

We make a living by what we get,
we make a life by what we give.



R.O. Water ATM with Chiller

At Dhom (Punarvasan), Tal. Wai, Dist. Satara



Project Executed by



Project Sponsored by



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Release History

Version	Release	Date	Initials
1.1	V1.1	04th February2026	LS, RJ
1.2	V1.2	12th February 2026	GK

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1. Acknowledgement

It has been a valuable experience working with Cloudwerx Solutions India Pvt. Ltd under its CSR initiative. We sincerely thank the management of Cloudwerx Solutions India Pvt. Ltd for their significant financial contribution, which supported the successful implementation of this project.

We also express our gratitude to our well-wishers and guides for their inspiring guidance, constructive criticism, and supportive advice throughout the project work.

We are grateful to the villagers of Dhom, along with their respective leaders and coordinators, for their time, efforts, and dedicated participation in the project activities.

Finally, we thank all members of Deepastambha Charitable Trust for their unconditional support throughout the project. We value the feedback provided by members, as it helps us continuously improve the overall quality and effectiveness of our functions as a charitable trust.

2. About Deepastambha Charitable Trust, Pune

Established	2008
Mission	To integrate the Social Sense in human beings to make this world a better place for all.
Work Domain	🕒 2 Hours Weekly for Society - Grassroots volunteer engagement. - Traffic Awareness, Cleanliness Drives, Knowledge Sharing, Plant Visits, Slum Outreach, Animal Rights, Awareness campaigns on various social issues, and Social Innovation. Compassionate Engagement: Spreading joy and support at orphanages and elderly homes. 🏛️ Projects & Causes (Specialized social transformation initiatives.) - Upayn: Gift-based donation camps. - Eco-Paavitrya: Promoting green celebrations. - Conserve To Serve: Resource conservation efforts. - Skool-Sansad: Model Parliament for School Students. - Skool-Kits: Learning aids for slow learners. - Safety & Skills: Child protection and skill-building. - Gramarthan: Rural self-reliance projects including green energy, women empowerment, watershed management etc. - Niramayaa: Various health camps, cancer and anaemia awareness, water ATM for clean water etc.
Area of work	- Across Maharashtra - Online Activities across the Globe
Statistics	- Over 1250 activities, 750 registered members & counting. - Associated with 50+ NGOs, 100+ Villages, 1500+ schools in Pune & over 50+ corporates for CSR activities.
Compliance	- Deepastambha is a Charitable Trust registered under Bombay Public Trusts Act, 1950. - We are registered under section 80G of Income Tax Act; we have obtained registration certificate 12A. - Deepastambha Charitable Trust (DCT) is officially registered under CSR-1 with the Government of India, Ministry of Corporate Affairs - Deepastambha Charitable Trust (DCT) is registered on the NGO DARPAN portal of NITI Aayog, Government of India - DCT has PoSH (Prevention of Sexual Harassment at workplace) Committee in place, ensuring compliance with statutory workplace safety and governance norms.
Note	As per the policy, we provide donation receipt against the received amount. We cannot provide invoice / bill /any other receipt against transaction.

3. About Gramarthan

Established	2013
Objectives	• To assist the villages in availing the basic needs with natural resources • To arrange expert interactions for using different available resources in a constructive manner. • To help villagers in acquiring the basic medical facilities, education, income generation techniques, women empowerment, technological opportunities. • To make the villagers independent and self-sufficient in all aspects. • To fulfill their basic needs with the help of easy solutions and technology
Projects and Activities	• Educational Activities (Encourage, Engage, Educate and Empower Children) – - Skool-Falak –Board containing information out of their syllabus - Library set-up and development of reading techniques in more than 10 villages - Skill Development Programs (Yoga classes, dance classes, career development, computer classes, menstrual health management, drawing, craft) - Career Guidance Sessions/additional classes for various subjects - Child Abuse Awareness, cleanliness awareness through digital media. • Swacha Maze Gaon – Cleanliness Drives; Competition in Schools; Knowledge Sharing Session • Watershed Management – Watershed surveys; Built a Water Reservoir Desilting of water bodies; Repair work of check dams, Gabiyan and Vanarai bunds, Deep CCT. - Shramsetu – Watershed related “Shramadan” Activities • Niramayaa (Health & Hygiene) – Awareness Programs on Menstruation Cycle and Personal Hygiene, Monthly OPD, Various Health Camps – Cervical Cancer, Breast Cancer, Eye Check-up, Hemogram etc. - Water ATM for clean drinking water - Construction / renovation of Girls & Boys Toilets • Green Energy – Solar light, Solar pumps etc. • Village Team building – celebrating festivals with villagers, watching movie, encouraging volunteerism in villagers for various initiatives • Women Empowerment – Training on various skillsets, expert lectures on entrepreneurship development, prototype programs for confidence building, counseling sessions for family members
Geographical Scope	Pune, Satara, Ratnagiri, Nashik, Dhara Shiv, Kolhapur, Sangali, Ahilyanagar

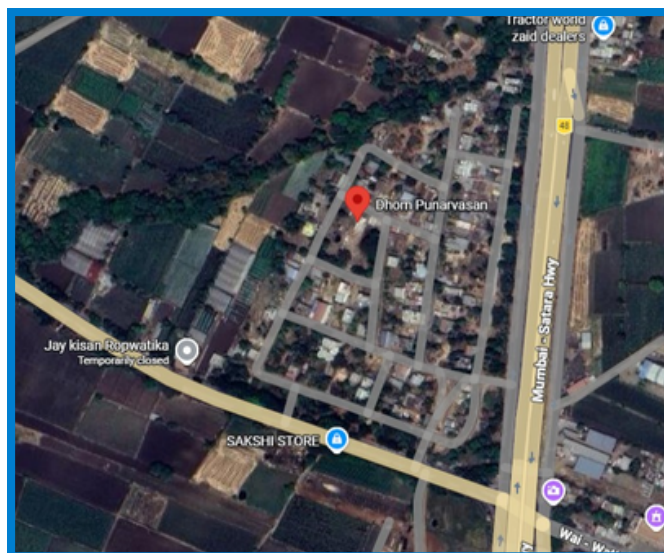
4. Project Details

4.1 Background

Dhom (Punarvasan) is a village located in Wai Taluka, Satara District, in the state of Maharashtra, India. It falls within the Western Maharashtra region and is part of the Satara Division. The village is situated 9 km from Wai tehsil headquarters and 40 km from Satara district headquarters.

A survey was conducted to understand the problems faced by the villagers and to assess the basic requirements necessary to initiate water management activities in Dhom.

The village requested Deepastambha Charitable Trust to visit for potential collaboration. Following the initial visit, a village assessment was conducted, and five projects were shortlisted based on the identified needs. Subsequently, the villagers requested the installation of R.O. plant and a Water ATM with a chiller.



Census Parameter	Data
Total Population	1288
Total No of Houses	126
Female Population %	48.72%
Total Literacy Rate %	88.92%%
Female Literacy rate	80.20%
Working Population %	50.90%

As the village is located in close proximity to the forest, it receives direct water supply from a well without any basic filtration process. This has resulted in health-related concerns. In addition, frequent power cut-offs have affected the reliability of the water supply system. This has adversely affected the health and safety of the villagers.

4.2 The objective of R.O. Water ATM

- To provide clean drinking water and reduce health-related issues in the village.
- To create a sustainable source of income for the Grampanchayat.

4.3 Research work

Water RO Plant and ATM with Chiller.

During discussions with villagers, they reported facing water-borne diseases, including skin disorders and kidney problems.

An initial test of the drinking water indicated a TDS level of 320 ppm. The palatability quotient is considered excellent for drinking water when the TDS level is between 50 and 150 ppm. Based on this, the TDS level of drinking water in Dhom is poor.

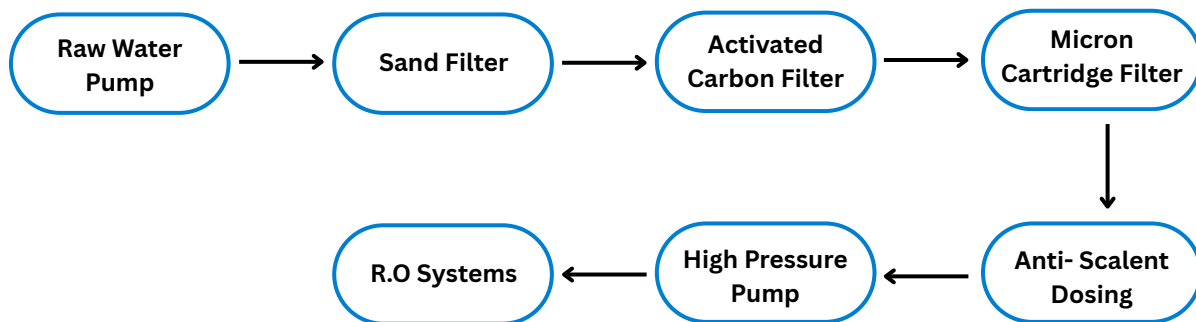


Please refer to the TDS chart for details.

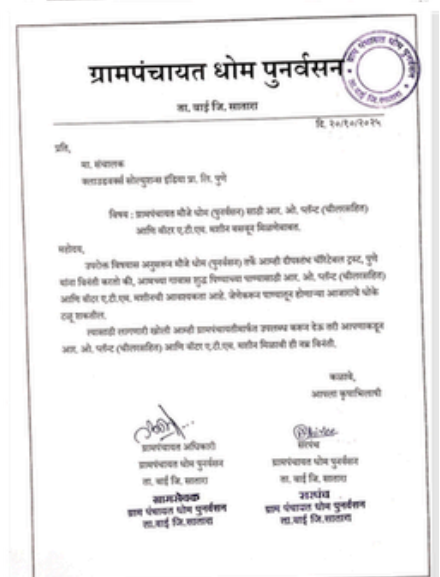
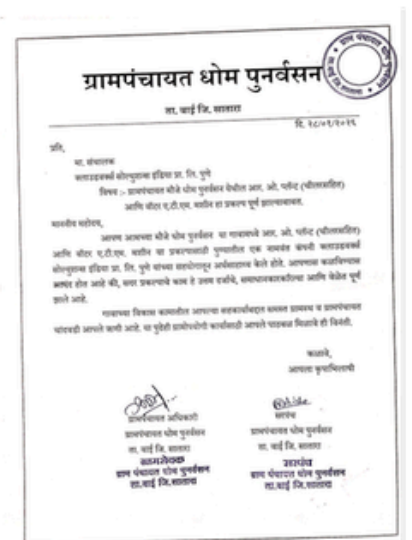
TDS in Water (measured in PPM)	Suitability for Drinking Water (palatability quotient)
Between 50-150	Excellent for drinking
150-250	Good
250-300	Fair
300-500	Poor, not good for drinking

Water treatment facilities can use reverse osmosis to remove dissolved solids responsible for elevated TDS levels. Reverse osmosis effectively removes almost all dissolved substances, including harmful minerals such as salt and lead. It also removes beneficial minerals, such as calcium and magnesium; therefore, it is recommended that the water be filtered through a calcium and magnesium mineral bed to add the minerals to the water. The mineral bed additionally increases the pH and reduces the corrosive potential of the water.

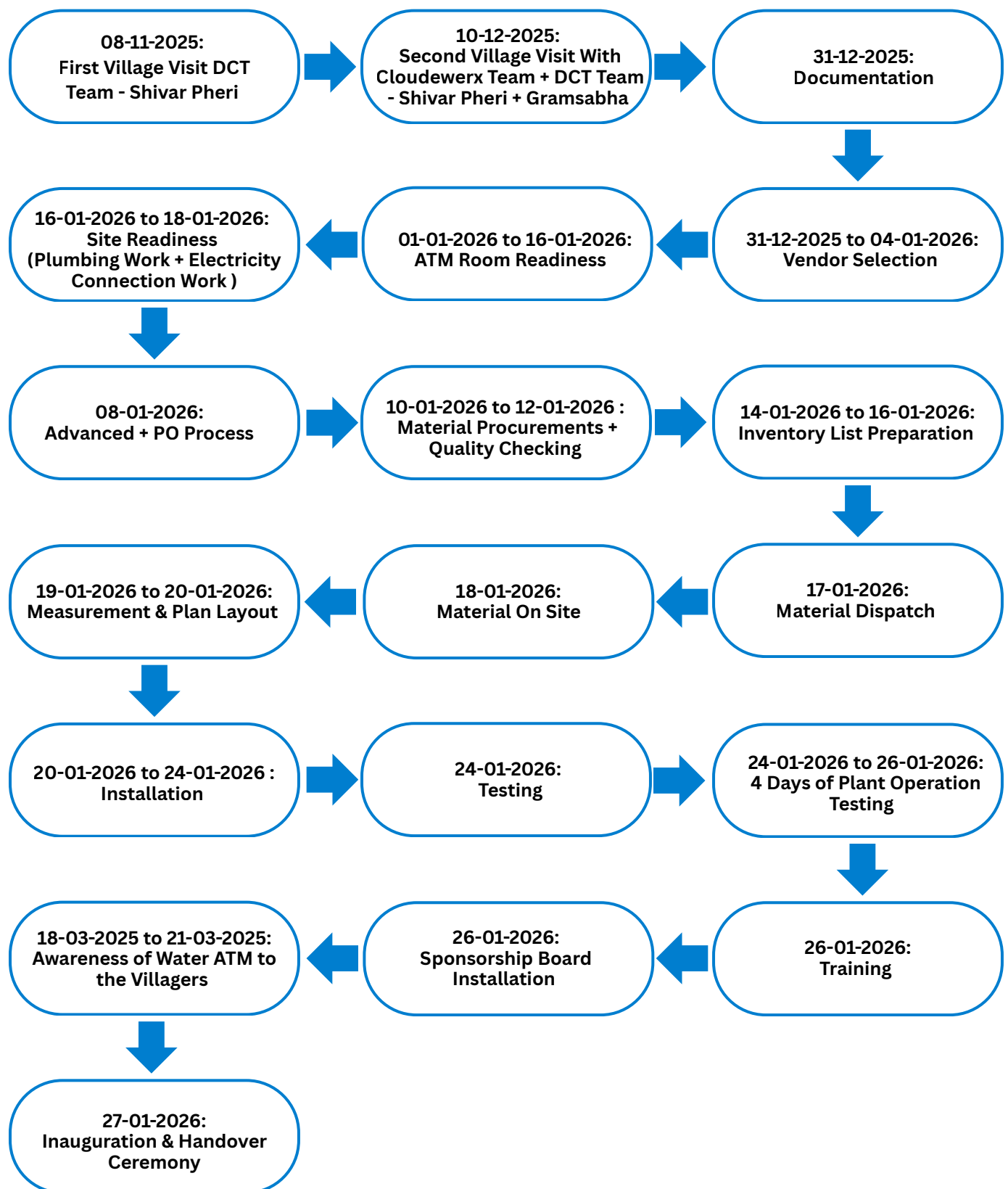
The specifications of the Water ATM and R.O. plant are provided below.



- Project Request Letter.
- ROR (7/12 extract) of project land.
- Acceptance signatures for the project's terms and conditions.
- Project Completion letter.
- Project Handover letter to respective villages.



4.5 Project Progression



4.6 Glimpses

Gram Sabha and company visit



Installation of RO plant



Visit by the Australian delegates from Cloudwerx for the inauguration ceremony



4.7 Impact Analysis

Return on investment – RO Plant + water ATM with Chiller

Description	Value	Units
Number of Homes at Dhom	126	No.s
Cost of Purified Drinking Water	10	Rupees
Total Liters per 10 Rupees	20	Liters

Year	Drinking water Rate (Rs.)	Water Consumption Ltr. per Family per Month (Family = Avg. 5 person per family)	Total Number of Families	Total Gross Revenue per year	Maintenance Cost (Yearly)
1	10	300	105	Rs. 3,78,000/-	Rs. 10,000/-
2	10	300	105	Rs. 3,78,000/-	Rs. 15,000/-
3	10	300	105	Rs. 3,78,000/-	Rs. 35,000/-
4	10	300	105	Rs. 3,78,000/-	Rs. 15,000/-

Even if at least 105 out of the 126 families in Dhom carry water every alternate day, a sum of Rs. 3,78,000 can be collected, which can be allocated as an assistance fund for the Gram Panchayat.

• Benefits

R.O. Plant and Water Vending machine with Chiller (Water ATM machine)

- The primary benefit of the Water ATM is that it provides clean and safe drinking water to all villagers without discrimination.
- It is an economical and cost-effective source of drinking water.
- The water is free from germs, as it is treated through reverse osmosis before distribution, ensuring protection against water-borne diseases.
- It saves time and energy for villagers who would otherwise have stand in a queue for even small quantities of safe drinking water.
- Villagers are now less dependent on packaged drinking water, which is comparatively more expensive.
- The wastewater generated from the RO plant is collected in a separate tank and will be reused for the conservation of 250 trees that will be planted near the Gram Panchayat. These trees will include tamarind, coconut, and mango trees, which are fruit-bearing in nature. This initiative supports environmental sustainability and will also create an additional source of income for the Gram Panchayat after 5 to 6 years.
- The funds collected from this Water ATM will be used for the maintenance of the plant, payment of electricity bills, and the remaining amount will be utilized for village development activities. Through this project, an income of ₹10,000 to ₹15,000 per month will be generated. After deducting maintenance expenses, approximately ₹1 lakh per year will remain as net income for the Gram Panchayat.

In conclusion, the Water ATM effectively addresses water scarcity and the issue of contaminated drinking water. Villagers can rely on this affordable source for daily water needs. Additionally, it promotes awareness about the importance of water and encourages responsible water usage.

4.8 Testimonials



Mrs. Asha Shirke – Sarpanch & Beneficiary

“I am very happy that Water ATMs have been installed in our village through Cloud Works India Limited and Deepstambh Charitable Trust. It gives me great satisfaction that this work was completed during my tenure as Sarpanch.

I am grateful to all the villagers for their support in accomplishing this initiative, and I sincerely thank Cloud Works India Limited and Deepstambh Charitable Trust for installing these Water ATMs. I am deeply appreciative of their contribution.”



Mr. Ganesh Bhise– Gramsevak

“Cloud Works India Limited and Deepstambh Charitable Trust, Pune, have jointly installed Water ATMs at Gram Panchayat Dhom Punarvasan. On behalf of the administration, I assure Cloud Works India Limited and Deepstambh Charitable Trust that proper care and maintenance of the said Water ATMs will be taken. These ATMs will be operated through the village committee, and due care will be taken to ensure that all residents from the surrounding villages can benefit from them. On behalf of the administration, I express my sincere gratitude to Cloud Works India Limited and Deepstambh Charitable Trust for installing these Water ATMs in a small village like Dhom Punarvasan.

I also request them to continue implementing such innovative initiatives in collaboration with our village in the future.”



**Mrs. Namrata Pol - President, Self-Help Group
Dhom Rehabilitation Village**

“The installation of the Water ATM at Dhom Rehabilitation Village by Cloudwerx Solutions India Pvt. Ltd. and Deepastambha Charitable Trust, Pune has created an income-generating opportunity for the women members of our self-help group. We sincerely express our heartfelt gratitude to Cloudwerx Solutions India Pvt. Ltd. and Deepastambha Charitable Trust, Pune for this meaningful initiative.”

5. Future Plan

- Implementation of similar projects in other villages facing the same type of water-related issues.
- Raising awareness about water budgeting and the adoption of drip or sprinkler irrigation systems.
- Empowering villagers to plant fruit trees using recycled Water ATM waste. Through drip-irrigated orchards, we can conserve water and generate sustainable income for the Gram Panchayat.
- Capacity building of self help group

6. References

- External expertise

Water R.O. Plant and ATM – Mr. Vinod Sonune.

- Mobile app/website used

Drinking Water Standards and Regulations

National Primary and Secondary Drinking Water Regulations.

Indian Standard Specifications for Drinking Water is 10500 - 1983.

- Other references

Reference raters - Ministry of Jal Shakti, Department of Drinking Water and Sanitation (specifically regarding community water purification plants to provide safe drinking water).



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