Velhe RO Water ATM

MAY 2025



Project Executed by

दीपस्तंभ

Project Sponsored by

R. M. Tulpule Charitable Trust


WE MAKE A LIVING BY WHAT WE MAKE,
WE MAKE A LIFE BY WHAT WE GIVE.
दीपस्तंभ
ग्रामार्थन

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Confidentiality

Deepastambha Charitable Trust, Pune is submitting this document on the understanding that the contents would not be divulged to any third party without prior written consent from Deepastambha Charitable Trust, Pune.

Release History

Version	Release	Date	Initials
1.1	V1.1	30th April 2025	LS, RJ
1.2	V1.2	25th June 2025	RD

Acknowledgements

We are deeply indebted to R. M. Tulpule Charitable Trust for their generous support in making this project a reality. Their decision to provide financial assistance for the installation of the R.O. Water ATM with Chiller in Velhe-Budruk has brought lasting value to the community.

We are immensely thankful to the residents of Velhe-Budruk village for their support. Their participation was central to the successful implementation of this initiative.
Lastly, we also extend our sincere gratitude to our mentors and the Deepastambha Team whose valuable guidance and suggestions helped us navigate each step of this journey.

About Deepastambha

Established in 2008

Upayn

Donation in the form of gift: All donation camps are covered under this cause

Eco-Paavitrya

Celebrating with Nature in Mind

Conserve To Serve

Natural Resource conservation

Niramayaa

Health and Hygiene awareness
Community Care

DEEPASTAMBHA

MISSION:
To integrate the Social Sense in human beings for making this world a better place for all.

Skool-Sansad Skool-Kit Skool-Falak

To Encourage, Engage, Educate and Empower Children

Community Care Visits

Orphanages / Old age home / Special children / HIV positive children / Cancer patients etc.

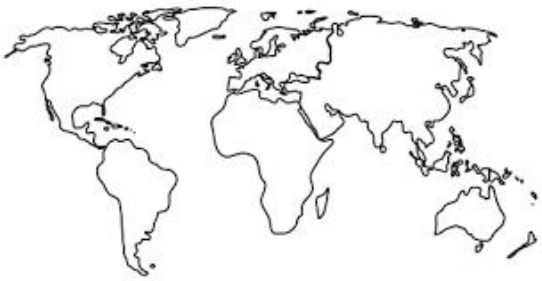
Weekly 2 Hour Activities:

Traffic awareness activities, Community cleaning, Knowledge Sharing, Plant Visit, Exploring New Social Issues, Plant visit, slum area activities, animal rights etc.

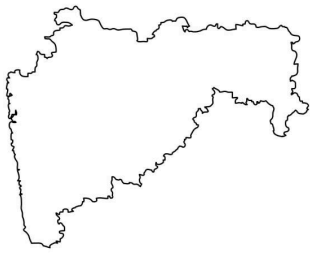
Gramarthan

Empowering Villages for Self-Sufficiency

AREA OF WORK



Online Activities across the Globe

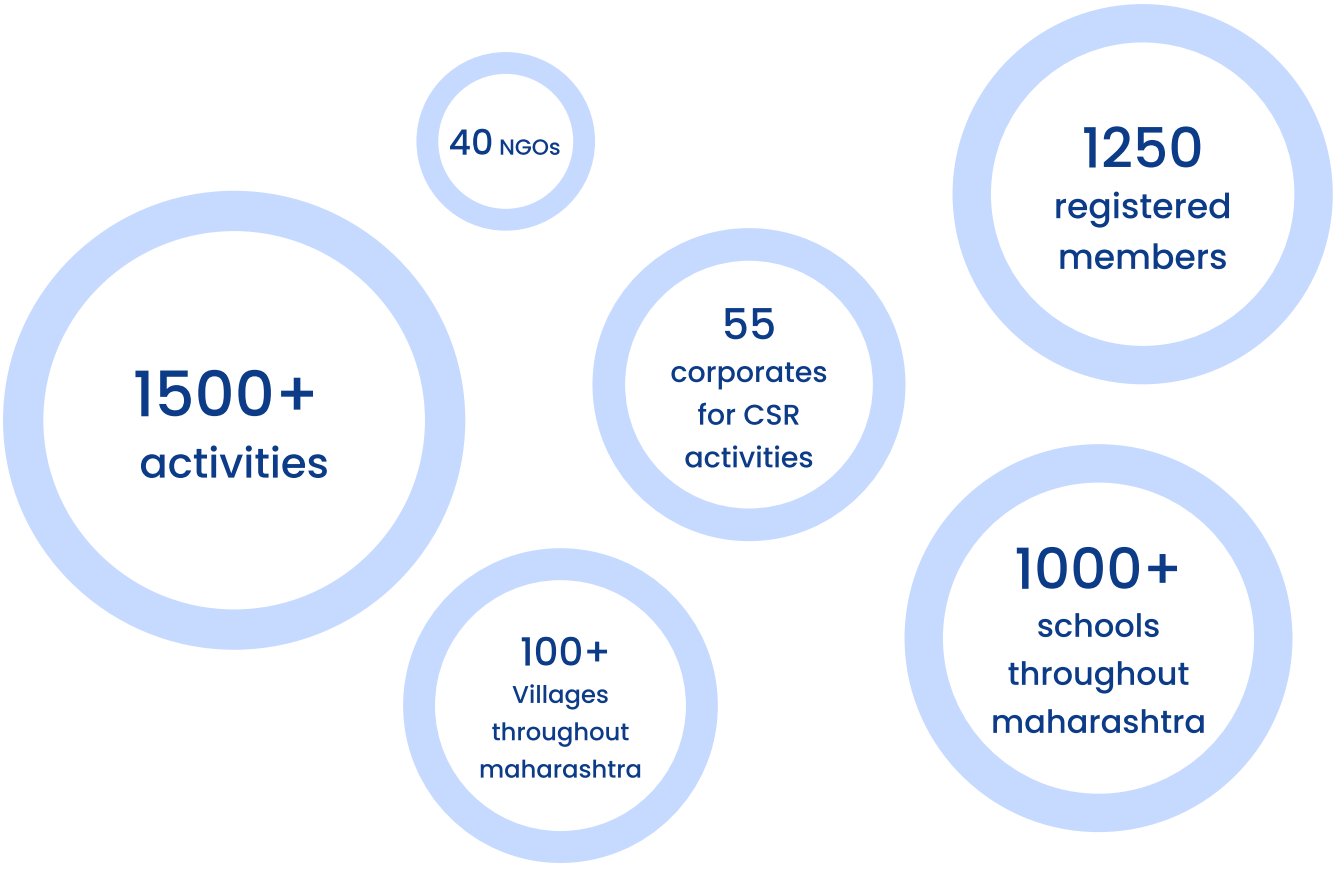


Across Maharashtra

LEGAL & INTELLECTUAL PROPERTY

Deepastambha is a Charitable Trust registered under the Bombay Public Trusts Act, 1950. We are registered under section 80G of the Income Tax Act, we have obtained registration certificate 12A. We are registered under the Foreign Contribution Regulation Act, 2010(FCRA). “Upayn” has received the registration for trademark protection.

STATISTICS



About Gramarthan ESTABLISHED in 2013

OUR BELIEF

Developing local institutions requires a collective approach rather than one that focuses on working with individuals or households. It offers communities the benefits arising from economies of scale, such as lower investment costs, lower risks, and equitable access to resources. Bringing people together to work towards a common goal requires time and effort despite the obvious advantages of working with communities. It is also difficult to build sustainable institutions, so developing the leadership capacity of group members and community resource persons is a crucial step.

To succeed, it is critical to work in partnership with the community-gain their trust, listen, and respond to their concerns, and identify locally relevant pathways to secure their livelihoods.

OBJECTIVES

1. **To assist villages in availing basic needs in eco friendly manner using natural resources.**
2. **To engage domain experts interactions for using different available resources in constructive manner.**
3. **To help villagers in acquiring basic medical facilities, education, women empowerment and technological opportunities.**
4. **To make the villagers independent and self-sufficient in all aspects.**
5. **To fulfil their basic needs with the help of easy solution and technology.**

Moreover, investments in rural communities must go beyond shortterm solutions in order to ensure longterm resilience. As a result, livelihoods are enhanced through the effective participation of corporate houses with CSR and rural communities in the management of their own social, economic and environmental objectives. This is done by empowering people in remote areas, particularly women and youth, including local cooperatives, as a bottom - up approach.

PROJECTS AND ACTIVITIES

1 **Skool-Falak**

Preparation of Display Boards by children with information that is extra-curricular.

2 **Repair works**

of 4 nos. check dams covering length of 2.5kms in Pune District as a part of Shramsetu -"Shramadan"activities.

3 **Library set-up**

Development of reading habits and techniques.

4 **Niramayaa**

Conducting awareness programmes on menstruation health and personal hygiene, monthly OPD,conducting Health Camps on Cervical Cancer and Breast Cancer, Eye Check- up, Hemogram tests etc.

5 **Skill Development Programs**

Yoga and dance classes, career development, computer classes, drawing, craft, etc.

6 **Team building**

Celebrating festivals with villagers, watching movies, encouraging volunteerism amongst villagers for various development oriented initiatives.

7 **Career Guidance Sessions**

Additional classes for various extra curricular subjects.

8 **Women Empowerment**

Training on various skillsets, lectures on entrepreneurship development, prototype programs for confidence building, counselling sessions for family members.

9 **Awareness**

Child abuse awareness, cleanliness, menstrual hygiene awareness through digital media.

10 **Green Initiatives**

Installation of solar water pump systems, solar streetlights, water ATMs, tree plantation drives etc.

11 **Swacha Maze Gaon**

Cleanliness drives, competition in schools, knowledge sharing, and more.

GEOGRAPHICAL SCOPE Maharashtra

Vision for SDGs For Maharashtra in 2030



1. The Fundamental Principle of the vision - Sustainable, balanced and all inclusive socio-economic growth of the State
2. A sustainable environment enables a sustained growth across all sectors.
3. Investment in environment helps in self sustaining growth over long term hence, utmost importance has been given to environment; forming a bedrock for the pillar strategy.

Project Details

1. Background

Velhe-Budruk is located in Velhe Tehsil of Pune district in Maharashtra. The nearest city from Velhe Budruk is Pune, which is located approximately 65 km away. Farming, particularly rice cultivation, is the backbone of the local economy, anchoring the community in its agrarian roots. Yet, beneath the calm rhythm of village life lies a strong undercurrent of change due to its proximity to Pune.



With nearly 50% of the population being women and more than half of the village's children in school being girls, Velhe-Buruk reflects a quiet but growing aspiration for progress. Education is gradually gaining ground, with families recognizing its importance for the next generation. However, basic infrastructural gaps continue to hold the community back from reaching its full potential.

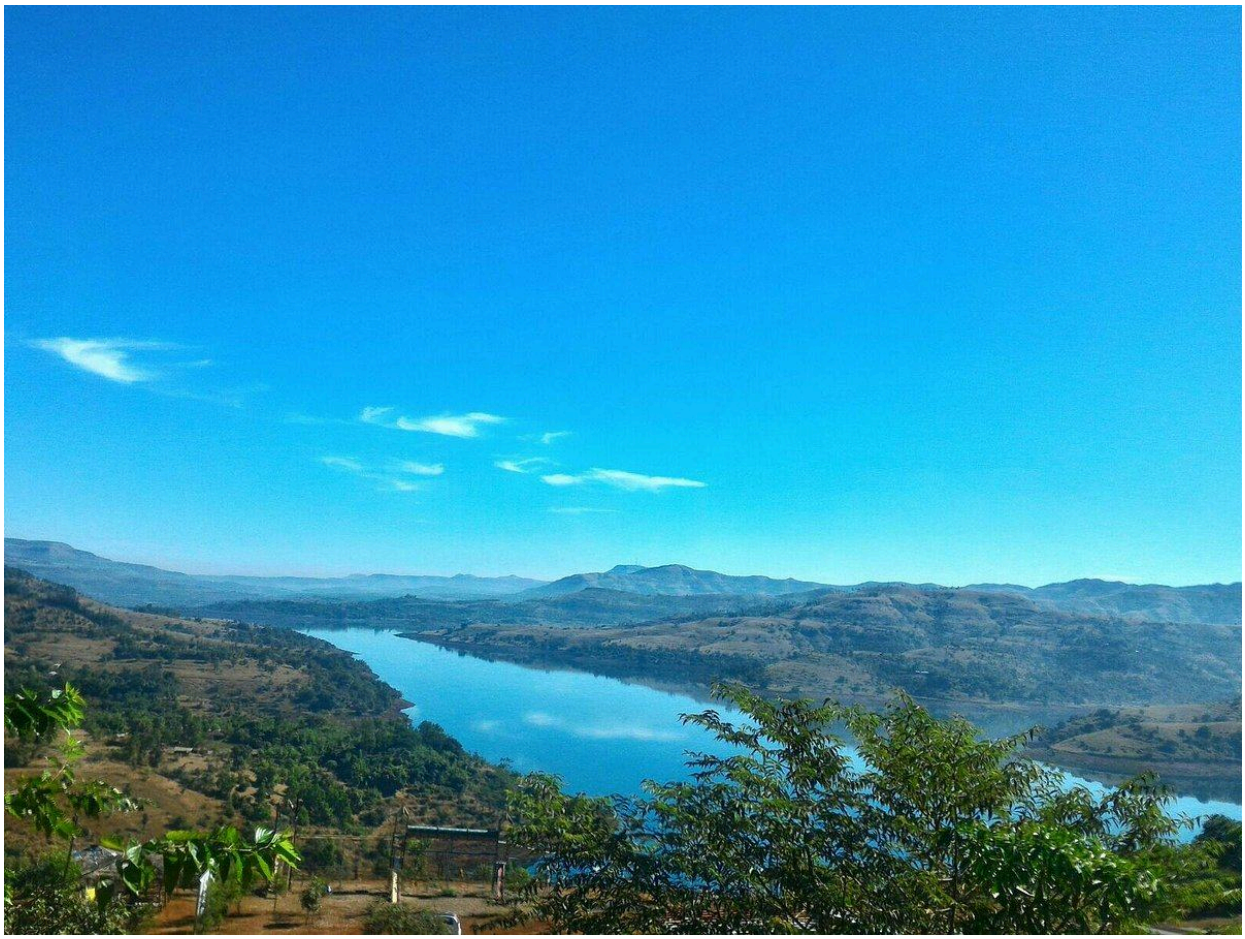
Census Parameter	Data
Total Population	6500
Total No of Houses	1150
Female Population %	52.20%
Total Literacy Rate %	56.60%
Female Literacy rate	36.8%
Scheduled Tribes Population %	98.1%
Scheduled Caste Population %	1.1%
Working Population %	68.8%

Despite this progress, key challenges remain. The absence of public toilets, inadequate waste management systems, and a lack of street lighting affect daily life. Although all households have private toilets, public infrastructure is needed, especially for the two schools in the village that still lack sufficient toilets and water provision. Additionally, the absence of skill development opportunities within schools points to a need for broader educational and livelihood planning. The villagers approached us with their **fundamental problem: Access to clean drinking water.**

Velhe-Budruk lies in a mountainous region and though it has close proximity to Varasgaon Dam, however there is no direct to home water supply. The main sources of water are 4 wells, 2 rainwater catchments. Villagers have also made 4 borewells for water. These sources of water however, often expose residents to health risks, especially during the dry season.

In this context, the recent installation of a Reverse Osmosis (R.O.) System Water ATM marks a significant step toward ensuring better health and well-being for the community. It is not just a technological upgrade—it is a sign of trust and investment in the village's future.

After the residents of Velhe-Budruk approached **Deepastambha Charitable Trust (DCT)** with their need for safe drinking water, DCT mobilized support and secured financial assistance from the **R. M. Tulpule Charitable Trust.** With this backing in place, the project was ready to be initiated.



Varasgaon Dam

2. The objective of R.O. Water ATM

- To provide clean drinking water and avoid health issues.
- To generate the income source for Gram-panchayat.
- Overall community Development
- Promoting environmental sustainability
- To involve local people in managing and maintaining the water system.
- To save time for villagers who otherwise travel far to get clean water.

3. Research work

Water RO Plant and ATM with Chiller.



The first step was to inspect the quality of water at the site. This was done by evaluating Total Dissolved Solids(TDS) in the water sample. The initial TDS level was found to be **370** ppm, which impacted both its taste and overall quality. According to the TDS chart below, drinking water is considered excellent when the TDS level is between 50 and 150 ppm. As per the below chart, the TDS level of the water in the village was not acceptable.

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

R.O. as Proposed Solution for Water Treatment (With Chiller)

In response to the analysis results, a water treatment facility was essential. We chose Reverse Osmosis (R.O.) method as a way to remove the dissolved solids in the water which were responsible for elevated TDS levels.

How does R.O. Work?

Reverse Osmosis (R.O.) removes virtually all dissolved substances, including many harmful minerals, such as salt and lead. However, it also removes few healthy minerals, such as calcium and magnesium. As a result, ideally such water should be filtered through a magnesium and calcium mineral bed in order to add the vital minerals to the water. The mineral bed also increases the pH and decreases the corrosive potential of the water.

Specification of water ATM and R.O. Plant is given below.



Raw water pump



Sand filter



Activated carbon filter



Micron cartridge filter



Anti-scalent dosing



High pressure pump



R.O. system



1000 LPH FRP RO Plant



Ton Water Chiller

Technical Specification of R. O. Water ATM with Chiller

Feature	Details (Updated for 1000 LPH Unit)
Purification Capacity	**1000 litres per hour**
Purifies Water From	Water-well or Borewell
Removes	Dirt, salt, germs, chemicals, and bad taste
TDS Range (Water Quality)	Can clean water with TDS up to 2000 ppm
Final Water Quality	Clean and safe with TDS around 30–50 ppm
Storage Tank Size	2000 litres
Power Needed	Runs on regular single-phase electricity (like homes)
Water Vending System	Coin-based dispenser
Water Use Per Day	Can give 8000 to 10,000 litres per day (based on 8–10 hrs runtime)
Purification Steps	5–7 steps (includes RO membrane, filters, UV light)
Machine Body	Strong frame (usually stainless steel or durable plastic)

4. Documentation

Project Request Letter to Company



स्थापना १९५८

समाजाचा व गावाचा सर्वांगीण विकास करणारी स्थानिक स्वराज्य संस्था

ग्रुप ग्रामपंचायत वेल्हे बु.॥

ता.वेल्हे,जि.पुणे.

उपसरपंच	ग्रामसेवक	सरपंच
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मोबा.नं. 9529432289	मोबा.नं. 9370055261	मोबा.नं. 9923985197/8830396161

• ग्राम सुधारणेचा मूलमंत्र, सज्जनांनी व्हावे एकत्र •

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जा.क्र./ग्रापं/कावि/१३४/२०२५ वेल्हे बुद्रुक.॥ दिनांक. ०९/०४/२०२५

प्रति,
मा. संचालक सो.
आर. एम. तुळपुळे चॅरिटेबल ट्रस्ट

यांस सविनय सादर ...

विषय : ग्रामपंचायत मौजे वेल्हे बु.॥ साठी आर.ओ.प्लॅन्ट (चीलरसहित) आणि वॉटर ए.टी.एम. मशीन बसवून मिळणेबाबत.

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त्यासाठी लागणारी खोली आम्ही ग्रामपंचायती मार्फत उपलब्ध करुण देऊ तरी आपणाकडून आर. ओ.प्लॅन्ट (चीलरसहित) आणि वॉटर ए. टी. एम. मशीन मिळावी ही नम्र विनंती.

कळावे.

श्री.अजित खंडू कुंभार, ग्रामसेवक
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Project Request Letter to Deepastambha



स्थापना १९५८

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स्वातंत्र्याचा अमृत महोत्सव

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मा.सरपंच, विद्यमान ग्रा.पं.सदस्य

Completion letter to company for RO Water ATM Project Velhe

स्थापना १९५८

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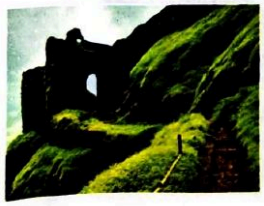
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(ग्रा.प.सदस्या)

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(ग्रा.प.सदस्य)

मा.सौ.पुष्पा गणेश भुरुक
(ग्रा.प.सदस्या)

मा.श्री.सुनिल नानासाहेब कोळपे
(ग्रा.प.सदस्य)

मा.सौ.विजया गोरकनाथ भुरुक
(ग्रा.प.सदस्या)



जा.क्र./ग्रापं/कावि/१८५/२०२५ वेल्हे बुद्रुक.॥ दिनांक. १९/०५/२०२५

ग्रुप ग्रामपंचायत वेल्हे बु.। जा.क्र. दि. पुणे

प्रति,
मा. विश्वस्त सो.
आर. एम. तुळपुळे चॅरिटेबल ट्रस्ट

विषय : ग्रामपंचायत मौजे वेल्हे बुद्रुक.॥ येथील आर. ओ. प्लॅन्ट (चीलरसहित) आणि वॉटर ए. टी. एम. मशीन हा प्रकल्प पूर्ण झाल्या बाबत.

माननीय महोदय,

आपण आमच्या मौजे वेल्हे बु. या गावामध्ये आर. ओ. प्लॅन्ट (चीलरसहित) आणि वॉटर ए. टी. एम. मशीन या प्रकल्पासाठी दीपस्तंभ चॅरिटेबल ट्रस्ट, पुणे यांच्या सहयोगातून अर्थसाहाय्य केले होते. आपणास कळविण्यास आनंद होत आहे की, सदर प्रकल्पाचे काम हे उत्तम दर्जाचे, समाधानकारकरीत्या आणि वेळेत पूर्ण झाले आहे.

गावाच्या विकास कामातील आपल्या सहकार्याबद्दल समस्त ग्रामस्थ व ग्रामपंचायत वेल्हे बुद्रुक.॥ आपले ऋणी आहे. या पुढेही ग्रामोपयोगी कार्यासाठी आपले पाठबळ मिळावे ही विनंती.

कळावे.

आपला कृपाभिलाषी

(सौ. सिता नंदकुमार खुळे)
सरपंच
ग्रुप ग्रामपंचायत वेल्हे बुद्रुक
ता.वेल्हे,जि.पुणे

(अजित खंडू कुंभार)
ग्रामपंचायत अधिकारी
ग्रुप ग्रामपंचायत वेल्हे बुद्रुक
ता.वेल्हे,जि.पुणे

Complesion letter to Deepastambha for RO Water ATM Project Velhe

स्थापना १९५८

समाजाचा व गावाचा सर्वांगीण विकास करणारी स्थानिक स्वराज्य संस्था

ग्रुप ग्रामपंचायत वेल्हे बु.।।

ता.वेल्हे,जि.पुणे.

उपसरपंच	ग्रामसेवक	सरपंच
मा.सौ.आरती कैलास गाडे	मा.श्री.ए.के.कुंभार	मा.सौ.सिता नंदकुमार खुळे
मोबा.नं. 9529432289	मोबा.नं. 9370055261	मोबा.नं. 9923985197/8830396161

• ग्राम सुधारणेचा मूलमंत्र, सज्जनांनी व्हावे एकत्र •

स्वातंत्र्याचा अमृत महोत्सव

* सदस्य *

मा.श्री.संदिप केशवराव नगिने
(ग्रा.प.सदस्य)
मा.श्री.मेघराज दत्तात्रय सोनवणे
(ग्रा.प.सदस्य)
मा.सौ.उज्वला रविंद्र पवार
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जा.क्र./ग्रापं/कावि/१८६/२०२५ वेल्हे बुद्रुक.॥ दिनांक. १९/०५/२०२५

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दिपस्थंभ चॅरिटेबल ट्रस्ट, पुणे.

विषय : ग्रामपंचायत मौजे वेल्हे बुद्रुक.॥ येथील आर. ओ. प्लॅन्ट (चीलरसहित) आणि वॉटर ए. टी. एम. मशीन हा प्रकल्प पूर्ण झाल्या बाबत.

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कळावे.

आपला कृपाभिलाषी

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(सौ. सिता नंदकुमार खुळे)
सरपंच
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ता.वेल्हे,जि.पुणे

Project Handover Letter to Velhe Village

दीपस्तंभ

Deepastambha Charitable Trust

(Regn. No. E-5602)

लोकार्पण प्रमाणपत्र

ग्रामपंचायत मौजे वेल्हे बु. यांच्या आ. क्र. ०९/०४/२०२४/ ग्राम. या विनंती अर्जानुसार दीपस्तंभ चॅरिटेबल ट्रस्ट, पुणे यांनी आर. ओ. प्लॅन्ट (चीलरसहित) आणि वॉटर ए. टी. एम. मशीन या प्रकल्पाची उभारणी केली. सदर प्रकल्पाची उभारणी दीपस्तंभ चॅरिटेबल ट्रस्ट, पुणे यांच्या देखरेखीखाली झाली असून त्यांच्या कामाचा दर्जा आणि गुणवत्तेसाठी सदर ट्रस्ट कटिबद्ध आहे.

या कामात प्राथमिक अर्थसाहाय्य केल्या बद्दल "आर. एम. तुळपुळे चॅरिटेबल ट्रस्ट" आणि आर. ओ. प्लॅन्ट आणि वॉटर ए. टी. एम. मशीन या प्रकल्पाची उभारणी केल्या बद्दल "एकता ऍक्वा इंडिया" यांचे दीपस्तंभ चॅरिटेबल ट्रस्ट, पुणे सदैव आभारी आहे. तसेच समस्त ग्रामस्थ मौजे वेल्हे बु. व ग्रामपंचायत सदस्यांचा पाठिंबा या प्रकल्पाला मिळाल्या बाबत त्यांचेही आम्ही आभार मानतो.

आज बुधवार, दिनांक ३० एप्रिल २०२५ रोजी, आर. ओ. प्लॅन्ट (चीलरसहित) आणि वॉटर ए. टी. एम. मशीन या प्रकल्पाचे लोकार्पण करण्यात आम्हाला (दीपस्तंभ चॅरिटेबल ट्रस्ट,पुणे) अतिशय आनंद होत आहे !

यापुढे आर. ओ. प्लॅन्ट (चीलरसहित) आणि वॉटर ए. टी. एम. मशीन या प्रकल्पाची संपूर्ण जबाबदारी व अन्य गरजेच्या फेरबदलाचे व निर्णय घेण्याचे अधिकार मौजे वेल्हे बु. ग्रामपंचायत व ग्रामस्थांची राहील.

त्याचबरोबर आर. ओ. प्लॅन्ट आणि वॉटर ए. टी. एम. मशीन संदर्भात भविष्यात येणाऱ्या कोणत्याही कायदेशीर बाबी, नुकसान भरपाई याची संपूर्ण जबाबदारी ही ग्रामपंचायत आणि ग्रामस्थांची असेल.

-"आजचा संघर्ष उद्याचे सामर्थ्य तयार करतो "-

विश्वस्त ,

दीपस्तंभ चॅरिटेबल ट्रस्ट, पुणे

(सौ. सिता नंदकुमार खुळे)
सरपंच
ग्रुप ग्रामपंचायत वेल्हे बुद्रुक
ता.वेल्हे,जि.पुणे

मौजे - वेल्हे बु.,
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दीपस्तंभ चॅरिटेबल ट्रस्ट पुणे

Regd. Office: A 1963, Sadashiv Peth, Madiwale Colony, Navare Path, Pune - 411030 Maharashtra, India
Mobile: +91 - 99 7070 4444 **Email ID:** info@deepastambha.com **Website:** www.deepastambha.com

Registered U/S 80G of Income Tax Act 1961, Vide Order No.: Pn/CIT-I/80G/123/2013-14/4320 dt 27/09/2013
Registered Under Foreign Contribution (Regulation)Act 2010 Vide No.: 083930738 dt 28/03/2019

5. Project Progression

28th March 2025
Project Approval e-mail Received from R.M. Tulpule Charitable Trust

30th March 2025
Gram-Sabha conducted in Velhe-Budruk

2nd April 2025
All project documents submitted to R. M. Tulpule Charitable Trust

3rd to 6th April 2025
Vendor Shortlisting Completed

8th April 2025
Tentative execution plan submitted to R. M. Tulpule Charitable Trust

4th to 20th April 2025
ATM Room Readiness

16th to 20th April 2025
Material procurement, QC, & inventory list preparation

18th to 22nd April 2025
Site readiness (plumbing and electricity connections)

21st to 22nd April 2025
Measurement and layout planning

23rd to 26th April 2025
RO plant and Water ATM installation and testing

27th to 28th April 2025
Sponsorship board installation and training sessions conducted

27th to 29th April 2025
Water ATM awareness sessions conducted for villagers

29th April 2025
All Documentation completed

30th April 2025
Project handed over to villagers

6. Glimpses

Primary visit



Survey of the designated Site



Meet at Gram-Panchayat

Installation













Handover ceremony











7. Impact Analysis

Return on investment – RO Plant + water ATM with Chiller

Description	Value	Units
Number of Homes at Chandwadi	1150	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	Total Number of Families	Total Gross Revenue per year	Maintenance Cost (Yearly)
1	10	300	300	Rs. 5,40,000/-	Rs. 20,000/-
2	10	300	300	Rs. 5,40,000/-	Rs. 40,000/-
3	10	300	300	Rs. 5,40,000/-	Rs. 30,000/-
4	10	300	300	Rs. 5,40,000/-	Rs. 40,000/-

(Family = Avg. 5 person per family)

Estimated Future Financial Impact:

Assuming that at least 300 out of the 1150 families in Velhe-Budruk collect water every alternate day, an estimated annual collection of ₹5,40,000 can be generated.

8. Benefits



It provides safe, purified drinking water by removing harmful contaminants and excess TDS.

Availability of Chilled Water in Hot Climate
The chiller unit provides cool, refreshing drinking water—especially important during hot summer months, improving comfort and hydration for villagers.





Hygienic and Contactless Dispensing. The automated system minimizes human handling, reducing contamination risks. Proper maintenance ensures consistently hygienic water delivery.

Reduces water-borne diseases as water is completely free from all kinds of germs due to its treatment by the process of reverse osmosis before it is available for drinking. This would definitely improve the overall health in children and reduce the medical expenses.





Reduces expenses on packaged drinking water which is comparatively costly. Water ATM is one of the most economical and cost-effective sources of healthy drinking water.

Contributes to the village development and sustainability as the revenue generated through Water ATM can be utilized towards other development activities of the village.





Time-Saving and Easy Access Strategically located within the village, the ATM reduces the need for long walks to collect water. It operates on a self-service model (card/coin), saving time for families—especially women and children.

Reduced dependency on the water fetched from public wells, which needs manual labour or motor expenses for extraction every time.



Thus, we can conclude that the Water ATM is really helpful in eliminating the problem of water scarcity and contaminated drinking water. Villagers can rely on this affordable source for buying water even on a daily basis, as it wouldn't cost them much. Above all, they learn to save and understand the importance of water.

9. Testimonials



Mrs. Sita Khale – Sarpanch & Beneficiary

"As the representative of the village, first of all, I would like to express my heartfelt thanks to the R.M. Tulpule Charitable Trust and Deepastambh for completing the RO Water vending machine project. This project will help improve social security and health."



Mr. Sandeep Nagine – Grampanchayat Sadasya & Beneficiary

"By drinking the water directly from the well, we faced many diseases. Now there is an RO Water ATM with a Chiller project in the village, clean water will be available and health problems will be solved"



Mrs. Aarti Gade - Upasarpanch & Beneficiary

"As the representative of the village, I would like to express my heartfelt gratitude to the R.M. Tulpule Charitable Trust, as well as Deepastambh, for completing the RO Water ATM with Chiller project. This initiative will contribute to improved social security and health. As a result, our children and the villagers, along with those from surrounding areas, will have access to clean and cold drinking water."

10. Way Ahead

- **Implement a solid waste management system** to ensure cleanliness and promote environmental health.
- **Construct public toilets** for community use, especially during gatherings and for travellers, complementing existing household toilets.
- **Install street lamps** across key areas in the village to improve night-time safety and accessibility.
- **Upgrade infrastructure in two village schools** by providing access to functional toilets and clean drinking water.
- **Introduce skill development programs** in schools to empower students with practical and vocational skills.

References

External expertise

- Water R.O. Plant and ATM - Ekata Aqua India – 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 - Government of India Ministry of New & Renewable Energy

COMPLETED WATER ATM AT VELHE VILLAGE



Before



After

Other initiatives by Deepastambha



Deepastambha Charitable Trust
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