

# CASE STUDY

## IOT case study for Ground Water Investigation Monitoring System

### Goal

Central Ground Water Board wanted to develop a complete solution on Exploration Programme Monitoring System (EXPROMS) & Ground Water Investigation Monitoring System (GWIMS). They wanted to create a unique mobile app and web based analytics portal with user management on Exploration program monitoring system (EXPROMS) & ground water investigation monitoring system (GWIMS) and devising programme for performance assessment system through balance scorecard approach. Basically the Client was looking for the live tracking water progress.

### IMPLEMENTATION:

As per the requirement of CGWB, the mobile application for live tracking progress of the work in all units throughout INDIA; including web-based analytics dashboard to provide decision making reports was implemented. So ADG Online Solution used :

- ▶ Mobile app to track geo location based data feeding and Artificial Intelligence for generating live analytic reports for quick decision making.
- ▶ Created the app and web based analytics portal with user management on exploration programme monitoring System (EXPROMS) and Ground Water Investigation Monitoring System (GWIMS) for Central Ground Water Board.
- ▶ The app included devising programme for performance assessment system through balance scorecard approach for Central Ground Water Board.

So, an innovative application was created for the internal use of CGWB, categorizing it in four different parts which were

- Pin Point,
- Progress,
- Rig Operation Data
- Well Construction Data

To simplify this a little more we created sub-headings under Pin point where the team can mention the region, division, state, district, RIG Unit and type of well. We also offer an option of uploading the picture of the well.

### RESULT:

The Results were sparkling, the hard work payed off and ADG Online Solutions was successful in creating this mobile app where they were able to help the team to generate different reports like:

- Number of RIGs,
- Progress report,
- Financial report,
- Fuel consumption report and
- Machine activation report.

This also helped in cost deduction and improved twice the overall performance of the team. Further, achieved the four component of the application which was:

- Pinpointing of site
- Start or End Data
- Depth From and Depth to Data
- Day Wise Data

