



# GROUNDWATER

## Making visible, the fast depleting invisible



## GIS/Remote Sensing based assessment

The current & historical spatial distribution of rainfall, groundwater fluctuations & other groundwater dynamics are being analyzed using GIS

## Four GPs, 19 villages & multiple stakeholders

Participatory assessment is important to us. We are engaging with nearly 70 farmers from each Gram Panchayat (GP), the GP staff, officials from various Line Departments & Stakeholder Departments



Groundwater— a critical part of the Earth system, supplies water to billions of people, plays a central part in irrigated agriculture and influences the health of many ecosystems. There is an urgent need to augment the groundwater through suitable management interventions.

Together with the Rural Development & Panchayat Raj Department (RDPR), GoK, we are putting the spotlight on this invisible resource and evaluating the impact of Natural Resource Management (NRM) assets created under MGNREGS on groundwater recharge. As the technical and evaluation agency we are building the impact assessment on the past three years of work by the Commissionerate, MGNREGA, RDPR.

In the year of groundwater, while we study some of the most groundwater stressed taluks in the State, we are also sharing conversations and resources, increasing awareness and understanding the perspectives of the people from the field on groundwater challenges and opportunities.

Taking a socio-hydrology approach, our assessment is backed by sound data and multi-stakeholder key informant interviews. A multidisciplinary team from our end is currently on ground, mapping & monitoring the identified areas, speaking to stakeholders, assessing models of sustainable resource use & doing much more. Now, it's more important than ever to keep the momentum going.

Gram Panchayat:	FORMAT-5: Irrigation details from WRD/MI/ PRED									
	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10
Irrigation source and area in ha										
Canal										
Well										
Other (P) specify										
Total										
Water lifting sources (Nos)										
Hand pump										
Trifugal pump										
Hand pump										
Other (P) specify										

## Over ten different formats to collect data

Extensive primary & secondary data is collected from farmers, Gram Panchayats & Line Departments for assessment purposes. A survey app has also been created to capture farmers' data

## Data-Driven Water Budgets

We would also be working on preparing water budgets at the Gram Panchayat level to ensure more efficient use of water. The data for supply side measurements and the demand side calculations is being worked upon to arrive at budgeting accordingly

