil	7.00	Regulated	-	-	
7	Jhala	12.00	Regulated	-	-	
8	Joshiyara	15.00	Regulated	-	-	
9	Kansain	15.00	Regulated	-	-	
10	Ladari	20.00	Regulated	-	-	
11	Malla	12.00	Regulated	-	-	
12	Mandow	7.00	Regulated	-	-	
13	Siror	12.00	Regulated	-	-	
14	Tiloth	15.00	Regulated	-	-	

#### **4. Cost analysis for water supply scheme under National Rural Drinking Water Programme**

- Under national rural drinking water programme the water supply schemes will be constructed in two gram panchayats as mukba and dwari
- Mukhba- In Mukhba water supply cost estimated as 30.27 Lakhs for a population of 687 .
- Per capita cost is estimated Rs. 4406.11 for the project.
- About 55 lpcd water will be provided at stand post and 75 lpcd water will be provided at individual house hold level connection.
- As the water is an important component of sanitation so the water supply scheme is designed to connect 75 % of Households by private connection at base year, and 100% households upto designed year.
- In the water supply scheme the most of construction material is non local and provided by open market purchasing. The local materials as sand, stone & Grits are provided by the locally available sources, for construction of water supply reservoir for safe storage of water, roughening filter for filtration of drinking water, and source work for collection of water.
- Dwari- In Dwari water supply scheme cost is estimated as 17.42 Lakhs for a population of 432.
- Per capita cost is estimate as RS. 4032.00 for the project.
- Same the 55 lpcd water will be provide at stand post and 75 lpcd for individual house hold connection.
- Scheme is designed to connect 75 % of Households by private connection at base year, and 100% households upto designed year.
- In the water supply scheme the most of construction material is non local and provided by open market purchasing. The local materials as sand, stone & Grits are provided by the locally available sources, for construction of water supply reservoir for safe storage of water, roughening filter for filtration of drinking water, and source work for collection of water.
- As the water is an important need for drinking and other day to day activites.

## 5. Cost analysis of Individual House Hold Toilets

- The toilets of individual house hold has been constructing under “Swatch Bharat Mission” and Swajal project is working just as a facilitator by giving as a amount of 12000.00 to a house hold after constructing new toilet.
- The above programme is set to achieve a mindset of 100% sanitation and made total open defecation free community at gram panchayat level.
- Swajal project is not constructing toilets itself but just giving a motivation for total sanitation. In eco sensitive zone the above program should boosted on priority basis so that not a single house hold will open defecate.
- The solid and liquid waste management project is running under Swatch Bharat Mission guidelines for the scientific management of the solid and liquid waste at gram panchayat level. The project has consist of components as compost pit for the composting of cow dung, soak pit for safe drainage and disposal of domestic waste water, drains for safe drainage of waste water/ rain water.
- In the above project the overall cost the estimate is limited on household basis as per guideline of Ministry of Drinking Water & Sanitation Govt. of India.
- upto 150 household the overall cost of estimate limited upto Rs. 7.00 lacs
- upto 300 household the overall cost of estimate limited upto Rs. 12.00 lacs
- upto 500 household the overall cost of estimate limited upto Rs. 15.00 lacs
- and above 500 household cost can exceed upto Rs. 20.00 lacs in above analysis, the expenditure in per household comes around Rs. 5000.00, which includes compost pit for composting cow dung, soak pit for safe disposal of house hold drainage sludge water, and garbage bins for non biodegradable disposal of solid waste