



Office of the Senior Geologist

Groundwater Surveys and Development Agency, GoM.

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No. SG/GSDA/Pune/Tech/LGW/ 911 / 2024

Date- / 09/2024

✓ To,

13 SEP 2024

Shri.Shubham Kolte
Bakori, Taluka Haveli, Dist Pune.

Sub :Regarding Hydrogeological Survey at Gat no. 235/4 and 235/2 of Village Bakori, Taluka Haveli,, Dist Pune.

Ref : Your application dated 04/09/2024

With reference to the above subject hydro-geological survey was carried out in the presence of concern personnels at the 235/4 and 235/2 of Village Bakori, Taluka Haveli, Dist Pune. At the time of Hydrogeological survey the concern personnel Shri.Sambhaji Kamthe was present, The details of the proposed site are as below.

Name of Village	Bakori, Taluka Haveli, Dist Pune.
Co-ordinates	Lat -18°40'13.8" N, Long -74°09'27.0" E
Elevation (msl)	578 m
Toposheet& Quadrant No	47J/2 and 2A
Watershed No.	BM-36
Category	Semi-Critical (As per Groundwater Assessment 2022-23)
Rock Type	Basalt
Aquifer (Water bearing Zone)	Shallow Aquifer (Jointed and Fractured Basalt)

Location:

The village Bakori is located towards 5 km by road south-east of the village of wagholi, and 6 km by road north of the village of kesanand.

The area under study i.e said 235/4 and 235/2 is located towards South east direction of of Village Bakori.

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the surrounding area is also the factors which control and affect the availability of groundwater.

Presently, at the said Gat No. two groundwater source dugwell and borewell is observed which are used for domestic and drinking purpose. The details of existing groundwater sources are given as below.

Sr. No	Source	Location Gat No.	Details of GW Source					Lifting Device	Remark
			Dimensions /Daimeter in m	Dep th in m	Water Level in m.				
					Winter	Summer			
1	Bore Well	Bakori, 235/4 and 235/2	150 mm	60 m	6.50 m	15.50 m (R)	Electrict submersible pump 3 HP		
	Dugwell	Bakori, 235/4 and 235/2	10m	20m	7m	16.10 m(R)	Electrict submersible pump 5 HP		

As per information from the applicant representative, the existing source is perennial in nature and presently used for domestic and drinking purpose.

Observations:

On the basis of Hydrogeological survey done by this office, two groundwater source (Bore well and dugwell) is used for drinking and domestic purpose. From the groundwater availability point of view, the surveyed area is moderate yielding groundwater potential zone. By considering the existing source presently the approx 10Cu.m/Day water may available from the existing Dug well and Bore well.

Nevertheless, deficit in normal rainfall, increase in population density, excess groundwater extraction from surrounding areas and lack of groundwater recharge may create stress on the availability of groundwater. Following measures are recommended and are mandatory to the applicant.

Recommendations:

1. At the time of any development process the applicant /company /every holder of a said land shall take all possible precautions to avoid the disturbance of the natural drainage system and aquifer system available.
2. The available groundwater should be strictly used for drinking and domestic purpose only. For future development of infrastructure the requirement of water should be fulfilled by tanker water/untreated raw water so that extraction/utilization of groundwater is controlled.
3. If in future the additional water required for the drinking and domestic purpose, the water requirement should be fulfilled by the water supply connections of local authority and is mandatory to the applicant.
4. For the sustainable availability of groundwater the Roof Top Rain Water Harvesting measures to the existing groundwater sources is must.

