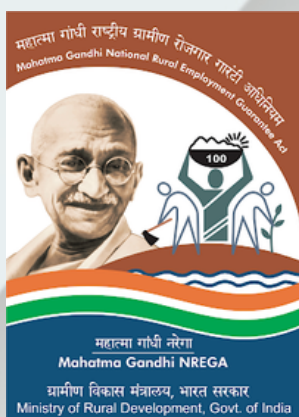




ग्रामीण विकास मंत्रालय
भारत सरकार
**MINISTRY OF RURAL
DEVELOPMENT**
GOVERNMENT OF INDIA

2022



JALDOOT MOBILE APP E- BROCHURE

The Ministry of Rural Development and Panchayati Raj have jointly developed JALDOOT Mobile App to capture the water level of selected 2-3 open wells in villages across the country. Gram Rojgar Sahayak (GRS) will measure the Water level and document the same at Central server using the Jaldoot mobile app.

<https://nrega.nic.in>



GRS can download Jaldoot mobile app
from: https://nrega.nic.in/Nregahome/MGNREGA_new/Nrega_home.aspx



WATER BUDGETING

Background

Ensuring adequate water availability and supply in the rural parts of the country is a National priority, and in this regard various water management measures such as watershed development, afforestation, waterbody development and renovation, rainwater harvesting etc are being promoted across all states. Despite these initiatives, the ground water level in various parts of the country has depleted precariously causing distress to the community in general. In order to observe the depleting water table on a significant scale, measurement of levels of water tables on extensive basis is necessary. However, compared to the vast size of the country, presently the number of places where the water table is monitored are very few.

The augmentation of ground water levels would require systematic measurement of the existing depths of ground water

levels on extensive basis throughout the rural landscape of the country.

At present CGWB monitors ground water levels in the country through nearly 23,000 monitoring wells which are spread across the country and has also proposed to additionally create 11000 Piezometers (monitoring wells) to improve the ground water monitoring activity during 2021-26,

However, involving larger number of measurements through the Panchayati Raj Institutions would be conducive to bringing evidence-based decision making related to water, which could go a long way in promoting appropriate water management and utilize practices.

In this regard, measures have to be taken by the States/UT's by involving the Gram Panchayats towards systematically collecting ground water level data and assimilation of the same in the central digital database for analysis.

<https://nregarep1.nic.in/jaldootweb/home.aspx>

Jaldoot

- The existing Gram Rojgar Sahayak(GRS) employed in Mahatma Gandhi NREGS work in a Gram Panchayat (GP) may be provided with the additional responsibility as 'Jaldoots' who will be entrusted with the responsibility of measuring the ground water levels at the selected locations in the villages. In case of absence of regular GRS for a GP, the Panchayat Secretary or Panchayat Secretary in -charge of that GP will be 'Jaldoot' for such GP.
- In every village, adequate number of measurement locations (2-3 open wells) need to be selected as samples of the ground water level in that village. Sample has to be taken up from open well rather than tube or bore well. The Jaldoots have to be facilitated to enter the measurement data of ground water levels through a mobile app twice in a year (pre-monsoon and post-monsoon). They should also upload the geo-tagged photographs through the app on every occasion of measurement.
- The ground water data would be utilised as part of the Gram Panchayat Development Plan (GPDP) and Mahatma Gandhi NREGA planning exercises. Further, the utilisation of this data will be by research, planning and other purposes can also be envisaged.

Water Level Measurements Criteria

- Few observation points (2-3 open wells) are chosen in every village in discussion with community and the ground water authorities which are treated as representative of aquifer status in the area which could both be in residential areas/ agricultural fields.
- For water level measurements at Panchayats, the measuring stations (wells) should be fixed (the same wells need to be monitored over a period of time). These would be open wells rather than tube or borewells.
- A few basic details like the depth of wells, diameter, its geo-coordinates etc are required to be collected as one-time information (static data)and conveyed to the central database.

<https://nregarep1.nic.in/jaldootweb/home.aspx>

Procedural Guideline

1. Manual monitoring of water levels in an open well are best done using a graduated steel tape with a metallic knob at one end, for reliable and accurate measurements. However, if the same is not available, a rope with markings, and with a weight tied to one end may be improvised for the purpose.
2. The measurement of the wells will be taken up twice in a year. One reading will be taken up prior to the monsoon season and another will be taken up after the monsoon season.
3. "A resource book for grassroots level functionaries- Jaldoots" which can be accessed at [http://cgwb.gov.in/\(JalDootResourceBook.pdf\)](http://cgwb.gov.in/(JalDootResourceBook.pdf)). This can serve as a source material for the trainers. In addition to this, specific guidelines for selection of monitoring stations, measurement of water levels, units of measurement, modes of reporting etc can also be prepared.
4. The data entry of the measurements can be facilitated with the help of a custom made mobile app in which specific formats are made available for data entry. The data so generated by Gram Panchayats can be integrated with the database of Gram Manchitra maintained by NIC of MoPR, or the National Water Informatics Centre (NWIC) for dissemination through a common platform, India-WRIS, being maintained by them after necessary validation. Multiple reporting formats for analysis and reporting of the data through app, SMS, website etc could also be developed, so that the status could be conveyed with ease for decision making.

<https://nregarep1.nic.in/jaldootweb/home.aspx>

Steps that Gram Rojgar Sahayak (GRS) has to follow to use JALDOOT Mobile app when visiting gram panchayat observation well.

Step 1 (a) :

GRS in every panchayat will be registered by block/Panchayat level officer on the portal

<https://nregarep1.nic.in/jaldootweb/home.aspx>

by entering their details. Login credentials will be sent to GRS via SMS.

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JalDoot Device Registration

Registered Device

S.No.	State	District	Block	Panchayat	Name	Phone	Designation	Delete
1	Uttar Pradesh	Aligarh	Baraut Aligarh	Baraut Aligarh	Shivam Test	Shivam Test Father	Mobile Dev	Delete
2	Uttar Pradesh	Azamgarh	Akroha	Alampur	Pawan Kumar Gupta	Pawan Father	Std	Delete
3	Uttar Pradesh	Ambikapur Nagar	Akroha	Alampur Akroha	Shivam	Shivam Father	Mobile Dev	Delete
4	Uttar Pradesh	Pratapgarh	Pratapgarh	Shankarpur	Rama Maurya	HR Maurya	Std	Delete
5	Uttar Pradesh	Bahraich	Bahraich	Amra Khaspur	Shilpa	Shilpa Father	Programmer	Delete

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Total visitors 88 now: 11

Step 1 (b):

If GRS is already registered, then they can simply download the app and use the mobile number for logging into the Jaldoot mobile app.



Step 2:

To capture the water level of a well, GRS has to go to a selected well and measure the water level of the well and take photographs of the well along with witnesses in the picture. Photographs will be taken on eyeblink to ensure the live photograph. This app will also capture date, time, and GEO coordinates of photograph and witness details.



<https://nregarep1.nic.in/jaldootweb/home.aspx>

Pre Monsoon measurements

2:22 PM

← Pre Monsoon

Well One

Well Name
Rani Well 9/50


Landmark
Near tree 9/50

Well Diameter Upto 18 feet
10 feet 6 inch

Depth of water level Upto 22 feet
10 feet 5 inch

Geo-Coordinates
28.6295273, 77.2185883

Well Image




2:22 PM

← Pre Monsoon

Geo-Coordinates
28.6295273, 77.2185883

Well Image



Name of Witness
Ram 3/50

Mobile Number of Witness
7895187949 10/10

Submit

Post Monsoon measurements

2:17 PM

← Post Monsoon

Well One

Well Name
Rani Well 9/50


Landmark
Near tree 9/50

Well Diameter Upto 18 feet
10 feet 6 inch

Depth of water level Upto 22 feet
21 feet 1 inch

Geo-Coordinates
28.6295281, 77.2185702

Well Image




2:18 PM

← Post Monsoon

Geo-Coordinates
28.6295299, 77.218575

Well Image



Name of Witness
Tarun 5/50

Mobile Number of Witness
9991166464 10/10

Submit

<https://nregarep1.nic.in/jaldootweb/home.aspx>

The regular data to be input by the Jaldoots would be integrated with the database of National Water Informatics Centre (NWIC) which can be utilised for analysis and display of various useful reports for the benefit of various stakeholders.

The mobile App is prepared to facilitate data entry by the Jaldoots. A dedicated dashboard is available wherein the details of the measurement of wells as well as the location and other dynamic activities would be captured and displayed for monitoring purposes.

Step 3

GRS has to repeat the same procedure (as in step 2) to capture water level for the 2nd well.



The screenshot shows the Jaldoot mobile app interface. The top status bar displays the time as 2:49 PM and battery level at 100%. The app is in the 'Select Area' screen, which shows the following details:

- State/UT: Uttar Pradesh
- District: Agra
- Block: Barauli Ahir
- Gram Panchayat: Barauli Ahir

Below this, there is a 'Select Village' section with a dropdown menu showing 'Barauli Ahir'. The bottom section is titled 'Select Well' and contains two buttons: 'Well One' and 'Well Two'.

Step 4

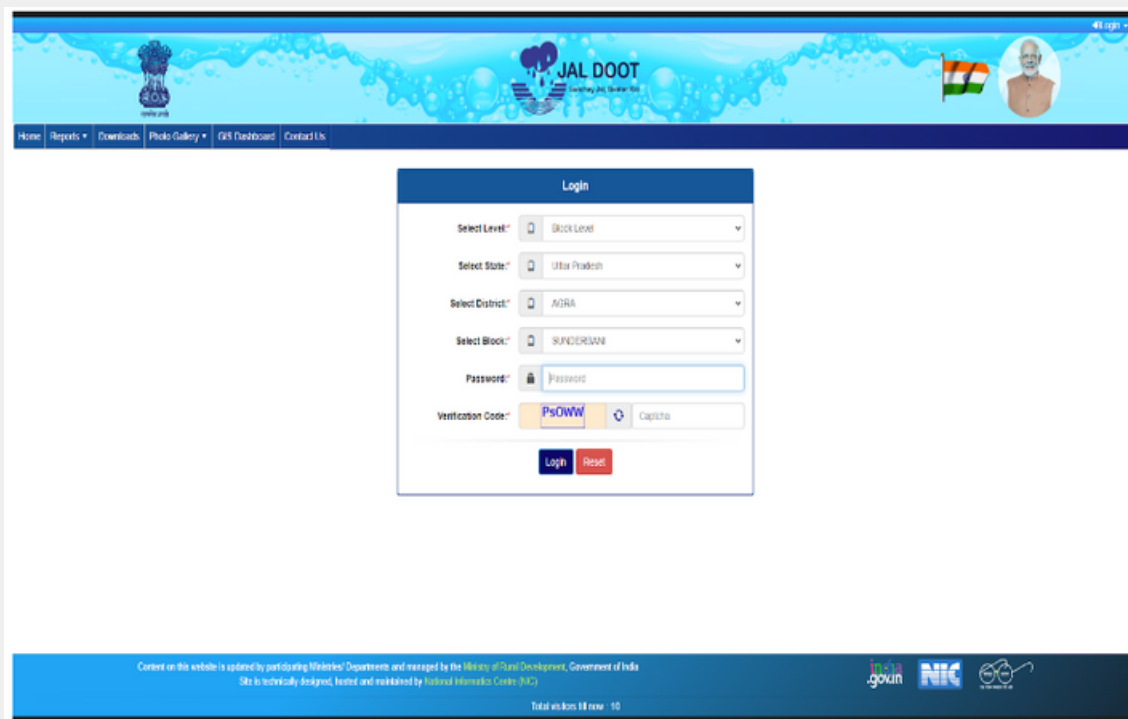
The water level will be measured from 1st may to 31st may as pre-monsoon water level and from 1st oct to 31st oct for post-monsoon water level for the same well.

Step 5

This mobile app will work in both online and offline mode. So, water level can be captured even without internet connectivity and captured data will be stored in mobile and when mobile comes in the connectivity area, data will synchronize with the central server.

<https://nregarep1.nic.in/jaldootweb/home.aspx>

i. Registration of GRS or any other person authorized to capture the water level of selected 2-3 open wells in a village.



JAL DOOT
Surveying JAL Doots

Home | Reports | Downloads | Photo Gallery | GRS Dashboard | Contact Us

Login

Select Level:

Select State:

Select District:

Select Block:

Password:

Verification Code:

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Total visitors till now : 10



JAL DOOT
Surveying JAL Doots

Home | Device Registration

login:AS : State User: Uttar Pradesh

JalDoot Device Registration

District:

Block:

GP:

Name:

Father Name:

Designation:

Mobile No.:

Gender: ☐ Male ☐ Female

Registered Device

S No.	State	District	Block	Panchayat	Name	PName	Designation	Delete
1	Uttar Pradesh	Agra	Beraul Atri	Beraul Atri	Shivam Test	Shivam Test Father	Mobile Dev	Delete
2	Uttar Pradesh	Azamgarh	Atraula	Alampur	Pawan Kumar Gupta	Pawan Father	Std	Delete
3	Uttar Pradesh	Ambedkar Nagar	Arbajpur	Alampur Akhai	Shivam	Shivam Father	Mobile Dev	Delete
4	Uttar Pradesh	Prayagraj	Pratapgarh	Shahdaspur	Nama Maurya	Hi Maurya	Std	Delete
5	Uttar Pradesh	Bahraich	Bahraich	Amara Hussainpur	Shipsa	Shipsa Father	Programmer	Delete

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<https://nregarep1.nic.in/jaldootweb/home.aspx>

Registered Device for Jaldoot-Report

S.No	Location	No. of Register Device
1	AGRA	1
2	AMBEDKAR NAGAR	1
3	ANANDGARH	1
4	BAHUBALI	1
5	BAHUBALI	1
6	BAHUBALI	1

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Total Values All now: 10

v The report section of the dashboard will provide the details captured by GRS and analytics over change in water level.

Water Level Report

#	State/UTs	No. of Village	No. of Well Covered	Changes in Water Level			
				1-2 Feet	3-5 Feet	6-10 Feet	> 10 Feet
1	Andhra Pradesh	27661					
2	Chhattisgarh	152					
3	Madhya Pradesh	3535					
4	Uttar Pradesh	5763					
5	Uttarakhand	184					
6	Rajasthan	145					
7	Gujarat	2185					
8	West Bengal	41817	1				
9	West Bengal	27663					

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Total Values All now: 10

<https://nregarep1.nic.in/jaldootweb/home.aspx>

Frequently asked Questions (FAQs) on JALDOOT Mobile App

- **What is JALDOOT Mobile App?**

JALDOOT mobile app has been developed to capture the water level of wells in villages for pre-monsoon and monsoon season.

- **Who can use JALDOOT Mobile App?**

Admin at center or state can register users at Gram Panchayat level. Registered users at GP level can capture well water level for all villages under that GP.

- **What is pre-monsoon and monsoon season?**

Admin at state or center level must set period for Pre-Monsoon and Monsoon in every calendar year.

- **How will admin add pre-monsoon and monsoon period?**

Admin at state or center have to login into the web portal <https://nregarep1.nic.in/jaldootweb/Home.aspx> and select Pre-monsoon and monsoon period.

<https://nregarep1.nic.in/jaldootweb/home.aspx>

Frequently asked Questions (FAQs) on JALDOOT Mobile App

- **How will admin register users at GP level?**

After login into the web portal <https://nregarep1.nic.in/jaldootweb/Home.aspx> admin can register users for selected district, Block, GP. Other details like Name, Father name, designation of user, Mobile number will also require.

- **How can someone download JALDOOT Mobile App?**

JALDOOT mobile app can be downloaded from <https://nregarep1.nic.in/jaldootweb/Home.aspx> or from download mobile app section at https://nrega.nic.in/Nregahome/MGNREGA_new/Nrega_home.aspx

- **What all the fields' users at GP level will capture in the mobile app?**

Users at GP level will capture require village name, Season for which details is being captured (monsoon or Pre-monsoon), Well details (i.e well name, landmark, well diameter, Geo-Coordinates), depth of water level and well image.

- **What all type of reports available?**

Water level report, Monsoon Report and Registered user report are available publicly at JALDOOT web portal <https://nregarep1.nic.in/jaldootweb/Home.aspx>.

<https://nregarep1.nic.in/jaldootweb/home.aspx>



Ministry of Rural Development and Panchayati Raj Government of India

GRS can download Jaldoot mobile app from:

https://nrega.nic.in/Nregahome/MGNREGA_new/Nrega_home.aspx

