





# Sri Sharada Public School Annigeri

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## Alkya Mentor coach -

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## Team members names -

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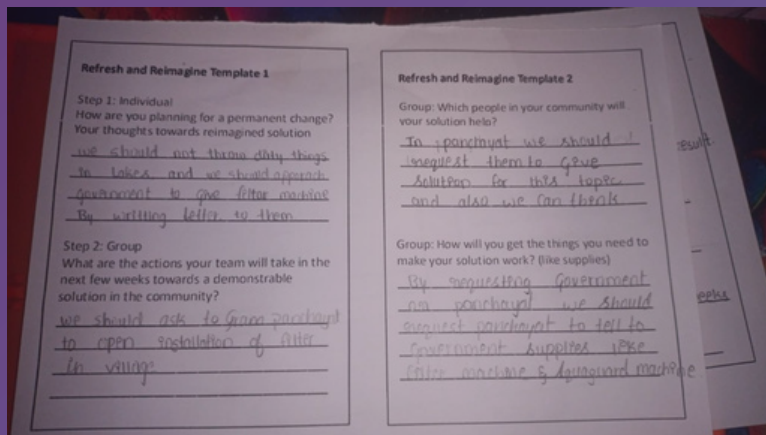
# What Challenge Does Our Project Address?

- People drink unsafe lake water.
- Lake water contains germs, dirt, and impurities.
- Dirty water causes diseases.
- Need awareness about clean and filtered water.



# Ideation Phase

- Identified drinking lake water as a local problem.
- Collected and observed lake water sample.
- Visited Hellikeri village.
- Goal: Create awareness about safe drinking water.



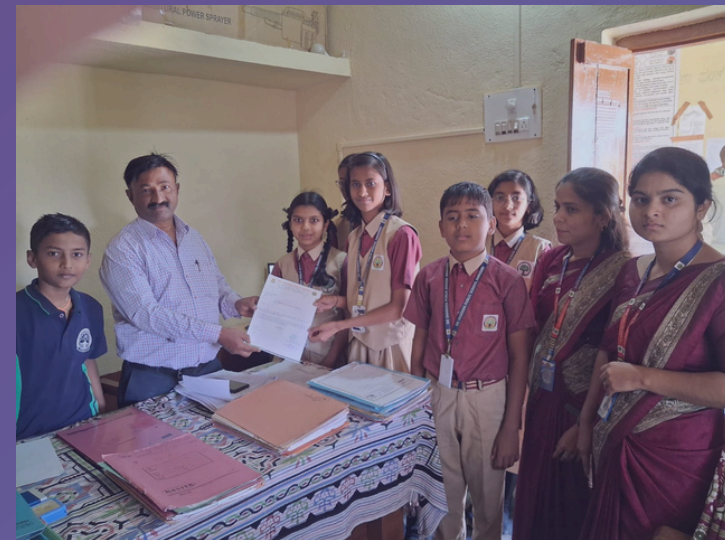
# Real-World Problem

- Millions lack safe drinking water.
- Dirty water contains harmful germs.
- Causes diseases like diarrhea and typhoid.
- Clean water is essential for health.



# Learning from Interviews

- Interviewed villagers.
- Learned about water shortages.
- Understood health risks.
- Developed awareness and responsibility.



# Research Findings

- Lake water contains bacteria and chemicals.
- Purification methods include filtration and boiling.
- Water filters make water safe.
- Research helped understand purification.



# Water Quality of Lake Water

- Bacteria and germs – 35%
- Mud and dust – 25%
- Chemical pollutants – 20%
- Organic waste – 10%
- Safe water after purification – 10%



# Motivation to Take Action

- Learned dangers of dirty water.
- Understood importance of clean water.
- Motivated to create awareness.
- Encouraged safe water use.



# Laboratory Testing

- Collected lake water samples.
- Sent to laboratory.
- Tested for contamination.
- Water was unsafe without purification.



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**WATER ANALYSIS TEST REPORT**

Client : Shri Sharadha Public School  
Amnigeri.

Certificate No. : ESSAR/152  
Date of Sampling : 07/02/2026  
Date of Issue : 09/02/2026  
Ref No : Verbal-07/02/2026

Sample details : Water sample as submitted by the party : Water Sample  
Test Device Details : Instrumental, Volumetric & Gravimetric  
Source at : Lake Water, Hallikeri.  
Procedure Used : IS-3025 APHA-AWA

Sl. No.	PARAMETER	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable Limit	Permissible Limit
1.	Colour (Hezen)	--	IS 3025 (Part 4) 1983	2.6	5	15
2.	Odour	--	IS: 3025(Part 6)-1983	Agreeable	Agreeable	Agreeable
3.	Taste	--	IS: 3025(Part 7&8)	Agreeable	Agreeable	Agreeable
4.	Turbidity	NTU	IS: 3025(Part 10)-1984	3.2	1	5
5.	Hydrogen ion concentration(pH)	--	IS: 3025(Part 11)-1983	7.16	6.5 to 8.5	No Relaxation
6.	Electric Conductivity (EC)	µS/cm	IS 3025 (part 14)-1984	235	--	--
7.	Total Dissolved Solids (TDS)	mg/l	IS 3025 (part 16)-1984	201	500	2000
8.	Total Hardness (TH)	mg/l	IS 3025 (part 21)	100	200	600
9.	Calcium (Ca <sup>++</sup> )	mg/l	IS 3025 (part 40)-1991	22.2	75	200
10.	Magnesium(Mg <sup>++</sup> )	mg/l	IS 3025 (part 46)-1994	9.1	30	100
11.	Chloride(Cl <sup>-</sup> )	mg/l	IS 3025 (part 23)-1998	24.8	250	1000
12.	Fluoride(F <sup>-</sup> )	mg/l	IS 3025 (part 60)-2008	0.8	1.0	1.5
13.	Sulphate(SO <sub>4</sub> <sup>-2</sup> )	mg/l	IS: 3025(Part 24)-1986	9.6	200	400
14.	Nitrates(NO <sub>3</sub> <sup>-</sup> )	mg/l	IS: 3025(Part 34)-1988	5.2	45	No Relaxation
15.	Iron(Fe)	mg/l	IS: 3025(Part 53)	0.09	0.3	No Relaxation
16.	Alkalinity	mg/l	IS: 3025(Part 23)-1986	98	200	600
17.	Free Residual Chlorine, Min	mg/l	IS: 3025(Part 26)	Nil	0.2	1.0
18.	Salinity	--	--	120	--	--
19.	Total Suspended Solids	mg/l	IS: 3025(Part 17)-1984	39	--	--

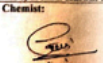
**BACTERIOLOGICAL PARAMETERS:**


Sl. No.	PARAMETER	Units	Test Method	Result	Requirement
20.	Total Coliforms	MPN/100 ml	IS : 1622-1981	Absent	Should be absent per 100 ml
21.	E Coli	MPN/100 ml	IS : 1622-1981	Absent	Should be absent per 100 ml

Inference as per IS 10500:2012 Standards: BFL - Below Detectable Level ND-Not Detected

**REMARK : WITHIN THE PERMISSIBLE LIMITS FOR TESTED PARAMETERS.**

*Statements*  
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Total liability of our Laboratory is limited to actual service amount.  
Any dispute arising out of this report is subject to Hubli Jurisdiction.  
Samples not deemed by us unless otherwise stated.

Chemist: 

Chief Executive Officer: 

# Investigation Activities



- Collected and observed samples.
- Visited village and lake.
- Took photos and notes.
- Learned importance of purification.



**Students performed a short skit to create awareness among villagers about the dangers of drinking lake water directly. The skit showed that lake water may contain dirt, germs, and harmful bacteria that can cause diseases. A student acting as a health worker explained the health risks and demonstrated how using filtered water makes it safe for drinking. Through this skit, students encouraged villagers to avoid drinking untreated lake water and to use clean, filtered water to protect their health.**



<https://photos.app.goo.gl/ktfzLRQnXZeYp72t6>

# Action Taken

- Visited village.
- Spoke to villagers.
- Explained dangers.
- Encouraged use of filtered water.



# Use of Technology

- Used mobile phones.
- Used internet for research.
- Created PPT and charts.
- Prepared awareness materials.



Google Photos



ChatGPT

# Interview Snippets

- Interviewed villagers.
- Understood their problems.
- Collected useful information.



# Project Journey

- Identified problem.
- Collected samples.
- Laboratory testing.
- Awareness creation.



# Conclusion

- Lake water is unsafe without purification.
- Clean water is essential.
- Awareness prevents diseases.
- Use clean and filtered water.

