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Coastal Salinity
Prevention Cell Gujarat

Head Office

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#### TATA TRUSTS





Community-Led Water Solutions for a Better Future



**PROJECT** 

Sustainable Water Resources Interventions

in Coastal blocks of Bhavnagar District, Gujarat

# SUSTAINABLE PATHWAYS

Community-Led Water Solutions for a Better Future





### **FOREWORD**

Water is the essence of life, and its sustainable management holds the key to empowering communities, enhancing livelihoods, and preserving our environment. The D-Mart Foundation's transformative project in the coastal block of Talaja, Bhavnagar District, Gujarat, reflects an unwavering commitment to creating lasting change through integrated and community-driven solutions.

This initiative, spanning from September 2022 to December 2024, addresses the critical challenges of water resource management, livelihood enhancement, and WASH (Water, Sanitation, and Hygiene). By promoting water access, improving water quality, and ensuring water security, the project empowers communities to prosper in the face of environmental challenges. The

addition of capacity-building programs, functional household tap connections, biogas plants, and tree plantation drives underscores a holistic approach to development.

With a focus on convergence and collaboration, this initiative transcends traditional boundaries, combining innovation, community participation, and sustainable practices to build resilience and ensure a brighter future for all.

CSPC takes immense pride in presenting this coffee table book, showcasing the remarkable journey of change, the stories of impact, and the lessons learned through this project. It is our hope that these efforts inspire collective action toward a sustainable and equitable world.



### **ACKNOWLEDGEMENTS**

We extend our heartfelt gratitude to DMart Foundation for their generous funding and unwavering support in making this project a reality. Their vision for sustainable development and community empowerment has been instrumental in driving meaningful change in the coastal block of Talaja, Bhavnagar District.

Our sincere thanks to the entire team of Coastal Salinity Prevention Cell (CSPC) for their dedication, expertise, and tireless efforts in implementing this project. Their commitment to water resource management, livelihoods, WASH initiatives, and capacity building has been pivotal in transforming lives and fostering resilience in the region.

This coffee table book is a testament to the collaborative efforts of all stakeholders, including local communities, government agencies, and partner organizations, who have contributed to the success of this initiative. We deeply appreciate their active participation and collective vision for a sustainable and prosperous future.



### FROM THE LEADER'S DESK

#### Addressing Coastal Water Challenges in Gujarat

Coastal salinity ingression, worsened by climate change, poses serious challenges to Gujarat's coastal villages. Rising sea levels, increased cyclones, and over-extraction of groundwater have caused saltwater intrusion into freshwater aquifers, affecting agriculture, potable water supply, and public health. The stress on water resources also threatens rural livelihoods and ecosystems.

However, successful water management initiatives have shown positive results in these villages. By adopting an integrated approach, communities have improved their adaptive capacity. The region's suitable topography and geohydrological conditions support water harvesting and groundwater recharge, offering solutions to these challenges.

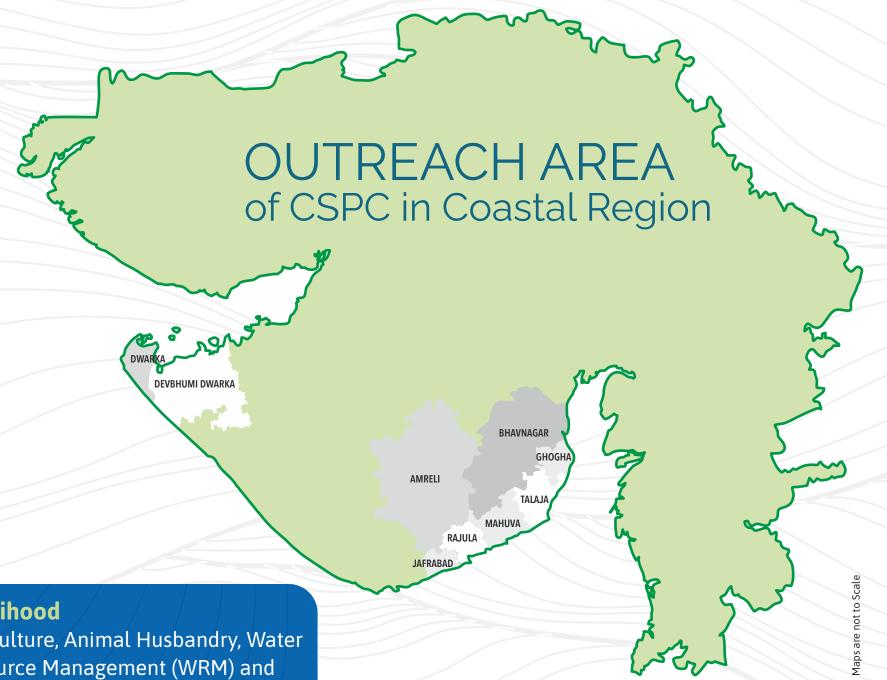
To build on these successes, CSPC has partnered with the DMart Foundation to implement a project aimed at enhancing rainwater harvesting and groundwater quality in 20 villages in Talaja,

Bhavnagar district. Over three years, the project has engaged over 3,000 households, creating a rainwater harvest potential of over 10.70 million cubic feet (MCft). Key activities include the construction of new check dams, renovation of old water structures, desilting, and borewell recharge interventions. Water-efficient practices like drip irrigation and sprinkler systems have also been promoted to optimize water use.

These efforts have raised awareness about efficient water management, with village water user groups now taking responsibility for the upkeep of water infrastructure and mobilizing the community for broader adoption of good practices.

We thank the DMart Foundation for their financial support in helping these coastal villages move towards a more sustainable water future.

Sujit Kumar Gopinathan
Chief Executive Officer



#### Livelihood

Agriculture, Animal Husbandry, Water Resource Management (WRM) and Soil Health Management, FPO

#### **Water Sanitation & Hygiene**

MHM, Jal Jeevan Mission, Wash in School

#### Education

Early Childhood Education

#### **District - Taluka**

Bhavnagar - Gogha

Bhavnagar - Talaja

Bhavnagar - Mahuva

Amreli - Rajula

Amreli - Jafrabad

Dev. Dwarka – Okhamandal

#### **Area Of Interventions**

WASH [MHM]

Livelihood, WASH [JJM & MHM]

WASH [JJM & MHM]

Livelihood, WASH [JJM]

Livelihood, WASH [JJM & MHM]

Education [ECE and Primary]



#### CSPC @ A GLANCE

Coastal Salinity Prevention Cell (CSPC) is dedicated to creating lasting change through targeted programmatic interventions that address the unique challenges faced by communities in Gujarat's coastal regions. Our work is anchored in three core areas: Water Sustainability and Resource Management for Improved Livelihoods, Water, Sanitation, and Hygiene (WaSH), and Education. Each of these programs is meticulously designed to not only address immediate needs but also to encourage long-term resilience and sustainable development. Through a combination of community engagement, innovative practices, and strategic partnerships, CSPC's interventions aim to improve the quality of life, promote environmental administration, and empower communities to take charge of their futures. In the following sections, we detail the interventions carried out under the programmatic area, showcasing how CSPC is making a tangible difference on the ground.

#### Vision

Evolve sustainable approaches for prevention and mitigation of salinity ingress, whilst enhancing livelihood resilience of communities affected by salinity in coastal villages of Gujarat.

#### **Philosophy**

To enable greater interaction and cross-learning between practitioners, researchers and policy makers to ensure that the unique and emerging problem of salinity is adequately understood allowing for design as well as implementation of effective programmes and policies to address the problems being faced by coastal communities.

#### Approach

CSPC has a multi-pronged approach to evolve sustainable solutions to effectively deal with multifaceted challenges of salinity ingress. The salient pillars of our approach to work include knowledge creation on issues of salinity ingress, design of contextspecific solutions through evidence-based research, effective inground implementation of programs, strengthening community institutions to sustain the interventions and liaison with government for policy advocacy on issues related to salinity mitigation.

# PROJECT LOCATION & PROFILE

State	Gujarat
District	Bhavnagar
Block	Talaja
Total Villages	20
Total Households	3000

**Majority are Small and Marginal Farmers** 



Bapada	Bapasara	Bharapara	Chopada	Devali
Dhardi	Gadhada	Gorkhi	Isora	Kathava
Mathavada	Padri Gohil	Panch Pipala	Piparala	Rajapara No-2
Sathara	Tarasara	Umarala	Velavadar	Trapaj



The **D Mart Foundation project** aims to enhance water security in 20 villages across Talaja block in Bhavnagar, Gujarat, benefiting over 3,000 households. It addresses both supply and demand aspects of water management to ensure access to clean drinking water and reduce landward salinity in coastal areas. It promotes sustainable water use, Agri-Water-Energy solutions, and strengthens farmers' livelihoods. Key focus on Participatory groundwater management, empowering community institutions to secure long-term water sustainability amid climate challenges.

#### **Objectives**

- Promote participatory ground water management to achieve water security by community institutions
- Address supply and demand side management of available water resources to ensure quality drinking & domestic water availability
- Stop or reduce the speed of landward salinity ingress in coastal areas through communitydriven initiatives

#### **Key Interventions**

Enhancing Understanding on Groundwater Management: Promotes knowledge of groundwater systems, emphasizing sustainable extraction and conservation practices to prevent depletion and contamination.

**Demand Side Water Management**: Focuses on reducing water consumption through efficient usage, conservation strategies, and community awareness to balance demand with available resources.

**Supply Side Water Management**: Involves enhancing water availability by developing infrastructure, improving storage, and augmenting sources such as rainwater harvesting and watershed development.

**O&M of WRM Structures by Village Committee:** Empowers local committees to oversee the operation and maintenance of water resource management (WRM) structures, ensuring functionality and longevity through community participation.

**Ensuring Improved Drinking Water**: Implements measures to provide access to safe, potable water through source protection, purification technologies, and infrastructure improvements for rural and urban communities.

# PROJECT INTERVENTIONS



#### **Supply Side Water Management**

- Repair Structures
- New Structures
- Gabion Structures
- Water Meter



#### **Demand Side Water Management**

- Drip Irrigation
- Sprinkler Irrigation
- Laser Irrigation
- Soil Moisture Meter
- Water Meter



#### **WaSH** (Water and Sanitation Hygiene)

- Drinking water source sustainability
- Water Quality (Inline Chlorinator)
- Functional Household Tap Connections
- Community Mobilization for Water Tariff collection



#### Convergence

- Bio Gas
- Net House
- Solar based Irrigation
- Soil Testing
- Horticulture
- Tree Plantation



Training and Capacity Building

(Multi Thematic Trainings)

We support the United Nations' **Sustainable Development Goals (SDGs)** and share the UN's vision for peace and prosperity for people and the planet.















# PROJECT HIGHLIGHTS



### **SUPPLY SIDE WATER MANAGEMENT**



**Desilting** 

16

Desilting plays key role increasing water storage capacity translating into availability of water for longer time. It also makes available fertile soil for the farmer.



#### **Repair Structures**

Ş

Renovation and repair of water harvesting structures keeps the water storage capacity for a longer time and makes available water for various purposes.



#### **New Structures**

14

Construction of new check walls and nullah bundh helps to guide the flowing rain water and leads to proper storage structures in the area.



#### **Recharge Shaft**

6

Ddesigned to replenish groundwater by channeling water directly into deep aquifers. They enhance groundwater levels and ensure sustainable water management.



#### Well Recharge

73

A technique that directs rainwater or runoff into existing wells to replenish groundwater levels. It improves water availability and supports sustainable groundwater management.



#### **Gabion Structures**

2

A wire mesh boxes filled with stones or other materials, In water resource management, they reduce surface runoff, enhance groundwater recharge, and protect against soil erosion.



# PROJECT HIGHLIGHTS



# DEMAND SIDE WATER MANAGEMENT



#### **Drip Irrigation**

21 Acres

Drip Irrigation delivers water directly to the plant roots through a network of tubes and emitters, minimizing water waste and improving efficiency.



#### **Sprinkler Irrigation**

161 Acres

Sprinkler Irrigation disperses water through a system of pipes and sprinklers, simulating rainfall to irrigate crops over a large area.



#### Laser Irrigation

61 Acres

Laser irrigation uses laser technology to level fields, ensuring uniform water distribution and improving irrigation efficiency.



#### **Soil Moisture Meter**

115 Farmers

Soil Moisture meter measures the moisture level in the soil, helping farmers to optimize farmers irrigation practices to prevent under or over watering.



#### **Water Meter**

5

A water meter measures the amount of water used for irrigation, helping farmers manage water consumption efficiently and ensure sustainable usage.

# PROJECT HIGHLIGHTS CONVERGENCE **Bio Gas 76**

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Integration of biogas production with other renewable energy or waste management systems, promoting sustainable energy and waste recycling in communities.



#### **Net House**



Net House is a structure covered with mesh or netting, used for growing crops in a controlled environment to protect them from pests and extreme weather conditions.

#### **Solar based Irrigation**

12 Farmers

The solar-powered irrigation system is an application of a solar-powered water pumping system used in paddy fields, and gardens for watering plants, vegetables, etc.



#### **Soil Testing**

239



Soil testing is the process of analyzing soil samples to determine their nutrient content, pH, and other properties. This helps assess soil fertility and guides appropriate fertilizer and soil management practices for optimal plant growth.

#### **Horticulture**

88 Farmers

Horticulture is the science and art of cultivating plants for food, medicine, and aesthetic purposes. It involves the growth, production, and management of fruits, vegetables, flowers, and ornamental plants.



#### **Tree Plantation**

2000 Saplings planted



Tree Plantation Activity involves planting trees to improve environmental sustainability, enhance biodiversity, and combat climate change.



# PROJECT HIGHLIGHTS



# TRAINING AND EXPOSURE VISITS



# Water Security Trainings in Villages

20

Water Security Trainings in Villages educate local communities on sustainable water management practices, conservation techniques, and strategies for ensuring long-term water availability.



**O&M Trainings** 

20

O and M Trainings (Operation and Maintenance Trainings) focus on teaching individuals or groups how to efficiently operate and maintain agricultural equipment, infrastructure, or water systems.



# School Training Program in 20 villages

9,244 Students

School Training Program provides students with knowledge and practical skills related to agriculture, environmental sustainability, or community health.



# Experience Sharing Workshop

5

Experience Sharing Workshop is a platform where participants share their insights, challenges, and successful strategies, fostering collaborative learning and knowledge exchange.

# PROJECT HIGHLIGHTS





3,014

HH get access to improved drinking water

1,473

HH benefitted directly through
WRM intervention for
support irrigation



10.73

McFt of Rain Water Harvested (~30 Cr Liter Annually)



2,045

Acre of land benefitted in immediate

Catchment area



# COMMUNITY HEROES IMPACT STORIES

These initiatives have played a vital role in reducing the presence of salinity in soil, water and other also natural resources prevailing in the project area. The positive impact in the lives of people are clearly visible and in this book some instances are being presented in form of case studies.

# FROM SCARCITY TO SECURITY

Mathavada's Journey Towards Sustainable Livelihood and



Mathavada a coastal village, located in the Talaja Block of Bhavnagar District, has long faced the challenges of erratic rainfall and an over-reliance on groundwater for irrigation and daily needs. With a population of 3,349 and 554 households, the village sustains itself through farming and animal husbandry, with 291 farmers and a significant livestock population of 1,617 cattle. Over the years, the excessive withdrawal of groundwater and lack of perennial rivers made the village highly vulnerable to seawater intrusion, negatively affecting its water quality and overall livelihood security. However, through the targeted interventions of CSPC, Mathavada has seen a transformation in its water resource management, access to safe drinking water, agricultural practices, and overall well-being.

#### FLOWING FORWARD

#### **Water Budgeting**

A comprehensive assessment of available water resources. This step ensures efficient allocation for drinking, irrigation, and other needs.





# %

#### Water of Hope Celebration

A community-driven celebration recognizing the success of water initiatives. It includes sanitation drives and tree planting, symbolizing growth and renewal.

#### **Water Security Plan**

Strategic planning to safeguard long-term water availability. It involves measures to prevent water scarcity and future risks.

**Supply Side Management** 

Focuses on augmenting water

supply through infrastrucutral

improvements. It includes strengthening existing

resources groundwater

recharge, and enhanced distribution systems.



# **MANAGEMENT JOURNEY**



#### **Community Engagement**

Actively involves the community in water conservation efforts. Educates people on sustainable practices and builds ownership.

#### **Water Access**

Provides reliable access to clean drinking water for every household. Infrastructure improvements and equitable distribution mechanisms are key elements.

#### **Demand Side** Management

Encourages responsible water usage by managing consumption levels. It promotes water-saving practices and efficient use.





#### **Drinking Water and Irrigation Source Sustainability**

Ensures continuous and sustainable access to potable water and irrigation. Balances resource distribution between household and agricultural needs.

#### The Challenge

Before CSPC's intervention, Mathavada's only source of drinking water was the Jalumb Well, with a Total Dissolved Solids (TDS) reading of ~800 PPM—indicating unsafe drinking water quality. The village also relied on 5–6 hand pumps for domestic water usage, which were inadequate given the growing needs of the population. Water scarcity was a constant threat, exacerbated by overextraction of groundwater and poor irrigation methods. Most of the village's population, especially small and marginal farmers, faced deteriorating soil quality, lower crop yields, and limited water availability for livestock.

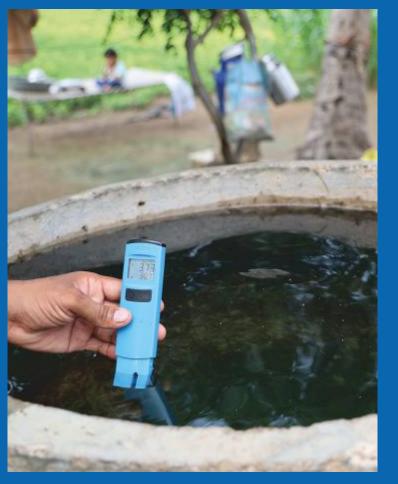
#### **CSPC's Intervention**

Understanding the village's critical water needs, CSPC stepped in with a comprehensive strategy that not only focused on water resource management but also incorporated social and behaviour change principles to promote long-term sustainability.



#### 1. Water Resource Management





#### Source Strengthening

CSPC carried out source strengthening of the Jalumb Well, which improved the water supply for the community. Additionally, a recharge tubewell, 4 wells recharge, and 2 check dams were repaired, and major desilting was also undertaken to improve the water storage capacity and thereby enhance the groundwater potential –

#### Water Quality Improvement

To assure the quality of the tap water being supplied, CSPC installed an in-line chlorinator in the village's water supply system under the JJM program supported by the state government. This ensured the water was purified before reaching households. A sensorbased pumping machine was also installed to enhance operational efficiency and reduce water wastage.

#### 2. Efficient Irrigation Practices

Recognizing the importance of sustainable agriculture, CSPC introduced the concept of micro-irrigation techniques such as drip irrigation, laser irrigation, and water metering demonstrations. These methods helped the farmers reduce water wastage and adopt more efficient irrigation systems for crops like groundnut, cotton, onion, wheat, and fodder. Demonstrating the benefits of these irrigation techniques motivated farmers to shift from traditional to modern methods, ultimately leading to better yields and water conservation.



#### 3. Social and Behaviour Change Communication (SBCC)

CSPC's approach wasn't limited to infrastructure development but also integrated social and behaviour change principles to ensure community participation and ownership of the interventions.

 Community Engagement: Through extensive workshops and training sessions, CSPC educated the villagers on the importance of water conservation, water quality management, and efficient management of water resources.

#### The Other interventions included

 Installation of household tap connections under the government supported flagship scheme of JJM - Har Ghar Nal Se Jal: With 504 functional household tap connections, access to safe drinking water became more reliable and assured, reducing the time and effort spent by women and children on fetching water.

- Sanitation Awareness Campaigns: CSPC conducted awareness sessions to educate villagers about the importance of hygiene and safe water practices, including the need for household water treatment and storage.
- Menstrual Hygiene Promotion: The organization introduced menstrual hygiene-related behaviour change communication campaigns to educate women and adolescent girls on the importance of proper menstrual hygiene management, especially for the well-being of young girls and vulnerable groups. These campaigns emphasized safe practices, the use of hygienic products, and the importance of clean sanitation facilities to promote health and dignity.

#### Conclusion

The transformation of Mathavada Village is a testament to CSPC's holistic approach, which goes beyond infrastructure development to include social and behaviour change, community engagement, and long-term sustainability. By addressing the village's water scarcity issues, promoting efficient irrigation, and encouraging sustainable livelihood practices, CSPC has created a model for community led water resource management that can be replicated in other coastal villages facing similar challenges. The success of Mathavada's journey highlights the importance of community ownership, behavioural shifts, and innovative interventions in tackling the pressing issue of water security in Gujarat's coastal regions.

# SMART PUMPS SMARTER VILLAGE

CSPC's Functional Tech Solution for Easy Water Management

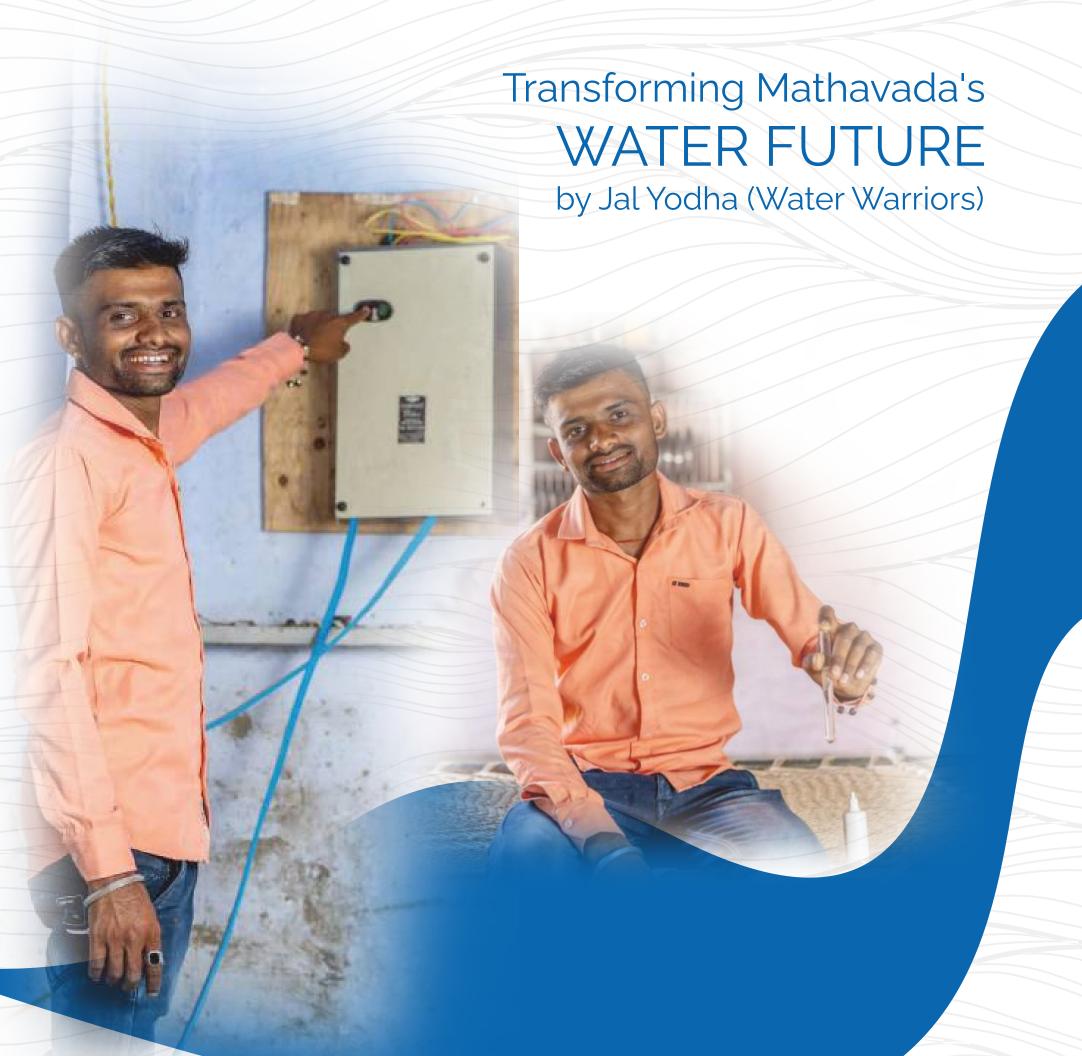


In coastal Bhavnagar, Mathawada faced a unique challenge: its water source, Jallumb well, lay two kilometers away from the village center. The pump operator made multiple daily trips to manually operate the system, costing Rs. 12-15 thousand monthly in labor & fuel.

CSPC recognized this inefficiency & facilitated collaboration between Mathawada Pani Samiti, the Sarpanch, WASMO, & other stakeholders. Their solution: an automatic mobile-based pumping system. This innovation allowed the operator, Gusabhai, to control the pump remotely via phone, eliminating physical trips.

The impact has been substantial. The new system saves time, reduces operational costs, & improves water supply efficiency. It also decreases wear & tear on the motor, lowering maintenance costs. With reduced labor needs, the Pani Samiti can hire operators at lower costs, enhancing overall operational efficiency. Mathawada now serves as a pilot village for this L&T supported technology, demonstrating its feasibility in remote coastal settings. CSPC's commitment goes beyond providing water access; it ensures sustainable & efficient water supply systems.

This initiative not only addressed immediate logistical challenges but also laid the groundwork for future advancements in water management. CSPC's approach in Mathawada exemplifies how innovative solutions can significantly improve coastal communities' quality of life.





The coastal residents of Mathavada faced challenges beyond operational inefficiencies in water distribution. The community lacked awareness about water supply, quality management, & maintenance. To tackle this, CSPC realized they needed to both set up efficient systems & extensively train the Pani Samiti & Jal Yodha to make the village water independent.

CSPC's intervention resulted in a well-organized distribution system, dividing the village into four zones receiving water daily at 6 pm for 30 minutes each. They installed an ILC system, which Chiragbhai, the Jal Yodha, diligently monitors to maintain proper chlorine levels.

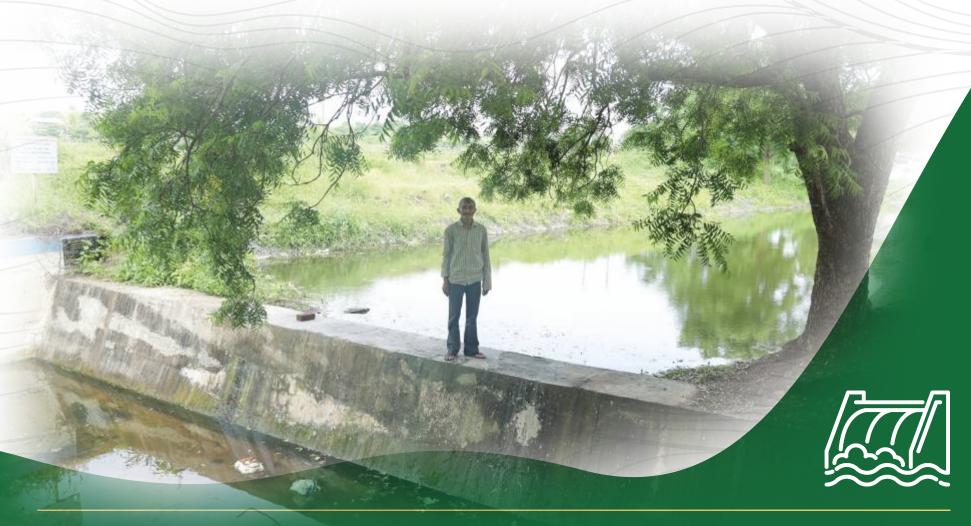
Chiragbhai oversees all O&M mechanisms, from timely distribution & chlorination to maintaining registers & repairing pipelines. He's the point person for new connections & provides support to families. CSPC's training has enabled him to ensure fair, equitable water supply across households.

The impact extends beyond infrastructure. It has fostered community service & pride through CSPC's approach of combining technical solutions with community empowerment. By training local operators like Chiragbhai, CSPC has created a sustainable, community-driven water management system in Mathawada.

This comprehensive approach has not only improved water access & quality but also significantly enhanced the quality of life for Mathawada's coastal residents, showcasing the power of local empowerment in solving water challenges.

# WATER RESOURCE MANAGEMENT

Transforming Rural Agriculture through Sustainable Water Management: The Case of Himmatbhai Mathurbhai



Water scarcity has long been a pressing challenge in rural regions like Talaja Block, where erratic rainfall and insufficient water resources have constrained agricultural productivity and livelihoods. For farmers like Himmatbhai Mathurbhai from Gadhada, these challenges were acutely felt. Limited to a single cropping season due to a lack of reliable irrigation, Himmatbhai faced restricted agricultural output, unstable income, and compromised quality of life.

Recognizing this critical issue, the Coastal Salinity Prevention Cell (CSPC), with support from D-Mart Foundation, initiated a series of targeted interventions, including the construction of a checkdam near Himmatbhai's farmland. While not a standalone program, this checkdam formed a crucial part of a broader initiative to manage water resources sustainably, enhance livelihoods, and promote environmental conservation in the region.

### Addressing Water Scarcity Through Community-Led Solutions

The intervention began with extensive consultations with local farmers, who highlighted the need for year-round access to water. The construction of the checkdam offered a sustainable solution by capturing and storing rainwater. This reservoir not only provided a consistent water supply for irrigation but also improved soil moisture levels, allowing farmers like Himmatbhai to extend their cropping cycles and cultivate multiple crops annually.

The results were transformative. Himmatbhai transitioned from single-crop farming to growing diverse crops such as onions, sorghum (jowar), and groundnuts, significantly increasing both his yield and income. The intervention also enriched soil health, promoting sustainable agricultural practices and ensuring resilience against climate variability.

#### Outcomes and Broader Impact

The check dam intervention yielded a range of positive outcomes:

- Increased Productivity: Reliable irrigation enabled higher crop yields and better utilization of farmland.
- **Diversified Farming**: Farmers moved from monoculture to cultivating multiple crops, ensuring income stability and food security.
- **Economic Growth**: Improved yields and diversified crops substantially boosted Himmatbhai's earnings, enhancing his family's quality of life.

 Environmental Sustainability: The check dam improved groundwater levels, increased soil moisture retention, and supported biodiversity in the area.

The benefits extended beyond Himmatbhai's farm, impacting 51 acres and supporting neighboring farmers with access to the reservoir. The intervention inspired other farmers in the community to adopt similar water conservation measures, contributing to regional socioeconomic development and ecological sustainability.

#### Laying the Foundation for Resilience

Himmatbhai's success story demonstrates the transformative power of sustainable water management. By addressing water scarcity through community-driven solutions, this intervention not only improved agricultural productivity but also created a ripple effect of positive change across Talaja Block. Farmers now view water as a shared resource, promoting collaboration and stewardship for future generations.

This case stands as a testament to the potential of integrated water resource management to build resilience, empower communities, and secure sustainable livelihoods in vulnerable regions. For Himmat Bhai and others, the intervention has unlocked opportunities for growth and prosperity, setting a benchmark for development in rural agriculture.

# DRIP IRRIGATION and LASER IRRIGATION

Modern Irrigation Technologies for Sustainable Development and Climate Resilience



In the semi-arid landscapes of Talaja, Gujarat, where water scarcity and erratic rainfall have long hindered agricultural productivity, innovative water management solutions are reshaping livelihoods and promoting sustainability. Through government-supported initiatives and collaborative efforts by the Coastal Salinity

Prevention Cell (CSPC), farmers like Solanki Bipinbhai Dhirubhai of Mathavda village and Dodiya Vallabhbhai Narsinhbhai of Gorkhi village have embraced modern irrigation technologies, setting inspiring examples for their communities.

#### Transforming Challenges into Opportunities

Prior to intervention, both farmers faced immense difficulties in maintaining sustainable agricultural practices. Bipinbhai, cultivating watermelon, muskmelon, and cotton, grappled with water wastage and soil degradation caused by traditional irrigation methods. Similarly, Vallabhbhai's uneven terrain and insufficient water availability jeopardized his groundnut crops, pushing his farming operations toward unsustainability. These challenges, compounded by climate variability, underscored the urgent need for innovative and efficient solutions.

#### Sustainable Solutions with Tangible Benefits

Bipinbhai adopted a drip irrigation system, supported by a 65% government subsidy and additional financial assistance from CSPC. This technology allowed precise water delivery directly to plant root zones, minimizing evaporation and runoff, enhancing soil health, and increasing crop yields. Vallabhbhai employed a laser irrigation system, which utilized precision land leveling for uniform water distribution. With solar-powered irrigation pumps reducing dependence on conventional energy sources, Vallabhbhai significantly lowered his operational costs while addressing water scarcity.

These interventions yielded remarkable results. Bipinbhai experienced a substantial boost in crop productivity, particularly in cotton, while reducing labour and irrigation costs. Vallabhbhai achieved stable groundnut yields even with limited water availability, thanks to optimized water usage and renewable energy integration. Both farmers significantly reduced water consumption, contributing to the region's water security and climate resilience.

#### Catalyzing Community-Wide Impact

The success of these initiatives extends beyond individual farms. Bipinbhai and Vallabhbhai have become local champions for sustainable farming, inspiring other farmers in Talaja to explore similar technologies. Their experiences highlight the critical role of modern irrigation in conserving resources, improving livelihoods, and building resilience against climate-induced challenges.

By integrating renewable energy, promoting efficient water use, and reducing soil degradation, these initiatives align with broader goals of environmental conservation and sustainable development. Moreover, they foster community awareness, encourage government and community collaboration, and support regional efforts to achieve water security and agricultural sustainability.

#### Conclusion

The transformative journeys of Bipinbhai and Vallabhbhai underscore the potential of sustainable practices in addressing development challenges and climate risks. Their stories not only validate the effectiveness of modern irrigation technologies but also demonstrate the power of innovation, collaboration, and community-driven action in creating resilient and prosperous farming ecosystems.

With continued support from government bodies and organizations like CSPC, such initiatives can serve as a model for sustainable development, ensuring that farming communities thrive despite environmental and climatic adversities. These efforts contribute to a brighter future where water, energy, and livelihoods are harmoniously integrated to build resilience and prosperity.

# Functional Household Tap Connection (FHTC)

Empowering Lives through Access to Clean Water in Bharapara Village



Access to clean water is essential for social development, improving health, well-being, and economic opportunities. Bharapara village in Talaja district, Gujarat, demonstrates how solving water scarcity can lead to transformative change, as seen through the life of Ashaben Bharatbhai Makwana.

#### The Challenge

For years, Ashaben walked half a kilometre daily to fetch water from a communal source. This task was physically exhausting, time-consuming, and limited her ability to focus on productive activities. The inconsistent water supply caused health issues and highlighted the inequities faced by rural communities, particularly women.

#### **The Intervention**

To address this challenge, a household tap connection programme was implemented in Bharapara. This intervention ensured sustainable access to clean water directly at people's doorsteps. For Ashaben, the change was life-altering, saving time and energy that had previously been spent on water collection.

#### Impact on Daily Life

• **Time and Energy Savings**: With water at her doorstep, Ashaben could focus on family and other productive activities.

- Improved Health: The reliable water supply reduced waterborne diseases, improving overall family health and hygiene.
- **Empowerment**: Freed from the burden of water collection, Ashaben could contribute more meaningfully to her family and community.

#### **Broader Social Impact**

The programme addressed structural inequities by empowering women like Ashaben. Improved water access allowed for better participation in economic activities, breaking cycles of poverty and enabling progress. Neighbouring villages were inspired to implement similar initiatives, fostering collective change and sustainable resource management practices.

#### Conclusion

Ashaben's story highlights how access to clean water can transform lives, empowering individuals and communities. The Bharapara tap connection programme not only met a basic need but also catalyzed broader social and economic development. This initiative underscores the importance of equitable and sustainable solutions in building resilient and empowered communities.

# SOURCE STRENGTHENING

Transforming Water Access in Bharapara Village



Bharapara village in Talaja district, Gujarat, faced a critical water scarcity issue, particularly during dry seasons when the primary well's water level would plummet. This scarcity disrupted daily life, posed health risks, and hindered agricultural productivity. Under the visionary leadership of Sarpanch Dineshbhai Parshottambhai Solanki, and with support from the Coastal Salinity Prevention Cell (CSPC), the community embarked on an ambitious project to strengthen its water sources through innovative and sustainable solutions.

#### Identifying the Problem

**Challenges**: The village's growing population and seasonal water shortages strained the existing water supply system.

#### **Impact**

Residents faced disrupted daily routines, increased health risks due to limited hygiene, and conflicts over water allocation. Farmers, heavily reliant on water for irrigation, saw reduced agricultural productivity, exacerbating economic challenges.

#### **Strategic Intervention**

Assessment and Planning: A thorough evaluation of the village's water needs and the well's potential was conducted. Experts identified horizontal boring as a viable technique to improve water availability sustainably.

- Implementation: Horizontal boring was executed around the well in four directions to access additional water-bearing strata.
- Community members actively participated in the project, ensuring local ownership and understanding of the intervention.

#### **Objectives**

- Immediate resolution of water scarcity.
- Establishment of a sustainable water management system to meet long-term needs.

#### **Outcomes and Impact**

- Enhanced Water Availability:
- Increased well yield through horizontal boring.
- Consistent drinking water supply throughout the year.

#### Improved Quality of Life

- Reduced health risks due to better hygiene practices.
- Elimination of conflicts over water resources.

#### **Agricultural Benefits**

 Reliable water access boosted irrigation, leading to increased agricultural productivity and improved livelihoods.

#### Community Empowerment and Awareness

**Leadership and Engagement**: Dineshbhai's proactive governance and collaboration with CSPC fostered community participation and ownership.

Awareness Campaigns: The project raised awareness about water conservation and sustainable resource management, promoting responsible practices among residents.

**Ripple Effect**: Inspired by Bharapara's success, neighboring villages began adopting similar interventions, amplifying the project's impact.

#### Sustainability and Maintenance

**Infrastructure Maintenance**: Regular upkeep of the well and associated infrastructure ensures continued efficiency and reliability.

**Institutional Strengthening**: The initiative established a robust framework for water management, empowering the community to address future challenges independently.

#### Conclusion

Bharapara's journey highlights the power of community-driven solutions in addressing critical water challenges. By combining modern techniques with proactive governance, the village not only resolved its water scarcity issues but also set a precedent for sustainable development. The success of this initiative underscores the importance of strategic interventions, local leadership, and community engagement in transforming lives and promoting sustainability.

Concluding Insights from

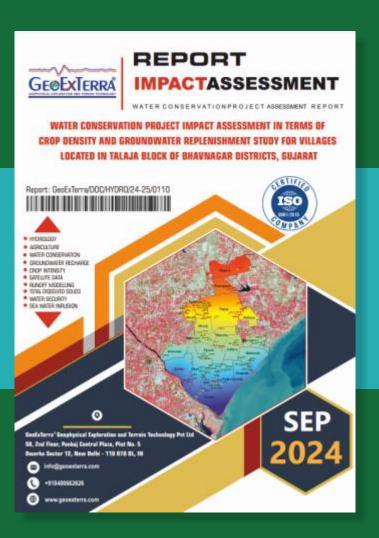
D-Mart Project through

An Impact Assessment Report

Conducted in the

Talaja Block (2021–2023)

by GeoExTerra



#### 1. Dynamic Agriculture System

- Crop patterns and Density exhibit fluctuations, with a notable increase in double cropping.
- Double cropping plays a vital role in boosting agricultural income.

## 2. Water Conservation and Groundwater Recharge

- Average surface runoff is 52.6% of total rainfall against the benchmark of 80 % rainfall in normal condition.
- CNB repairing, check dams, recharge shafts, and well recharge has contributed significantly to groundwater recharge

#### 3. Enhanced Groundwater Quality

- Total Dissolved Solids (TDS) levels in groundwater have decreased annually by 200-300 mg/l.
- This improvement enhances the suitability of groundwater for both irrigation and drinking purposes.

#### 4. Enhanced Groundwater Availability

The Data from the Observation wells Show a rise in the water availability in the wells

An average increase of 3.5 meter seen in the month of May

 An average increase of 2.15 meter seen in the month of Oct

# 5. Positive Feedback Loop in Agriculture and Water Dynamics

- Reduced surface runoff and better groundwater recharge improve water quality.
- Enhanced water quality supports intensified agricultural practices, creating a cycle of sustainable productivity and resource use.

## 6. Seasonal Rainfall Variations and Planning

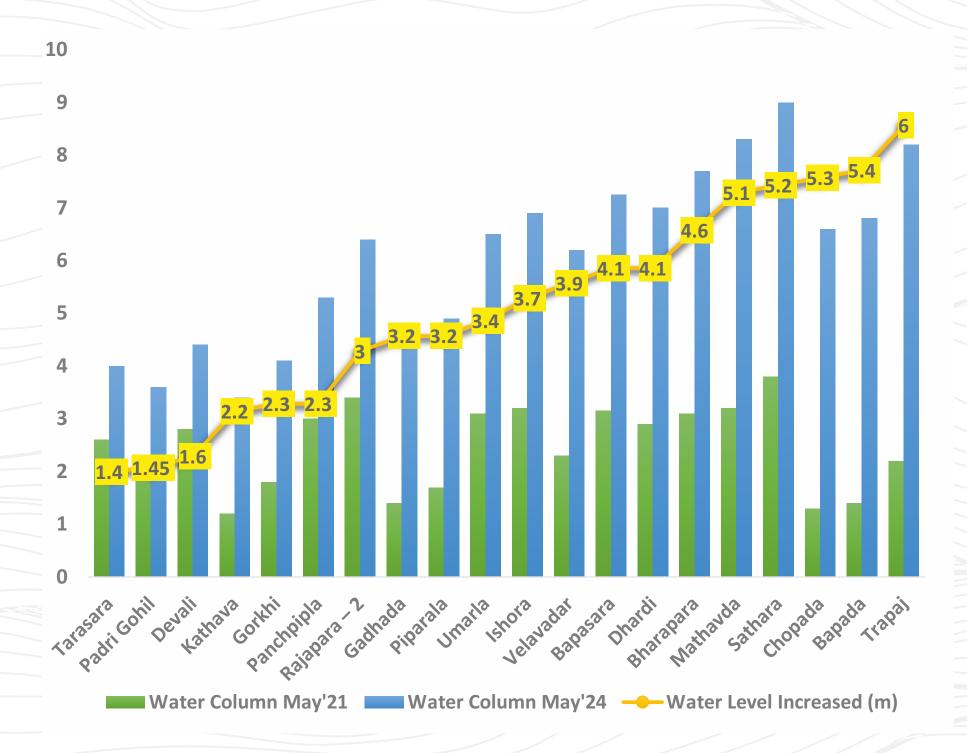
- Seasonal variations, heavily influenced by the southwest monsoon, shape the region's agriculture and water management needs.
- Insights into these patterns help optimize strategies for climate change adaptation, water resource management, and agricultural planning.

#### 7. Strategic Learnings for Sustainability

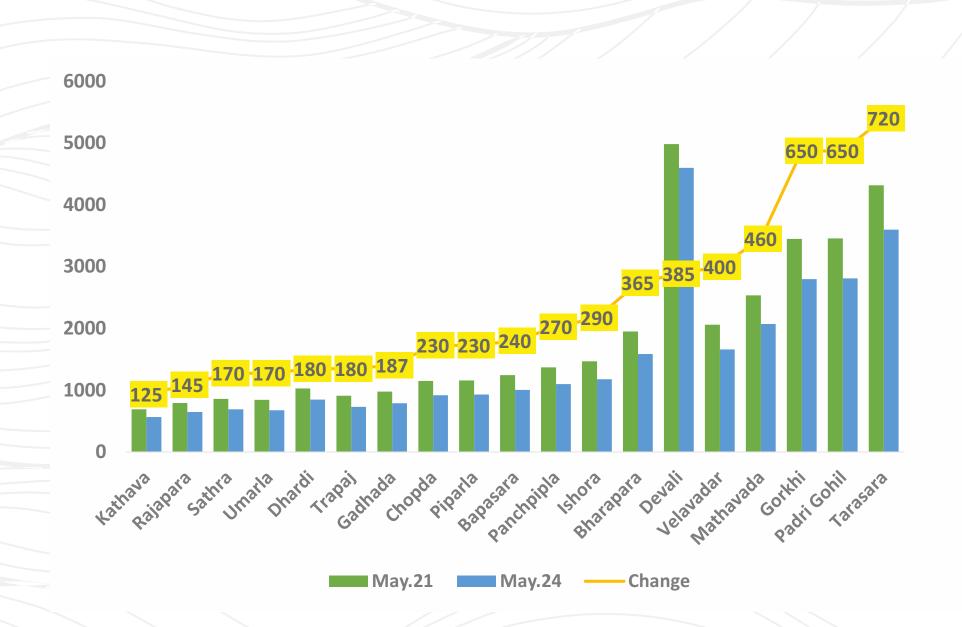
 The interplay between agriculture, water conservation, hydrological dynamics, and groundwater quality highlights the need for integrated resource management approaches.

These learnings pave the way for replicable and sustainable practices in similar agro-climatic regions.

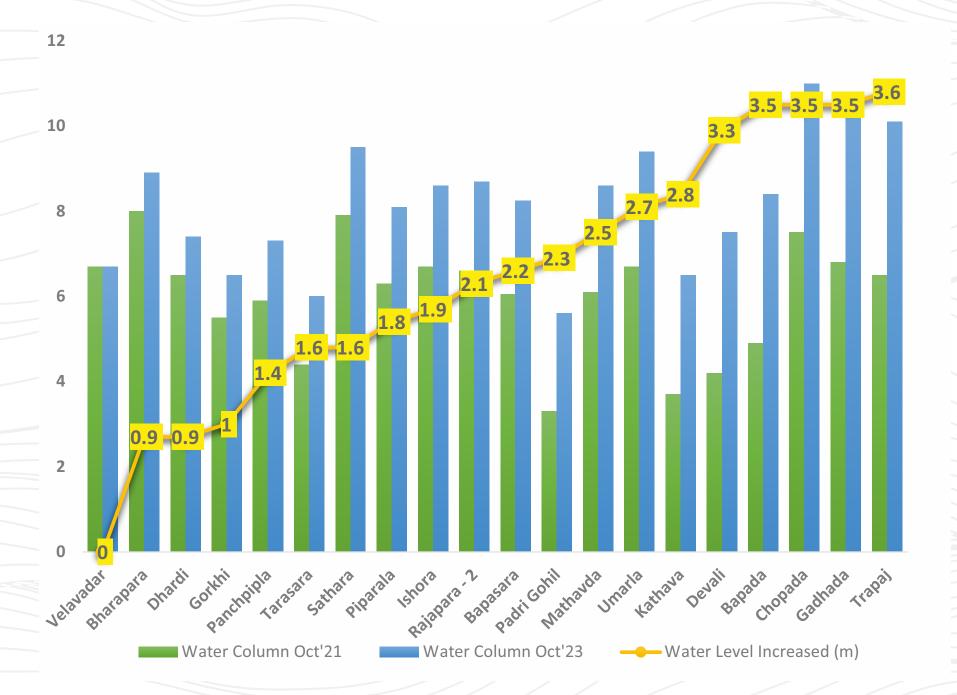
# Increase in Water Level (May '21 - May '24) WATER COLUMN



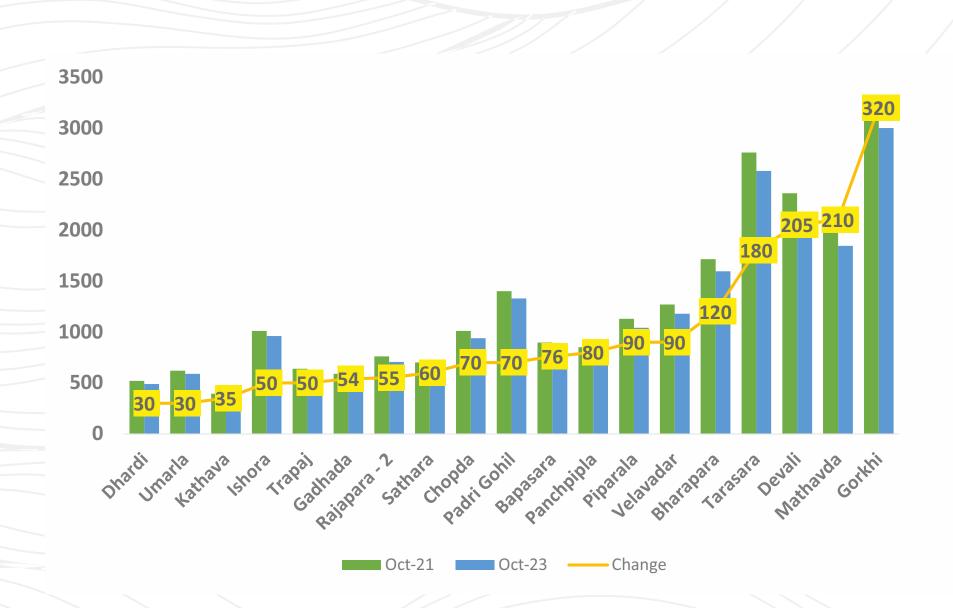
# Improvement in Water Quality (May '21 - May '24) TDS (Total Dissolved Solids)



# Increase in Water Level (Oct '21 - Oct '23) WATER COLUMN



# Improvement in Water Quality (Oct '21 - Oct '23) TDS (Total Dissolved Solids)







#### **Supply Side Management**

10.73 McFt

(~30.40 Cr Litres Water Storage & Recharge Capacity Created) Rain Water Harvested – Annually

#### HH

get access to improved drinking water sources

3014 HH

#### **Improved Water Table**

Average Increase in Water level

3.5 Meter in May and

2.5 Meter in Oct

(2021 Vs 2023/2024)

#### **Demand Side Management**

#### 10.82 Cr Litres

of Irrigation water Saved due to efficient use irrigation practices – Annually

#### Improved Water Quality

Average Reduction in the TDS **300 PPM** 

(May 2021 Vs. May 2024)



Water the Elixir of Life!





# Media Coverage

SUNDAY, 9.04.2023

#### તળાજા તાલુકામાં પીવાના પાણીની તંગી વચ્ચે જળ બચાવવાના પાઠ ભણાવ્યા

લસામાં અને ધમાલ માં ખૂબ ઉ શાયન પીચ માટે પછીની તેવી તપાલ हुत्रह हाता सहय नगाना नहाहुम महे नगा

માવવા પડેચા પ્રત્યા કરીને કઈ છેતે વધરે પા લઇ વર્ષ્યા છે. એન્સ્સાર છે એન્સ્સાર છે. એન્સ્સાર ઉપાયલ કરે છે. એન્સસાર ઉપાયલ કરે તેમને કિલ્દ દેખ હતા છે. એન્સસાર ઉપાયલ કરે તેમને કિલ્દ દેખ હતા હતા તેમને કરતા હતા હતા અને હતું.



નોમાર પારે પ્રવસ્ત છે. છેલ્લા વર્ષ મહિના માં ગામ ગાંદા. દીપેરીંગ, નવા ચંક્રોમ મનાવવા, કુલા વિશ્વન પદનિની બલાવલ પણ કરવામાં રાજ્યાન કે દેવારી ઈસોલ પાકનીઓ, કીચાર્ય એક કીચાર્ય કરવા હેલેકે ની. અહે છે. આ લોકોને હોટર અલેકીને હેરાર જેપીમને સા પાલીલ ઉપયોગથી માટે સી એક પીતી રહ્યા દૂધ મોટે મેડુલેને મેન વેદાશમાં સવદી વર્ષ અને લિનિયર પોલાય સોફિલા કન્યસામાર્દ શર્ષ લાગે ખેતીમાં આંદા પાલીનો લોલી ના માગેદર્શન હેઠળ સમયેલ SUNDAY, 21.04.2024

ટપક,મેસર જેવી વિચન વહનિઓ અપનાવવી પાશે. ૮૦% પાણી તો

ચીતમભાઈ સોલંકી ઉમેરે છે કે હવે

ભારમાં અસરકારક સિમાઇ

મેજની જરૂર છે. આ વંત્ર ૩૦ સે.મી.

તની સંખ્યા પશાડવાથી પાથી

માટીના પાળા જ પી જાય છે.

જમીનનો ભેજ માપીને પાકને પાણી આપવાથી અનેક કાયદા

#### વરસાદી પાણીની ગંભીરતા નહિ હોવાથી જમીનમા ઉતરતુ માંડ ૧૦ ટકા પાણી

તળાજામાં CSPC સંસ્થા દારા દર મહિને ચકાસાત પાણીનું બજેટ

નજજ તાલુકામાં કાર્યરત CSPC સંસ્થા કારા દર મહિને પાણીનું અજેટ ચામોમા ૨૦૦ ક્યાના પાછી શઈને TIDS અને પાણીનું લેવલ સચિતની માપણી કરીને છેલ્લા છ વર્ષથી સર્વ સ્વામાં આવે છે. કોસ્ટલ કેલીનીટી વિવેશય દીમ તળભાના ગોતમભાઇ લોટર અજેટિંગનું સરવેલુ કાઠવામાં

આવ્યું હતું. જેમાં ચોમાસા દરમિયાન કુદરત જે પાણી આપે છે તેને લઈ ગંભીરતા નથી જેના કારલે જય પ્રબંધ કરીને ભગભ स्वतः, वशत भनीने २०%, ८ ध ૧૦-૧૨૧૬ જથીનમાં ઉત્તર છે

પાણી બચાવીને રાખવું તોય તો નિક



कारा के पाली ऐम ऐम पेंच प्रिडेवी पाली प्रिवेशकमा साथे तेम तेम पालीली



28-08-2023

#### જળ શક્તિ મંત્રાલય દ્વારા વેળાવદરમાં હર ઘર નળથી જળ યોજનાની બે દિવસની શિબીર યોજાઇ



#### 18 ગામના 75થી વધુ સભ્યોએ હાજરી આપી

લેવલ KRC કોસટલ સેલિનિટી નિદર્શન કરવામાં આવ્યું હતું.

પ્રિવેન્સન સેલ CSPC(ટાટા ટ્રસ્ટ)

મારત સરકારના જળ શક્તિ તાજેતરમાં બે દિવસીય તાલીમ મંત્રાલય અને નેશનલ જળ શિષ્ઠિર યોજાઈ હતી. આ તાલીમ જીવન મિશન અંતર્ગત હર ઘર શિષ્ઠિરમાં 18 ગામોના 75 જેટલા નળથી જળ કાર્યક્રમ હેઠળ પીવાના - પાણી સમિતિના સભ્યો ઉપસ્થિત પાણીની યોજનાઓના મરામત રહી માર્ગદર્શન મેળવ્યું હતું. અને નિભાવણી માટે તળાજા અને કાર્યક્રમમાં ડી.ડીઓ પ્રશાંત

મહુવા તાલુકાના 18 ગામોની જિલોવાએ ખાસ ઉપસ્થિત રહી પાણી સમિતિના સભ્યોની બે વિશેષ માર્ગદર્શન કર્યું હતું. દિવસની ક્ષેવલ-૩ ની વાસ્મો સિંચાઈના પાણીના કાર્વકામ ભાવનગરના સંકલનમાં નેશનલ ઉપયોગ માટે ભેજમાયક મીટરન્

ખારા પાણી સામે આયોજન અંગે પાણી સમિતિની શિબિર યોજાઈ

### તળાજા-મહુવાના ૧૮ ગામના ૭૫ સભ્યોની હાજરીમાં શિબિર યોજાઇ

CSPC દ્વારા ઓનલાઈન કલોરીનેશન, ભેજમાપક મીટરનુ નિદર્શન કરાયુ

ભારત સરકારના જળ શક્તિ મંત્રાગય અને નેશનલ જળ જવન મિશન અંતર્ગત હર ધર નળથી જળ કાર્યક્રમ હેઠળ પીવાના પાળીની યોજનાઓના મરામત અને નિભાવણી માટે તળાજા અને મહુવા તાલુકાના ૧૮ ગામોની પાણી સમિતિના સબ્યોની બે દિવસની લેવલ-૩ ની તાલીમ શિબિર વારમાં ભાવનગરના સંકલનમાં નેશનલ ગામના ૭૫ પાણી સમિતિના સભ્યોએ જિલોવાએ તળાજા, મહુવા ઉપસ્થિત રહી માર્ગદર્શન મેળવ્યું હતું. તાલુકાના ૧૮ ગામની પાણી તાલીમ દરમિયાન નેશનલ લેવલ કી સમિતિઓનું માર્ગદર્શન કર્યું હતું. રિસોર્સ સેન્ટર CSPC ફારા ઓનલાઈન ક્લોરીનેશન અને સિંચાઈના પાણીના સ્વાવલંબન સ્થાપિત કરવા કાર્યક્ષમ ઉપયોગ માટે ભેજમાપક તાલીમ દરમિયાન ગુજરાત યોટર મીટરનુ નિદર્શન કરવામાં આવ્યું હતું.

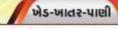
આ તાલીમમાં જળ જીવન મિશન જોગવાઈઓ કાર્યક્રમ, પાણી સમિતિ/પંચાયત / દરેક પાણ સભ્યોની કરજો અને જવાબદારીઓ યોજનાના સં પીવાના પાળીની યોજનાઓની નિભાવળી મરામત અને નિભાવણીની જરૂરિયાત, બનાવ્યા હ યોજના ના ઘટકોની સાર- સંભાળ, તાલીમમા પાણી વેરો સુનિશ્ચિત કરૂપાણી વેરાની અરવિંદ પરમાર, ધર્મેશ ત્રિવેદી <mark>કરેશ તળમ સુર્ધમાં સ્પાલળ ઉપને</mark> ૧૬૦૦ કાર સુર્ધમાં પ



લેવલ KRC કોસટલ સેલિનિટી નિભાવલી અંગે વિસ્તૃત પશિષણ પાલ્યું હતું. વ્યવસ્થા દ્વારય બારેયાં, પ્રિવેન્સન સેલ CSPC (ટાટા ટ્રસ્ટ ) આપવામાં આવ્યું હતું, કાર્યક્રમમાં ગૌતમ સોલંકી અને પ્રવિદા ચાવડા દારા તળાજામાં યોજાઈ હતી. જેમાં ૧૮ જિલ્લા વિકાસ અધિકારી પ્રશાંત દારા કરવામાં આવી હતી.

> મરામત નિભાવ માટે મનવર્ષ કેન્સરસે પહેલી જ વૅરેના કામ મહેના રેન્ડરથી : ડોમેસ્ટિક એક્ટ-૨૦૧૯ ની

ા.વોટર ઓડીટ દ્વારા શ્રી સમિતિઓએ ગ્રાલન મરામત અને માટે એક્શન પ્લાન ડતા. બે દિવસિય કમલેશ સોલંકી.	24	River.	40
	,	એસ આઈ દી સી ઓફ સ્ટ્રોમ વોર્નીય નાઈટ સીલ્નાલ સીક્ષમ એટ મગદલ્લા પોર્ટ	9,11
કમલરા સાલકા,	16.1	લેવા <u>કોરા કેન્દ્રર કોર્ય</u> , નામમ કાર્યપાદ	divisit







#### તળાજા પંથકમાં સીએસપીસી ટીમ વિવિધ ગામોમાં વોટર બજેટિંગ કરીને પાણીનું સરવેયું કાઢવામાં આવ્યું

अभ अमल् नाम असलो दुव अमली पार्टीनी समाव भावनं सर्वेत् भीजेकिक दुव (जस्ति पार्टी ने केला + स्त्रूपालन स्मार विकास समी पार्टी ने केला + स्त्रूपालन स्मार (केवर) पार्टी - स्वर्थी पार्टी - स्त्रूपालन स्मार (केवर) पार्टी - स्वर्थी पार्टी - स्वर्थी पार्टी - स्वर्थन अस्त्रिपाल)

પૂત્રમાં છે.
પાંચાનો સન્ય કેટ્રબાવવાનું પૂત્ર સ્થાર છે પૂત્રમાં કાલાનો પાંચી ને સામાં સા પૂત્રમાં અને મોદ લાગે ભૂતમાં માને ઉપાડ કરવાં, મુખરે જાય કેટી કેટિલ કેટિલ સાથે છે. તેમ પાંચીની કુલાના આવે છે. ઉપાડ પાંચા પાંચીની કુલાના આવે છે. ઉપાડ TDS નો અમામ મી પાંચ કેટિલન હોંદર હાલીની કુલાનો પાંચી તેમ પાંચા પાંચા દિવસમાં અને મોદર હાલીની કુલાના અને છે. ઉપાડ ્યોગ્રેટ આદિવર્ડ અને આફ ઓનું કોંગે, તથા વેકોમ મનાવીને, તથાત અલ્લેક દુવિવાનું ભરત ઉંચનું વધુ છે. ડીંકા કોંગે, ખેતાલાવાની કરીને આ આત ઓમાં ઈંગ્લું વાલી શુદ્ધ થાય લેકામાં લોકામાં લાકોની પછીને જ્યોગ્ય છે એટલું જ ચાલી ચેટાયલ પણ છે. ડિલાગ્યામાં આવે તો લોકા પારેટ વેંદો CSPC श्रम क्रांस विशिष्ट अवस्था वर्त को के. क्या सूची पण अन्य

CSPL રાજ હાઇ સંવાર નામમાં થઇ તે છે. જ્યાં સુધી પર નામ દુધાના પાછીના 175 પાંચીમાં એ 'તે વિભારની પાછીના જો તેની સુભા છે. જન્માંબા વાલે એમ પાંચાનો માર પાંચ પાછીના છે. પાંચા માટે દુધાનું નથી પાણી પ્યા સંક્રો વાર પાંચ પાંચાનો છે. પાંચા માટે હારનું ધાર સંક્રોલ ખો. છે. જ્યા તેની માટે પશું પાછીની પાણીનામાં કેલ્લાનું પ્રમ સ્થાનિક સાને નામના તેની માટે પશું પાછીની પાણીનામાં કેલ્લાનું પ્રમ સ્થાનિક સાને નામના

कारण पाताल कोच के विश्वपाद पाताल कुळ पाताल प्रदेशनी हुंद सभी रह % हैंदेवी के कार्य पार्थ कर 3 में केंद्र के के 2 के कार्य पार्थ कर 3 में केंद्र के 3 के 5 मार्थ कर 3 मार्य कर 3 मार्थ कर 3 मार्थ कर 3 मार्थ



ભાવનગર 25-01-2024



### ભાવવગડ ગ્રામ્સ



# જળસંચય • તળાજાના કંઠાળ વિસ્તાર સહિત ગામડાઓમાં જાગૃતિ કેળવવા સ્વૈચ્છિક સંસ્થા દ્વારા પાણીની તંગી ભોગવતા ગામોમાં ઝુંબેશ

વરસાદી પાણીનો ભૂગર્ભમાં સંગ્રહ કરવા તેમજ ખેતી માટે ધરતીના જળનો મહત્તમ ઉપયોગ થાય તે માટે માર્ગદર્શન

ભાવનગર 10-04-2023

દેરતી કર્વપ્રિક સંસ્થાઓ અને ટસ્ટ

તળાજા તાલુકાના મોટાભાગના દ્વારા વરસાદનું પાણી વધુને વધુ

વિસ્તારમાં ઋતુ ચક્રમાં મોટા પાયે જમીન ભૂગર્ભમાં સંચિત થાય તે માટે

કેરકારો જોવા મળે છે. જ્યસંચયનું કાર્યરત હોવાનું જાણવા મળેલ છે.

કુદરતી પ્રયાણ ખૂબ જ ઓછું હોવાર્ન જે પૈકી તાજેતરના વર્ષોમાં સી.એસ.

કરવા ત્રાણ વાલુકાના મોટા પી.સી, ટાટા ટ્રસ્ટ દારા હાલ તળાજા ભાગના ગામોમાં ખેતી માટે અને તાલુકામાં જળ અભિયાન ચલાવાઈ

પીવા માટે પાણીની કામમી તંગી જોવા રહ્યું છે.

30 જેટલા ગામોમાં અપાયુ માર્ગદર્શન 

ભાવવગક ગામ્સ

સહકારથી સફળતા 91 કરોડ લિટર જેટલા પાણીની સંગ્રહ ક્ષમતા વધારવામાં સફળતા મળી

પાદરી(ઓ), મથવાલ, ભારપરા, સ્લા છે. મળે છે. જેને નિવારવા માટે સરકારી આ સંસ્થા દારા ત્રણ મહિનામાં કઠવા, બપાસરા, પીપરલા, યારડી, આ સી.એસ.પી.સી, ટાટા માટે ડ્રિપ, લેસર અને ફવારા પહિત

યોજનાઓનું અમલીકરેલ નમળું અને તથાજા તાલુકાના અઠકા, ઉમરેલા, તરસરા વગેરે ગામોમાં ટ્રસ્ટના સિનિયર પ્રોગ્રામ ઓક્સિર જેવી સૂર્ભ પિયત પદાંતની ભલામલ પરિલામલલી નહિ હોવાનો સામાન્ય રાજપરા-2, દેવલી, ઉશોરા, તલાવ ઊંદા કરવા, યેકોમ-રીપેરીંગ, કમલેશભાઈ સોલંકીએ જણાવેલ છે વિ.ગ્રુપેશ યલાવાય છે.

કરી જમીનમાં અંદાજિત કુલ ૧૧ કરોડ પાણીના ઉપયોગથી ખેડૂતોને ખેત

લિટર જેટલી પાણીની સંગત લખતા પેદારા વધારી શકશે, આ કામની સાથે

વધારવા સફળ અભિયાન ચલાવ્યું અમે અસરગ્રક્ત ગામના લોકોને વોટર છે, અને સાથે કાંપની ફળદુપ માર્ટી બજેટિંગ દ્વારા લોક ભાગીદારીની

આસપાસના ખેડૂતો પોતાના ખેતરમાં વિશેષ સમજજા આપી ગામનું પાણીનું

નાખીને જ્વીનની કવદુપતા વધારી આયોજન થનાવવું, ખેતીમાં ઓછા

E-PAPER

સંદેશ

30-04-2023

तળाજानी CSPC संस्था द्वारा 21

શાળામાં આરોગ્યલક્ષી કાર્યક્રમો

તળાજા બ્યુરો ৷ તાજેતરમાં તળાજા તાલુકાની 21 પ્રાથમિક શાળાઓના બાળકોના આરોગ્ય માટે ટાટા

સંસ્થાના ક્લસ્ટર કો-ઓર્ડીનેટર ગૌતમભાઈ સોલંકી અને તેમની ટીમ દ્વારા દરેક શાળાઓમાં પાણી, સ્વછતા

અને આરોગ્યલક્ષી કાર્યક્રમો યોજવામાં આવ્યા હતા.આ

કાર્યક્રમ અંતર્ગત તળાજા તાલુકાના ત્રાપજ,દેવલી,

ગોરખી, સથરા, પીપરલા, કઠવા, ધારડી, વેળાવદર,

રાજપરા-૨. ઇસોરા, બપાસરા, બપાડા, પાંચ પીપળા,

ગઢડા, ઉમરલા, તરસરા, પાદરી ગો, ચોપડા સહિત 21

ગામોની પ્રાથમિક શાળાઓમાં બાળકોને જળસંચય અને

જળપ્રબંધનની અગત્યતા અંગે સમજણ અપાઇ હતી.

કાર્યક્રમ અંતર્ગત ધો. 6, 7 અને 8 ના બાળકોની પાણી,

સ્વછતા અને આરોગ્યલક્ષી મુદાઓ પર બાળકોની

સ્પર્ધાત્મક પરીક્ષા લેવામાં આવી હતી. ઉતમ પ્રદર્શન

કરનાર બાળકોને ઈનામો આપીને પ્રોત્સાહિત કરાશે.

ભાતવગડ ગાશ્કા



બાવળ કાઢી બે હજાર વૃક્ષનું વાવેતર થશે એક હેકટરમાં છોડમાંથી વૃક્ષ બનવવાની જવાબદારી પંચાયત સભ્યોએ સ્વીકારી

ા તળાજા (સંદેશ હ્યુસે) । તળાજા પંચકમાં કૃષિ સહિત વિવિધ

શેત્રે સેવા સાથે વિકાસના કાર્ય કરતી સંસ્થા દ્વારા આજે મથાવડા ગામે એક હેક્ટર જમીનમાં ઉગેલા બાવળોને દૂર કરી ત્યાં ૧૬ પ્રકારના બે હજાર છોડ વાવીને વૃક્ષ બનાવવાના સંકલ્પ લેવડાવ્યા હતા. સી.એસ.પી.સી સંસ્થા ટીમ અને ગામો લોકો દ્વારા મથાવાડા ગામે ૧ હેક્ટર પંચાયતની પડતર જમીનમાં બાવળ કાઢીને ૧૨ પકારના વિવિધ ૨૦૦૦ વૃક્ષોનું વાવેતર કરવામાં



વર્ષ વૃક્ષોને ઉછેરવાની અને પાણી તમામ પ્રતિનિધિયો દારા પ્રતિજ્ઞા લેવામાં કરવામાં આવશે.



ર્જમાં જિલ્લા વિકાસ અધિકારી પંચાયત સભ્યો અને પાણી કમિટીએ વાવેતર કરીશું અને તેમનું જતન કરીશું ભાવનગર ગુણવંતસિંહ સોલંકી (આઈ. સ્વીકારી છે. દિવસેને દિવસે બદલાતા કમશ આ વૃક્ષારોપણ અભિયાનના ભાગ એ,એસ ઓક્સિર) તાલુકા પ્રમુખ જળ વાયુ પરિવર્તનની અસરને રોકવા રૂપે રાવગોન, દળિયા, કુંઠડા, ફ્લસર, રાણાભાઈ સોલંકી, તાલુકા વિકાસ માટે પ જૂને સી.એસ.પી.સી સંસ્થા દારા બેડલા ગામોમાં વિવિધ પ્રજાતિના અધિકારી ડી. ટિ. લાડુમોર, મલાવાડા હોટલ કિંમ્તા માં વર્કશોપ આયોજવામાં ૨૫૦૦-૩૦૦૦ વૃક્ષો વાવવાની હાઇસ્કૂલના શિલકો અને વિધાર્થી, પી. અવિયો હતો. જેમાં ૨૨ ગામોના કામગીરી સી.એસ.પી.સી સંસ્થા ટીમ એસ.સી ટીમ અને ૨૦૦ થી વધારે ગામ - સરપંચો. અને ગામના પ્રતિનિધિઓએ - દ્વારા અને સમુદાયની ભાગીદારીથી આ લોકો વૃક્ષારોપણમાં ભાગ લીધો હતો. 3 ભાગ લીધો હતો. અને તેમાં હાજર વર્ષના ચોમાસાના અંત સુધીમાં પૂર્ણ

