

Incubated at



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/Bhujalapp



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Bhujal App®

Borewell Monitoring App

Patented Technology | Certified for Accuracy

Simplest and Quickest way of measuring water levels

Bhujal App Features

- Multilingual Android App
- No sensors required
- No need to open borewell assembly
- Works on existing borewells with pumps inside
- Measures water levels within a minute



Bhujal App Helps to

- Measure water levels in borewell anytime during non-pumping hours
- Assess impacts of pumping and water recharge on water availability
- Delay early drying up of a borewell and sustain it for a longer period
- Improve crop planning based on known water availability
- Impact assessment in watershed management / water conservation projects

Useful for

- Ground Water Agencies
- Water Supply Boards and Agencies
- Urban Local Bodies/Grampanchayats
- Farmers and Urban Households
- Com-Institutions-Industries
- CSR and Research Organisations
- Atal Bhujal Yojana
- AMRUT 2.0 Mission
- Jal Jeevan Mission
- Well Census Survey
- National Project on Aquifer Management (NAQUIM)





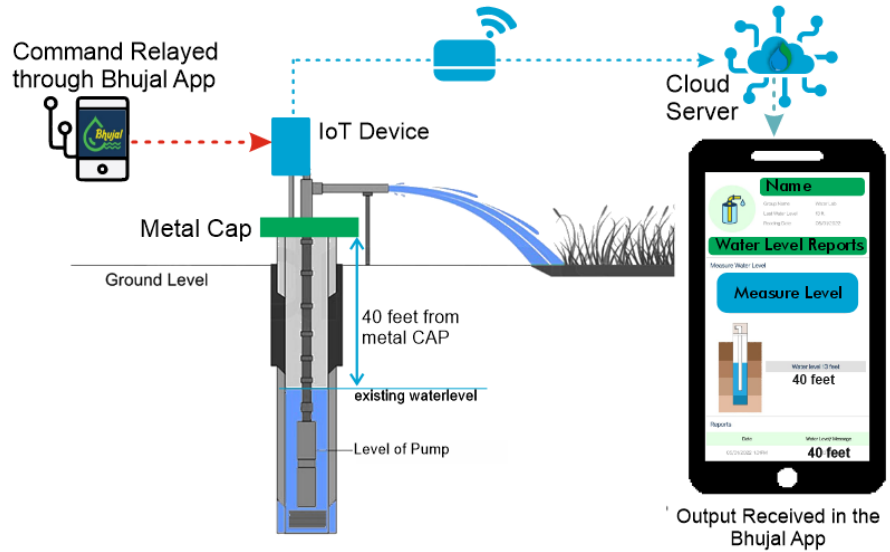
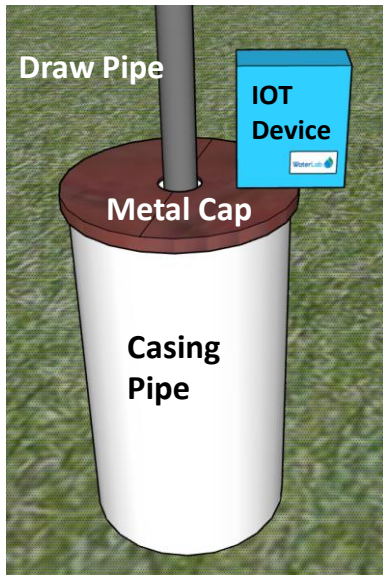
Bhujal[®] IoT

Borewell Monitoring IoT Device

Certified for Accuracy

Contactless Acoustic Water Level Recorder

(Suitable for Existing Pumped Borewells & Piezometers)



Prototype Ready - Conceptual Design

Features

- First of Its kind
- No sensors required
- Telemetry available
- Low Cost
- Low Maintenance
- Preset & random measurements possible
- User level configurations available
- Government Certified for accuracy
- Power Supply - 230VAC to 12 VDC
- Low Cost and Low Maintenance

Useful for

- Ground Water Agencies
- Water Supply Boards and Agencies
- Com-Institutions-Industries
- CSR and Research Organisations
- Urban Local Bodies/Grampanchayats
- Farmers and Urban Households
- Housing Societies

PATENT PENDING





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Bhujal Certification



Ministry of Housing and Urban Affairs
Government of India

Commendation Certificate

This is to certify that

Waterlab Solutions Pvt. Ltd.

has been selected

Technology and Implementation Partner,

as part of the

India- Pitch-Pilot-Scale Startup Challenge 2022

under AMRUT 2.0

Manoj Joshi
Secretary
Housing and Urban Affairs

D. Thara
Additional Secretary & Mission Director
(AMRUT)



Ministry of Agriculture
& Farmers Welfare
Government of India



Ministry of Housing
and Urban Affairs
Government of India

Grant Funded under RKVY-RAFTAR
by the Ministry of Agriculture and
Farmers Welfare, Government of
India.

Selected as a Technology Partner
Under AMRUT 2.0 Mission by Ministry
of Housing and Urban Affairs, Govt. of
India



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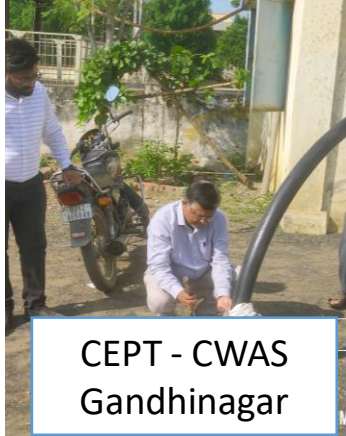
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Testing and Pilots of Bhujal App



Humana Pilot Harayana



CEPT - CWAS
Gandhinagar



Pune AMRUT 2.0 Project

Piloting



Gujarat Water Resources
Development Corporation (GWRDC)



Ground Water Surveys and Development
Agency, Maharashtra

Testing with State Ground Water Surveys and Development Agency



Pune



Bengaluru

Testing with Central Ground Water Board





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Applications in Ground Water Management

Mapping Ground Water Resources

- Bhujal App captures geolocations of borewells and helps map ground water sources across the city in a **cost effective and quick manner**.

Community Participation

- Bhujal App is a user friendly **multi lingual application** which is ideal for collecting ground water data through **crowd sourcing** (SHGs / community) across the city.

Monitoring Ground water usage

- Bhujal App captures **ground water levels in realtime**, and helps monitoring of ground water usage by creating **online digital platform**.

Identify Recharge Potential

- Bhujal App helps in **assessing criticality of wells** due to the impact of abstraction and recharge.

Conservation of Groundwater

- Bhujal App can help in devising **measures for recharge of borewells** and regulation of abstractions, based on criticality of wells.

Urban Aquifer Management Plan

- Bhujal App would help in **mapping aquifers** in Urban areas and developing Water Balance and Water Security Plans

Arrest Decline of Ground Water levels

- Collective use of Bhujal App will contribute in the arrest of declining ground water level and develop **ground water management and regulation mechanism for cites**

Achievement of SDGs

- Target 6.4 : Increase water use efficiency across all sectors
- Target 6.6b : Strengthen the participation of local communities in improving water management





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Media Coverage

Waterlab Solutions' Bhujal app helps monitor borewell water levels digitally

Vishwanath Kulkarni
Bengaluru

One can now assess the water level in a borewell by just tapping on the metal cap. Pune-based Waterlab Solutions has developed an app which helps measure the water level in the borewell within half-a-minute.

The Bhujal water monitoring apps works on the sonar technology, says Vijay Gawade, founder of Waterlab Solutions. "Every borewell is covered with a metal cap by default. One needs to tap the metal cap with a hammer or iron rod at an interval of two seconds. The echo generated



Vijay Gawade, Founder, Waterlab Solutions

government agencies among others with its app, which helps in better water management.

Waterlab Solutions was incubated at the National Institute of Agriculture Management, Jaipur and has received grants from the Ministry of Agriculture and Ministry of Housing and Urban Affairs. Also, the company was recently incubated by



Bhujal: Water level wizard

Ardhra Nair / TNN / Oct 27, 2023, 13:34 IST



Getting the measure of water in dams and other water bodies from the surface is easy, but doing the same for groundwater, even if there's a borewell, isn't. You need to drop a tape into the borewell, or use high-end digital water level recorders.



भूजल पातळी नियमितपणे जाणण्याची आवश्यकता

आपल्या घराच्या पाण्याची पातळी आपल्याला रोज आणि अगदी सहजाने समजली शकते-नाम सिंचनाचे नियोजन करताना पाण्याची पातळी जाणून घ्यायची. सामुदायिक पाण्याच्या भूजल पातळी जाणून घेण्यात नर आपल्या गावातील भूजल पातळी नियोजन करता येईल. हे माहितीपावने कृष्णासाठी मोबाईलवर भूजल हे अॅप उपलब्ध आहे.



असल्यास पातळी अचूकपणे अंदाज घ्यायला साध्या विविधतेने तक्रार पाठवा आहे. कृष्णासाठी विविधतेने तक्रार पाठवा पातळी नियोजन करताना पाण्याची पातळी जाणून घ्यायची. सामुदायिक पाण्याच्या भूजल पातळी जाणून घेण्यात नर आपल्या गावातील भूजल पातळी नियोजन करता येईल. हे माहितीपावने कृष्णासाठी मोबाईलवर भूजल हे अॅप उपलब्ध आहे.

नवीन आणि नुन्या विविधतेने पाण्याच्या पातळीची नोंद भूजल सर्वेक्षण व विकास संस्थेचे कर्मचारी दर काही काळावर घेतात करत असतात. मात्र आपण स्वतःच या नोंद घेण्यात नर आपल्या नियोजनसाठी मोठा फायदा होऊ शकतो. (संश्लेषण: साध्या)

STORY

WaterLabs Solution introduces 'Bhujal' – An App recognized by the Ministry of Agriculture and Farmers Welfare, Government of India

Narasimha Raju | 5 months ago



मोबाईलद्वारे जाणून घ्या बोअरवेलमधील भूजल पातळी; पुण्यातील स्टार्टअप कंपनीने आणलं खास अॅप

Bhujal App : बोअरवेलमधील भूजल पातळीचा अंदाज करण्याच्या उद्देशाने व्यवहार मंत्रालय, पुणे महानगरपालिका आणि बॉटलरॉब नावाच्या पुणेस्थित स्टार्टअप नेटवर्क | Updated: Jul 10, 2023, 05:16 PM IST



Home Subscribe Explained Politics India Cities Opinion

Vijay Gawade's startup WaterLab has developed a patented solution called Bhujal, which uses sonar technology to detect water levels in borewells.

Agriculture Nation

Pune's Innovative Groundwater Monitoring App Recognized by Indian Government



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About Waterlab

Waterlab Solutions is a start-up having diverse team of experts in areas of water, rural marketing and digital technologies. The Team at Waterlab Solutions brings individually more than three decades of extensive experience in water sector in India, South Asia and the Middle East. Waterlab provides advisory services and digital solutions that embed innovations of Internet of Things (IoT) with domain knowledge and provides customised solutions in Water and Ground Water Resource Management.

Waterlab Solutions recognizes growing challenges in groundwater management in developing countries and the need for data-driven management for groundwater management.

We believe that groundwater management should be taken to the lowest level by empowering borewell users and communities to plan and manage their own water resources in a sustainable manner. Based on the principle "what needs to be managed, needs to be measured", we are committed to empowering every individual to measure the groundwater resource and manage it efficiently.

About Bhujal Innovations

Water level remains the critical parameter for borewells to initiate water resources management. Bhujal Innovations will help borewell users to track water levels in a simplest and quickest way without requiring any sensors. Bhujal Innovations are the first of its kind in the world available on your mobile phone in standalone App and in an IoT variant. Bhujal Innovations can be used for borewells fitted with pumps inside and are useful for groundwater monitoring and developing advisories for sustainable groundwater management. It is important to note that Bhujal Innovation (Bhujal App) is patented now.

Active App Users

13,000 +
Downloads

6,000 +
Active Users

3,000 +
Farmers

Tested with Central Ground Water Board (CGWB), State Ground Water agencies & IIT Mumbai and certified by CWRDM, Kerala

