

Ekatvam Innovation presents,

Status of

Water Resource KUNDALIYARA

JANUARY 2023

Season -**KHARIF** Taluka -RAJULA

Our Village's detailed monthly water report



Know our Village Demographics.

Village Population









1Z Humans

Cattle

Sheep

Temperature



10 ° C

33 ° C Maximum

Wind Speed



Unit Conversations

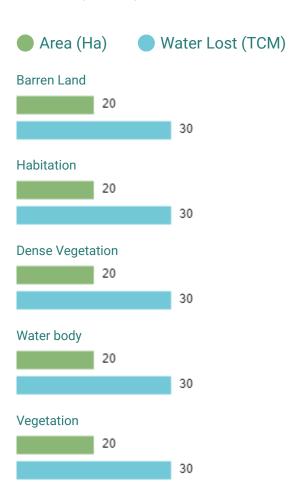
1 TCM = 10 Lakh Litres = 0.1 Crore Litres. 1 Hectare(Ha) = 2.47 Acre = 5.92 Bigha The Village map with Land division boundaries.



*Estimated as per satellite image of year 2023.

Area under the village

47 Ha (hectares)



Kundaliyara, Rajula

January 2023

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How much rainfall did our village recieve?

Rainfall recieved till January.

Rainy Days

231 mm (milli meters)

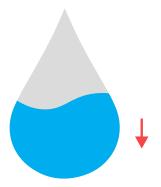
29

Rainfall till now

32 mm (milli meters)

Total Rainwater (Volume)

3325 TCM



Average Village Rainfall

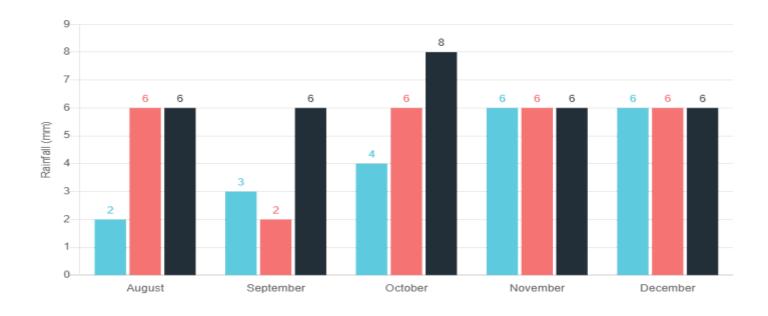
Avg. Rainy Days

124 mm (milli meters)

73

Overall Rainfall recieved till January is LESS than 80 % than the Average rainfall.

Graph showing monthly comparison of Rainfall Data



Current Year Rainfall

Previous Year Rainfall

Avg. 5 Year Rainfall

What happens to our Surfacewater Runoff?

Total runoff generated till January.

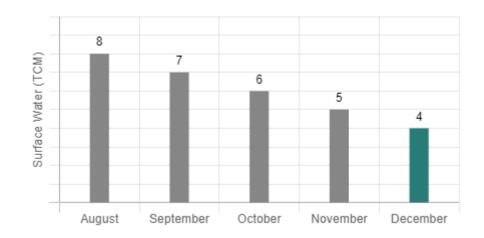
323 mm

Surfacewater bodies filled as of January.

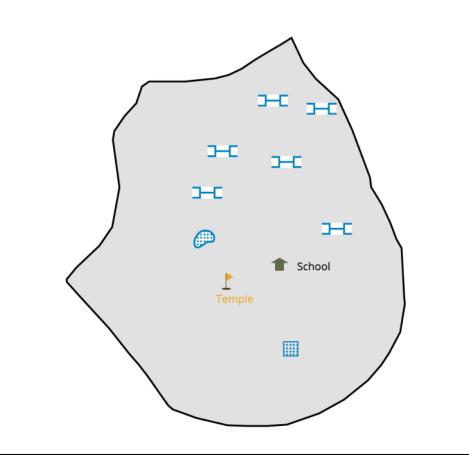
39

Total Surfacewater as of January.

739 TCM



Legend		
⊐ Check Dam	11	
Percolation Tank	12	
Village Pond	13	
Farm Pond	14	



The Village map with Surface Water Bodies Locations.

What is our village Groundwater Level?

Note:- Groundwater is our invisible resource and is highly dynamic in nature, so it needs to be used judiciously.

Soil Moisture + Ground Water in January

Total Observation Wells

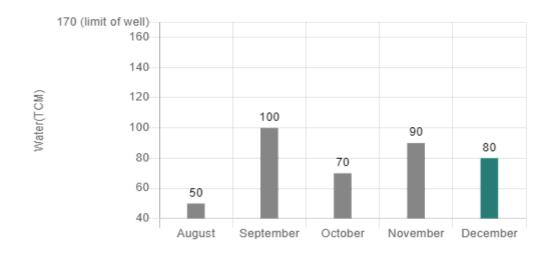
199 mm

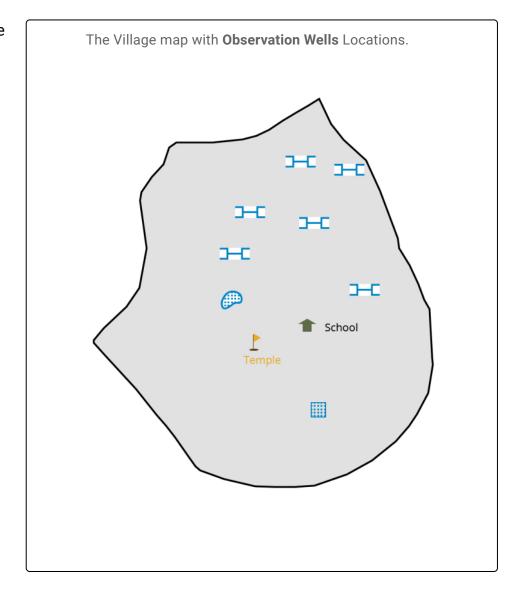
683 mm

Average water level as of January.

82 m Bgl (Meters Below Ground Level)

Graph representing Monthwise Groundwater Level.





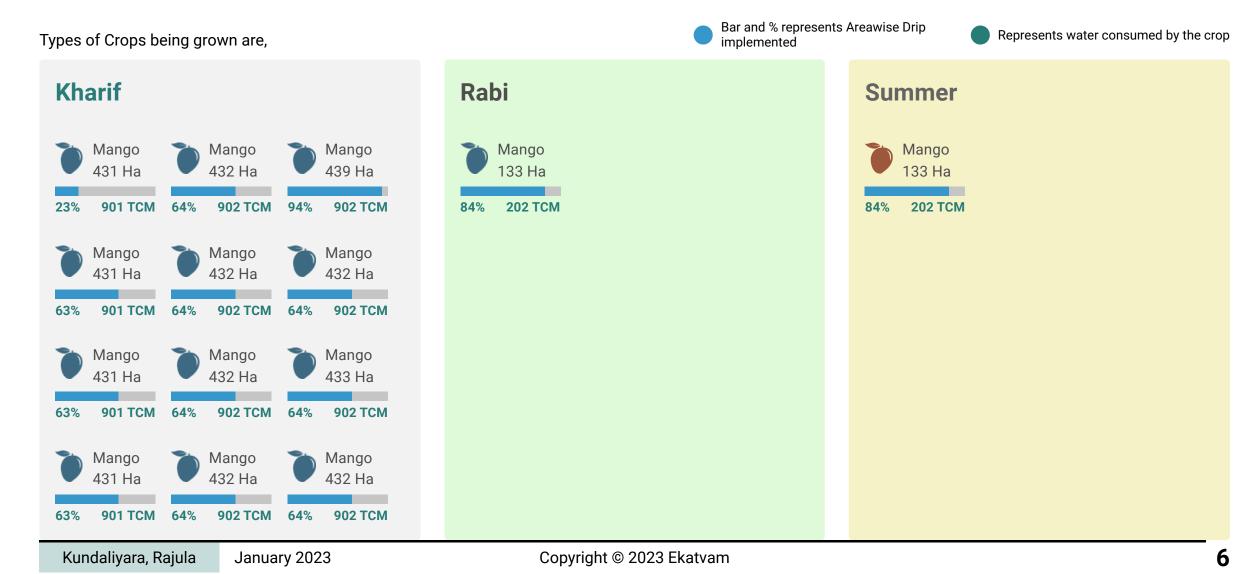
How much water did our village crops use?

Water consumed by crops till January

Area Under Crops

5839 TCM

3321 Ha (Hectares)



How much water does our Households use?

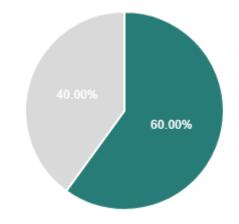
Domestic Water consumed till January

3891 TCM

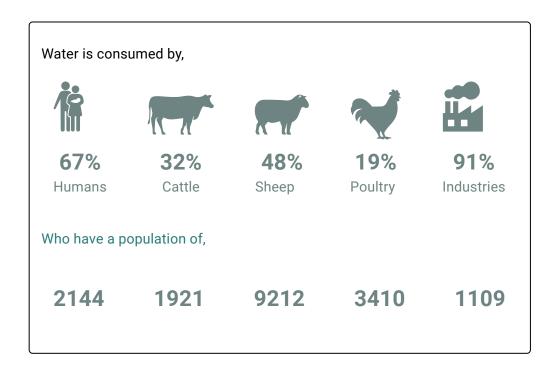
Annual consumption of the Village

2210 TCM

Pie chart showing Annual Domestic consumption



Overall Water Consumption



What is our WATER BALANCE?



Kundaliyara, Rajula

January 2023

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Glossary

Term	Page No.	Meaning
Water Lost	2	Total evaporation of water from waterbodies, Barren lands, Dense vegetation and Grasslands have been considered.
Surface water	4	Volume of water in various water conservation structures as observed in satellite images obtained in the month of January .
Groundwater + Soil Moisture	5	The estimated volume of water computed using groundwater levels of observation wells measured n the service.
Crop water requirement	6	Total water that has been cosumed by the crops till January .
Domestic Consumption	7	Amount of water consumed by Humans, Sheep, Cattle, Poultry & Other Industries as per the Indian Standard norms.
Supply	8	Volume of water present in various forms like Surfacewater, Groundwater and Rainfall till January
Demand	8	Volume of water consumed for irrigation, drinking water purposes and total evaporation till January
Water Balance	8	Volume of water remaining after the consumption (Supply - Demand) in January

Thank You.

This report is presented to you by

Ekatvam Innovations Pvt. Ltd. The Data has been derived from Primary and Secondary Sources:

- Primary Sources being the Field Visits conducted by Team Ekatvam in the Service.
- Secondary Sources being the Satellite images and Government Records.