

The regional office of CGWB, NER is located in Guwahati. Currently under the Regional Office NER, Guwahati, there are 3 State Unit Offices (SUOs) at Shillong, Agartala and Itanagar. The drilling operation in NER is being operated by Division VII under CGWB, NER.



EXPLORATION

NAQUIM 1.0 & 2.0

CGWA

PMKSY-HKGP-GW

PUBLICATIONS

REGIME MONITORING

RESOURCE ESTIMATION

WATER QUALITY STUDIES

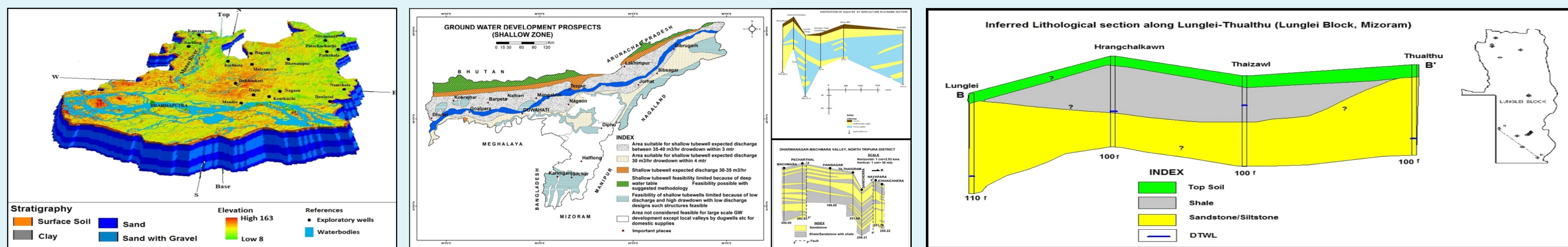
GEOPHYSICAL STUDIES

TRAINING & IEC ACTIVITIES

## NATIONAL AQUIFER MAPPING (NAQUIM)

The main objectives of NAQUIM studies in NER

- Aquifer delineation at 1:50,000 scale in 2D & 3D
- Identification of Vulnerable Zones for use
- Demand side Management of Aquifers
- Identification of Contaminants Zone
- Currently CGWB NER is also carrying out seven studies under NAQUIM 2.0 in Urban Area, Industrial Cluster, Poor Ground Water Quality Area and Spring Studies.



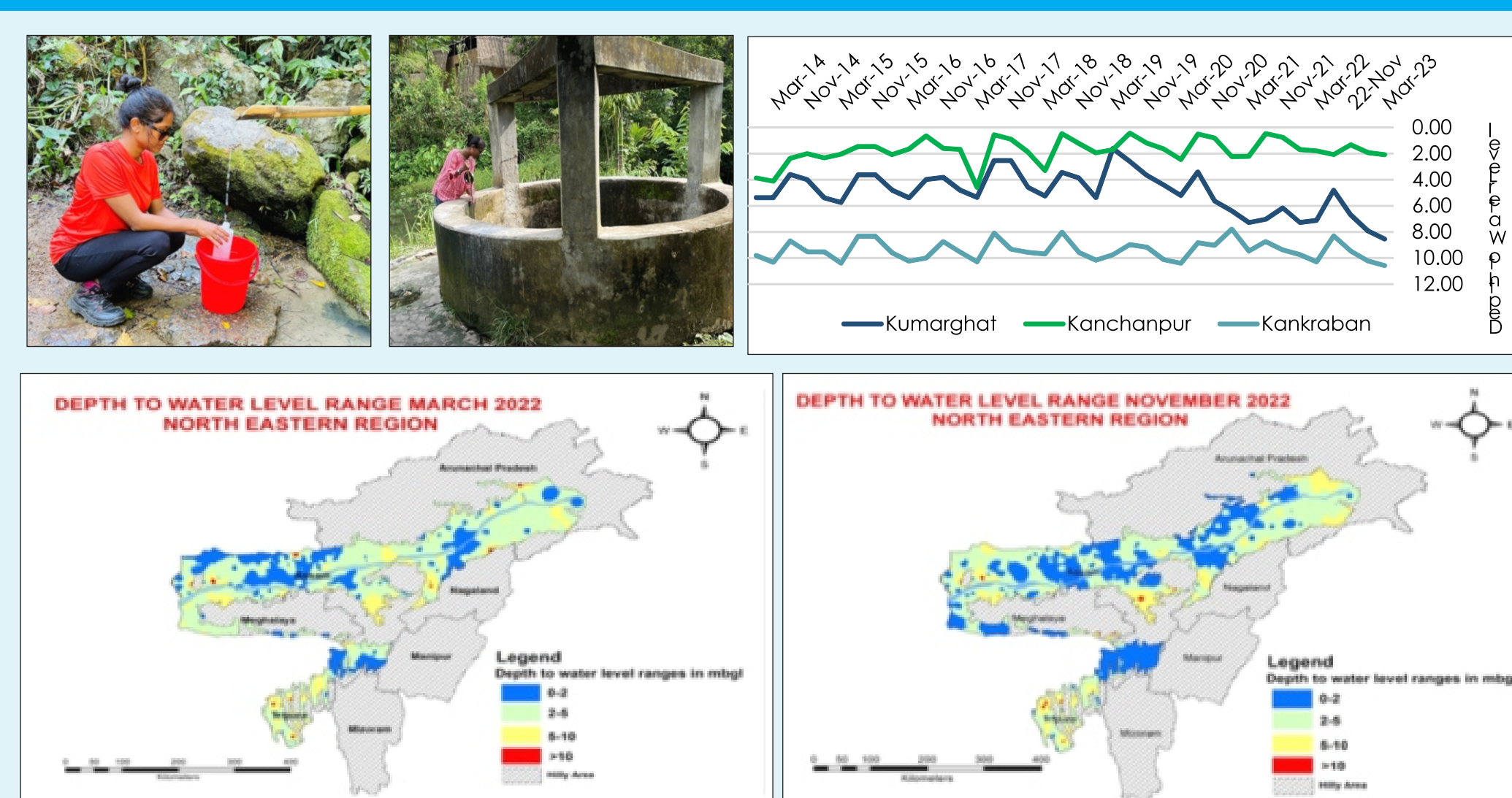
| Ground Water Exploration in NER, till Date |     |     |    |    |    |       |     |
|--------------------------------------------|-----|-----|----|----|----|-------|-----|
| STATE                                      | EW  | OW  | Pz | SH | DW | Total | VES |
| ARUNACHAL                                  | 42  | 11  | 1  | 0  | 2  | 56    | 364 |
| ASSAM                                      | 460 | 214 | 51 | 11 | 39 | 775   | 54  |
| MANIPUR                                    | 26  | 11  | 0  | 0  | 5  | 42    | 14  |
| MIZORAM                                    | 3   | 3   | 0  | 0  | 0  | 6     | 16  |
| MEGHALAYA                                  | 144 | 42  | 1  | 0  | 2  | 189   | 0   |
| NAGALAND                                   | 10  | 4   | 1  | 0  | 6  | 21    | 0   |
| TRIPURA                                    | 55  | 30  | 0  | 0  | 28 | 113   | 21  |
| TOTAL                                      | 740 | 315 | 54 | 11 | 82 | 1202  | 469 |

## EXPLORATION

In NER around 1202 wells have been drilled and pumping tests conducted. Around 500 numbers of high discharge wells have been handed over to the State departments for public use.

## REGIME MONITORING

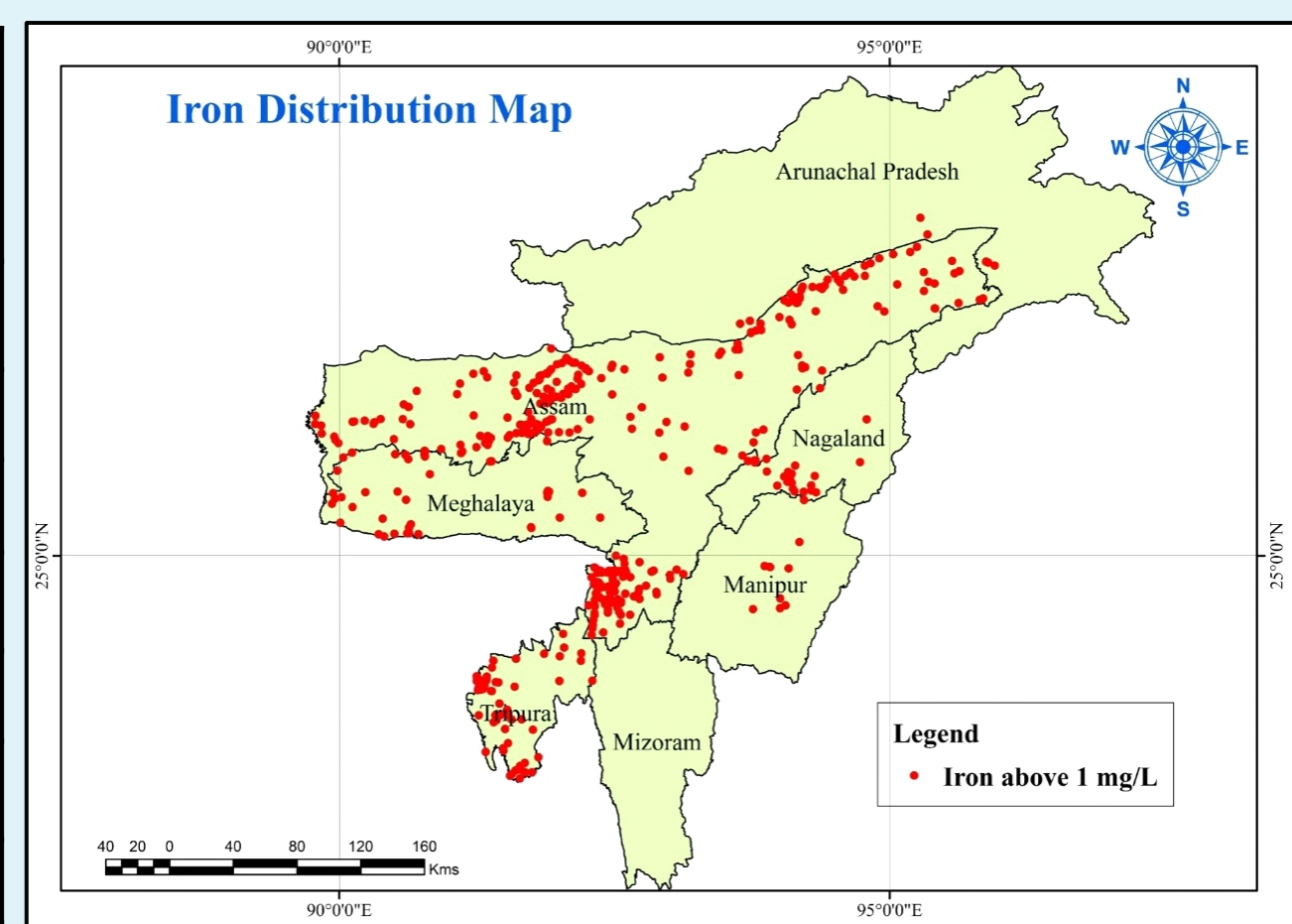
Ground water level monitoring is carried out 4 times a Year (NHNS) and for Urban areas on monthly basis. Now with DWLR installation, measurement is taken 4 times a day . Water Sampling is carried out mainly during the Pre Monsoon season. Recently monitoring of some selected springs has also been started in NER.



| STATE     | NHNS     |    |       | Urban    |    |       | Grand Total |
|-----------|----------|----|-------|----------|----|-------|-------------|
|           | Dug Well | Pz | Sprng | Dug Well | Pz | Sprng |             |
| ARUNACHAL | 28       | 4  | 32    | 7        | 0  | 7     | 39          |
| ASSAM     | 346      | 84 | 7     | 437      | 40 | 14    | 498         |
| MANIPUR   | 2        | 0  | 2     |          |    |       | 2           |
| MEGHALAYA | 60       | 13 | 11    | 84       | 6  | 2     | 92          |
| MIZORAM   | 3        | 0  | 3     |          |    |       | 3           |
| NAGALAND  | 11       | 1  | 12    |          |    |       | 12          |
| TRIPURA   | 96       | 19 | 115   | 10       | 4  | 0     | 129         |



| STATES    | IRON AFFECTED DISTRICTS | TOTAL DISTRICTS |
|-----------|-------------------------|-----------------|
| Arunachal | 4                       | 25              |
| Assam     | 23                      | 33              |
| Manipur   | 3                       | 16              |
| Meghalaya | 6                       | 11              |
| Nagaland  | 5                       | 12              |
| Tripura   | 8                       | 8               |
| Mizoram   | Nil                     | 11              |



## WATER QUALITY STUDIES

Water Quality Analysis for Pre-monsoon is done through a Network of approx. 685 Network Stations. Total number of samples analyzed per Year are about 3500 (including Basic & Heavy Metals). Sporadic occurrence of Arsenic and Fluoride has been reported in the isolated pockets of Assam and Tripura.

## GEOPHYSICAL STUDIES

The Geophysical team of NER has conducted VES Survey of 469 stretches using SSR MP1 and SSR MP-ATS Resistivity meter to identify the groundwater potential zone and subsurface lithology. Logging of borehole has been done using Resistivity logging (N16, N64), SP and Gamma logging to delineate different potential zones.

