



Sahara Groundwater

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Director, Sahara Groundwater
Kannur, Kerala



GROUNDWATER SURVEY, REPORT

Customer Name : XYZ

Site Location : **Onakkoor, muvattupuzha Taluk, Ernakulam district, Kerala, 686667**

Survey Date : **xx-xx-xxxx**

Chances water : **Good chance for Bore well at point 7.**

Rock Depth : **30 meter**

Maximum Depth : **270 meter**

Primary Site Survey

Using Bhuvan GWIS's Ground Water Prospects and Quality Information System

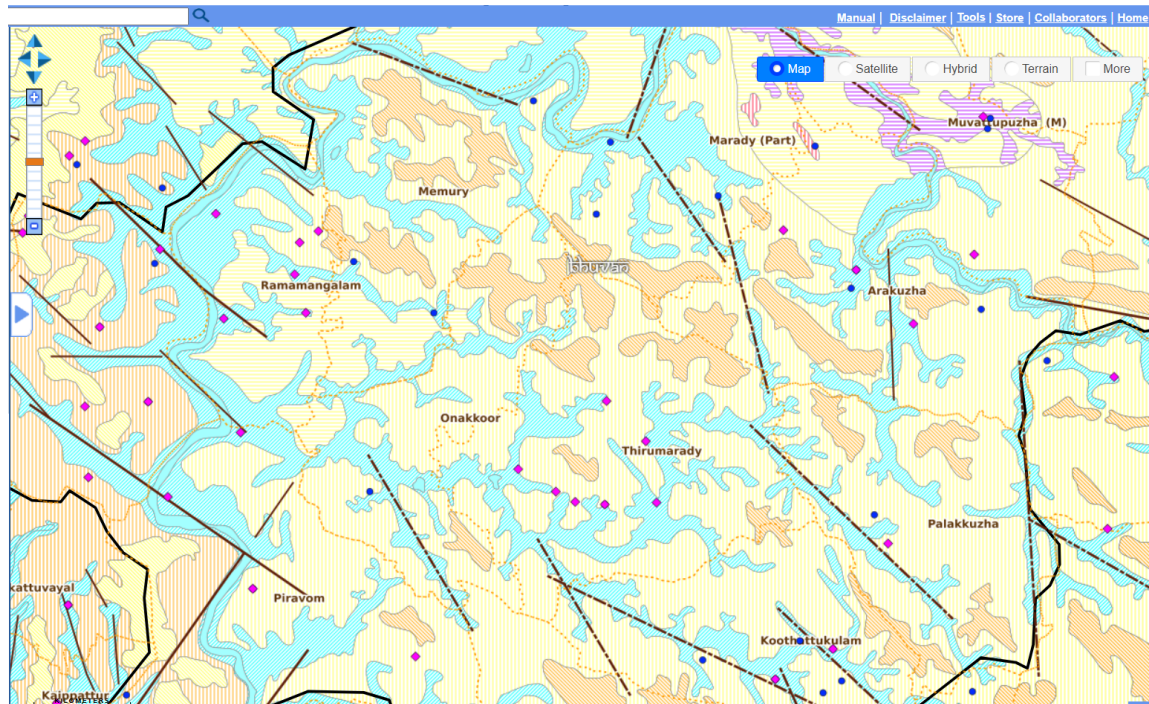
from <https://bhuvan-app1.nrsc.gov.in/gwis/> Carried out on **26-10-2021**

Scope of Ground Water Prospects Maps

Ground water prospects maps may be used by the field Officers of the departments concerned in the respective states to select the sites at appropriate places.

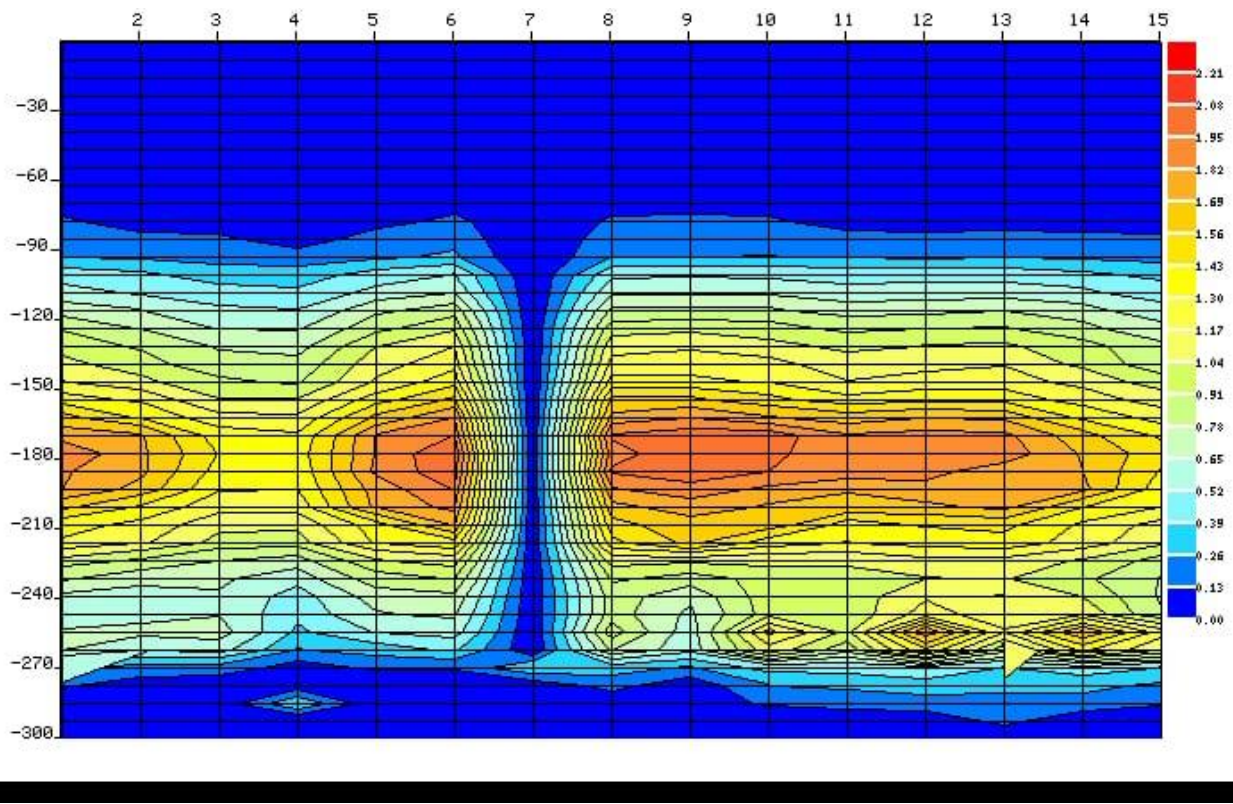
- It helps mainly in identification of prospective zones for narrowing down targets for follow-up detailed hydro-geological and geophysical surveys at appropriate places for drilling.
- These maps are the good inputs for aquifer mapping. One of the inputs for resource estimation for future ground water development for the given area.
- This map can be used for locating recharge structures on the ground.
- The maps are prepared based on the availability of recharge conditions i.e. rainfall, depth to water table, availability of water in the water bodies during the period of the mapping. Hence depth and yield will vary.
- VIBGYOR colour scheme is maintained for indicating yield and hatching pattern for depth. It does not mean that the entire polygon gives the same yield but it varies within the unit due to heterogeneity. Hence sometimes yield may go one step up or down. It is because of rainfall variations.
- Maps help in identifying the ground water exploitation areas (through groundwater irrigated patches) for addressing the suitable recharge structures for improving the ground water levels.
- Groundwater Quality (GWQ) point observations represent the 'Pre and Post Monsoon' water quality of that habitation.

01. Ground water prospects map for Specified Location

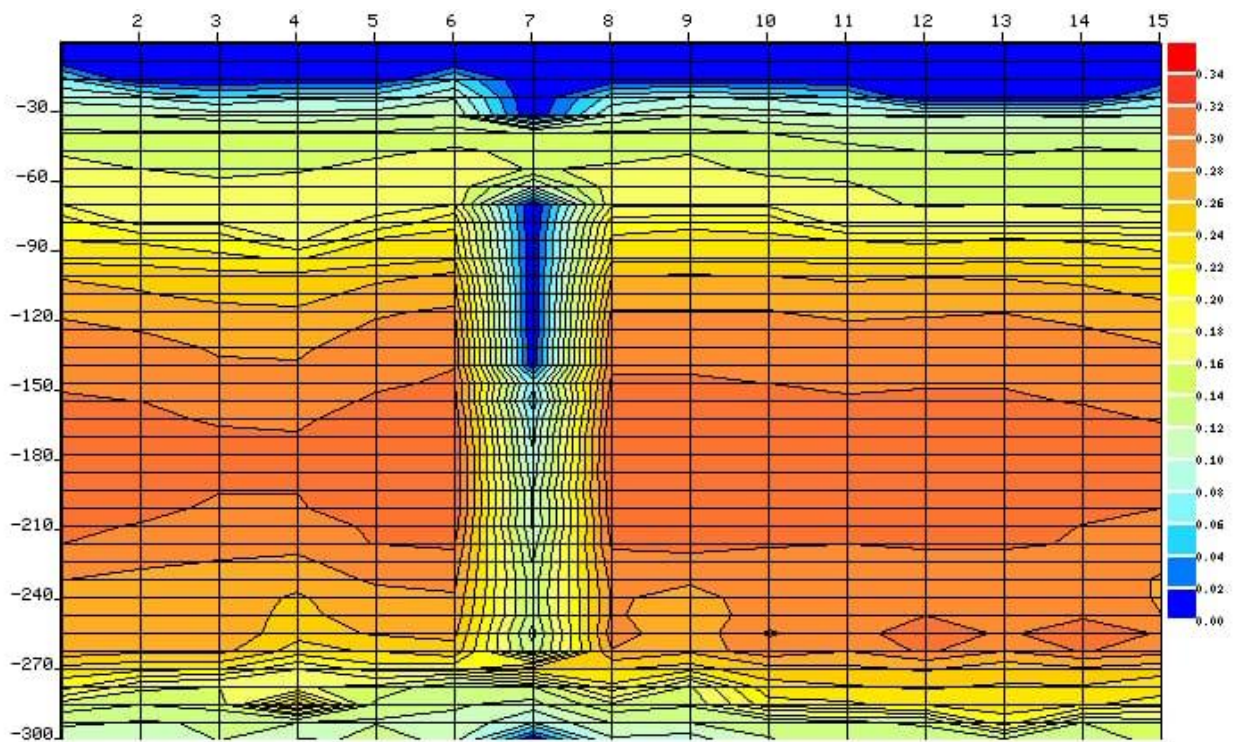


Site Survey

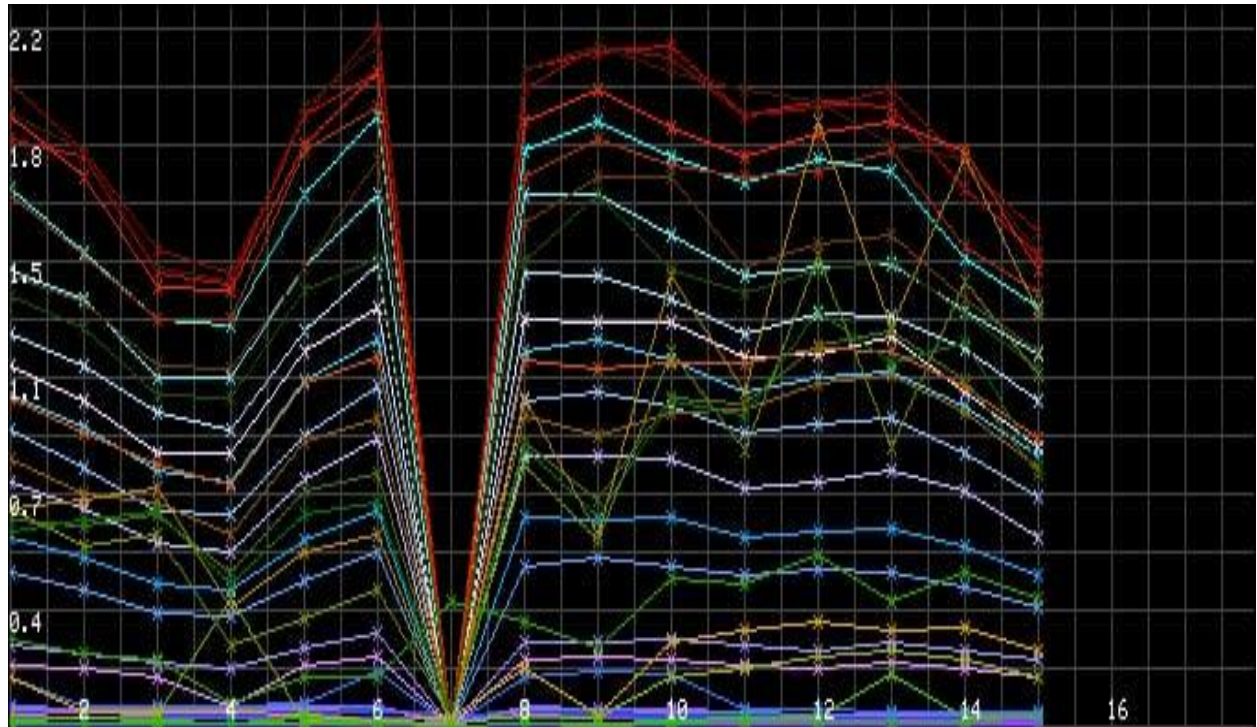
01. Original Profile Map



02. Processed Profile Map



03. Line Graph



Summary

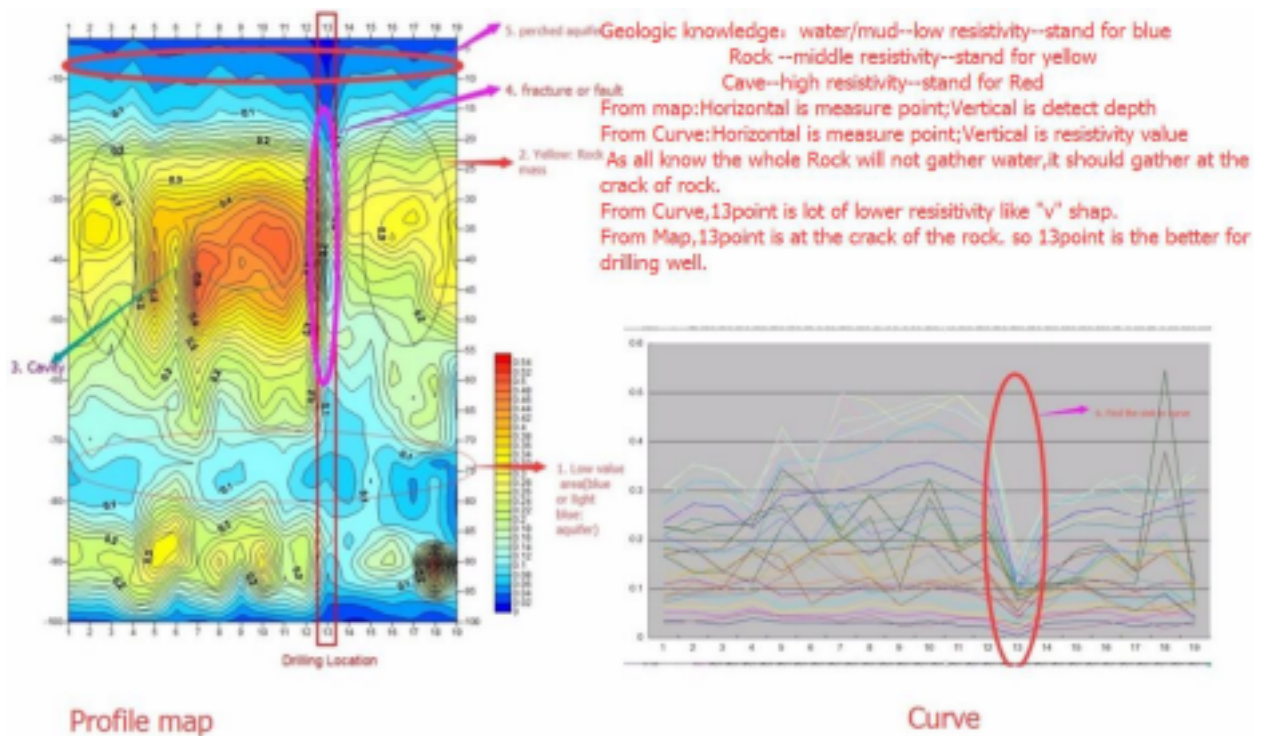
Geological and geophysical topographic analysis done over the sight.

We used multiple frequency devices for exploration. As per the resistivity survey found hard rock 30 meter depth for the mentioned area.

End of the summer season chances to decrease the water zone. Advised to recharge the water using rain water harvesting system to avoid the dry conditions of the well.

As per the data the total porosity and permeable factors and other parameters supporting 97% chances to get the mentioned water zone.

Reference for Analyzing the Graph



* Important - Kindly note

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- (A) The above report contains the information obtained by ground water survey in the above mentioned location. As our terms and conditions say this report is accurate 95 % according to the devices we use. Errors occurred during site survey, errors occurred by climatic conditions may contains in above report

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Jaison Joseph

Director, Sahara Groundwater