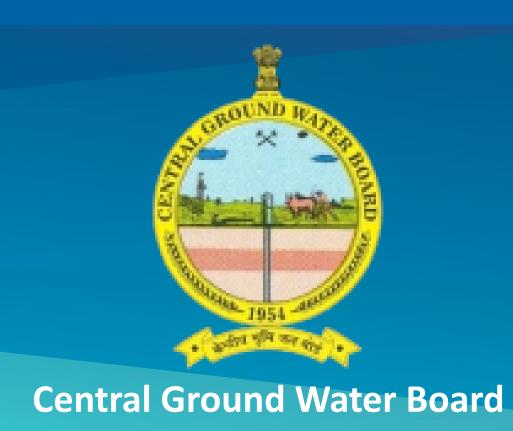
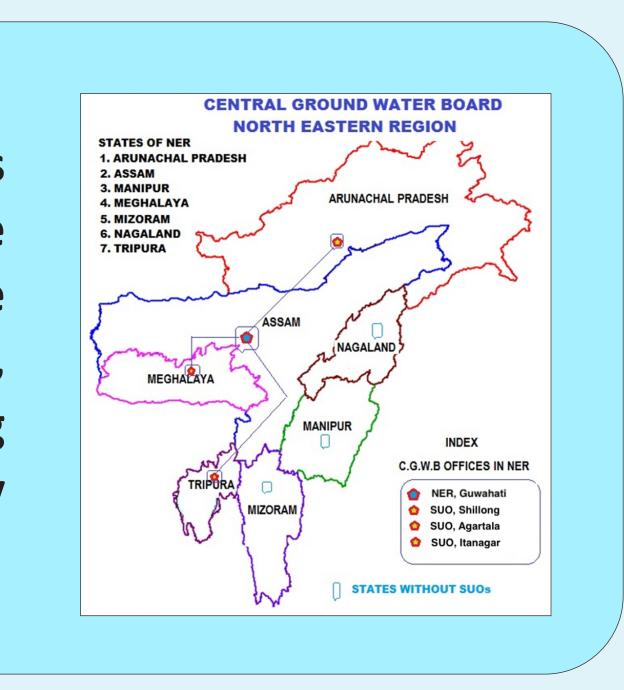


ACTIVITIES OF CGWB IN NORTH EASTERN REGION



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-HKKP-GW

PUBLICATIONS

REGIME **MONITORING**

RESOURCE ESTIMATION

WATER QUALITY STUDIES

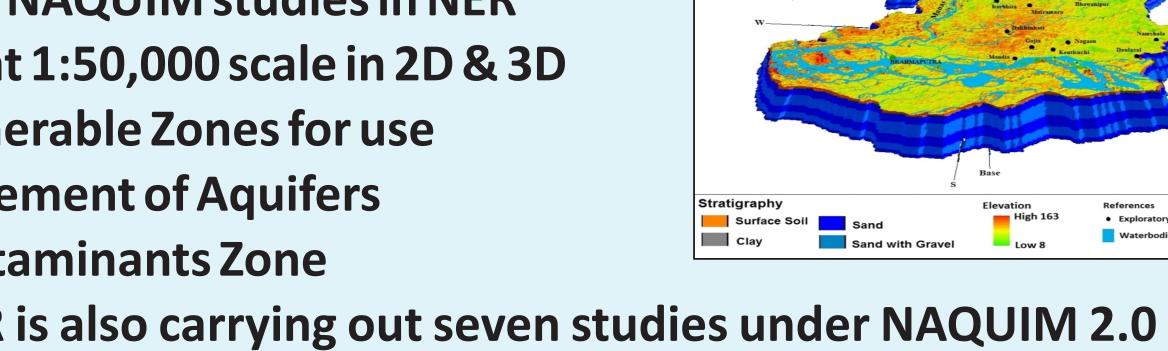
GEOPHYSICAL STUDIES

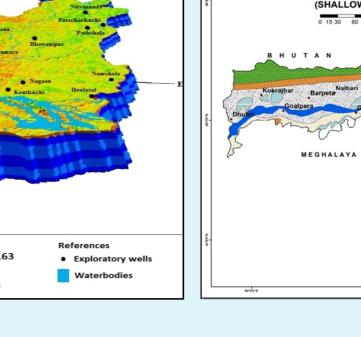
TRAINING & IEC ACTIVITIES

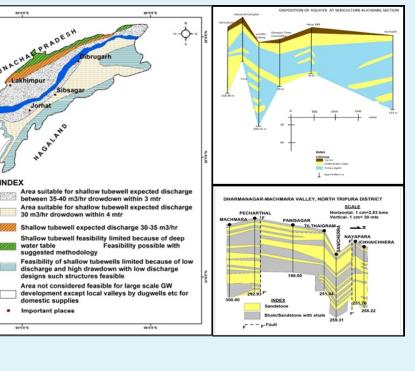
NATIONAL AQUIFER MAPPING (NAQUIM)

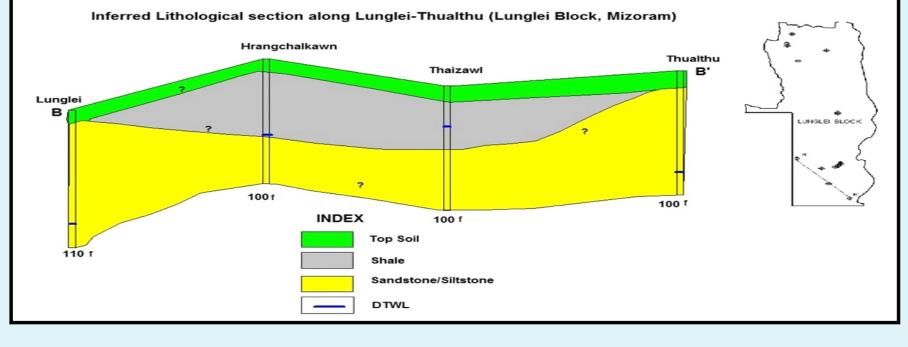
The main objectives of NAQUIM studies in NER

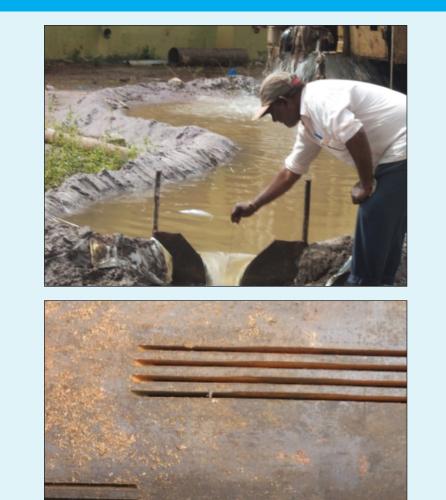
- Aquifer delineation at 1:50,000 scale in 2D & 3D
- Identification of Vulnerable Zones for use
- Demand side Management of Aquifers
- Identification of Contaminants Zone
- Currently CGWB NER is also carrying out seven studies under NAQUIM 2.0 in Urban Area, Industrial Cluster, Poor Ground Water Quality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



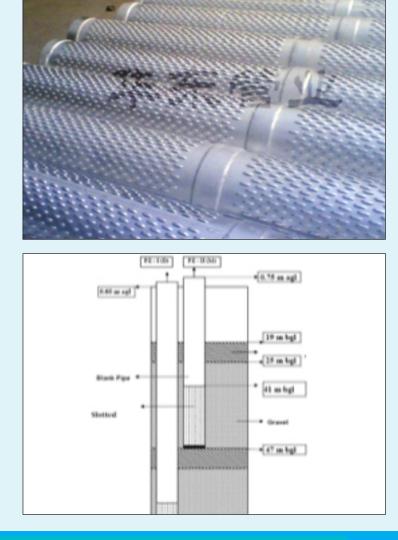












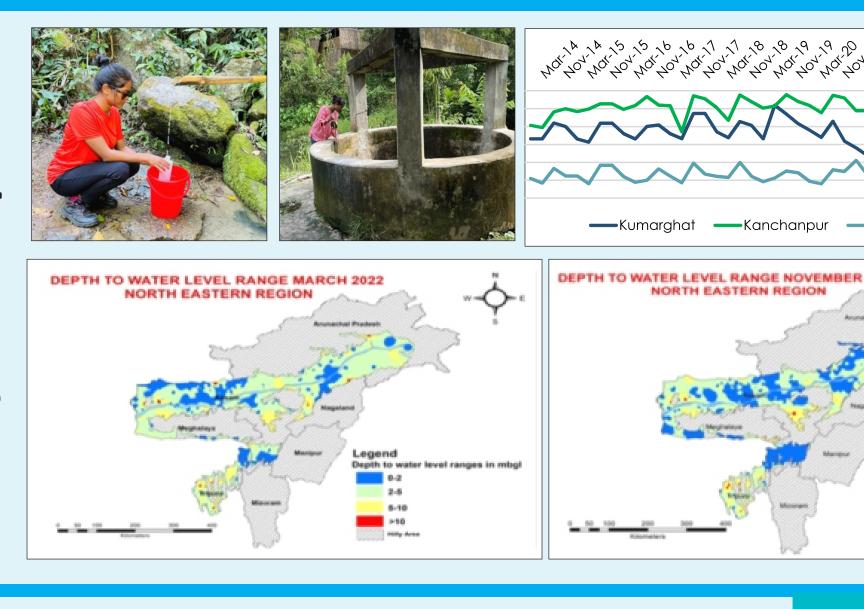
STATE ARUNACHAL	EW 42	ow	Pz	SH	DW		1.7	
ARUNACHAI	42				DW	Total	VES	
AITOTATIAL		11	1	0	2	56	364	
ASSAM	460	214	51	11	39	775	54	
MANIPUR	26	11	0	0	5	42	14	
MIZORAM	3	3	0	0	0	6	16	
MEGHALAYA	144	42	1	0	2	189	0	
NAGALAND	10	4	1	0	6	21	0	
TRIPURA	55	30	0	0	28	113	21	
TOTAL	740	315	54	11	82	1202	469	

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.

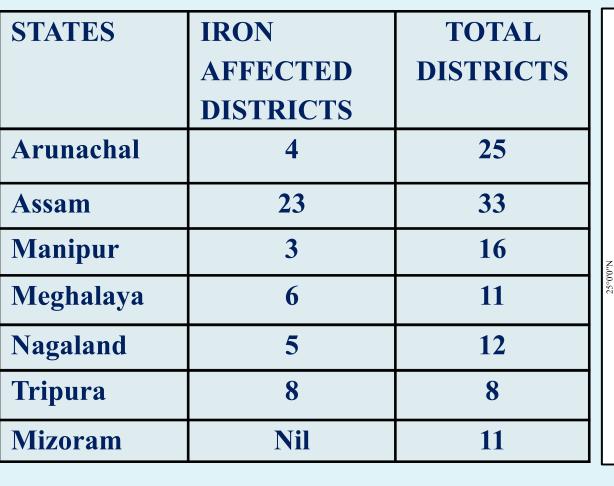
REGIME MONITORING

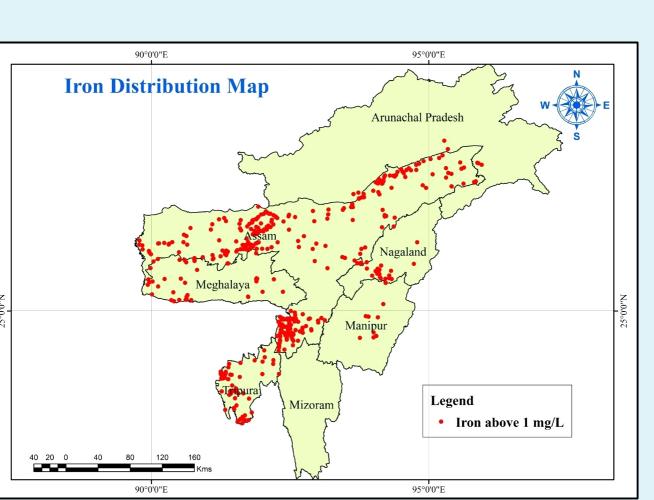
Ground water level monitoring is carried out 4 times a Year (NHNS) and for Urban areas on monthly basis. Now with DWLR installation, measurement is taken 4 times a day. Water Sampling is carried out mainly during the Pre Monsoon season. Recently monitoring of some selected springs has also been started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



		NH	NS			Grand			
STATE	Dug Well	Pz	Spri ng	Total	Dug Well	Pz	Sprin g	Total	Total
ARUNACHAL	28	4		32	7	0	0	7	39
ASSAM	346	84	7	437	40	14	7	61	498
MANIPUR	2	0		2					2
MEGHALAYA	60	13	11	84	6	0	2	8	92
MIZORAM	3	0		3					3
NAGALAND	11	1		12					12
TRIPURA	96	19		115	10	4	0	14	129





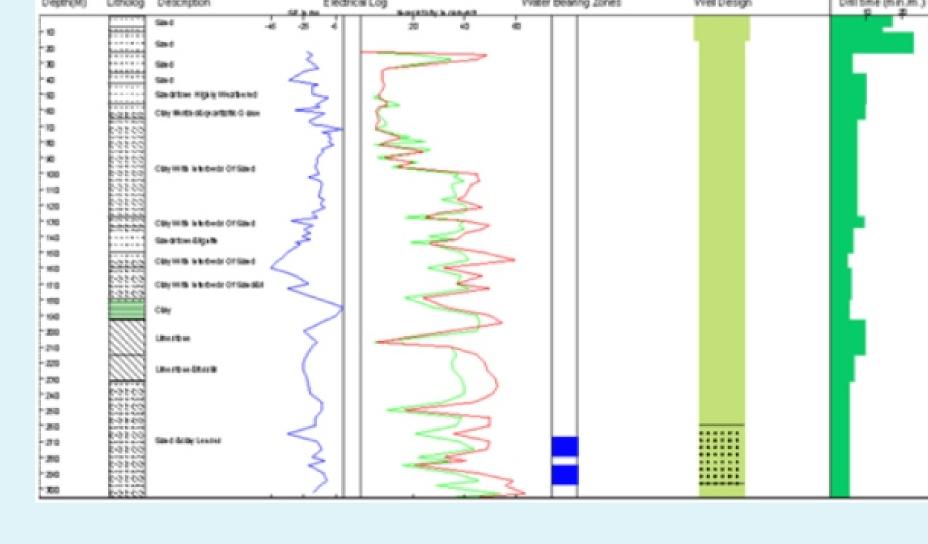


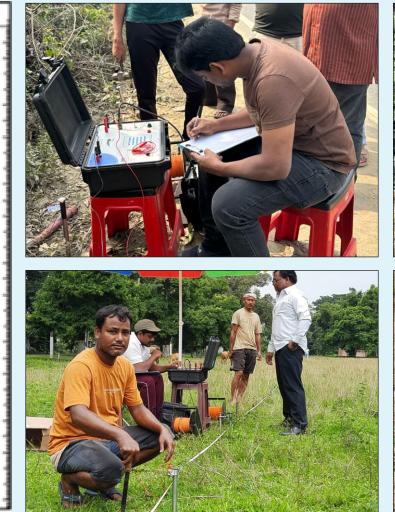
WATER QUALITY STUDIES

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

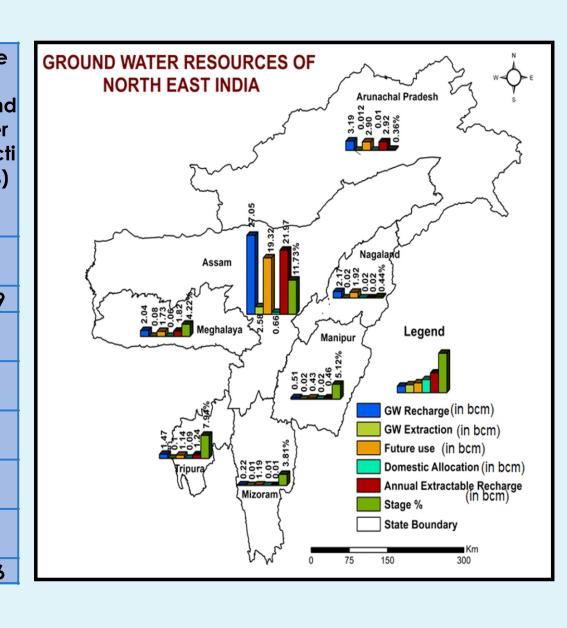
The Geophysical team of NER has conducted VES Survey of 469 stretches using SSR MP1 and SSR MP-ATS Resistivity meter to identify the groundwater potential zone and subsurface lithology. Logging of borehole has been done using Resistivity logging (N16, N64), SP and Gamma logging to delineate different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

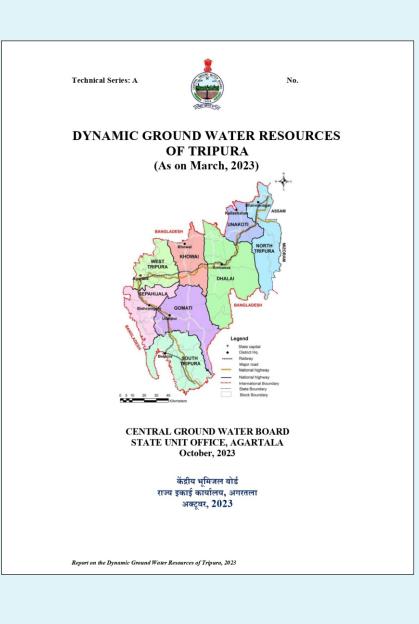






	S .	States / Union	Aiiio	Total	Annual	Current	Annual G	Annua		Stage		
N	0	Territories	al GW Rech arge	Natur al Disch arges	ble Ground	Irrigation	Extracti Industrial		Total	for Dome stic use as on 2025	future use	of Ground Water Extract on(%)
	1	ARUNACHAL PRADESH	3.19	0.35	2.84	0.01	Negligibl e	0.01	0.02	0.01	2.82	0.61
	2	ASSAM	29.17	6.51	22.66	2.06	0.01	0.55	2.63	0.58	20.01	11.59
,	3	MANIPUR	0.51785	0.051 79	0.466065	0.01695	0.00024	0.02006	0.037 25	0.0202	0.41918	7.99
	4	MEGHALAYA	1.83	0.32	1.51	0.02	Negligibl e	0.04	0.07	0.05	1.43	4.58
ļ	5	MIZORAM	0.22	0.02	0.2	Negligible	Negligibl e	0.01	0.01	0.01	0.19	3.7
	6	NAGALAND	0.6	0.06	0.54	Negligible	Negligibl e	0.02	0.02	0.02	0.52	3.76
	7	TRIPURA	1.36	0.264	1.09	0.03	Negligibl e	0.08	0.11	0.09	0.98	9.92
		TOTAL	36.888	7.576	29.306	2.137	0.010	0.730	2.897	0.780	26.369	9.886





RESOURCE ESTIMATION

Estimation of Ground Water Resources based on the Recommendations of Ground Water Estimation Committee (GEC) – 2015 is done every year starting from 2022. Except Urban Guwahati, all the assessment units in NER are in Safe Category.

PMKSY-HKKP-GW

Based on NAQUIM studies and GW Resources, a flagship programme PMKSY-HKKP-GW under MoJS have been successfully implemented in 6 states of NER, bringing large number of farmers under assured irrigation

		Physical Pro	ogress of the	Projec	ts under PM	KSY-HK	KP-GW Sc	heme (As	on31 Aug 2	2023)		
Sl.No	Name of the State		Assam-Ph-I	Ar P Ph-I	Nagaland	Tripura Phase I	Ar P Ph –II	Mizoram	Manipur	Assam Ph-II	Tripura Ph-II	TOTAL
	Wells Construction (Nos)	Target	4779	473	262	231	519	209	550	4916	890	12829
1	(1100)	Achievem ent	4779	473	262	231	519	209	550	4916	885	12824
•	Command Area Created (Ha)	Target	19116	1785	667	339	1957	553	2057	19664	2670	48808
2		Achievem ent	19116	1785	667	407.8	1957	553	2057	19532	1286	47361
3	Farmers (Nos)	Target	19643	3350	264	851	3633	411	1445	17216	1639	48452
3		Achievem ent	19643	3350	264	915	3633	422	1445	17200	2202	49074











IEC ACTIVITIES

Public Interaction program (PIPs) were initiated in the year 2018 as a medium to disseminate findings of NAQUIM and other hydrogeological studies at grass root level in all NER States.

Ministry of Jal Shakti Department of Water Resources, RD & GR **Central Ground Water Board** North Eastern Region, Guwahati

