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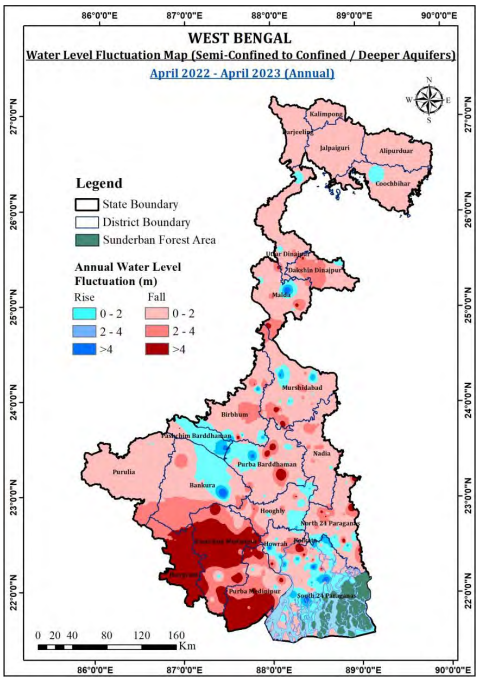
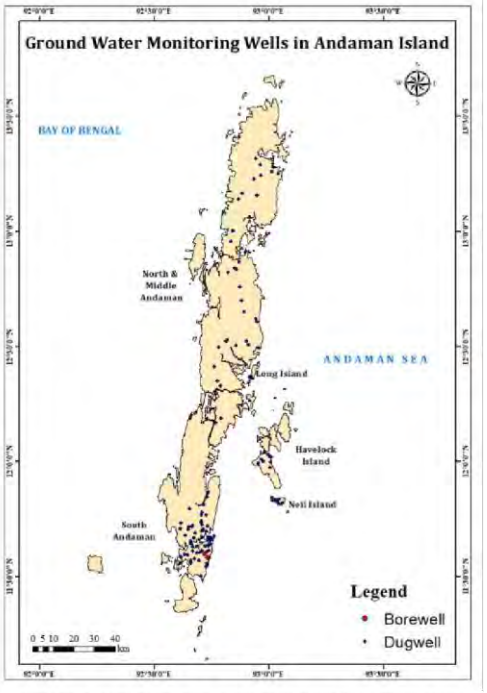
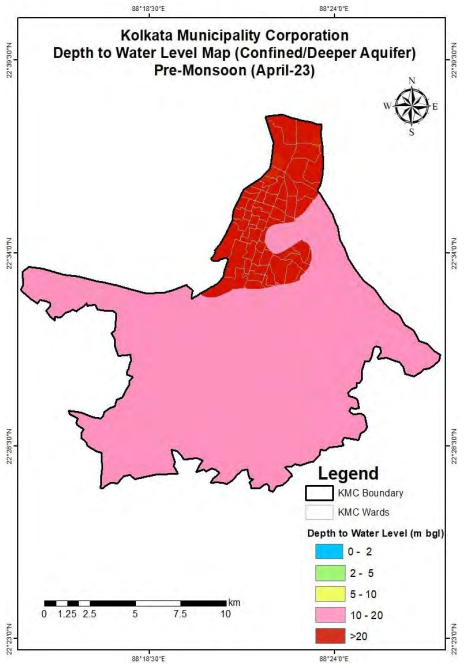
GROUND WATER YEAR BOOK
OF
WEST BENGAL, ANDAMAN & NICOBAR ISLANDS & SIKKIM
(2023-24)







CENTRAL GROUND WATER BOARD
Eastern Region, Kolkata

October-2024

GROUND WATER YEAR BOOK
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CENTRAL GROUNDWATER BOARD
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GANGA REJUVENATION

MESSAGE

Central Ground Water Board (CGWB), the apex central government department in the groundwater sector, has been monitoring water levels nationwide since the 1970s. As on March 2023, CGWB, Eastern Region (ER), Kolkata has 1698 ground water monitoring stations (GWMS) which comprises dug wells, tube wells and piezometer where water levels are monitored four times a year in the State of West Bengal, 2 times in Andaman & Nicobar Islands (113 GWMS) and each month in Sikkim State (04 GWMS).

Groundwater is a dynamic and replenishable precious natural resource. It requires to be monitored regularly and also to be appraised of the changes that are taking place in this regime. Ground water level reflects the balance between groundwater recharge and extraction in the aquifer system. Any fluctuations in this balance will be reflected in the rise or fall of water levels. Ground water level plays major role in effective estimation of ground water resource of an area. Thus, effective groundwater management necessitates the establishment of a robust database for groundwater level data.

It is an outcome of dedicated efforts by our team of Scientists of various disciplines at Central Ground Water Board, Eastern Region, Kolkata. It is very much anticipated that this report will become an important reference tool not only for various user agencies, Engineers, Scientists, Administrators, Planners and others involved in groundwater planning, development and management but also for the common people to make them aware of local groundwater issues and its sustainable management options.

(N. Varadaraj)
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FOREWORD

To understand the spatio-temporal variations in the existing hydrogeological regime, a network of Ground Water Monitoring Wells (GWMW) has been set up all over West Bengal and Andaman Group of Islands by Central Ground Water Board, Eastern Region. These GWMWs are represented by various ground water abstraction structures, as found suitable for prevailing aquifer systems of the area. Systematic and periodical monitoring of these GWMWs aids in the identification and quantification of changes in groundwater availability and its quality, which is vital for ascertaining sustainable ground water development and efficient management of ground water resources.

As on March-2024, total of 1698 GWMWs are monitored 4 times in a year (i.e. in the month of April, August, November and January) representing almost all the blocks of twenty-three districts of the states of West Bengal. Due to inaccessibility in Andaman group of Islands, initially the task was taken up with the help of a few GWMWs but gradually the number of stations has been increased to 113, which are monitored 2 times in a year (i.e. April and November). Monthly monitoring of ground water levels in Kolkata Municipality area its surrounding is conducted through 35 numbers of GWMSs. CGWB, ER, has set up 04 Ground Water Monitoring Stations (GWMS) (04 PZ) in Sikkim State as on 31-03-2024.

This report attempts to compile the collected data during the year 2023-24 and present its detailed analysis in a comprehensive manner in the form of maps and statistical analysis and brought out in 3 sections, where Section-A embodies report for West Bengal, Section-B forms report for Andaman group of Islands and Section-C for Sikkim. Water level data for all four measurements have been collected by the officers of CGWB, ER. Compilation of this report, evaluation of data and preparation of relevant maps and their reproduction in the form of present report is outcome of efforts put in by **Dr Shaista Khan, Scientist-C** under the guidance of **Mrs Chirashree Mohanty, Scientist D** along with other officers attached in the contributors list. "*The Ground Water Yearbook 2023-24"* of Central Ground Water Board, Eastern Region, Kolkata will be immensely useful as baseline information for planners, various user agencies, engineers, scientists, administrators and researchers involved in groundwater extraction and management in the state of West Bengal, Andaman and Nicobar Island and Sikkim state.

Dr Anadi Gayen
Regional Director

ABSTRACT

In West Bengal, ground water level monitoring is being carried out by Central Ground Water Board, Eastern Region from 1698 Ground Water Monitoring Wells/Stations (GWMSs) covering all districts of West Bengal encompassing various hydrogeological and agro-climatic zones during the month of April, 2023, August, 2023, November, 2023 and January 2024. In Andaman and Nicobar Islands, monitoring of water level is carried out from 113 nos. GWMSs established in different hydrogeological and geomorphic terrains. Out of 113 GWMS, 111 wells are open dug well and rest two are bore well. In Kolkata City, monthly monitoring of water level is carried out using 35 nos. GWMS. In the State of Sikkim 04 PZ has been established during 2023-24.

Collected water level data were statistically analyzed and relevant maps depicting ground water scenario corresponding to various measurements were prepared. All datasets were compared and analyzed with pre-monsoon measurements and also with dataset of same period for previous year. Mean depth-to-water level for the period 2013-2022 was compared with corresponding measurements and analyzed to delineate the behavior of water levels. Status of Ground Water Monitoring Stations and number of the wells monitored during four seasons are also prepared. Statistical data incorporate ranges of water levels and water level fluctuations, minimum and maximum values of water level, number of wells measured, percentage of monitoring stations falling in different ranges with district-wise breakup in different pre- defined categories in compliance with national guideline. Along with the general well information, depth to water level data of all network hydrograph stations, are also presented. Present report has been prepared on groundwater scenario of West Bengal, Andaman and Nicobar Islands and Sikkim State reflecting the status of groundwater regime as revealed through ground water level during the year 2023-24.

WEST BENGAL AT A GLANCE

Location	N Latitudes, 21^0 31' 0", 27^0 33' 15", E Longitudes, 85^0 45' 20", 89^0 33'0"
Geographical Area	88752 sq. km.
Population (2011)	9,12,76115
Rural Population	6,21,83113
Urban Population	2,90,93002
No. of Districts	23
No. of Blocks	344 Blocks and 1 urban Kolkata municipality
Normal Annual Rainfall	1,234 mm - 4,136 mm
Net sown area	49,912,22 Hectares
Area under forest	11,736,69 Hectares
Area not available for cultivation	18,399,70 Hectares
Other uncultivated land excluding fallow	10,50,08 Hectares
Current Fallow land	57,42,44 Hectares
Cropping intensity	177 %
Total annual ground water recharge (As on March-2023) (based on GEC '2015 methodology)	26.29 BCM
Provision for Natural Ground Water Discharge	2.39 BCM
Annual Extractable Ground Water Resource	23.9 BCM
Current Annual Ground Water Extraction for Irrigation use	8.99 BCM
Current Annual Ground Water Extraction for domestic use	1.57 BCM
Current Annual Ground Water Extraction for Industrial use	0.15 BCM
Current Annual Ground Water Extraction for All use	10.71 BCM
Stage of ground water Extraction	44.81 %
Annual Ground Water Allocation for Domestic use as of 2025	1.77 BCM
Net GW Availability for future use	13.07 BCM
Total number of Assessment unit	345
Number of Over Exploited Block	0
Number of critical blocks	12
Number of semi-critical blocks	32
Number of Safe blocks	241
Poor Ground Water Quality blocks	60

ANDAMAN & NICOBAR ISLANDS AT A GLANCE

Location	N Latitudes, 6^0 to 14^0, E Longitudes, 92^0 to 94^0
Geographical Area	8,249 sq. km. (Andaman-6408 sq. km., Nicobar-1841 sq. km.)
Capital	Port Blair
Altitude	Varies from Sea level to 732 meter (Highest Point - Saddle Peak in North Andaman near Kalipur beach)
Temperature	Mean Minimum 23.8°C Mean Maximum 30.2°C
Rainfall	3000 mm
Relative Humidity	79% to 82%
Total Population (2011)	3,80,500
Rural Population	2,37,012
Urban Population	1,43,488
Literacy Rate (As per provisional population Census-2013)	86.6 %
Forest Cover	92%
Annual Replenishable Recharge (As on March-2023) (based on GEC '2015 methodology)	0.6219 bcm
Total Natural Ground Water Discharge	0.06 bcm
Annual Extractable Ground Water Resource	0.5597 bcm
Current Annual Ground Water Extraction for Irrigation use	0 bcm
Current Annual Ground Water Extraction for domestic use	0.01 bcm
Current Annual Ground Water Extraction for Industrial use	0 bcm
Current Annual Ground Water Extraction for All use	0.01 bcm
Stage of ground water Extraction	1.37%
Total number of Assessment unit	36
Number of Safe Assessment units	35
Poor Ground Water Quality	1

SIKKIM AT A GLANCE

Location	27° 04’ - 28° 08’ N latitude 88° 00’ to 88° 54’ E longitudes
Geographical Area	7096 sq. km.
Capital	Gangtok
Altitude	Varies from 300m to 8500 m
Temperature	Mean Minimum 7.5^{o}C Mean Maximum 20.7^{o}C
Rainfall	4000 mm
Relative Humidity	63.8 % to 88.7 %
Total Population (2011)	1,46,850
Rural Population	1,25,651
Urban Population	21,199
Forest Cover	30%
Annual Replenishable Recharge (As on March-2023) (based on GEC ’2015 methodology)	0.24298 bcm
Annual Extractable Ground Water Resource	0.21868 bcm
Current Annual Ground Water Extraction for Irrigation use	0.00895 bcm
Current Annual Ground Water Extraction for domestic use	0.00214 bcm
Current Annual Ground Water Extraction for Industrial use	0.00103 bcm
Current Annual Ground Water Extraction for All use	0.01211 bcm
Stage of ground water Extraction	5.54%
Total number of Assessment unit	6
Number of Safe Assessment units	6
Poor Ground Water Quality	0

GROUND WATER YEARBOOK
OF WEST BENGAL AND ANDAMAN & NICOBAR ISLANDS 2023-24

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Section A

CHAPTER-I

1.0 INTRODUCTION

Ground Water Yearbook of West Bengal is prepared annually depicting changes in ground water regime of the state through different seasons. It is an effort to obtain information on ground water levels through representative monitoring wells. The important attributes of ground water regime monitoring are ground water levels. The natural conditions affecting the regime involve climatic parameters like rainfall, evapotranspiration etc., whereas anthropogenic influences include pumpage from the aquifer, recharge due to irrigation systems and other practices like waste disposal etc. Periodical monitoring of ground water regime representing different hydrogeomorphic, hydrogeological units is an effort to acquire information on behaviour of ground water levels and chemical quality of formation water through representative sampling. The process is essential in both spatial and temporal domain, to consolidate a detailed knowledge about ground water scenario of an area with respect to its behaviour, availability, and quality. Thus, data so collected during monitoring becomes one of the most important inputs for a holistic ground water management.

Monitoring is carried out by establishing suitable Ground Water Monitoring Stations (GWMS) based on geomorphology, geology, hydrogeology and status of ground water resource of the area with a view to observe the trend of water level and change of chemical quality with space and time. It is also essential for estimation of ground water resources and to demarcate the water logging as well as drought prone areas.

In West Bengal, ground water monitoring was started since 1976 when most of the ground water structures were mainly dug wells and the development of the ground water resource was very limited. It is only after 1985, actual ground water development started in irrigational sector and took its full swing from 90s. Accordingly, network stations (GWMS) for monitoring of water level data were also changed in different periods. However, from late 90s, these old wells are being replaced by well-defined piezometers in phased manner with an expectation that in near future, this effort will provide better result.

1.1 BACKGROUND

The monitoring mainly comprises measurement of water levels and temperature, four times in a year viz., in the months of April (Pre-monsoon) (20^{th} to 30^{th}), August (Mid-monsoon)

(20th to 30th), November (Post-monsoon) (1st to 10th) and January (1st to 10th) and collection of water samples during April every year, for chemical analysis. The premonsoon water level data is collected from all the monitoring stations during the month of April to access the deepest water level condition due to various reasons, Water levels during August are monitored to access the impact of monsoon on the ground water resources. Post monsoon data collected during November reflects the cumulative effect of ground water recharge and withdrawal of ground water for various purposes. January water level data indicates the effect of withdrawal for rabi crops. The data is analyzed to know about the frequency distribution of water levels during different periods and seasonal, annual and decadal fluctuations in water levels. The water level and water level fluctuation maps are prepared for each monitoring period to study the spatial and temporal changes in ground water regime.

As on 31-03-2023, there were 1698 operational Ground Water Monitoring Stations (GWMS) (705 Dug Wells, 294 Piezometers and 699 Tube Wells). The dug wells are mostly tapping the unconfined aquifers which are used for domestic purpose. Some of these are community wells and the rest belong to private individuals. The piezometers tapping Semi- confined/confined and confined aquifers constructed under various projects and exploration programs by the department are monitored manually four times a year. The location of map of ground water monitoring stations is given in Figure 1.1 which also highlights the *Sunderban Forest Area* where no monitoring stations have been established.

The district-wise status of GWMS monitored in West Bengal during the period from April, 2023 to January, 2024 is given in *Annexure-I*. To get a detailed water level scenario in the urban area especially in metro city, Kolkata CGWB, Eastern Region, is conducting monthly measurement from 35 monitoring stations in Kolkata municipality area and its surrounding. All the monitoring wells are representing semiconfined to confined aquifers.

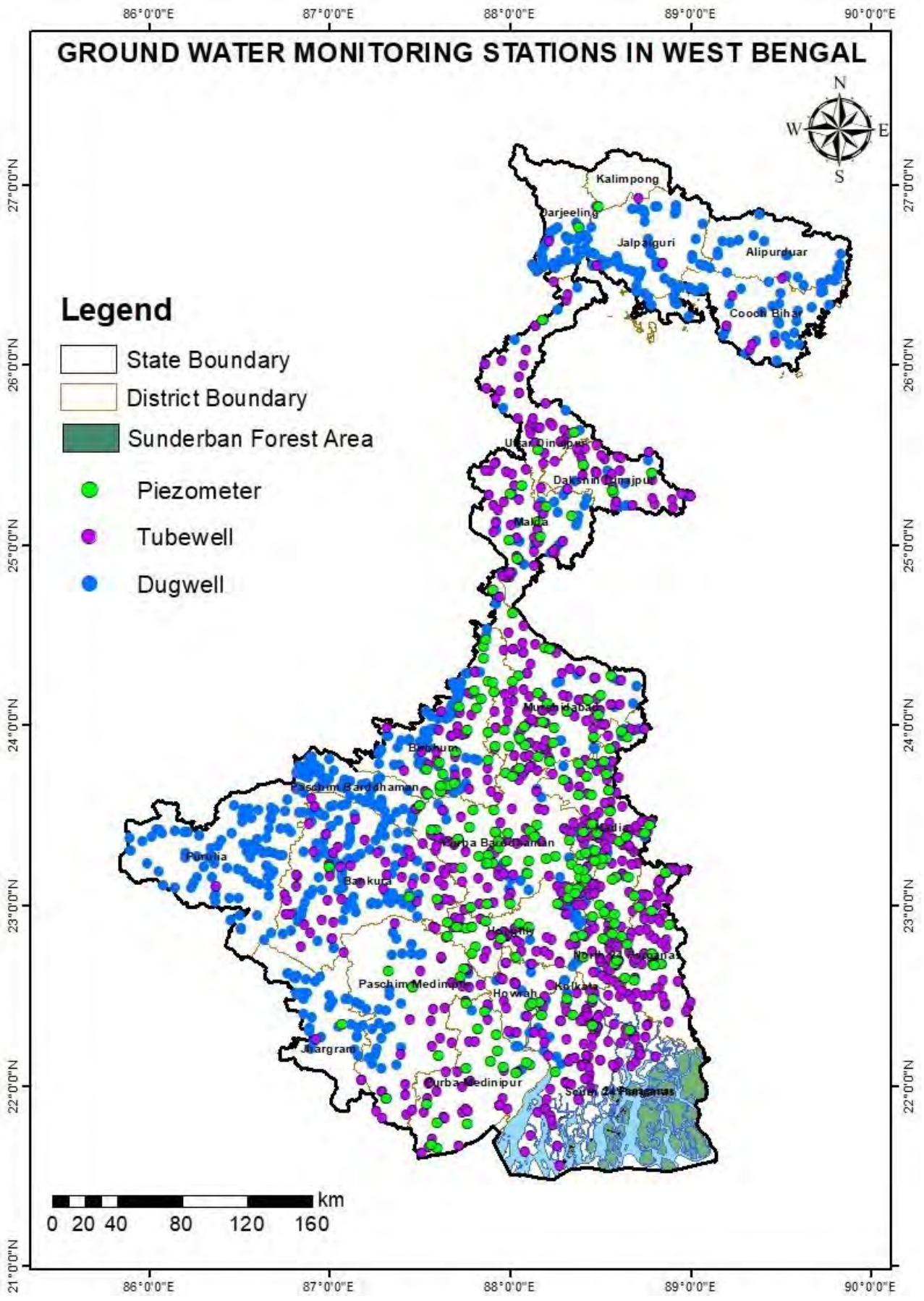


Figure1. 1: Location Map of Ground Water Monitoring Stations in West Bengal

CHAPTER-II

2.0 PHYSIOGRAPHY AND DRAINAGE

In general, the state of West Bengal is a flat terrain, criss-crossed with rivers except the Himalayan foothills in the north and Chotanagpur plateau in the south-west. Southern flowing Ganga River and its numerous tributaries & distributaries mainly drain the State. The Ganga River system encompasses the catchment areas of the Mahananda, Jalangi, Bhairab etc. in the eastern part and the Mayurakshi, Ajoy, Damodar, Dwarakeshwar and Kasai in the western part. The Teesta, Torsa and Jaldhaka streams of the Brahmaputra River system originate in the Himalayas and drain the northern part of the State. Beside these, there is a small independent river basin, namely Subarnarekha basin covering southwestern part of the State in Medinipur district. Physiographically, the area incorporates extra – peninsular region of the north, peninsular mass of the south – west, and alluvial and deltaic plains of the south and south-east (Figure-2.1). The State can be broadly divided into nine distinct physiographical divisions as:

(i) Himalayan Region comprising the districts of Darjeeling, Jalpaiguri, Alipurduar etc.
(ii) Sub-Himalyan Fans
(iii) Barind upland
(iv) Upper Gangetic Delta
(v) Plateau Eastern fringe of Chottanagpur Plateau comprising districts of Puruliya, western parts of Barddhaman, Paschim Medinipur, Birbhum and Bankura district.
(vi) Degraded plateau
(vii) Reclaimed lower Gangetic Delta
(viii) Non-Reclaimed Lower Gangetic Plain Delta
(ix) Coastal areas Medinipur and Howrah districts.

The Ganga divides the state into two unequal hubs: the North and South Bengal. West Bengal is the only state of India that extends from the Himalaya in the north to Bay of Bengal in the south. It offers wide topographic diversity and an intricate drainage network of basins (Figure-2.2 & Table 2.1).

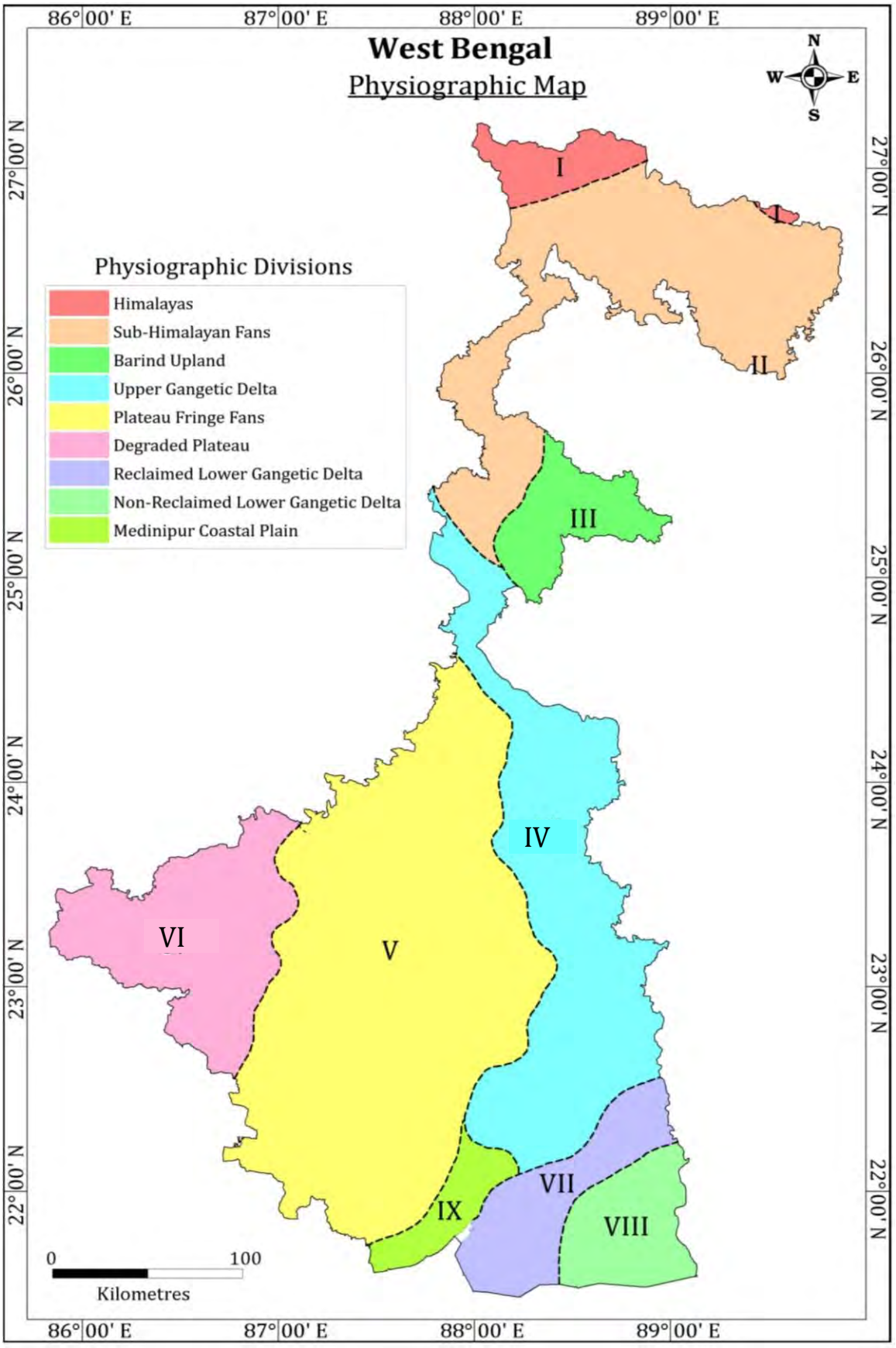


Figure-2. 1- Physiographic map of West Bengal

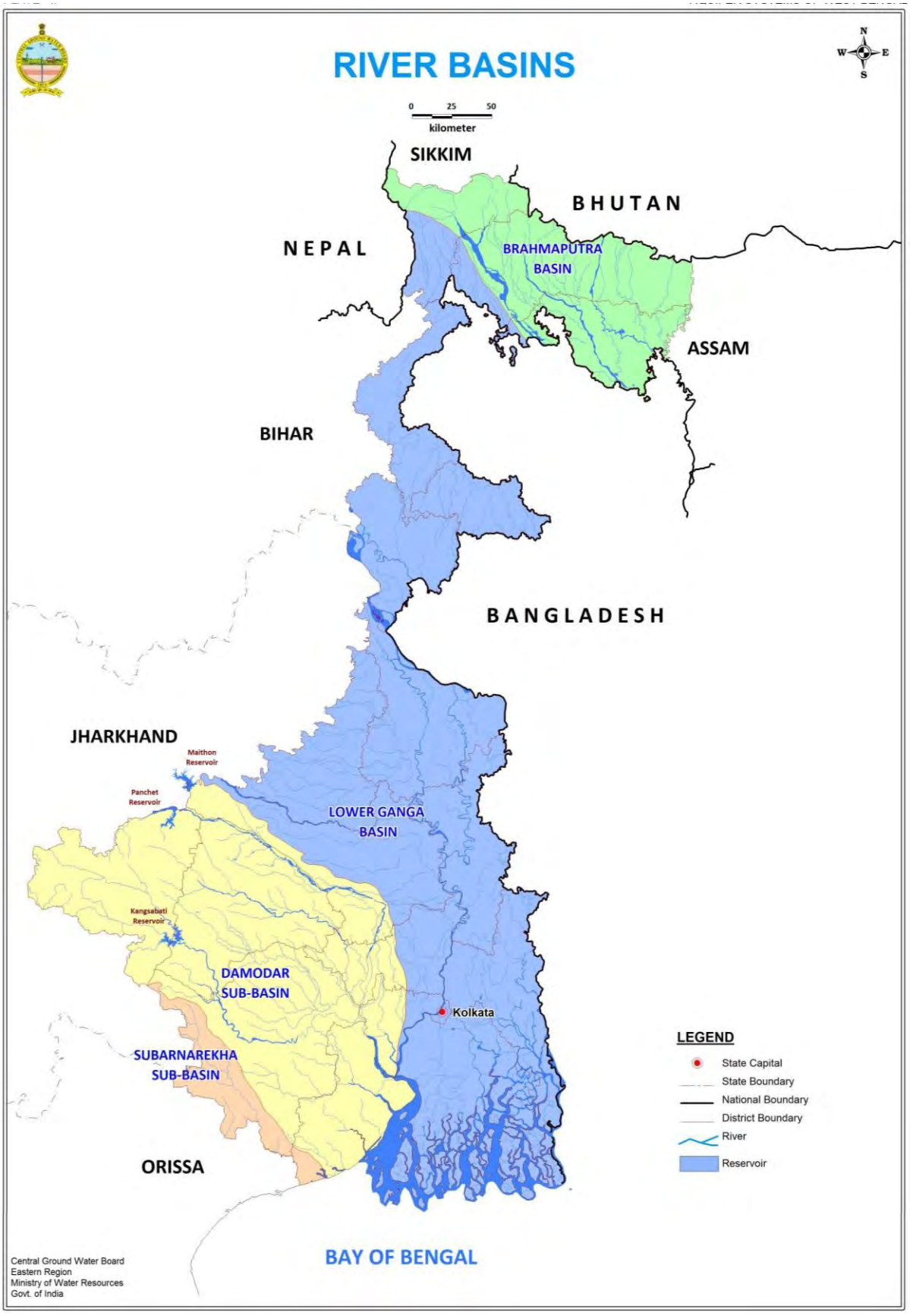


Figure-2. 2-River Basins of West Bengal

Table 2. 1: River Basins of West Bengal

Basins	Sub-basins	Area (sq. km)	Districts
Lower Ganges	Mahananda & Atrai	11100	Darjeeling, Jalpaiguri, Coochbehar, Uttar & Dakshin Dinajpur, and Malda
	Bagmari & Pagla	1250	Murshidabad, and Birbhum
	Jalangi	5640	Murshidabad, and Nadia
	Mayurakshi & Babla	5470	Birbhum, Murshidabad, and Barddhaman
	Ajoy	2490	Birbhum, Murshidabad, and Barddhaman
	Damodar	5250	Purulia, Barddhaman, Hooghly, and Howrah
	Khari & Ghia	5400	Barddhaman, and Hooghly
	Rupnaraian	10930	Purulia, Bankura, Purba Medinipur, and Howrah
	Kangsabati (& Haldi)	8920	Purba Medinipur
	Rasulpur (Bagda)	2620	Medinipur
	Tidal Rivers (*e.g.* Raimangal, Matla etc.)	15800	Purba Medinipur, and North & South 24-Parganas
	Total	74870	Darjeeling, Jalpaiguri, Coochbehar, Uttar & Dakshin Dinajpur, Malda, Murshidabad, Birbhum, Nadia, Barddhaman, Hooghly, Howrah, Purulia, Purba & Paschim Medinipur and North & South 24-Parganas
Brahmaputra	Raidak & Sankosh	440	Jalpaiguri, and Coochbehar
	Raidak & Torsa	3340	Jalpaiguri, and Coochbehar
	Jaldhaka	3730	Darjeeling, Jalpaiguri, and Coochbehar
	Teesta	3200	Darjeeling, Jalpaiguri, and Coochbehar
	Total	10710	Jalpaiguri, and Coochbehar
Brahmani	Subarnarekha & Dolong	3172	Purulia, and Purba & Paschim Medinipur
	Total	3172	Purulia, and Purba & Paschim Medinipur

(Source: WB State Action Plan on Climate Change, 2010)

2.1 PRINCIPAL & MAJOR AQUIFER SYSTEMS OF WEST BENGAL

Diverse rock types ranging from Archaean metamorphites to Quaternary unconsolidated sediments cover the State of West Bengal. Approximately 75 percent of the area is covered by alluvial and deltaic deposits of Sub – Recent to Recent time and the remaining part abounds in a wide variety of hard rocks. The state can be subdivided into three distinct tectonic provinces, namely, a) Extra – peninsular region in the north; b) Peninsular mass in the south – west; and c) Alluvial and deltaic plains in the south and south east. Hard-rock covered areas of the state represent fissured formation. It includes Proterozoic gneisses and schists, Gondwana Super group of rocks and Siwalik rocks of Extra- Peninsular region; Archaean to Proterozoic gneisses and schists of Peninsular region; Gondwana and Purana sediments deposited in the intracratonic basins; and Rajmahal basaltic traps of the eastern fringe area of the Peninsular region. Geographically, it covers parts of Darjeeling and Jalpaiguri districts in the north; parts of Barddhaman, Bankura, Birbhum districts and entire Purulia district to the west; and parts of West Medinipur district in the south-west. This is also noticeable that major parts of these areas are laterite covered. Groundwater in this formation occurs in weathered mantle and in the zone of secondary porosity. Rest of the state is occupied by a thick pile of unconsolidated alluvial sediments laid down by the Ganga-Brahmaputra River system. Thickness of these alluviums increases from marginal platform areas in the west towards the east and towards southeast in the central and southern parts of the basin following the configuration of Bengal Basin. These unconsolidated sediments are made up of succession of clay, silt, sand and gravel of Quaternary age overlying Mio-Pliocene sediments. The Quaternary sediments are made up of recent and older alluvium. Occurrence and movement of ground water in this hydrogeological unit is controlled by the primary porosities of the sediments. Based on the lithology and water yielding properties, in continuation of national Aquifer Mapping Programme as per main classification of Aquifer Systems of India, aquifer systems of West Bengal have been further classified into twelve (12) Principal aquifer systems and consisting of twenty-five (25) Major aquifer systems given in Table2.2 &
2.3 and shown in Figure 2.3 .

Table 2. 2: Principal Aquifer System of West Bengal

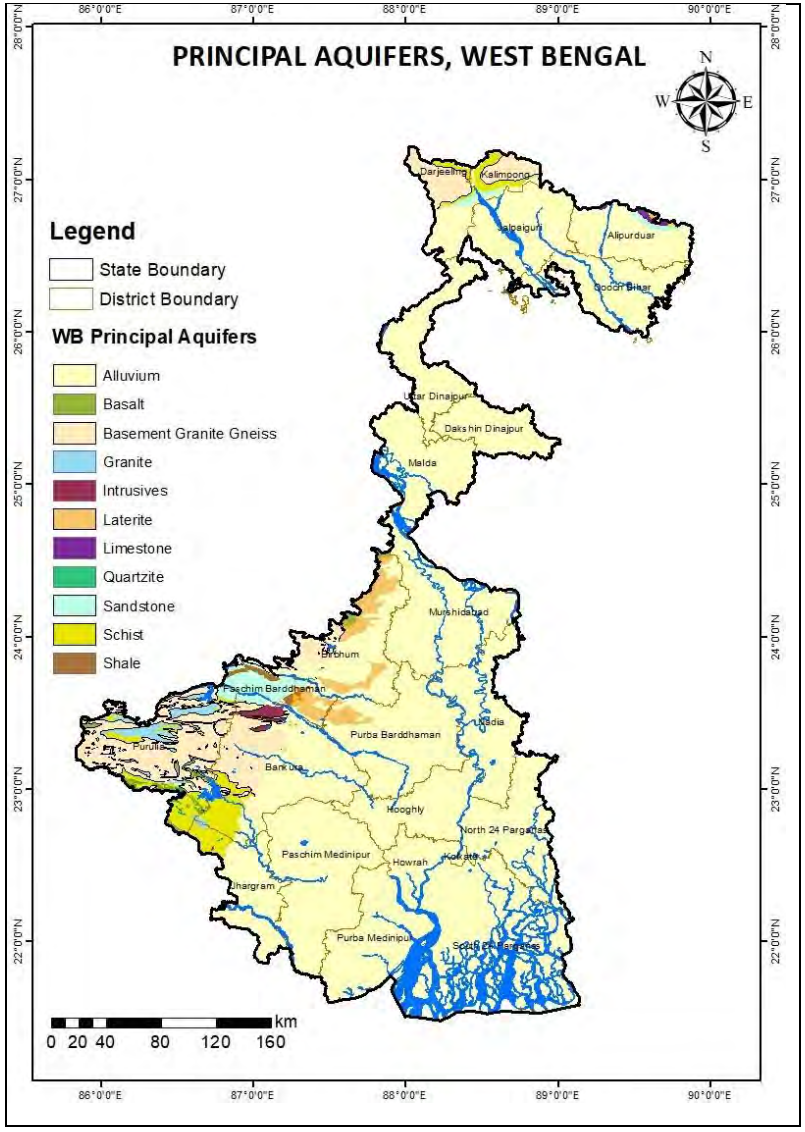
District	Alluvium	Laterite	BGC	Schist	Sandstone	Basalt	Granite	Limestone	Gneiss	Intrusive	Quartzite	Shale	District-wise Total
Bankura	3599	96	1848	881	155	2	29	-	-	272	-	0.01	6882
Barddhaman	5217	697	84	-	833	-	-	-	-	-	-	193	7024
Birbhum	2526	1132	680	-	29	154	1	-	-	0.36	-	23	4545
Darjeeling	1080	-	1389	498	182	-	-	-	-	-	-	-	3149
Howrah	1467	-	-	-	-	-	-	-	-	-	-	-	1467
Hooghly	3149	-	-	-	-	-	-	-	-	-	-	-	3149
Jalpaiguri	6006	-	-	37	80	-	-	104	-	-	-	-	6227
Coochbehar	3387	-	-	-	-	-	-	-	-	-	-	-	3387
Uttar Dinajpur	3140	-	-	-	-	-	-	-	-	-	-	-	3140
Dakshin Dinajpur	2219	-	-	-	-	-	-	-	-	-	-	-	2219
Malda	3733	-	-	-	-	-	-	-	-	-	-	-	3733
Murshidabad	5312	-	-	-	-	12	-	-	-	-	-	-	5324
Nadia	3927	-	-	-	-	-	-	-	-	-	-	-	3927
Purulia	25	-	3815	1193	129	267	803	-	-	11	16	-	6259
North 24 Parganas	4094	-	-	-	-	-	-	-	-	-	-	-	4094
South 24 Parganas	9960	-	-	-	-	-	-	-	-	-	-	-	9960
Kolkata	185	-	-	-	-	-	-	-	-	-	-	-	185
Purba Medinipur	4785	-	-	-	-	-	-	-	-	-	-	-	4785
Paschim Medinipur	8841	12	-	409	-	-	32	-	-	1	1	-	9296
Total	**72652**	**1937**	**7816**	**3018**	**1408**	**435**	**865**	**104**	**-**	**284**	**17**	**216**	**88752**

(Area in Sq. Km)

Table 2. 3: Major Aquifer System of West Bengal

Sl.No	Principal Aquifer Systems		Aquifer Characteristics				Major Aquifers		Area Covered (Sq km)	Age
	Code	Name	DTW (Decadal Average) (m bgl)	Thickness of Aquifer */ Weathered Zone (m)	Granular / Fracture Zones Encountered (m bgl)	Yield (m3/ day)	Code	Name		
1	AL	Alluvium (72652 Sq Km)	5-10	50-700	50-400	200-1500	AL01	Younger Alluvium (Clay/Silt/Sand/ Calcareous concretions)	50195	Quarternary
2							AL02	Pebble / Gravel/ Bazada/ Kandi	128	Quarternary
3							AL03	Older Alluvium (Silt/Sand/Gravel/ Lithomargic clay)	18770	Quarternary
4							AL04	Aeolian Alluvium (Silt/ Sand)	114	Quarternary
5							AL05	Coastal Alluvium (Sand/Silt/Clay)	3370	Quarternary
6							AL06	Valley Fills	75	Quarternary
7	LT	Laterite (1937 sq Km)	5-10	8-20	8-15	20-60	LT01	Laterite / Ferruginous concretions	1937	Quarternary
8	BS	Basalt (435 Sq Km)	5-10	10-25	35-90	1-200	BS01	Basic Rocks (Basalt)	435	Mesozoic to Cenozoic
9	ST	Sandstone (1408 Sq Km)	5-10	5-40	50-120	5-2000	ST01	Sandstone/ Conglomerate	40	Upper Palaeozoic to Cenozoic
10							ST02	Sandstone with Shale	422	Upper Palaeozoic to Cenozoic
11							ST03	Sandstone with shale/ coal beds	941	Upper Palaeozoic to Cenozoic
12							ST04	Sandstone with Clay	5	Upper Palaeozoic to Cenozoic
13							ST06	Sandstone with Shale	0.0002	Proterozoic to Cenozoic
14	SH	Shale (216 Sq Km)	5-15	10-30	30-60	20-80	SH02	Shale with Sandstone	216	Upper Palaeozoic to Cenozoic
15	LS	Limestone (104 Sq Km)	10-30	10-20	30-60	50-1500	LS04	Limestone with Shale	104	Proterozoic
16	GR	Granite (865 Sq Km)	5-15	5-10	30-60	10-100	GR02	Acidic Rocks (Pegmatite, Granite, Syenite, Rhyolite etc.)	865	Proterozoic to Cenozoic
17	SC	Schist (3018 Sq Km)	5-10	10-50	20-70	20-70	SC01	Schist	2778	Azoic to Proterozoic
18							SC02	Phyllite	240	Azoic to Proterozoic
19	QZ	Quartzite (17 Sq Km)	5-10	5-10	30-120	50-1000	QZ02	Quartzite	17	Azoic to Proterozoic
20	BG	Basement Gneissic Complex (7816 Sq Km)	2-15	5-25	30-150	2-1000	BG01	Basement Gneissic Complex	7816	Azoic
22	IN	Intrusive (284 Sq Km)	5-15	5-25	10-70	Low Yield	IN01	Basic Rocks (Dolerite, Anorthosite etc.)	284	Proterozoic to Cenozoic
23							IN02	Ultra Basics (Epidiorite, Granophyre etc.)	0.36	Proterozoic to Cenozoic

DTW : Depth to Water Level



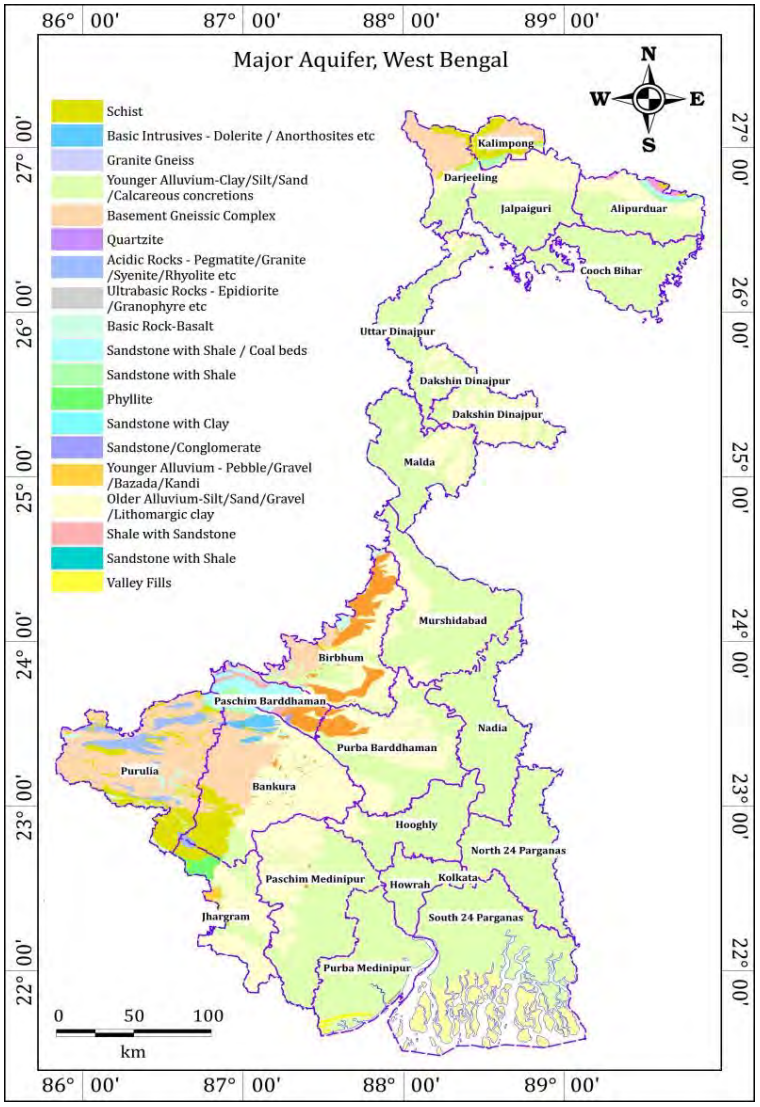


Figure-2. 3-Principal and Major Aquifer of West Bengal

CHAPTER-III

3.0 HYDROMETEOROLOGY

West Bengal is India's only state that stretches from the mountain range of the Himalayas to the Bay of Bengal (BoB). The study region in-between the Chhotanagpur plateau in the west direction and mountains of the Himalayas in the north direction, and the valley of the Ganga-Brahmaputra delta (GBD) in the south and east, constitute a substantial segment of the province. West Bengal has a diverse climate, ranging from humid subtropical regions in the north to tropical savannah in the state's southern regions. The tropic of Cancer passes 6 km north of Nabadwip (Nadia district); hence, as per latitude, the northern region of the state lies in the temperature belt and the southern region lies in the tropical belt. There are four different seasons (winter, pre-monsoon, monsoon, and post- monsoon) and substantial variations in temperature. The region is susceptible to severe precipitation, southwest monsoon and cyclonic activities. The northernmost part of the state is the mountainous terrain that is typically chilly all the year-long.

In the winter season (January, February, and December), the plains experience a moderate winter climate, and the temperature varies from a minimum of 9°C to a maximum of 26°C. In mountainous terrains, the temperature typically varies between 0°C to 12°C. In the winter season, the Darjeeling Himalayas' higher altitudes experience considerable snowfall. In the western hilly terrains, night-time lows can reach 7-9°C whereas, in Siliguri, Jalpaiguri, and Cochbehar plains used to drop 4-7°C and 10-11°C in Kolkata during the cold wave. In general, winter is dry and sunny. The weather in northwest India occasionally results in mild rainfall due to the western disturbances.

Pre-monsoon season (March-May) can subdivide into two seasons, spring and summer. March to mid-April is considered a "spring" period and is the most delightful phase across the West Bengal plains. The temperatures vary from 20 °C to 30 °C and light rain or drizzle occasionally owning to the western disturbances in the northern region. Noteworthy that the majority of West Bengal experiences heat from April to June.

During the monsoon season (June-September), West Bengal used to experience extremely hot and humid summers. The daily maximum temperature in the Southern Plain region varies from 35°C to 38°C; however, it can also reach 40°C. The western hilly terrains have a dry summer similar to that of northern India. The daytime temperature varies from 38°C to 42°C, but it can get as high as 45°C The North Bengal plains are often cooler in the summer than the west and south regions of the state. The daily maximum temperature in this region ranges from 26 °C to 32°C.

The summertime lows typically range from 18°C to 22°C. The Darjeeling hills are the coolest part of the state in the summer. The daily high temperature is in the range of 15-25°C. The temperature decreases as the cloud cover increases in the state. While the temperature rises until August in the mountains and Dooars areas.

During rainy days (July-September), the highest temperature is 32°C in the southern region and 31°C in the northern lowlands and 19-20°C in the mountains. Sometimes on clear sky days, the temperature increases significantly and is known as a monsoon break In July and August, when the temperature goes above 36°C and 24°C, respectively, in the northern plain and mountain regions. The monsoon season is when most of the yearly rainfall takes place. In the districts of Darjeeling, Jalpaiguri, Alipurduar, and Cochbehar heavy rainfall above 2500 mm is recorded. Afterward, the winds flowing west allow the northern plains and western hilly regions to receive an average of 1250 mm of rainfall.

In the post-monsoon season (October-November), the sky is cleared by the return of the southwest monsoon wind and consequently, the state receives enough insolation to be warm during the day and cold at night. The maximum temperature during this season varies from 17°C to 19°C in the highlands and from 30°C to 33°C across the plains. In plains, the minimum temperature typically ranges from 19°C to 22°C and 6°C to 11°C in the mountains. The actual rainfall distribution of 2023 in different districts of West Bengal is Table 3.1. In 2023, the highest rainfall was 3518.5 mm received by the Jalpaiguri district, and the lowest rainfall was 1007 mm recorded in the West Burdwan district. The average annual rainfall of the last 10 years from the year 2013 to 2023 is depicted in Table 3.2. The maximum average rainfall over the last 10 years is recorded at maximum at Jalpaiguri (3852 mm) and minimum at Nadia (814 mm) district. The annual cumulative rainfall map of West Bengal is shown in Fig. 3.1, which shows the maximum rainfall zone in the northern Himalayan regions.

District-wise monsoon and non-monsoon actual and normal rainfall is given in the Table-3.1 & 3.2. The rainfall contour and interpolation map for monsoon, non-monsoon and annual rainfall is depicted in Fig. 3.3-3.5. The salient features of rainfall analysis are given below: The average normal annual rainfall of the state is 1561 mm. while the actual average rainfall is 1573 mm. Jalpaiguri district received 11% (highest) of total rainfall in 2023. While West Burdwan district received only 3% (lowest) of total rainfall.

Table 3. 1: Actual Rainfall Distribution in West Bengal-2023

S No.	District	Cumulative Rainfall (mm)		Total RF
		Non-monsoon	Monsoon	
1	BANKURA	469.5	814.4	1283.9
2	BIRBHUM	342.8	798.2	1141
3	COOCH BEHAR	491.6	2347.5	2839.1
4	DARJEELING	547.6	2381.8	2928.6
5	EAST BURDWAN	413.8	816.9	1230.7
6	EAST MIDNAPORE	370.7	1146.6	11517.3
7	HOOGHLY	360.4	716.5	1076.9
8	HOWRAH	445	941.7	1369.7
9	JALPAIGURI	623.6	2894.9	3518.5
10	KOLKATA	374	1114.9	1488.9
11	MALDA	321.8	1188	1509.8
12	MURSHIDABAD	322	692	1014
13	NADIA	500.2	778.6	1278.8
14	NORTH 24 PARGANAS	492.6	994.3	1486.9
15	NORTH DINAJPUR	218.1	1248.8	1466.9
16	PURULIA	508.1	797.3	1305.4
17	SOUTH 24 PARGANAS	332.9	1311.2	1644.1
18	SOUTH DINAJPUR	309.7	745.3	1055
19	WEST BURDWAN	301	706.1	1007.1
20	WEST MIDNAPORE	336.9	966	1302.9

Table 3. 2: Annual Average Rainfall Distribution in West Bengal (2013 to 2023)

S No.	District	Cumulative Rainfall (mm)		Total RF
		Non-monsoon	Monsoon	
1	BANKURA	334.1	948.1	1282.3
2	BIRBHUM	379.1	734.5	1113.6
3	COOCH BEHAR	1026.6	2219.0	3245.5
4	DARJEELING	628.8	2530.9	3159.6
5	EAST BURDWAN	358.4	810.7	1169.2
6	EAST MIDNAPORE	412.6	1311.3	1723.9
7	HOOGHLY	328.3	839.8	1168.1
8	HOWRAH	372.0	876.3	1248.3
9	JALPAIGURI	955.9	2896.9	3852.8
10	KOLKATA	398.7	930.6	1329.3
11	MALDA	363.2	642.2	1005.4
12	MURSHIDABAD	269.1	635.6	904.7
13	NADIA	244.9	569.6	814.5
14	NORTH 24 PARGANAS	402.8	881.0	1283.7
15	NORTH DINAJPUR	409.7	1017.4	1427.1
16	PURULIA	313.4	1002.1	1315.5
17	SOUTH 24 PARGANAS	362.9	1266.2	1629.1
18	SOUTH DINAJPUR	301.8	771.2	1073.0
19	WEST BURDWAN	313.0	809.3	1122.3
20	WEST MIDNAPORE	352.7	1006.3	1358.9

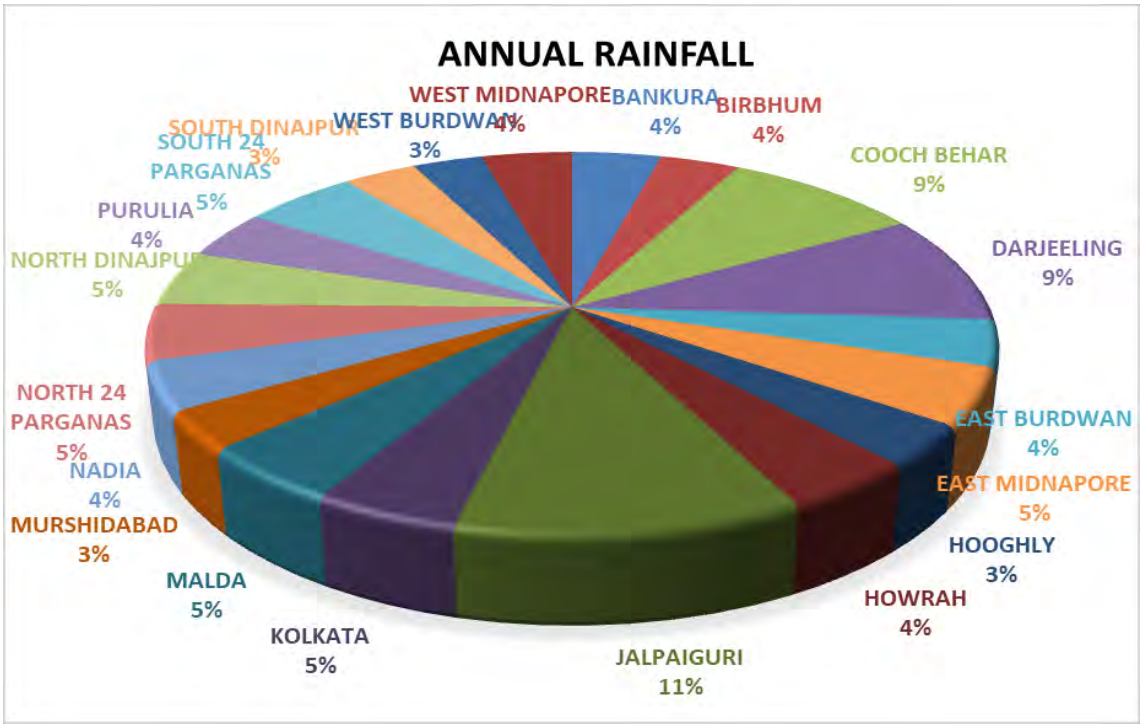


Figure-3. 1: Pie diagram of Rainfall distribution over the West Bengal state

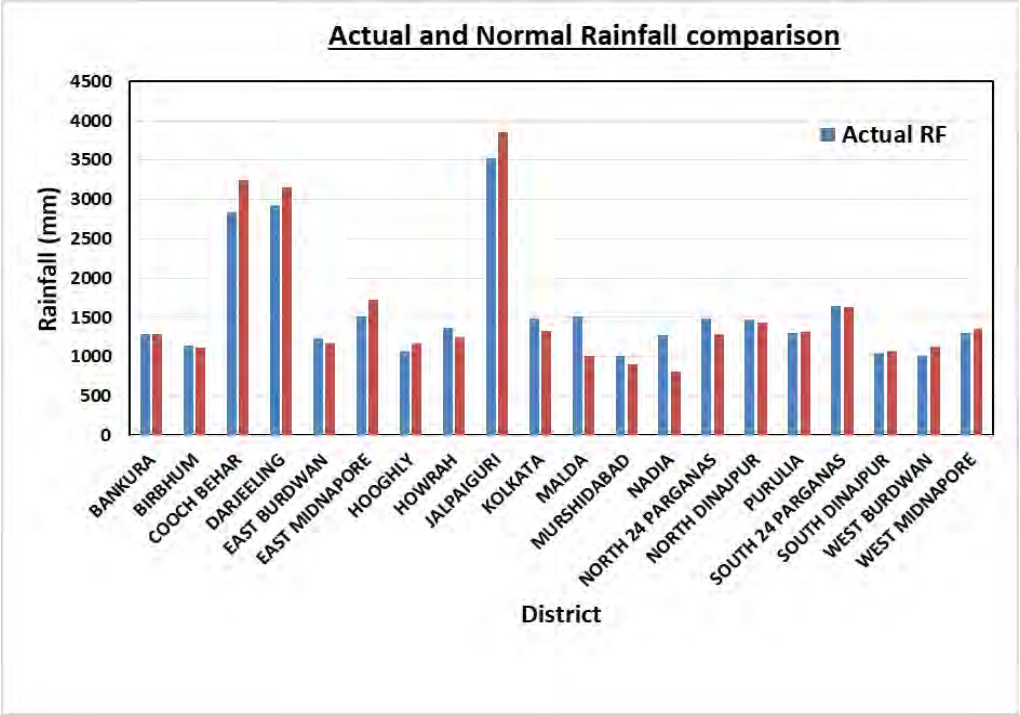


Figure-3. 2: Bar diagram of district-wise actual and normal rainfall over the West Bengal state

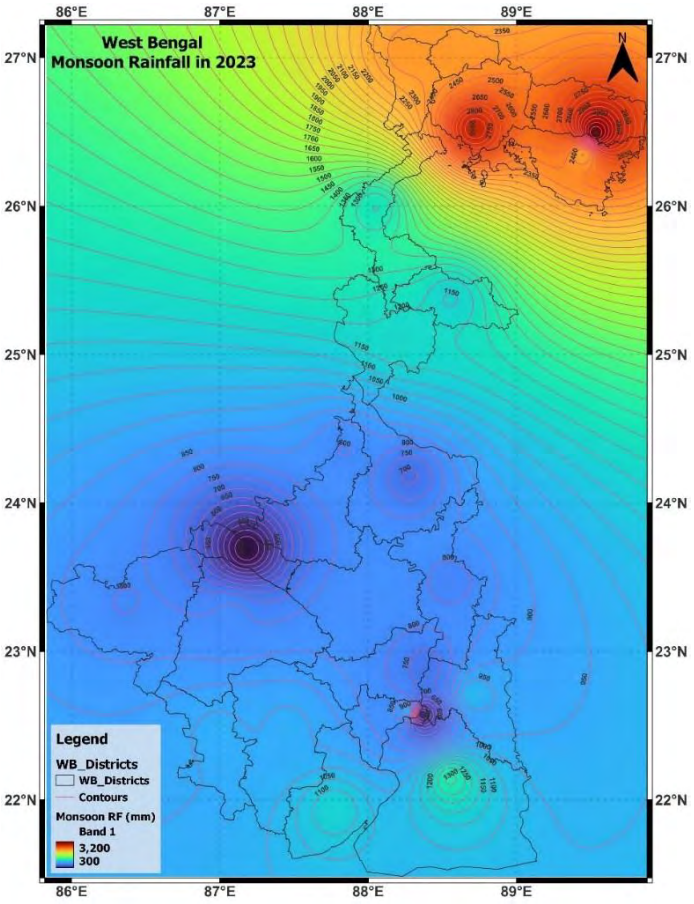


Figure-3. 3: Rainfall contour and interpolation maps during monsoon season for West Bengal

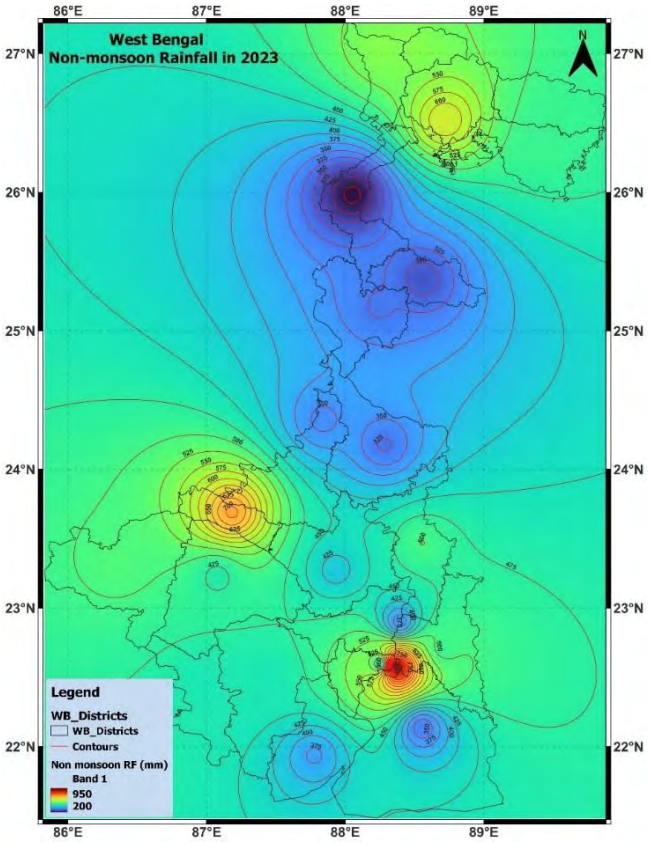


Figure-3. 4: Rainfall contour and interpolation maps during non-monsoon season for West Bengal

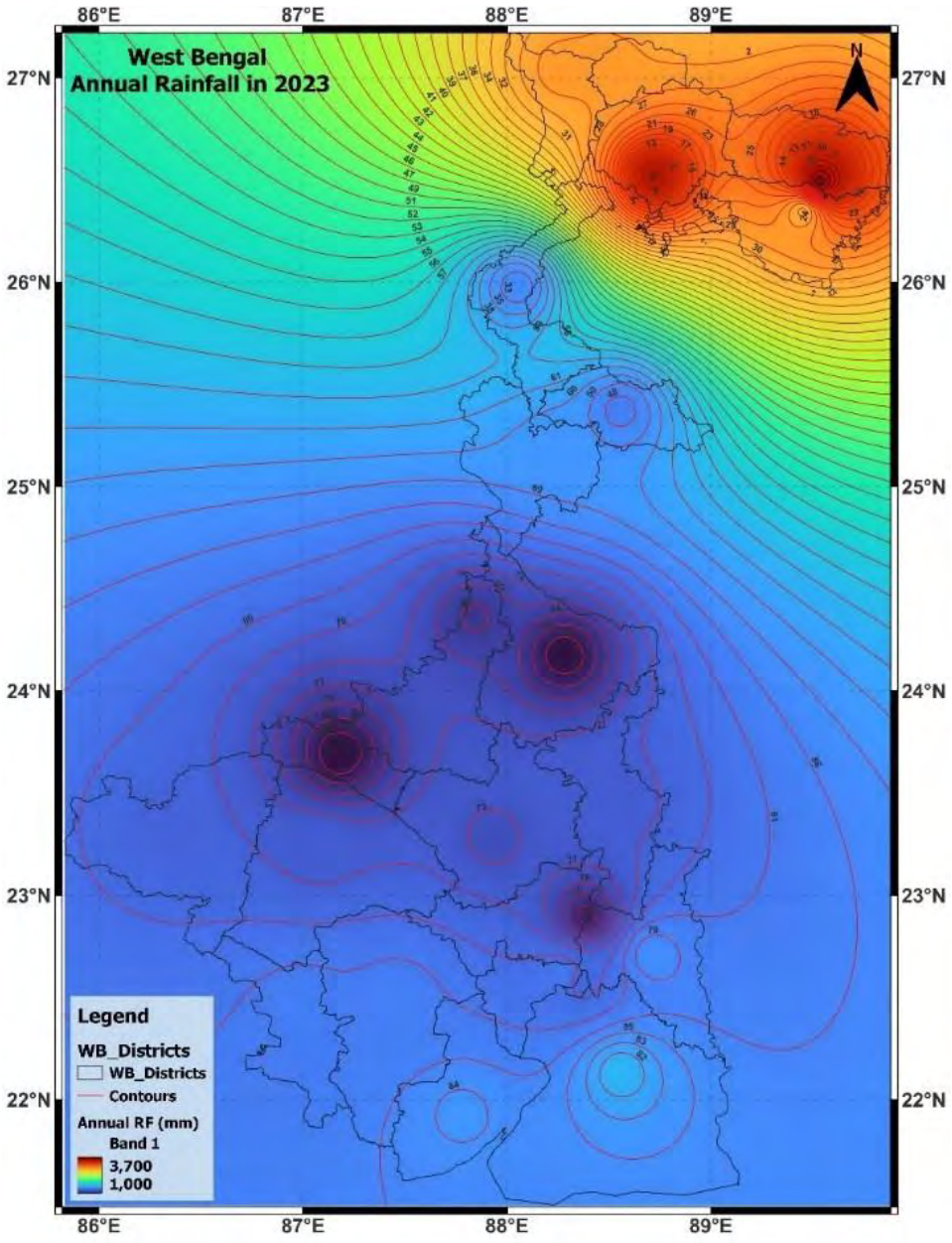


Figure-3. 5: Rainfall contour and interpolation maps during 2023 for West Bengal

CHAPTER-IV

4.0 GEOLOGY

The state of West Bengal is covered by diverse rock types ranging from the Archaean metamorphites to the Quaternary unconsolidated sediments. Approximately two - third area of the State is covered by alluvial and deltaic deposits of Sub – Recent to Recent time and the remaining part abounds in a wide variety of hard rocks.

The State is divided into three distinct physiographic units, which are as follows.

(i) Extra – peninsular region of the north,

(ii) Peninsular mass of the south – west,

(iii) Alluvial and deltaic plains of the south and east.

The regional geological set up of West Bengal (Geological Survey of India, 1999) is summarized below (Table-4.1).

Table 4. 1: Generalized Stratigraphic Succession of the rock units of West Bengal

Group	Super Group	Formation
Quaternary	Present day flood plain deposit**,** Baikunthapur / Shaugoan Fm, Chalsa Fm., Matiali Fm, Thaljhora Fm., Samsing Fm.	Sand, silt and clay, Boulders, gravels, pebbles, Sands and silts.
	-------- Unconformity --------	
Tertiary	Siwalik Group	Siltstone, coarse – grained sandstone (salt and pepper sandstone) and conglomerate with interbands of shale and impure calcareous horizons at the basal part
	-------- Main Boundary Thrust --------	
Permo – CarboniferousAndYounger Rocks	**Gondwana Supergroup** — **Damuda Group**	Feldspathic and micaceous quartzite, sandstone, Carbonaceous slates with thin seams of crushed coal. Basal pebble and boulder bed
	Talchir Group	
	-------- Tectonic Contact --------	
(Mid to Up. Riphean)	**Buxa Formation**	Predominantly dolostone, cherts and variegated slates.
	-------- Contact Controversial --------	
Daling PROTEROZOIC	**Reyang Formation**	Ortho-and proto quartzite variegated slates and phyllites
Darjeeling Gneiss	**Gorubathan Formation**	Green slate, phyllite, phyllonite, cherty chlorite quartzite, green tuffaceous wacke with basic metavolcanics. Sheared streaky, porphyritic biotite gneiss.

Group	Super Group	Formation
	Lingtse Gneiss	Golden, silvery mica schist, garnet, starlets, kyanite and sillimanite bearing schists and gneisses, migmatitic gneiss
	------- Central Crystalline Thrust ------	
	Chungthang Formation	Calc – gneiss, calc – granite, augen gneiss, marble, sillimanite gneiss, graphite schist; etc.
OLDER PROTEROZOIC	**Kanchenjungha Gneiss**	Banded gneiss, augen gneiss, streaky gneiss, migmatites etc. with profuse intrusions of granite, aplite and pegmatite.
	Base not seen	

Source: GSI, Miscellaneous Publication No. 30, 1999.

CHAPTER-V

5.0 HYDROGEOLOGY

There are two broad hydrogeological units, namely, Fissured formation and Porous Formation.

5.1 FISSURED FORMATION

Proterozoic gneisses and schists, younger Gondawanas Super group and Siwalik rocks of Extra-Peninsular region in Darjeeling and Jalpaiguri districts to the north and Archaean to Proterozoic gneisses and schists in Peninsular region occurring in western part of Bardhaman, Bankura, Birbhum and northern part of Medinipur and whole of Purulia districts and younger Gondwana and Purana sediments (Susunia quartzite of Bankura) deposited in the intra-cratonic basins in the shield area and Rajmahal basaltic tracts in the eastern fringe area of the shield fall under fissured formation. Occurrence and movement of ground water in this formation is controlled by the following zones.

i) Weathered Mantle

ii) Saprolitic Zone

iii) Zone of secondary porosity

5.2 POROUS FORMATION

Nearly two-third of the state is occupied by a thick pile of unconsolidated sediments laid down by the Ganga-Brahmaputra River system, the thickness of which increases from marginal platform area in the west towards the east and southeast in the central and southern part of the basin following the configuration of Bengal Basin. These unconsolidated sediments are made up of succession of clay, silt, sand and gravel of Quaternary age overlying Mio-Pliocene sediments. The Quaternary sediments are made up of Recent and Older Alluvium. Occurrence and movement of ground water in this hydrogeological unit is controlled by primary porosities of the sediments.

In West Bengal aquifer characteristic varies considerably from north to south and west to east. Out of 341 blocks by and large most of the areas show aquifer under both water table as well as confined condition. The entire coastal area consist of 59 blocks is under confined condition. (29 blocks in S 24 Parganas, 5 blocks in N 24 Parganas, 9 blocks in Howrah and 16 blocks in Purba Medinipur). Aquifer conditions in different districts are summarised below in **Table-5.1.**

Table 5. 1: Aquifer Characteristics of Major Hydrogeological units

Location	Formation	Aquifer condition
Purulia, western part of Bankura, Birbhum, West Medinipur & Barddhaman	Consolidated / Semi-consolidated Crystalline rocks	Ground water occurs in i) Weathered residuum within 10mbgl. ii) Fractures within 65mbgl having discharge within 20m^3/hr.
Parts of Purulia, western part of Barddhaman & Birbhum	Gondwana Sandstone	Ground water occurs in the fractured zone within 100 mbgl generally discharging 10 m^3/hr, with maximum discharge of 22 m^3/hr.
Bhabar zone in parts of Darjeeling & Jalpaiguri	Unconsolidated/ Older Alluvium	In the submontane zone of Himalaya, the sediments consist of unassorted materials varying from boulders to sand of various grades. The aquifers are having deep water table & are characterised by high seasonal variations of water level to the tune of 10-12m. Recent exploration identified the potential granular zones within the depth range of 150mbgl capable of yielding up to 68m^3/hr.
Barind Tract parts of Malda, Dakshin-Dinajpur	Unconsolidated/ Older Alluvium	Ground water under semi-confined to confined condition below a blanket of about 60 m thick clay bed. Saturated granular zone of discontinuous nature generally occurs in the depth span of 65-110 m, which is capable of yielding up to 50 m^3/hr.
Lateritic Terrain parts of Birbhum, Barddhaman, Bankura, West Medinipur, Murshidabad	Unconsolidated/ Older Alluvium	The maximum thickness of Older Alluvium is within 50 m, which is capped by laterites. Individual aquifer in older alluvium is of limited thickness and discontinuous in nature has poor yield prospect. Exploration in the tract has indicated the presence of unconsolidated to semi consolidated Tertiary gravel & sandstone, under the Older Alluvium, in the depth zone of 100-140 mbgl, which is porous in nature and has the yield prospect of 180 m^3/hr. In Birbhum district, aquifers beyond 136 mbgl up to the drilled depth of 350 mbgl in the Tertiary formation are found under auto-flow condition.
Parts of Darjeeling, Jalpaiguri, Kochbihar, Uttar & Dakshin Dinajpur, Malda, Murshidabad, Nadia, North 24 Parganas, Hugli, Howrah, West & East Medinipur, Bankura, Birbhum, Barddhaman	Unconsolidated / Recent Alluvium	Ground water occurs both under unconfined & confined condition within the explored depth of maximum 600mbgl. Aquifers are fairly thick & regionally extensive with large yield prospect of about 150m^3/hr. Occurrence of Arsenic in ground water in the depth span of 20-80 mbgl restricted mainly in the eastern part of Bhagirathi River has posed a serious problem. In view of the situation exploration work has been undertaken in the arsenic infested areas & arsenic free deeper aquifers could be identified beneath a thick clay bed in Nadia district.

Location	Formation	Aquifer condition
Coastal areas parts of North 24 arganas, South 24 Parganas, Howrah, East Medinipur, and Kolkata	Unconsolidated / Recent Alluvium	Fresh ground water bearing aquifer occurring in varying depth ranges within 120-360 mbgl within the drilled depth of 600 mbgl have been established. The fresh group of aquifers is sandwiched between saline/brackish aquifer. The top saline/ brackish aquifer lies within the depth span of 20-180m with maximum depth of 320mbgl in the extreme south. Suitably constructed tubewell tapping 35m cumulative thicknesses can yield 100-150m^3/hr. Shallow freshwater aquifers occur in present day dunes in Digha - Ramnagar area of East Medinipur district down to the depth of 9 mbgl & in levee deposit within 50mbgl in Baruipur - Sonarpur - Bhangar - Caning tract in South 24 Parganas. High Concentration of As in ground water is reported in this levee deposit.

5.3 CRITERIA FOR FIXING GWMS

Ground water monitoring is mainly done in the water table aquifer to categorize an area having excess or less withdrawal. This is useful to estimate the dynamic ground water resources and to demarcate the water logging as well as drought prone areas. To understand the correct water table aquifer in an area geomorphology and geology play a vital role. Therefore, for fixing GWMS in a district/block the following criterias are taken in to consideration.

Fixing GWMW based on Geomorphology

At least one GWMW in each geomorphic unit of more than 50 sq. km extent.

Fixing GWMW based on Geology

Minimum one GWMW in each geologic unit having more than 150 sq. km. in hard rock areas and 200 sq. km.in soft rock area.

Fixing GWMW based on status of Ground Water Resource

Category	Optimum no. of GWMW
SAFE	2
SEMI CRITICAL	3
CRITICAL	4
OVER EXPLOITED	4

The process to fill up the data gap as per the requirement of new criteria by establishing new GWMW in different geological/ geomorphological setup block-wise is done wherever required.

CHAPTER-VI

6.0 SCENARIO OF DEPTH TO WATER LEVELS IN WEST BENGAL DURING THE GROUND WATER YEAR 2023-24

6.1 INTRODUCTION

The groundwater storage is largely controlled by the prevailing hydro-geomorphological conditions. Magnitude of input (recharge) to the ground water system and output (discharge) from also influences the status of groundwater regime. In the State of West Bengal hydrogeological as well as the geomorphological conditions are highly variable as evident from earlier chapters. The chief source of recharge to storage is rainfall which is highly variable over space and time. The main source of discharge is ground water abstraction which is growing exponentially. The regions having ground water as the main source for irrigation always remain under heavy stress. The imbalance between the recharge and discharge expresses itself in terms of variations in the ground water level. Thus, the water level is a very important parameter for ground water studies. The behavior of the water level in the state during the year 2023-24 has been studied based upon the observations made on the Ground Water Monitoring Wells and described in the following paragraphs. District-wise number of GWMW monitored for the state of West Bengal extracted from GWDES software, the database currently working at ER, Kolkata is presented in Annexure-I.

In this report the water level data collected from unconfined zones (Shallow aquifers) as well as water levels from semi-confined to confined zones (Deeper aquifers) tapped by piezometers, hand pump, tube wells were analysed and presented. The aquifer wise depth to water level analysis and quality analysis through various Pie diagarams, Excel charts and maps are depicted in the the chapters mentioned below.

During the year 2023-24 the existing 1698 National Hydrograph stations were monitored four times and behaviour of the ground water regime during the year was inferred comparing the same with the decadal mean, corresponding previous year data and pre- monsoon water level data. The data from GWMS for the year 2023-24 was analysed and for every set of measurements, write up and maps were prepared and are presented here under various paragraphs. The analysis of water level data was done based on following criteria:

1. Four measurements of depth to water level (April, August, November, and January) give an overall idea regarding the ground water level in the state during the year of measurement.
2. The fluctuation in comparison to the same month in the previous year gives an idea about the change in the ground water level for a particular period with respect to that of the level during the same month in the previous year. This gives an idea about the change in the amount of draft and rainfall between the two years.
3. The water level fluctuation during the pre-monsoon period in comparison to previous year gives an idea about the seasonal fluctuation, which ultimately reflects the change in dynamic ground water resources.
4. The water level fluctuation during a particular month of measurement with reference to the decadal mean for the same months gives an idea of the behaviour of the ground water level on long-term basis.

The graphical representation on analysis of number of monitoring wells in the different categories of the water levels for all four monitoring periods of year 2023-24 (*Figure-6.1)* reveals that water level depth up to 5 meters varies considerably over all monitoring periods, which shows that dynamic changes in ground water levels are conspicuously deciphered in shallow water zones. During April, 23 most of the wells fall in the depth range of 5 to 10m, whereas numbers of monitoring station showing water level 10 to 20m and >20 m remain almost same in all four-monitoring period, indicate stressed water conditions in deep aquifers of West Bengal, which is considerable very low with respect to other water level ranges. The distribution of GWMS in different aquifer zones, mainly in unconfined shallow aquifers and Semi-confined to Confined in Deeper aquifers are presented in Figure-
6.2. The distribution of wells in various zones have been based on the lithological and hydrogeological characteristics, aquifer disposition of the region through detailed study carried out by CGWB, ER, Kolkata.

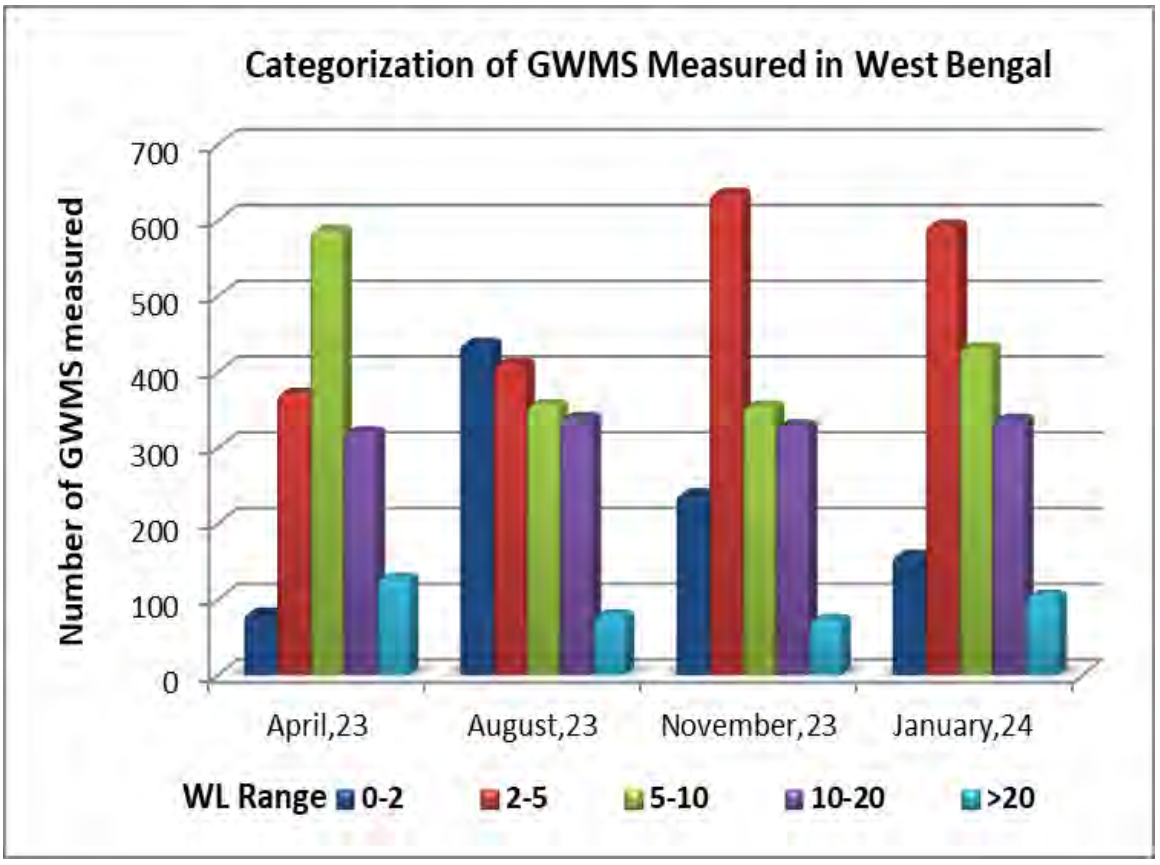


Figure-6. 1: Categorization of GWMS measured in 2023-24

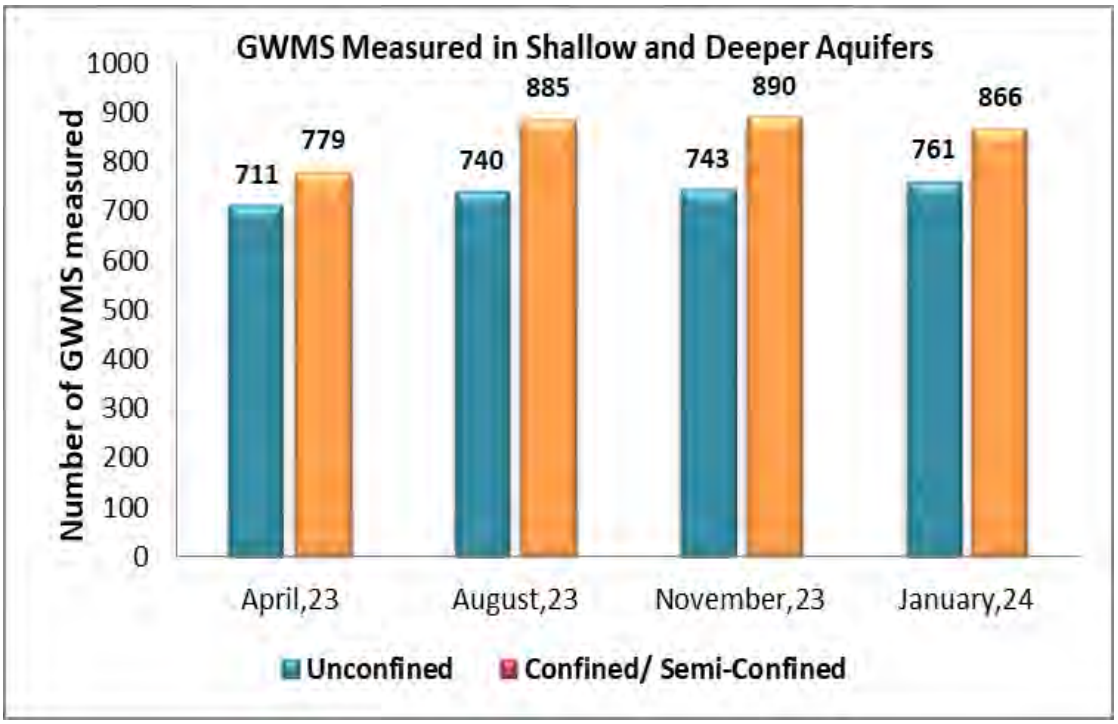


Figure-6. 2: Number of GWMS measured during 2023-24 in Shallow and Deeper Aquifers

6.2 DEPTH TO WATER LEVEL SCENARIO (PRE-MONSOON 2023)

Depth to water level during April 2023 was measured from 1490 ground water monitoring wells. The Distribution of wells in different depth ranges is depicted in *Figure 6.3.* The over all scenario, district wise GWMS measured are extracted from GWDES software, the database currently working at ER, Kolkata is presented in *Annexure-II*. Five groups were made based on the range of water levels, viz. 0-2, 2-5, 5-10, 10-20 and more than 20 m bgl. The maximum water level was recorded as 32 m bgl at Polsanda, Nabagram block of Murshidabad district. The minimum water level was recorded at 0.43 m bgl at Bauria, Sankrail block in Howrah district.

6.2.1 DEPTH TO WATER LEVEL PRE-MONSOON IN SHALLOW AQUIFERS (APRIL-2023)

During April 2023 a total of 711 numbers of GWMS in shallow aquifers were measured out of total 1490 wells *(Figure-6.3*). Water level of less than 2 m bgl was recorded in 11% of wells in phreatic aquifers. 2-5 and 5-10 m bgl of water level recorded in 42% of wells in each category and 10-20 m bgl in 5% of wells. Only 2 wells showing water level beyond 20 m bgl (*Table 6.1*). The water level scenario of April 2022 for phreatic aquifers is depicted in the Depth to Water level map in *Figure-6.4*

Table 6. 1: Categorisation of DTWL measured in Deeper and Shallow Aquifers (Pre-Monsoon 2023)

April-23	Confined/Semiconfined (Deeper)		Unconfined (Shallow)	
Category	**Number**	**%**	**Number**	**%**
0-2	5	1	77	11
2-5	72	9	300	42
5-10	290	37	297	42
10-20	286	37	35	5
>20	126	16	2	0
Stations Analysed	**779**		**711**	
G.Total	**1490**			

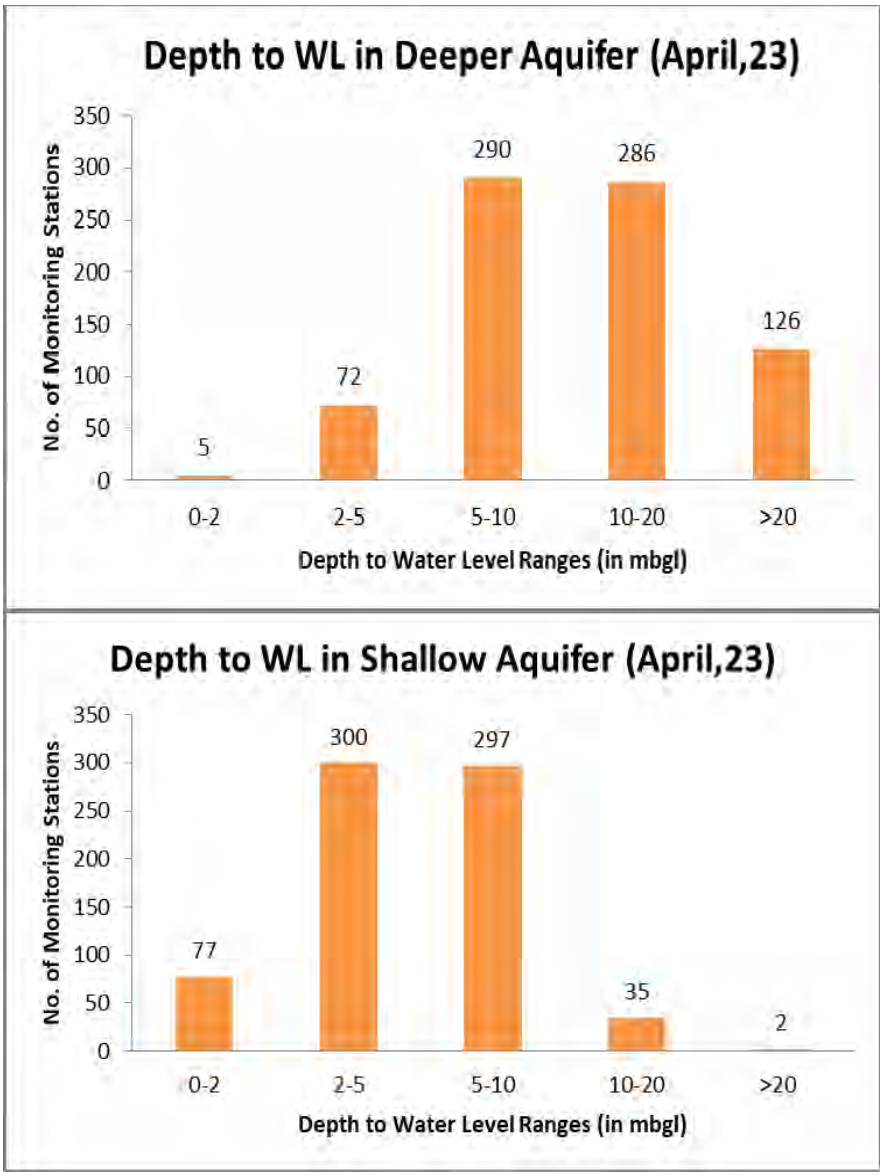


Figure-6. 3: Categorisation of DTWL measured in Deeper and Shallow Aquifers (Pre- Monsoon 2023)

The depth to water level map of April 2023 depicts that 11% of the GWMS are falling within the range of 0-2 m bgl mostly in the South-eastern part of State and most of the wells shows water level within 2-5 m bgl (42%) covering each district of the state.Water level within 5-10 m bgl predominat in the western parts of the district covered by hard rock areas of Purulia, Bankura as well as the older alluvial areas covered by the districts of Jhargram, Paschim Medinipur, Purba Medinipur, Bankura and some parts of Purba and Paschim Bardhaman and Murshidabad, Birbhum distrcits and some parts of Northern part of the State (*Figure-6.4*). Isolated patches in Bankura, Paschim Medinipur, Paschim Bardhaman, Jhargram, Birbhum, Murshidabad, S- 24 Parganas and Alipurduar district showed water levels in the range of 10-20m bgl. Deepest water level was recorded at jaigaon, 21.0 m bgl in Kalchini block of Alipurduar District and lowest water level 0.43 m bgl recorded at Bauria in Sankrail block of Howrah District.

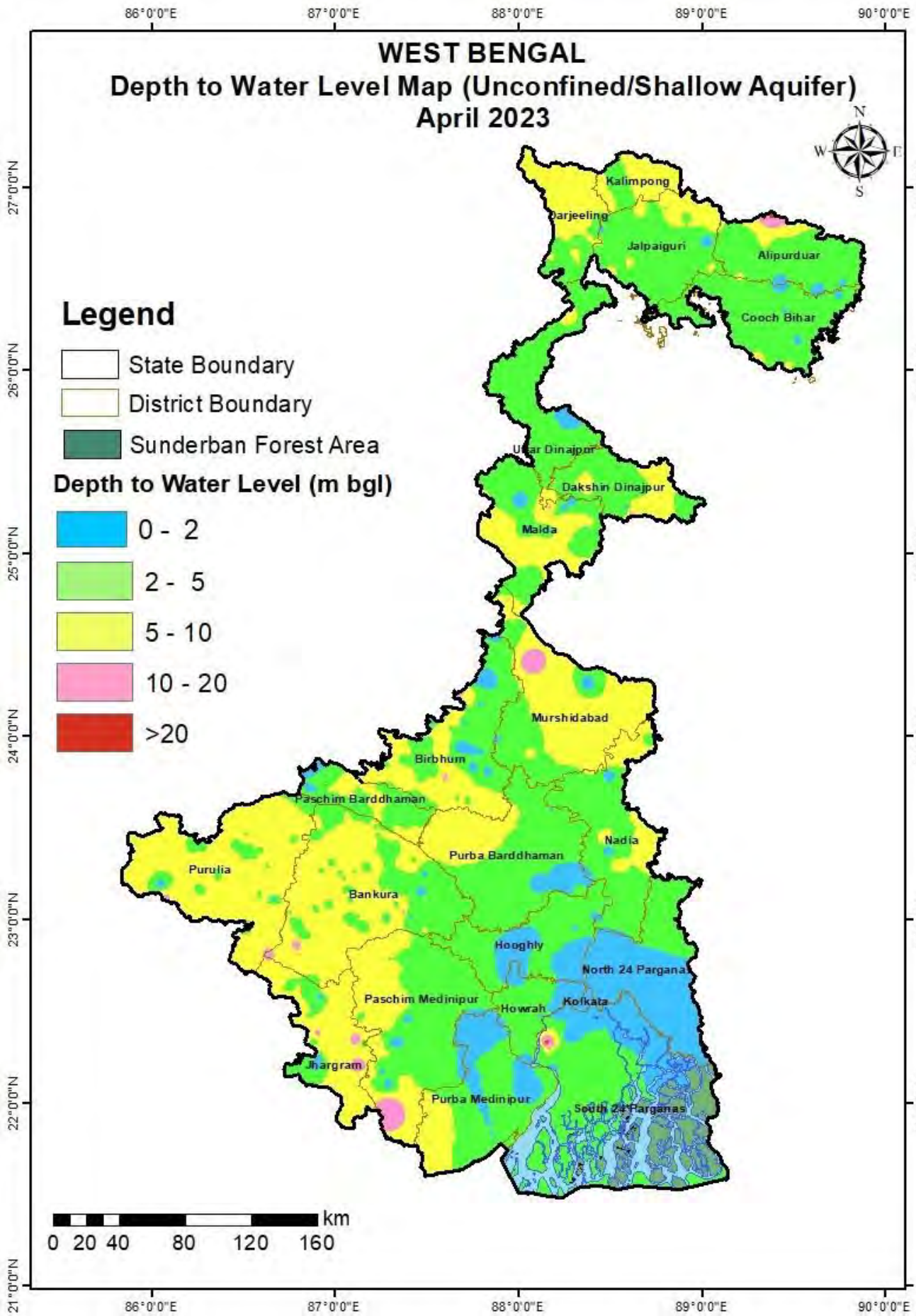


Figure-6. 4: Depth to Water Level Premonsoon in Shallow Aquifers (April 2023)

6.2.2 DEPTH TO WATER LEVEL IN DEEPER AQUIFERS PREMONSOON (APRIL 2023)

During April 2023 a total of 779 numbers of GWMS in Deeper aquifers were measured out of total 1490 wells *(Figure-6.5*). Water level of less than 2 m bgl was recorded only in 5 wells. Similarly in 9% of wells water level was observed between 2-5 m bgl. 5- 10 m bgl was recorded in 37% of wells and 10-20 m bgl in 37% of wells. 16% of GWMS in deeper aquifers shows water level beyond 20m bgl (*Table 6.1*). The water level scenario of April 2023 for deeper aquifers is depicted in the Depth to Water Table Map in *Figure-6.5*

Shallow water levels of less than 2 m bgl are noticed only in 5 wells. Water level 2 to 5 m bgl is covered in 19% of the area, mainly scattered in eastern part of the state covering Nadia, N 24 Parganas, Murshidabad, Malda, Uttar Dinajpur, Alipurduar and Coochbehar. The state is covered with depth to water level of 5 to 10 m bgl (37%), covering mostly the eastern and western and some Northern part of the State. Water levels between 10 to 20 m bgl covering 37% of the GWMS, mostly in Central part of the State as this region is considered as the rice belt of West Bengal with major irrigation draft. Depth to water level map of Pre-Monsoon 2023 (*Figure-6.5*) shows that, water levels more than 20m bgl are found as isolated patches in Murshidabad, Birbhum, Purba Medinipur, Purba Bardhaman, Malda, Kalimpong and Jalpaiguri districts covering 16% GWMS of the district. Deepest water level was recorded at Polsanda, 32.15m bgl in Nabagram block of Murshidabad District and lowest water level 1.1 m bgl was found at Khas Balanda in Haroa block of N 24 Parganas district.

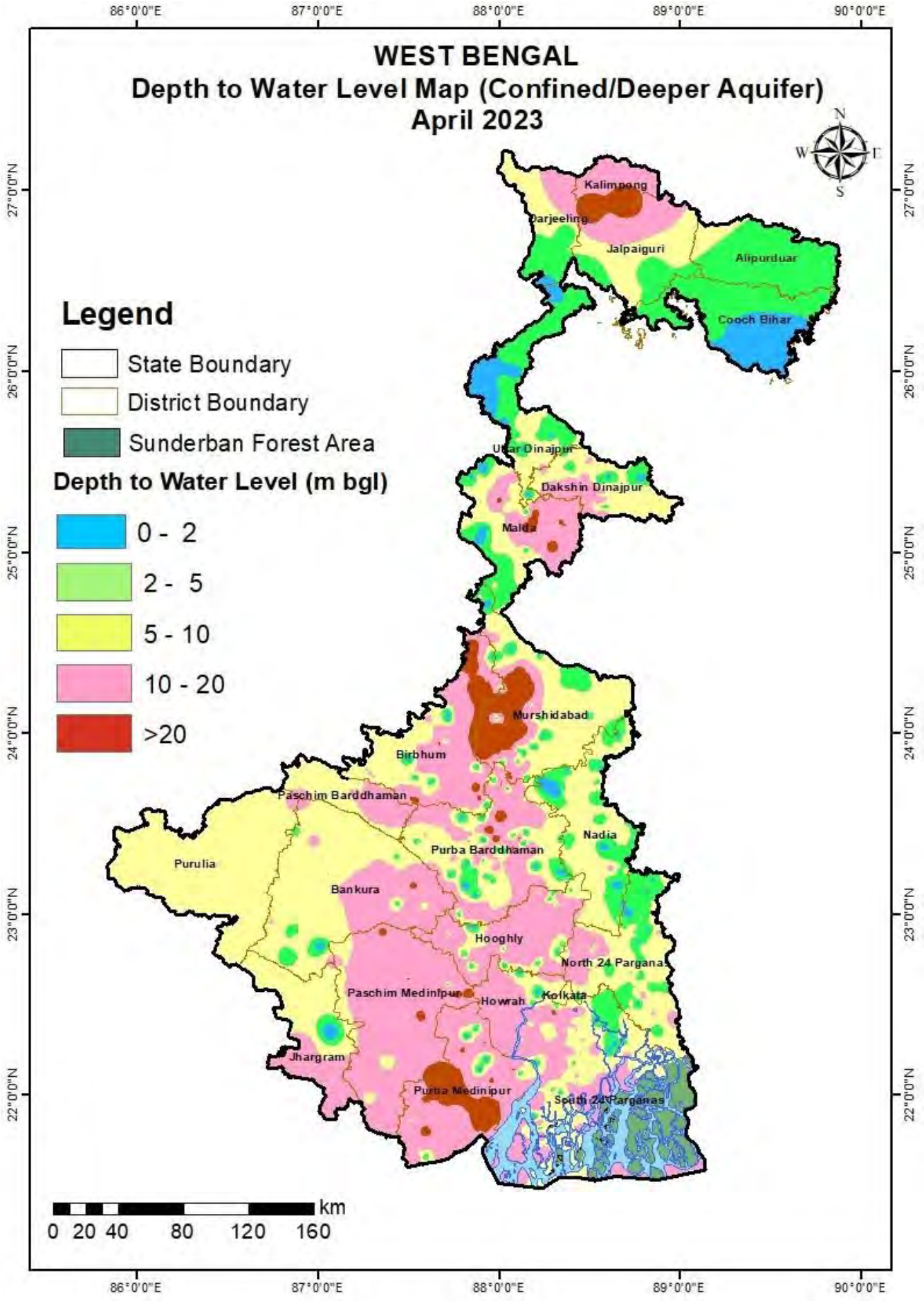


Figure-6. 5: Depth to Water Level Premonsoon in Deeper Aquifers (April 2023)

6.3 DEPTH TO WATER LEVEL SCENARIO (AUGUST 2023)

Depth to water level during August 2023 was measured from 1625 ground water monitoring wells. The distribution of wells in different depth ranges is depicted in *Figure 6.6.* The over all scenario, district wise GWMS measured are extracted from GWDES software, the database currently working at ER, Kolkata is presented in *Annexure-III*. Five groups were made based on the range of water levels, viz. 0-2, 2-5, 5-10, 10-20 and more than 20 m bgl. The maximum water level was recorded as 31.6 m bgl at Hizrole, Nabagram block of Murshidabad district. The minimum water level was recorded at above ground level at 0.04 m at Akhuta More, Ranibandh block in Bankura district.

6.3.1 DEPTH TO WATER LEVEL IN SHALLOW AQUIFERS (AUGUST 2023)

The ground water level data for August 2023 in shallow phreatic aquifers (*Table-6.2*) indicate that out of the total 740 wells monitored of which 56 % wells are showing water level less than 2 m bgl, 33% wells are showing water level in the depth range of 2-5 m bgl, 10 % wells are showing water level in the depth range of 5-10 m bgl and only 1% wells are showing water level in the depth range of 10-20 m bgl, none of the wells are showing water level in the depth range beyond 20m bgl (*Figure 6.6*). The maximum depth to water level of 17.4 m bgl recorded at Dakshin Harsura in Tapan of Dakshin Dinajpur district.

Table 6. 2:Categorisation of DTWL measured in Deeper and Shallow aquifers (Aug-2023)

August-23	Confined/Semiconfined (Deeper)		Unconfined (Shallow)	
Category	**Number**	**%**	**Number**	**%**
0-2	24	3	414	56
2-5	166	19	245	33
5-10	286	32	71	10
10-20	331	37	9	1
>20	79	9	0	0
Stations Analysed	**886**		**739**	
G.Total	**1625**			

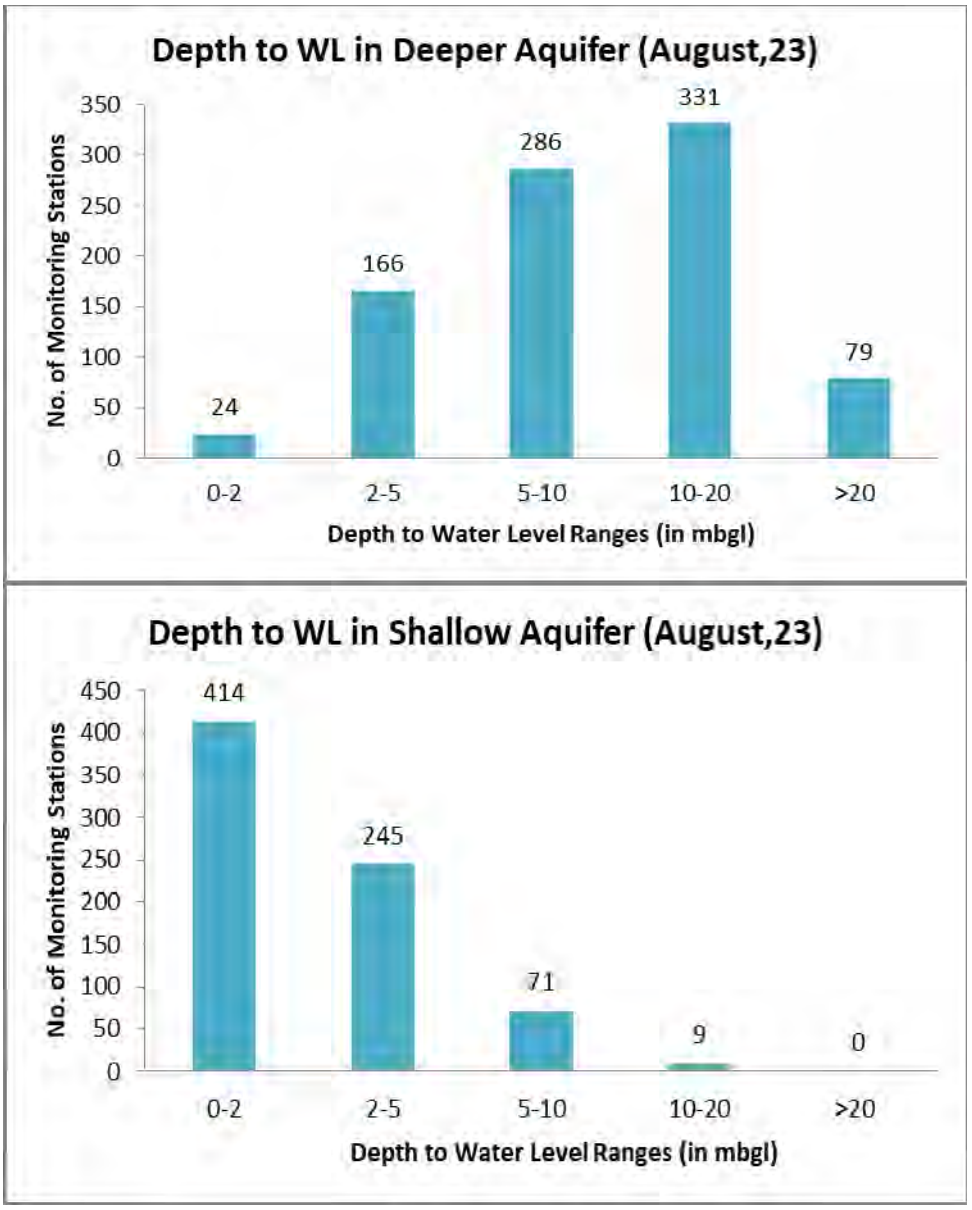


Figure-6. 6: Categorisation of DTWL measured in Deeper and Shallow aquifers (Aug-2023)

Water level within 0-2 m bgl is predominat in almost 56% of the area almost representing every district of West Bengal. 33 % of GWMS measured in August 23 in the shallow phreatic aquifer shows water level within the range of 2-5 m bgl, the areas are marked in green colour in the depth to water table map depicted in Figure-6.7 covering almost each district. Water level within 5-10 m bgl is found as isolated pockets in Jhargram, Bankura, Bhirbhum, Purba Bardhaman, Murshidabad, Nadia, Malda and Alipurduar districts of the state. Water level between 10 to 20 m bgl is found in scattered patches represented by only 1% of GWMS in the state. Deepest water level was recorded at Dakshin Harsura, 17.4 m bgl in Tapan of Dakshin Dinajpur district and lowest water level 0.03 m bgl was found at Akhuta More in Ranibandh block of Bankura District.

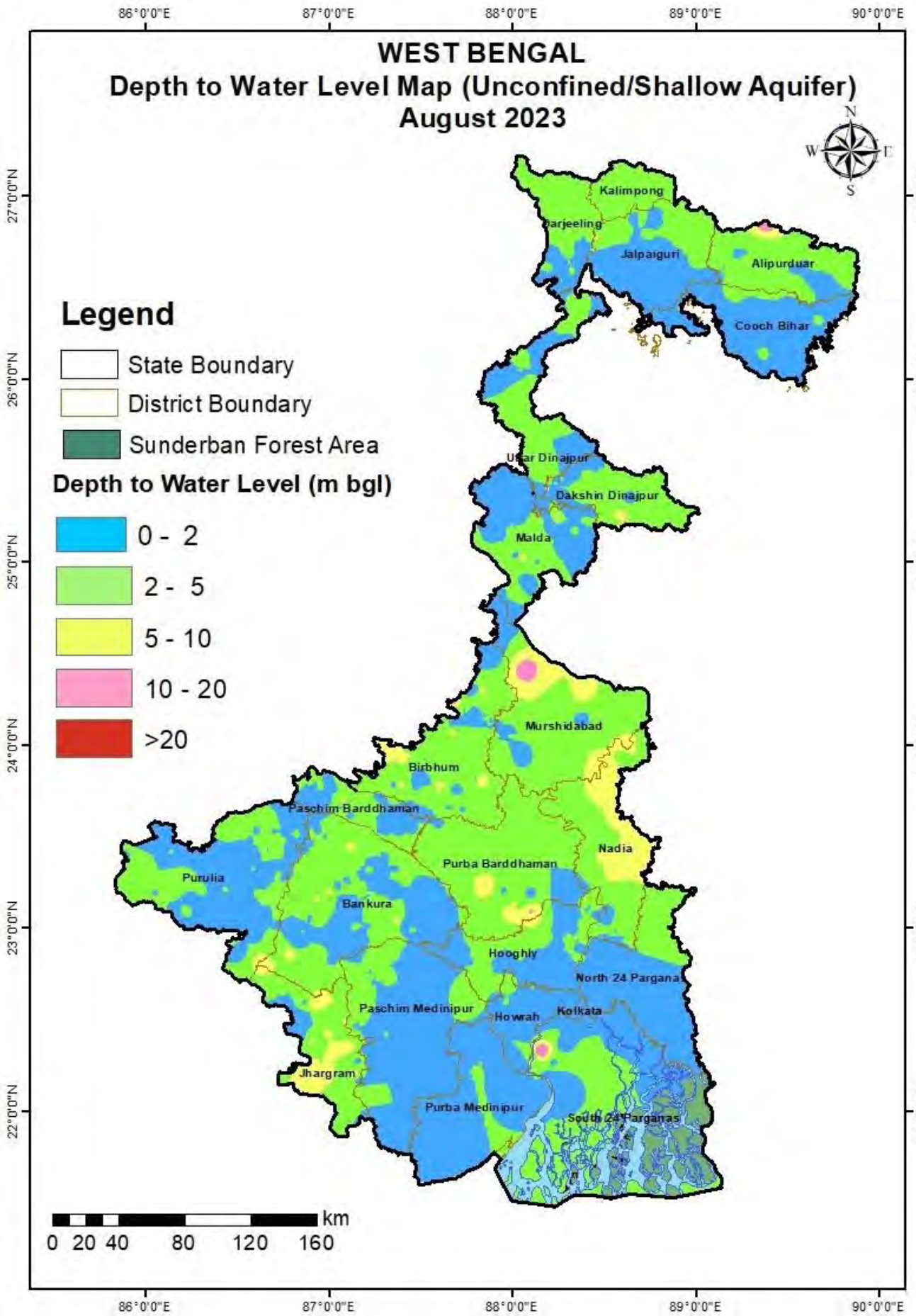


Figure-6. 7: Depth to Water Level in Shallow Aquifers (August 2023)

6.3.2 DEPTH TO WATER LEVEL IN DEEPER AQUIFERS (AUGUST 2023)

The ground water level data for August 2023 in deeper aquifers (*Table-6.2*) indicate that out of the total 885 wells analysed, 3 % number of wells are showing water level less than 2 m bgl, 19 % wells are showing water level in the depth range of 2-5 m bgl, 32% number of wells are showing water level in the depth range of 5-10 m bgl, 37% wells are showing water level in the depth range of 10-20 m bgl and 9% wells showing water level in the depth range beyond 20m bgl (*Figure 6.6*). The maximum depth to water level of 31.6 m bgl is observed at at Hizrole, Nabagram block of Murshidabad district.

From the depth to water level map of August-2023 for deeper aquifers (*Figure-6.8*) it is found that water level within 0-2 m bgl is in northern parts of the district covering Alipurduar, Jalpaigudi, Darjeeling and Cooch Bihar districts and also as scattered partches in parts of Nadia, Purulia, N 24 Parganas, Birbhum, Bankura districts. Water level between 2-5 m bgl is found mostly in eastern part and western districts of the state. Water level in the range of 5-10m bgl is mostly concentrated in part of Purulia, Bankura, Paschim Medinipur, Jhargram, Paschim Bardhaman, N 24 Parganas, S 24 Parganas and Darjeeling, Jalpaiguri, Kochbeha district in the north. In the central part of the state water level is mostly deep beyond 10 to 20 m covering 37% of the State includimng districts of S 24 Parganas, Paschim Medinipur, Howrah, Hooghly, Purba Bardhaman, Bhirbhum, Murshidabad, Malda, Dakshin Dinajpur and Kalimpong districts. Water level of >20m bgl are found as isolated patches in Murshidabad, Birbhum, Howrah, Purba Bardhaman, Malda, Kalimpong districts covering 9% GWMS of the district. Deepest water level recorded at Hizrole 31.62 m bgl, Nabagram block of Murshidabad district and lowest water level 0.12 m bgl was found at Bonkunda in Barasat- I block of N 24 Parganas District.

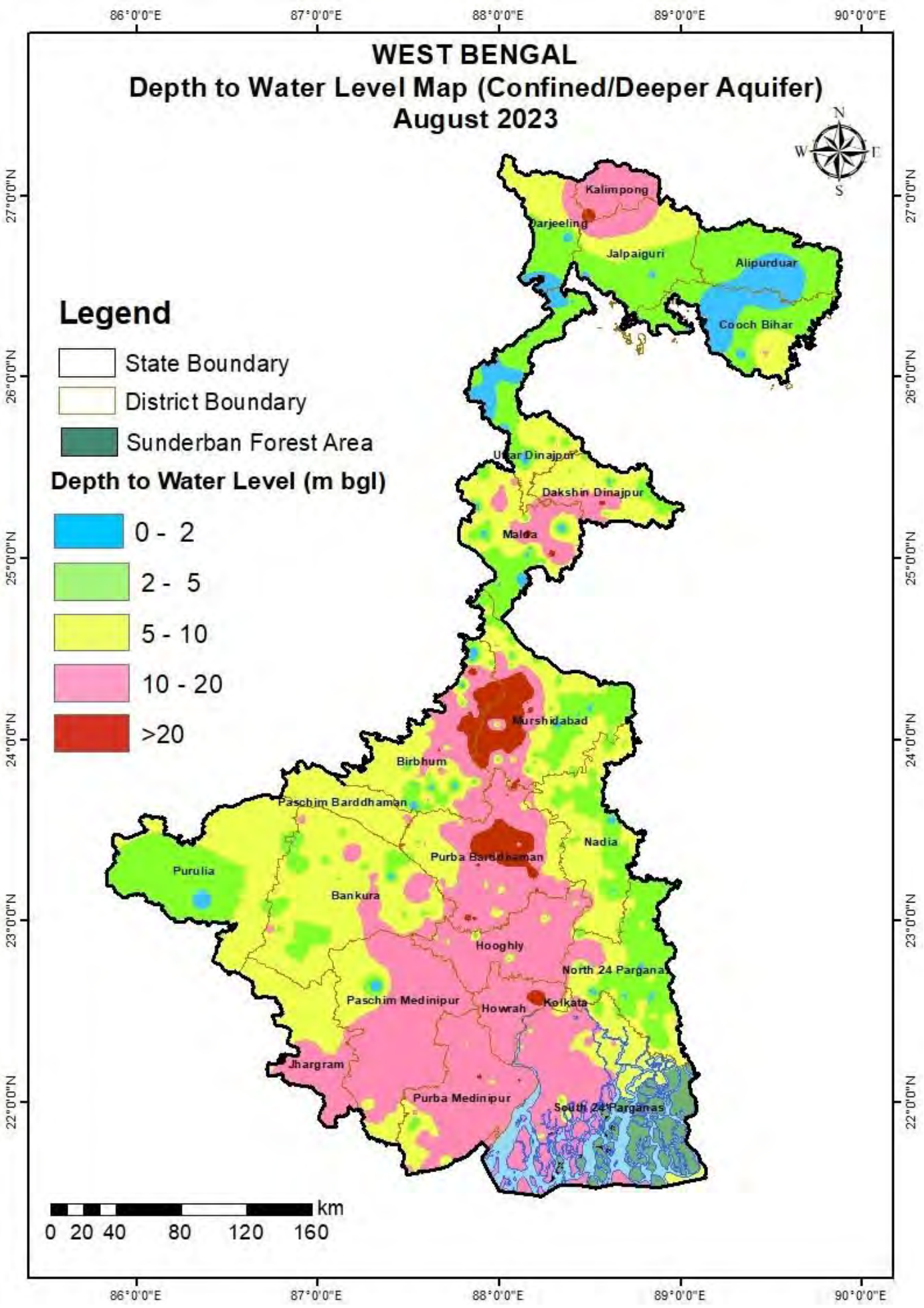


Figure-6. 8: Depth to Water Level Deeper Aquifers (August 2023)

6.4 DEPTH TO WATER LEVEL SCENARIO (POST-MONSOON 2023)

Depth to water level during November 2023 was measured from 1633 ground water monitoring wells. The distribution of wells in different depth ranges is depicted in *Figure 6.9.* The overall scenario, district wise GWMS measured are extracted from GWDES software, the database currently working at ER, Kolkata is presented in *Annexure-IV*. Five groups were made based on the range of water levels, viz. 0-2, 2-5, 5-10, 10-20 and more than 20 m bgl. The maximum water level was recorded as 32.3 m bgl at Hizrole, Nabagram block of Murshidabad district. The minimum water level was recorded at above ground level at 0.09 m bgl at Kulti, Kulti block in Paschim Barddhaman district.

6.4.1 DEPTH TO WATER LEVEL POST-MONSOON (NOV-2023) IN SHALLOW AQUIFERS

The ground water level data for November 2023 in shallow phreatic aquifers *(Table-6.3)* indicate that out of the total 743 wells analysed, 31 % wells are showing water level less than 2 m bgl. 56 % of wells are showing water level in the depth range of 2-5 m bgl, 12% wells are showing water level in the depth range of 5-10 m bgl and only 1% wells are showing water level in the depth range beyond 20m bgl *(Figure 6.9).* The maximum depth to water level of 20.05 m bgl is observed at Nungi, Maheshtala block of South 24 Parganas district and minimum water level was recorded at 0.09 m bgl at Kulti, Kulti block in Paschim Barddhaman district.

Table 6. 3: Categorisation of DTWL measured in Deeper and Shallow aquifers

(Post-Monsoon-2023)

November-23	Confined/Semiconfined (Deeper)		Unconfined (Shallow)	
Category	**Number**	**%**	**Number**	**%**
0-2	9	1	230	31
2-5	222	25	414	56
5-10	265	30	90	12
10-20	321	36	9	1
>20	73	8	0	0
Stations Analysed	**890**		**743**	
G.Total	**1633**			

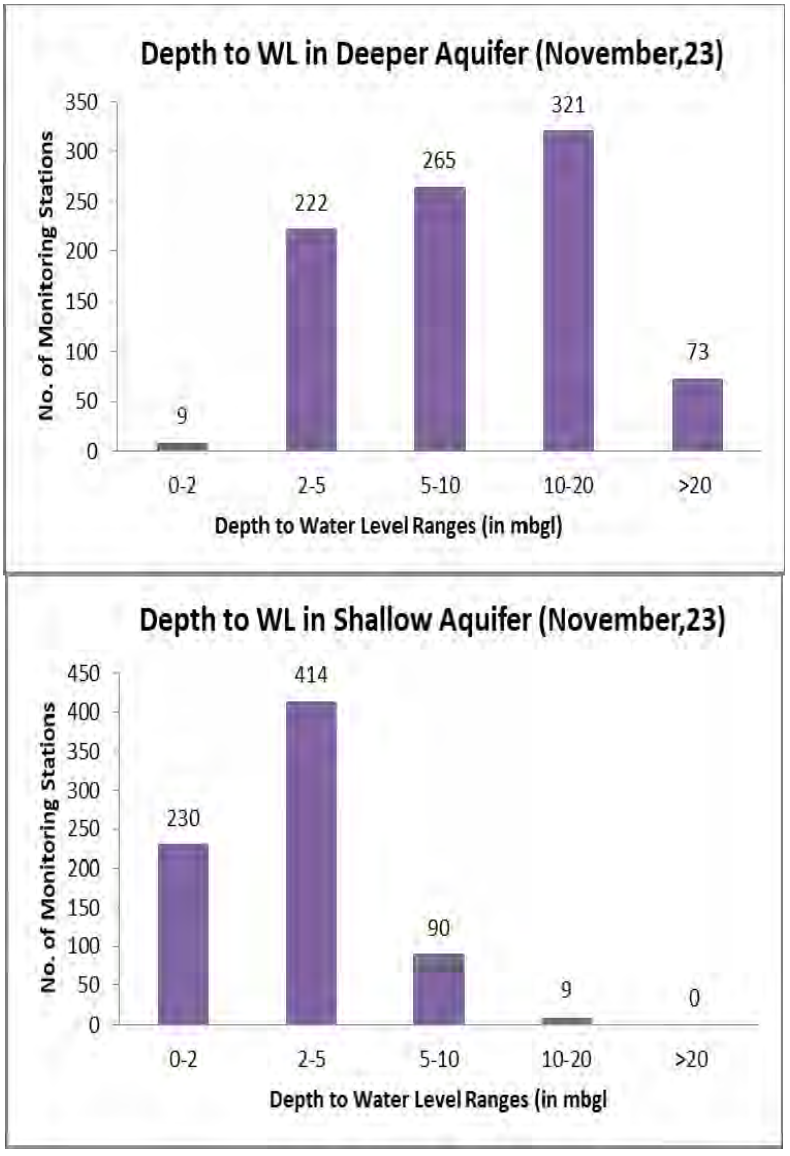


Figure-6. 9: Categorisation of DTWL measured in Deeper and Shallow Aquifers (Nov-23)

The depth to water level map for shallow aquifers of November-2023 (*Figure-6.10*) reveals that water level within the range of 0-2 m bgl and 2-5 m bgl are observed in almost all the districts of West Bengal, together they constitute 87% of the GWMS of the state. Water level in the range of 5-10 m bgl (12%) is found in isolated pockets in Jhargram, Bankura, Bhirbhum, Purba Bardhaman, Murshidabad, Nadia, Malda, Dakshin Dinajpur, Jalpaiguri and Alipurduar districts of the state. Water level between 10 to 20 m bgl (only 1%) is found in isolated pockets of Alipurduar in the north and Murshidabad, Paschim Medinipur, S-24 Parganas in the south. None of the area experienced deeper water level beyond 20m bgl in shallow aquifers of the state. Deepest water level was recorded at Jaigaon, 18.75 m bgl in Kalchini block of Alipurduar District and lowest water level 0.09 m bgl at Kulti, Kulti block in Paschim Barddhaman district.

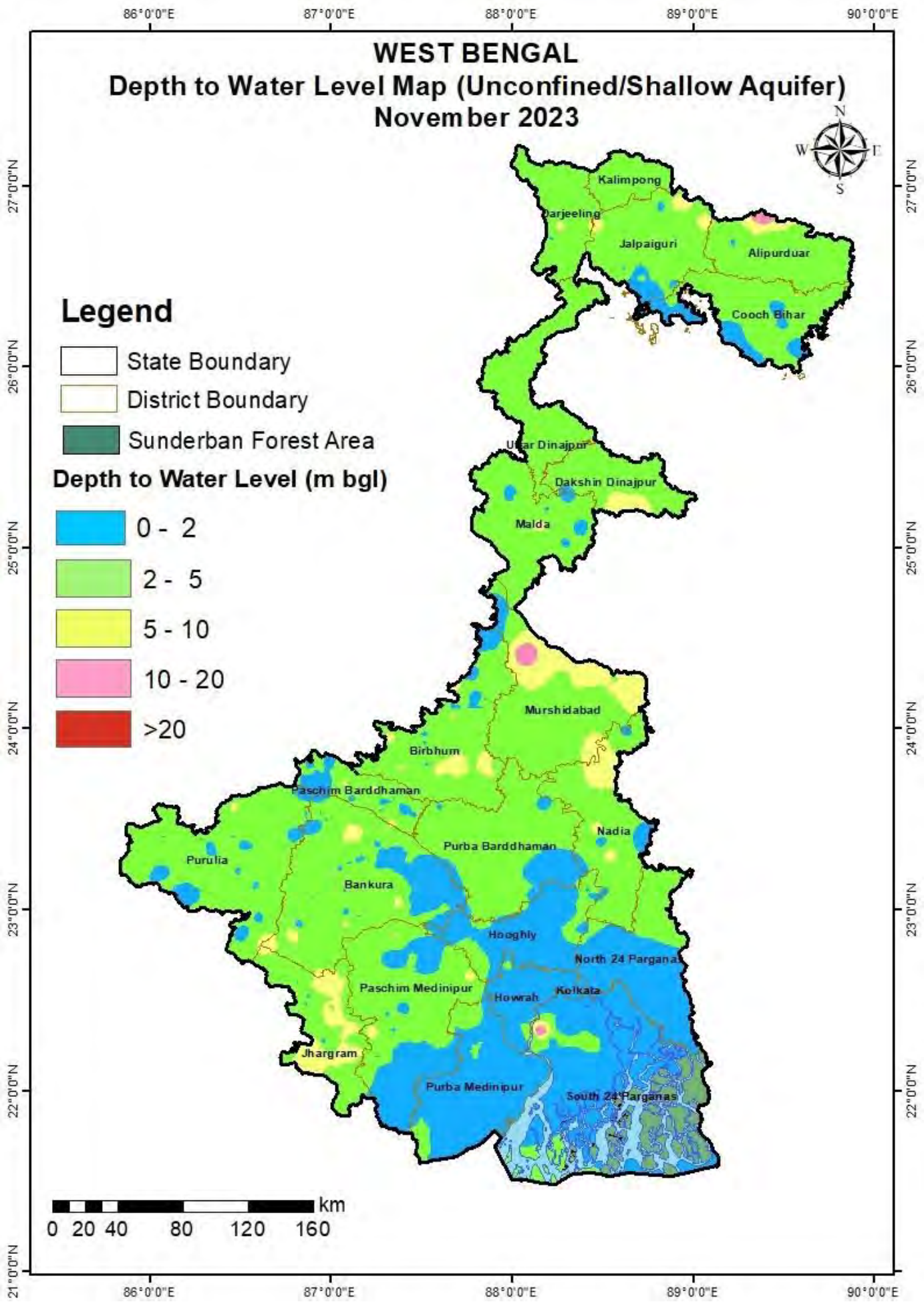


Figure-6. 10: Depth to Water Level Shallow Aquifers (November 2023)

6.4.2 DEPTH TO WATER LEVEL POST-MONSOON (NOV-2023) IN DEEPER AQUIFERS

The ground water level data for November 2023 in deeper aquifers *(Table-6.3)* indicate that out of the total 890 wells analysed, 1% wells are showing water level less than 2 m bgl. 25% wells are showing water level in the depth range of 2-5 m bgl, 30% of wells are showing water level in the depth range of 5-10 m bgl, 36% wells are showing water level in the depth range of 10-20 m bgl, and 8% of wells showing water level in the depth range beyond 20m bgl *(Figure 6.11).* The maximum depth to water level of 32.3 m bgl is observed at at Hizrole, Nabagram block of Murshidabad district and minimum water level was recorded at at 0.73 m bgl at Bojerhat, Bhangar Block in S-24 Parganas district.

From the depth to water level map of November-2023 for deeper aquifers *(Figure-6.11)* it is found that water level within 0-2 m bgl is scattered in few patches in N and S 24 Parganas Nadia, Birbhum, Bankura and in northern districts of Alipurduar, Cooch Bihar and Darjeeling. Water level between 2-5 m bgl (25%) is found mostly in eastern and Northern parts and in isolated pockets of western parts of the districts. Water level within 5-10m bgl is concentrated in parts of Purulia, Bankura, Paschim Medinipur, Jhargram, Paschim Bardhaman, Nadia, N 24 Parganas, S 24 Parganas, Murshidabad, Malda and Darjeeling, Jalpaiguri district in the north. Water level in range of 10-20m bgl (36%) is mostly concentrated in the Central stretch of the state depicted in pink colour in the water level map and Kalimpong district in the North. In central part of the state water level is mostly deep beyond 20 m covering the districts of Purban Bardhman, Birbhum, Murshidabad and Kalimpong districts.

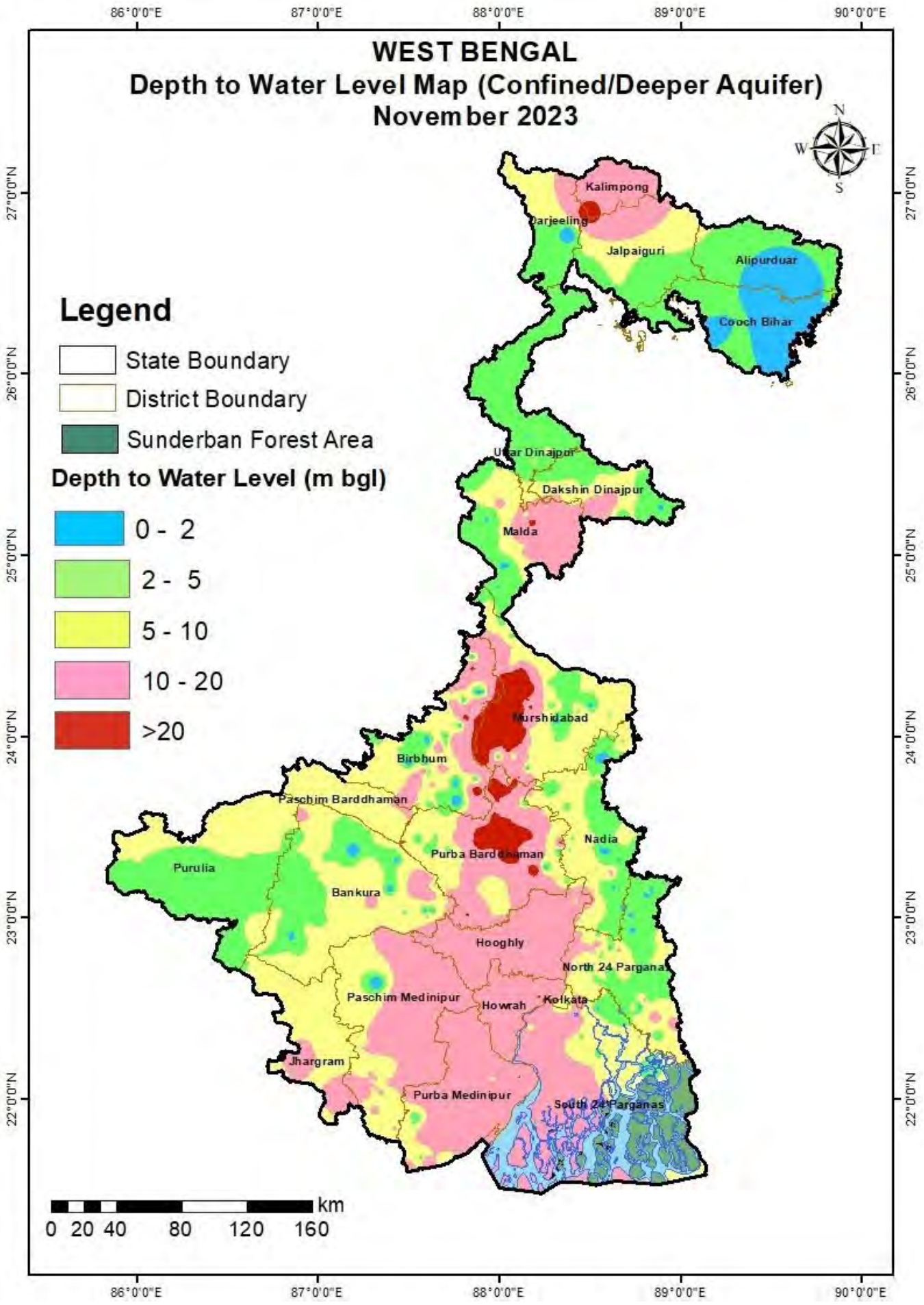


Figure-6. 11: Depth to Water Level in Deeper Aquifers (November 2023)

6.5. DEPTH TO WATER LEVEL SCENARIO (JANUARY 2024)

Depth to water level during January 2024 was measured from 1627 ground water monitoring wells. The distribution of wells in different depth ranges is depicted in *Figure 6.1.* The over all scenario, district wise GWMS measured are extracted from GWDES software, the database currently working at ER, Kolkata is presented in *Annexure-V*. Five groups were made based on the range of water levels, viz. 0-2, 2-5, 5-10, 10-20 and more than 20 m bgl. The maximum depth to water level of 32.9 m bgl is observed at Hizrole, Nabagram block of Murshidabad district and minimum water level was recorded at at 0.18 m bgl at Kulti, Kulti block in Paschim Barddhaman district.

6.5.1 DEPTH TO WATER LEVEL IN SHALLOW AQUIFERS (JANUARY-2024)

The ground water level data for January 2024 in shallow phreatic aquifers (Table-6.4) indicate that out of the total 761 wells analysed, 20% wells are showing water level less than 2 m bgl. 57% wells are showing water level in the depth range of 2-5 m bgl, 21 % are showing water level in the depth range of 5-10 m bgl, 3% wells are showing water level in the depth range of 10-20 m bgl, and none of the well showing water level in the depth range beyond 20m bgl (Figure 6.12). The maximum depth to water level of 21.9 m bgl is observed at Nungi, Maheshtala block of S-24 Parganas district and minimum water level was recorded at 0.18 m bgl at Kulti, Kulti block in Paschim Barddhaman district.

Table 6. 4: Categorisation of DTWL measured in Deeper and Shallow aquifers (Jan-2024)

January-24	Confined/Semiconfined (Deeper)		Unconfined (Shallow)	
Category	**Number**	**%**	**Number**	**%**
0-2	9	1	149	20
2-5	161	19	433	57
5-10	273	32	159	21
10-20	320	37	18	2
>20	104	12	1	0
Stations Analysed	**867**		**760**	
G.Total	**1627**			

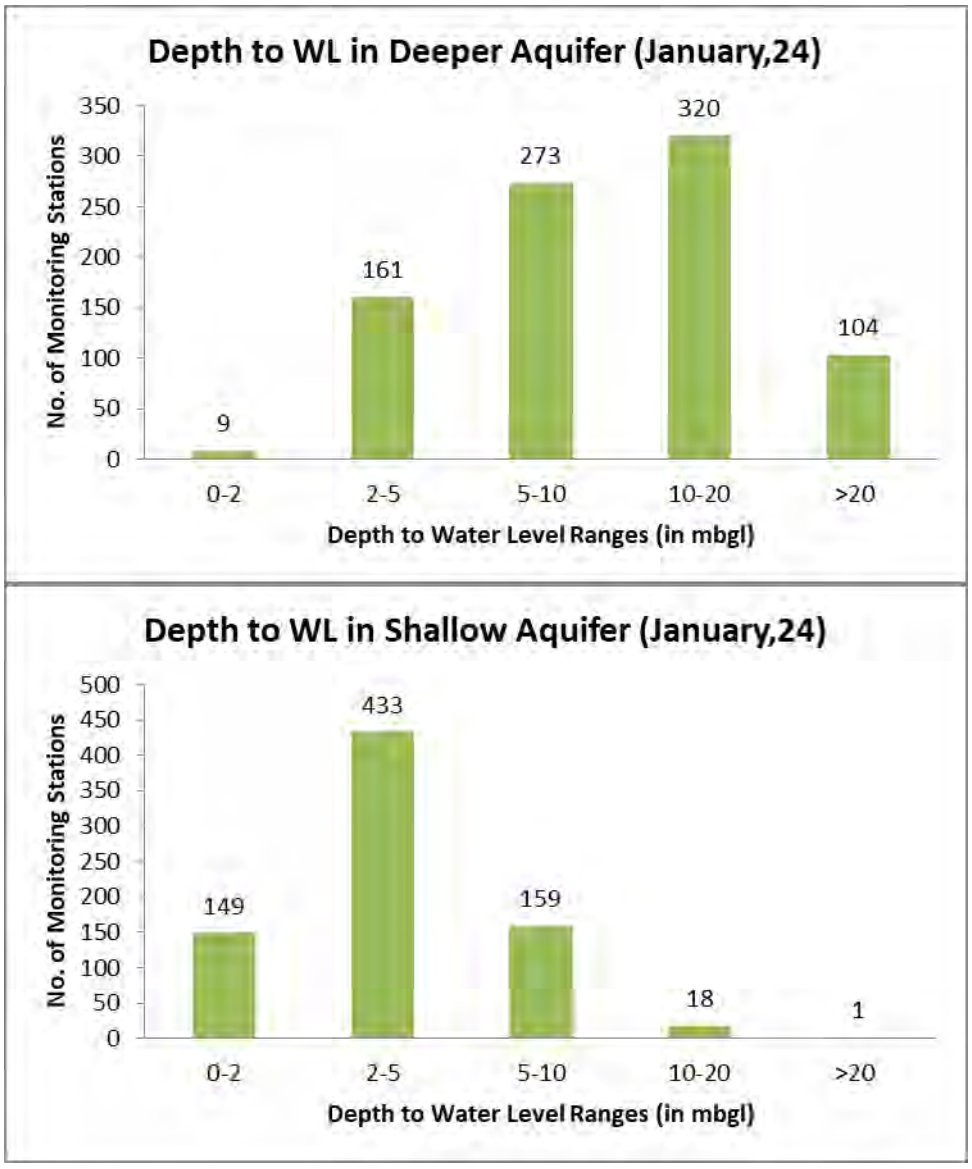


Figure-6. 12: Categorisation of DTWL measured in Deeper and Shallow aquifers (Jan-24)

The depth to water level map of January 2024 depicts that more than 20% of the GWMS are falling within the range of 0-2 m bgl mostly in the south-eastern part of State and as isolated patches in Paschim Barddhaman, Bankura, Purulia. Water level in the range of 2-5 covers 57% of the GWMS and represented by each and every district of the state *(*Figure-6.13). Water level in the range of 5-10 m bgl found in isolated pockets in Jhargram, Bankura, Bhirbhum, P a schim Medinipur, Murshidabad, Nadia, Malda, Dakshin Dinajpur, Darjeeling, Kalimpong, Jalpaiguri and Alipurduar districts of the state. Water level between 10 to 20 m bgl is found in scattered patches in Jhargram, Paschim Medinipur, Birbhum, Murshidabad, S 24 Parganas and Alipurduar district the state. Only one well in Alipurduar district is showing water level beyond 20m bgl. Deepest water level was recorded at Jaigaon,

21.7 m bgl in Kalchini block of Alipurduar District and lowest water level 0.18 m bgl at Kulti, Kulti block in Paschim Barddhaman district.

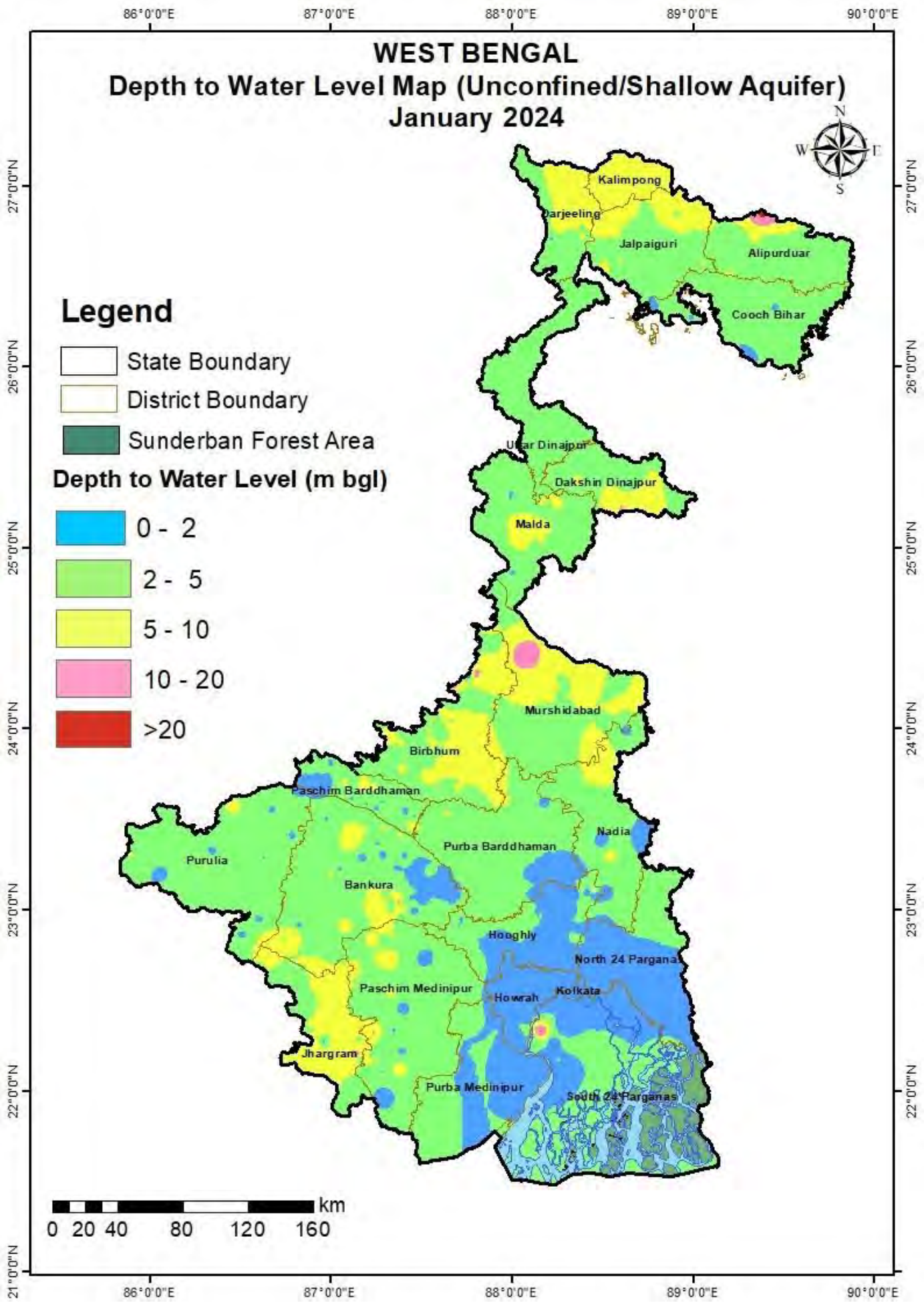


Figure-6. 13: Depth to Water Level in Shallow Aquifers (January 2024)

6.5.2 DEPTH TO WATER LEVEL IN DEEPER AQUIFERS (JANUARY-2024)

The ground water level data for January 2024 in deeper aquifers *(*Table-6.4*)* indicate that out of the total 866 wells analysed, only 1 % are showing water level less than 2 m bgl, 19 % are showing water level in the depth range of 2-5 m bgl, 32% are showing water level in the depth range of 5-10 m bgl, 37% wells are showing water level in the depth range of 10-20 m bgl and 12% showing water level in the depth range beyond 20m bgl *(*Figure 6.14). The maximum depth to water level of 32.9 m bgl is observed at Hizrole, Nabagram block of Murshidabad district and minimum water level of 0.44 m bgl is observed at Ratua, Ratua –I block of Maldah district.

From the depth to water level map of January 2024 for deeper aquifers (*Figure-6.14)* it is found that water level within 0-2 m bgl is found in isolated pockets in parts of Paschim Medinipur, Bankura, Birbhum, N-24 Parganas, Nadia, Malda and Cooch Bihar. Water level between 2-5 m bgl (19%) is found mostly in eastern and Northern parts and asisolated pockets in western parts of the districts. Water level within 5-10m bgl (31%) is concentrated in parts of Purulia, Bankura, Paschim Medinipur, Jhargram, Paschim Bardhaman, Nadia, N 24 Parganas, S 24 Parganas, Murshidabad, Malda and Darjeeling, Jalpaiguri district in the north. Water level in range of 10-20m bgl (37%) is mostly concentrated in the Central stretch of the state depicted in pink colour in the water level map and Kalimpong, Darjeeling district in the North. In the central part of the state water level is mostly deep beyond 20 m covering as patches in the districts of Purba and Paschim Medinipur, Purba Bardhman, Murshidabad, Malda districts and Kalimpong, Darjeeling district of North.

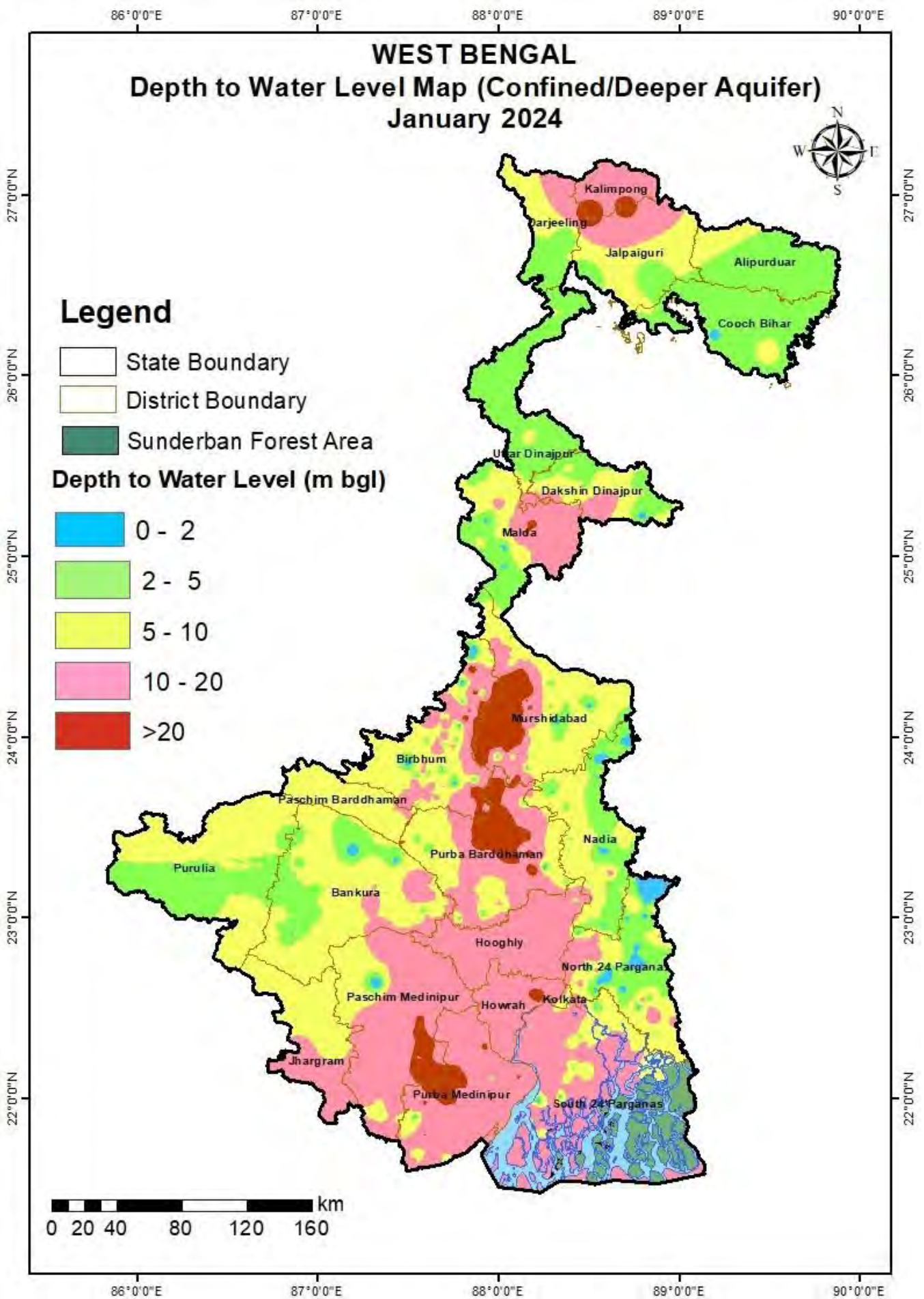


Figure-6. 14: Depth to Water Level in Deeper Aquifers (January 2024)

6.6 ANNUAL WATER LEVEL FLUCTUATIONS

The fluctuation in comparison to the same month in the previous year gives an idea about the change in the ground water level for a particular period with respect to that of the level during the same month in the previous year. This gives an idea about the change in the amount of draft and rainfall between the two years. The annual fluctuation in water levels for the periods (a) April 2022 and April 2023, (b) August 2022 and August 2023, (c) November 2022 and November 2023 (d) January 2023 and January 2024 have been analysed to study the ground water scenario during the previous and current year.

The water level fluctuation during the pre-monsoon period in comparison to previous year gives an idea about the seasonal fluctuation, which ultimately reflects the change in dynamic ground water resources. An attempt has been made to compare the pre- monsoon water levels of April 2023 with water levels of August 2023, November 2023 and January 2024 to delineate the impact of rainfall as well as extraction on ground water regime in the state during the above period.

The water levels of last 10 years mean (decadal) of the four measurements has been compared with the corresponding months of current measurements to evaluate the decadal fluctuation scenario and the behaviour of the ground water level on long-term basis of the state. For this, the mean water levels of April, August, November and January have been computed for all the available Ground Water Monitoring Wells for the last 10 years and compared with the water levels of the same month of the current measurement.

6.6.1 WATER LEVEL FLUCTUATION BETWEEN APRIL 2022 AND APRIL 2023

District wise Annual fluctuation in water level between April 2022 and April 2023 is depicted in Annexure VI. Out of 1127 analyzed wells, 849 wells are grouped under falling zone category and 278 wells are grouped under rising zone category (figure-6.15). Of these, overall, 68% of wells fall under 0-2 m category, which indicates that regional fluctuation of the state, is mainly restricted within 2 m. 17% of wells are under 2-4 m category and 14% of wells fall in >4 m category. Overall, there is rise in water level in only 25% wells and fall in 75% of wells in the State. Annual fluctuation in water level between April 2022 and April 2023 map is presented in Plate-I**.**

Shallow Aquifers

The *Table-6.5* Categorises the rise and fall of shallow and deeper aquifers.

In shallow aquifers in rising category 19% of wells are within the fluctuation of 0-2m, 3% are in 2-4m and 1% of wells are in the range of more than 4m. In the falling category 57% of wells are showing falling trend in 0-2m category covering each district of the State, 12% of wells are in the range of 2-4m and 7% of wells are showing >4m fluctuation of water level as isolated patches.

Deeper Aquifers

In deeper confined to semiconfined aquifers 15% of wells are showing rising trend in 0- 2m, 5% of wells are in the range of 2-4m and 6% of wells are showing >4m water level fluctuation. In the falling category 44% of confined aquifers are within the fluctuation of 0-2m, 14% are in 2-4m and 16% of wells are in the range of more than 4m. A perusal of the water table fluctuation map reveals that majority part of the state showed a rising water level fluctuation. The overall scenario of the state in confined aquifer shows that there is good rechage taking place due to rainfall and the draft are comparatively less.

Table 6. 5: Categorisation of Water Level Fluctuation measured in Deeper and Shallow aquifers (Apr-22 to Apr-23)

Aquifer Type	Stations Analysed	Rise						Fall					
		0-2		2-4		>4		0-2		2-4		>4	
		Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Shallow	628	121	19	16	3	9	1	360	57	75	12	47	7
Deeper	499	76	15	26	5	30	6	219	44	68	14	80	16
Total	1127	197	17	42	4	39	3	579	51	143	13	127	11

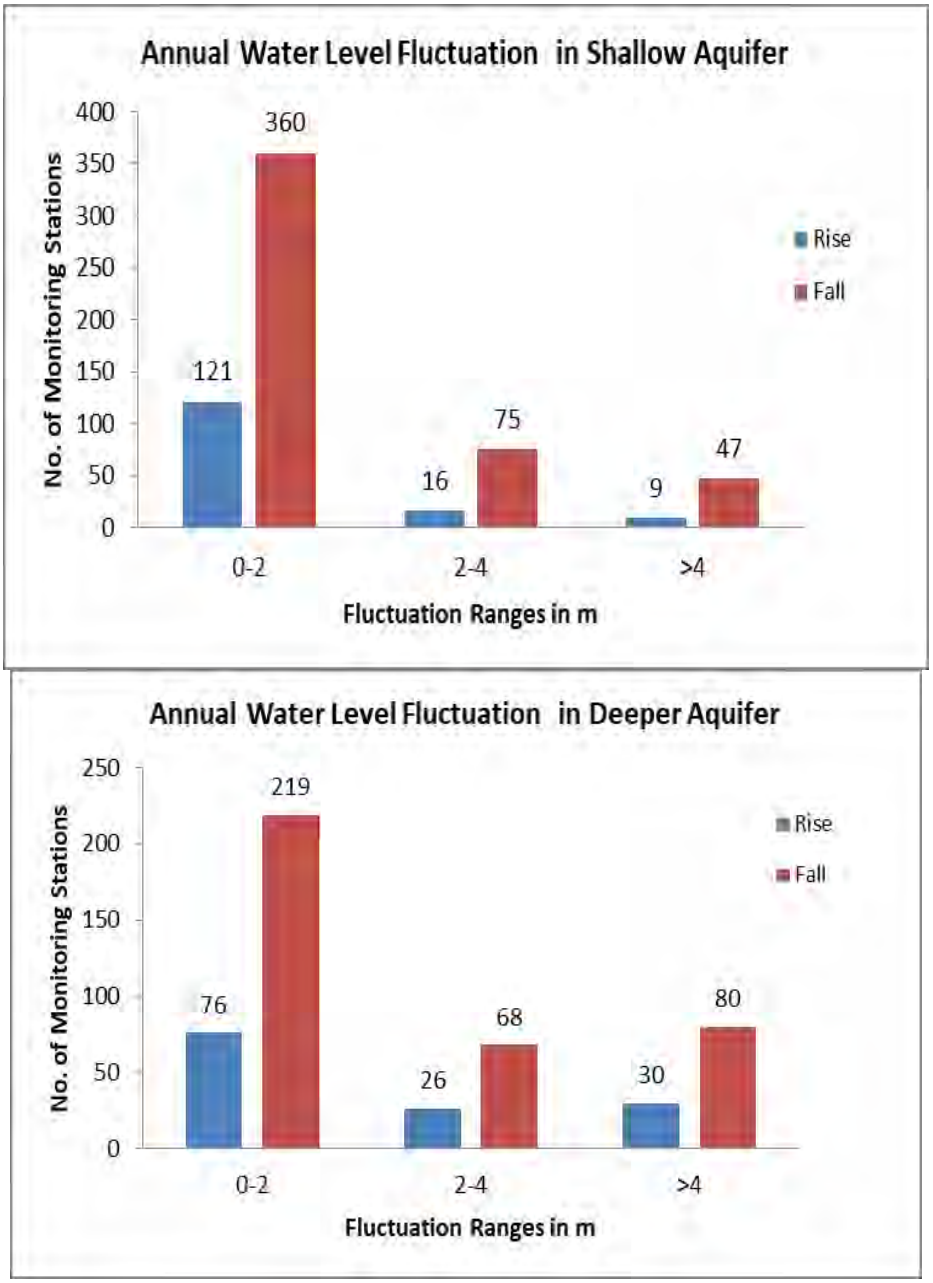


Figure-6. 15: Categorisation of DTWL measured in Shallow and Deeper aquifers (Apr-22 to Apr-23)

6.6.2 WATER LEVEL FLUCTUATION BETWEEN AUGUST 2022 AND AUGUST 2023

The fluctuation in water level between August 2022 and August 2023 indicates net status of ground water conditions during the previous and current year monsoon period. Annual fluctuation in water level between August 2022 and August 2023 is mostly restricted within the range of 0-2 m. Out of 1332 analyzed wells, 757 wells are grouped under falling zone category and 575 wells are grouped under rising zone category (figure-6.16). Of these, 74% wells fall under 0-2m category which indicates that regional fluctuation of the state is mainly restricted within 2 m category and 16% wells fall under 2-4m category while 10% wells fall under >4 m category. The district-wise frequency distribution of

GWMS falling in different ranges of water level fluctuation is given in Annexure-VII**.** Annual fluctuation in water level between August 2022 and August 2023 map is presented in Plate –II

Shallow Aquifers

The *Table-6.6* categorises the rise and fall of shallow and deeper aquifers.

In shallow aquifers in rising category 39% of wells are within the fluctuation of 0-2m, 8% are in 2-4m and 4% of wells are in the range of more than 4m. In the falling category 44% of wells are showing falling trend in 0-2m category, 4% of wells are in the range of 2-4m and 2% of wells are showing >4m fluctuation of water level.

Deeper Aquifers

In deeper confined to semiconfined aquifers 24% of wells are showing rising trend in 0-2m category, 5% of wells are in the range of 2-4m and 5% of wells are showing >4m fluctuation of water level. In the falling category 40% of confined aquifers are within the fluctuation of 0-2m, 16% are in 2-4m and 10% of wells are in the range of more than 4m (*Table-6.6)*.

Table 6. 6: Categorisation of Water Level Fluctuation measured in Deeper and Shallow aquifers (Aug-22 to Aug-23)

Aquifer Type	Stations Analysed	Rise						Fall					
		0-2		2-4		>4		0-2		2-4		>4	
		Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Shallow	711	278	39	55	8	29	4	310	44	25	4	14	2
Deeper	621	151	24	32	5	30	5	246	40	100	16	62	10
Total	1332	429	32	87	7	59	4	556	42	125	9	76	6

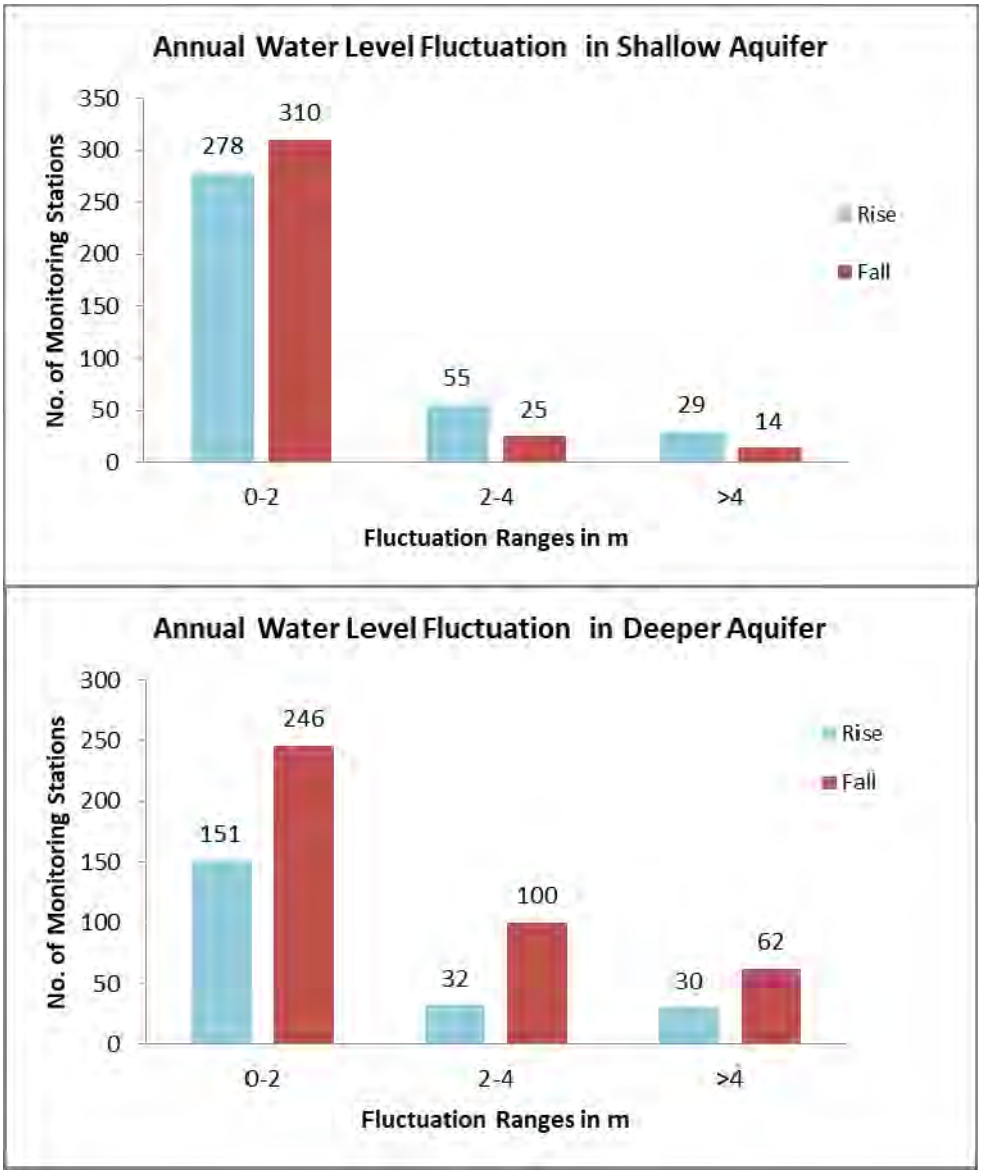


Figure-6. 16: Categorisation of DTWL measured in Shallow and Deeper aquifers (Aug-22 to Aug-23)

6.6.3 WATER LEVEL FLUCTUATION BETWEEN NOVEMBER 2022 AND NOVEMBER 2023

The Annual fluctuation in water level between November 2022 and November 2023 indicates the net status of ground water conditions during the previous and current post-monsoon year and the same is presented in *Plate-III*. Fluctuation in water level have been analysed for 1364 wells. The district-wise frequency distribution of GWMS falling in different ranges of water level fluctuation is given in *Annexure-VIII.*

Annual fluctuation in water level between November 2022 and November 2023 is mostly restricted within the range of 0-2 m. Out of 1364 analyzed wells, 655 wells are grouped under falling zone category and 709 wells are grouped under rising zone category (figure-6.17). 0-2m rise is observed in 43% wells, 2-4 m rise in water level is observed in 6% wells >4 m rise in water level is observed only in 3% wells.

On the other hand, in falling category, 0-2 m fall is observed in 35%, 2-4 m fall in water level is observed in 8% wells and >4 m fall in water level is observed in 5% wells.

Shallow Aquifers

The *Table-6.7* Categorises the rise and fall of GWMS in shallow and deeper aquifers.

In shallow aquifers, in rising category 56% of wells are within the fluctuation of 0-2m, 6% are in 2-4m and 2% of wells are in the range of more than 4m. In the falling category 32% of wells are showing falling trend in 0-2m category, 4% of wells are in the range of 2-4m and 1% of wells are showing >4m fluctuation of water level.

Deeper Aquifers

Similarly, in confined to semi-confined aquifers 30% of wells are showing rising trend in 0-2m, 6% of wells are in the range of 2-4m and 4% of wells are showing >4m fluctuation water level. In the falling category 37% of confined aquifers are within the fluctuation of 0- 2m, 13% are in 2-4m and 10% of wells are in the range of more than 4m *Table-6.7*. The water table fluctuation map is presented in *Plate-III.*

Table 6. 7: Categorisation of Water Level Fluctuation measured in Deeper and Shallow aquifers (Nov-22 to Nov-23)

Aquifer Type	Stations Analysed	Rise						Fall					
		0-2		2-4		>4		0-2		2-4		>4	
		Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Shallow	699	390	56	41	6	12	2	226	32	25	4	5	1
Deeper	665	201	30	39	6	26	4	248	37	87	13	64	10
Total	1364	591	43	80	6	38	3	474	35	112	8	69	5

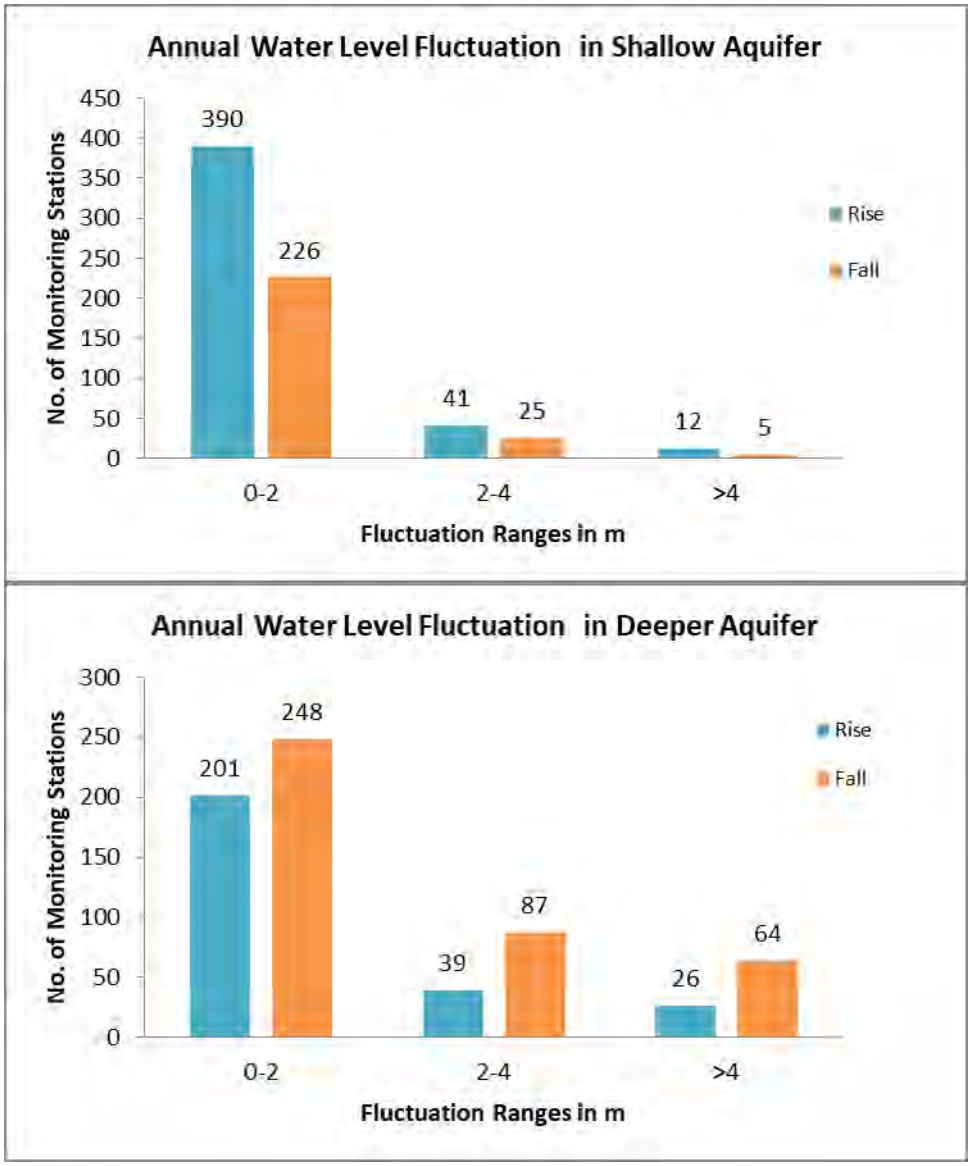


Figure-6. 17: Categorisation of DTWL measured in Shallow and Deeper aquifers (Nov-22 to Nov-23)

6.6.4 WATER LEVEL FLUCTUATION BETWEEN JANUARY 2023 AND JANUARY 2024

The annual fluctuation in water level between January 2023 and January 2024 indicates the net status of ground water condition during the previous and current measurement during recession period. Annual fluctuation in water level between January 2023 and January 2024 is mostly restricted within the range of 0-2 m. Out of 1382 analyzed wells, 844 wells are grouped under rising zone category and 538 wells are grouped under falling zone category (figure-6.18).. The district-wise frequency distribution of GWMS falling in different ranges of water level fluctuation is given in *Annexure-IX.* Annual fluctuation in water level between January 2023 and January 2024 map is presented in *Plate –IV.*

Annual fluctuation in water level between January 2023 and January 2024 is mostly restricted within the range of 0-2 m. Out of 1382 analyzed wells, 0-2m rise is observed in 51% wells, 2-4 m rise in water level is observed in 6% wells >4 m rise in water level is observed only in 3% wells. On the other hand, in falling category, 0-2 m fall is observed in 28%, 2-4 m fall in water level is observed in 6% wells and >4 m fall in water level is observed in 4% wells.

Shallow Aquifers

The Table 6.8 categorises the rise and fall of GWMS in shallow and deeper aquifers.

In shallow aquifers, in rising category 58% of wells are within the fluctuation of 0-2m, 6% are in 2-4m and 2% of wells are in the range of more than 4m. In the falling category 28% of wells are showing falling trend in 0-2m category, 4% of wells are in the range of 2-4m and 2% of wells are showing >4m fluctuation of water level.

Deeper Aquifers

Similarly, in confined to semi-confined aquifers 44 % of wells are showing rising trend in 0- 2m, 7% of wells are in the range of 2-4m and 5% of wells are showing >4m fluctuation water level. In the falling category 28% of confined aquifers are within the fluctuation of 0-2m, 8% are in 2-4m and 7 % of wells are in the range of more than 4m.

Table 6. 8: Categorisation of Water Level Fluctuation measured in Deeper and Shallow aquifers (Jan-23 to Jan-24)

Aquifer Type	Stations Analysed	Rise						Fall					
		0-2		2-4		>4		0-2		2-4		>4	
		Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Shallow	710	412	58	40	6	14	2	202	28	29	4	13	2
Deeper	672	296	44	49	7	33	5	190	28	57	8	47	7
Total	1382	708	51	89	6	47	3	392	28	86	6	60	4

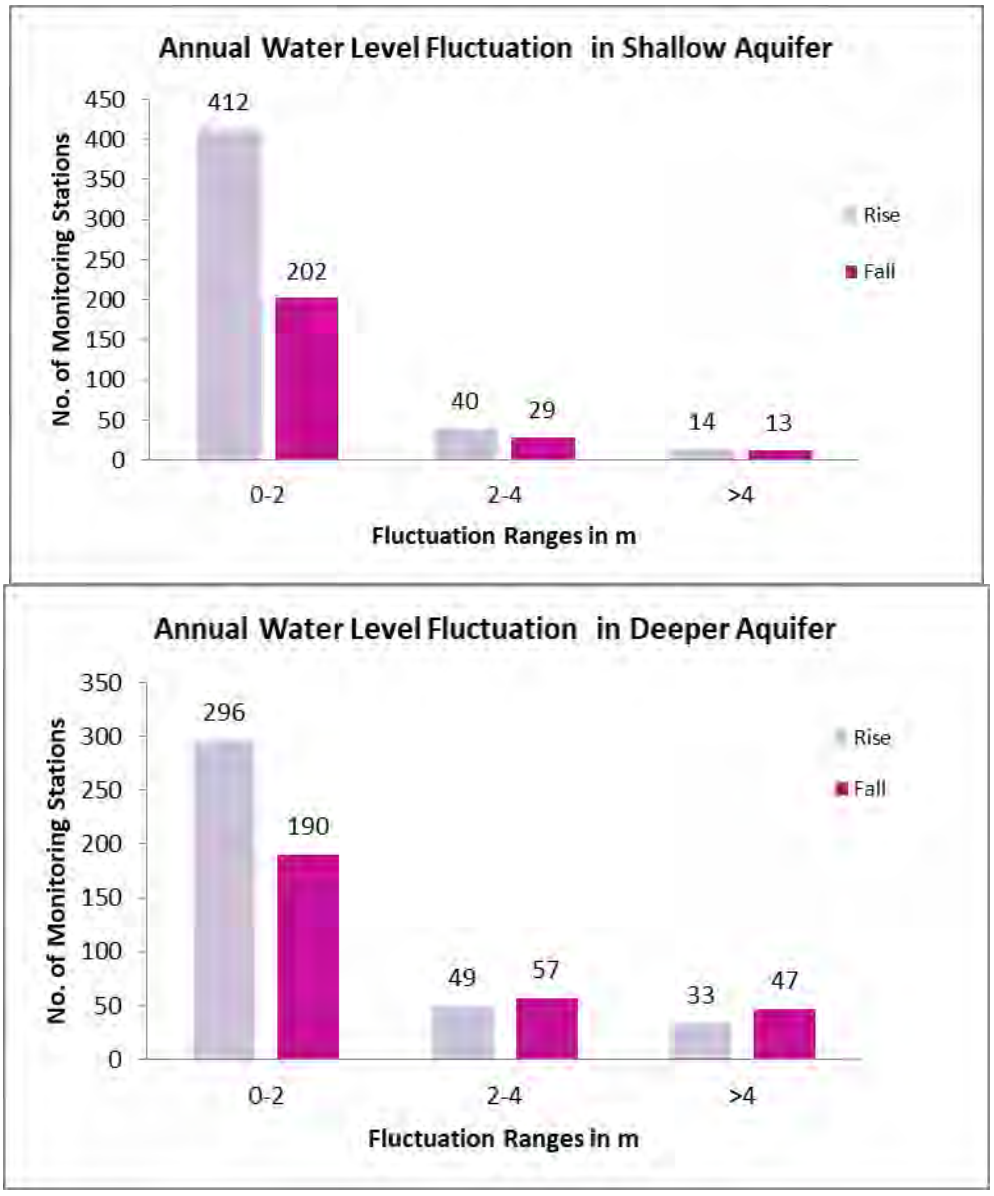


Figure-6. 18: Categorisation of DTWL measured in Shallow and Deeper aquifers (Jan-23 to Jan-24)

6.7. SEASONAL WATER LEVEL FLUCTUATIONS

6.7.1 SEASONAL WATER LEVEL FLUCTUATION BETWEEN APRIL 2023 AND AUGUST 2023

Seasonal fluctuation in water level between April 2023 and August 2023 is dominated by rising pattern. Out of 1407 analyzed wells, 244 wells show falling trend and 1163 wells are grouped under rising trend (figure-6.19). Normal rainfall of the year resulted into rise in water level in all categories dominated by 0-2 m (33%) rising category, followed by 2 - 4 m (25 %) and >4 m (25%) rising category. Fall is mostly restricted within 0 - 2 m category (10 %) followed by 2-4mbgl (4%) and >4 m bgl (3%). District-wise status of distribution of network hydrograph stations with different ranges of depth to water level is presented in *Annexure-X.* The water level fluctuation map is presented in *Plate-V.*

Shallow Aquifers

The table-6.9 categorises the rise and fall of GWMS in shallow and deeper aquifers.

In shallow aquifers, in rising category 36% of wells are within the fluctuation of 0-2m, 33% are in 2-4m and 26% of wells are in the range of more than 4m. In the falling category 4% of wells are showing falling trend in 0-2m category, 1% of wells are in the range of 2-4m and only 2 wells are showing >4m fluctuation of water level. The western and northern part of the State is dominated by >2m rise in water level while the eastern part has water level fluctuation in the range 0-2 m rise. Only 5% wells show fall in water level as islolated patches in S-24 Parganas, Hooghly, Purba Bardhaman and Nadia.

Deeper Aquifers

Similarly, in confined to semi-confined aquifers 30% of wells are showing rising trend in 0- 2m, 17% of wells are in the range of 2-4m and 24% of wells are showing >4m fluctuation water level. In the falling category only 16 % of confined aquifers are within the fluctuation of 0-2m, 7% are in 2-4m and 6 % of wells are in the range of more than 4m.

Table 6. 9: Categorisation of Seasonal Water Level Fluctuation measured in Deeper and Shallow aquifers (Apr-23 to Aug-23)

Aquifer Type	Stations Analysed	Rise						Fall					
		0-2		2-4		>4		0-2		2-4		>4	
		Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Shallow	675	240	36	225	33	177	26	25	4	6	1	2	0
Deeper	732	221	30	126	17	174	24	114	16	50	7	47	6
Total	1407	461	33	351	25	351	25	139	10	56	4	49	3

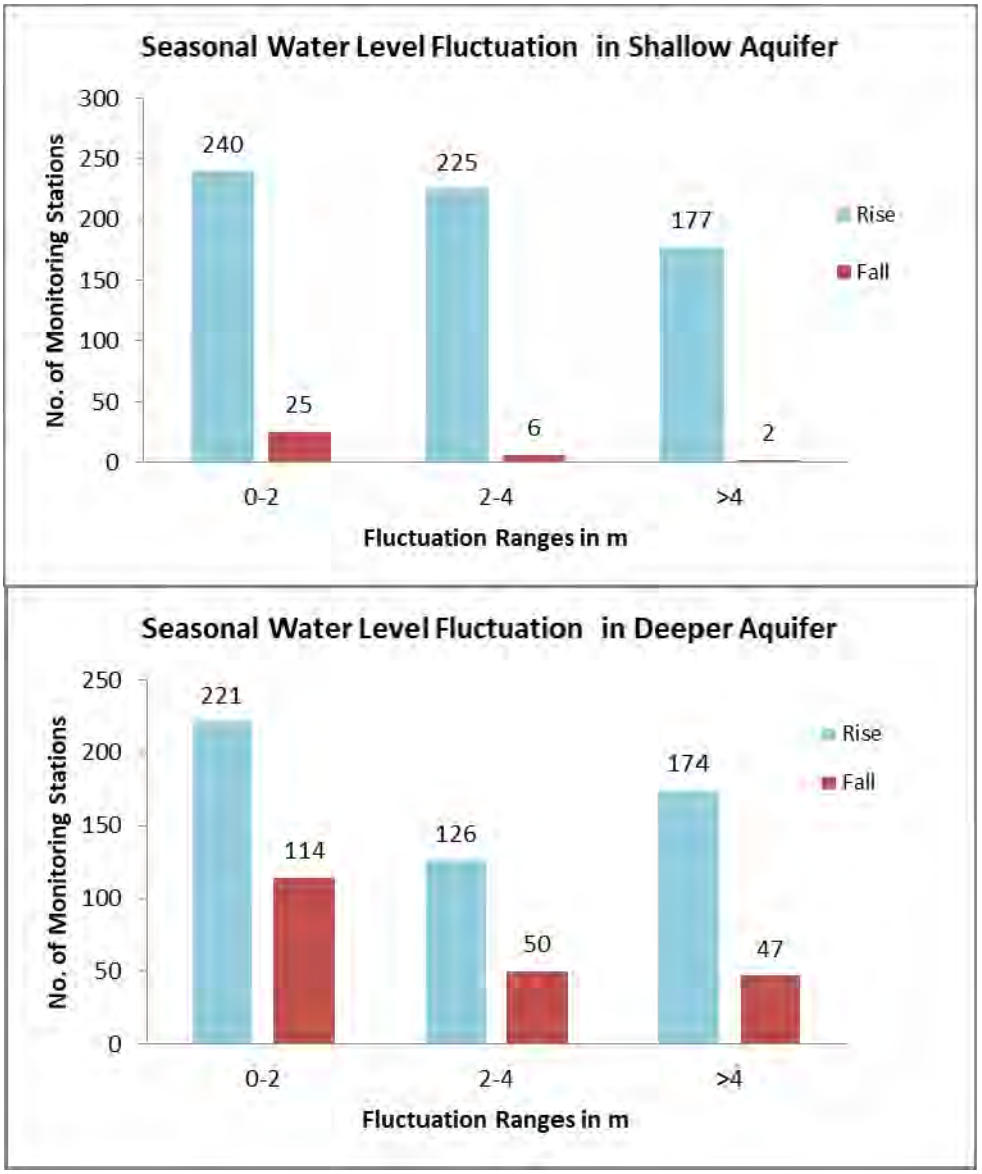


Figure-6. 19: Categorisation of DTWL measured in Shallow and Deeper aquifers (Apr-23 to Aug-23)

6.7.2 SEASONAL WATER LEVEL FLUCTUATION BETWEEN APRIL 2023 AND NOVEMBER 2023

The seasonal fluctuation in water level between April 2023 and November 2023 indicates the change in water level from pre-monsoon measurement to post-monsoon measurement. The district-wise statement of distribution of network hydrograph stations in different ranges of water level fluctuation is presented in *Annexure-XI*. Seasonal fluctuation in water level between April 2023 and November 20223 is dominated by rising pattern. Out of 1395 analyzed wells, 1195 wells show rising trend and 200 wells are grouped under falling trend

(figure-6.20).

Rise in water level is dominated by 0-2 m (42%) rising category, followed by 2 - 4 m (24%), >4 m (20%) rising category. Fall is mostly restricted within 0 - 2 m category (9%) followed by 2 - 4 m (2%), >4 m (3%) falling category. Annual fluctuation in water level between April 2023 and November 2023 map is presented in *Plate – VI.*

Shallow Aquifers

The *Table-6.10* categorises the rise and fall of GWMS in shallow and deeper aquifers. In shallow aquifers, in rising category 46% of wells are within the fluctuation of 0-2m, 29% are in 2-4m and 18% of wells are in the range of more than 4m. In the falling category 5% of wells are showing falling trend in 0-2m category, 1% of wells are in the range of 2-4m and only 2 wells are showing >4m fluctuation of water level. The western and central part of the State is dominated by >2m rise in water level while the eastern and northern part has water level fluctuation in the range 0-2 m rise. Only 6% wells shows fall in water level as islolated patches in Nadia, N-24 Parganas, Paschim Medinipur and Purba Bardhaman.

Deeper Aquifers

Similarly, in confined to semiconfined aquifers 38% of wells are showing rising trend in 0- 2m, 19% of wells are in the range of 2-4m and 21% of wells are showing >4m fluctuation water level. In the falling category 13% of confined aquifers are within the fluctuation of 0- 2m, 3 % are in 2-4m and 6 % of wells are in the range of more than 4m.

Table 6. 10: Categorisation of Seasonal Water Level Fluctuation measured in Deeper and Shallow aquifers (Apr-23 to Nov-23)

Aquifer Type	Stations Analysed	Rise						Fall					
		0-2		2-4		>4		0-2		2-4		>4	
		Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Shallow	692	316	46	203	29	127	18	35	5	9	1	2	0
Deeper	703	265	38	135	19	149	21	91	13	23	3	40	6
Total	1395	581	42	338	24	276	20	126	9	32	2	42	3

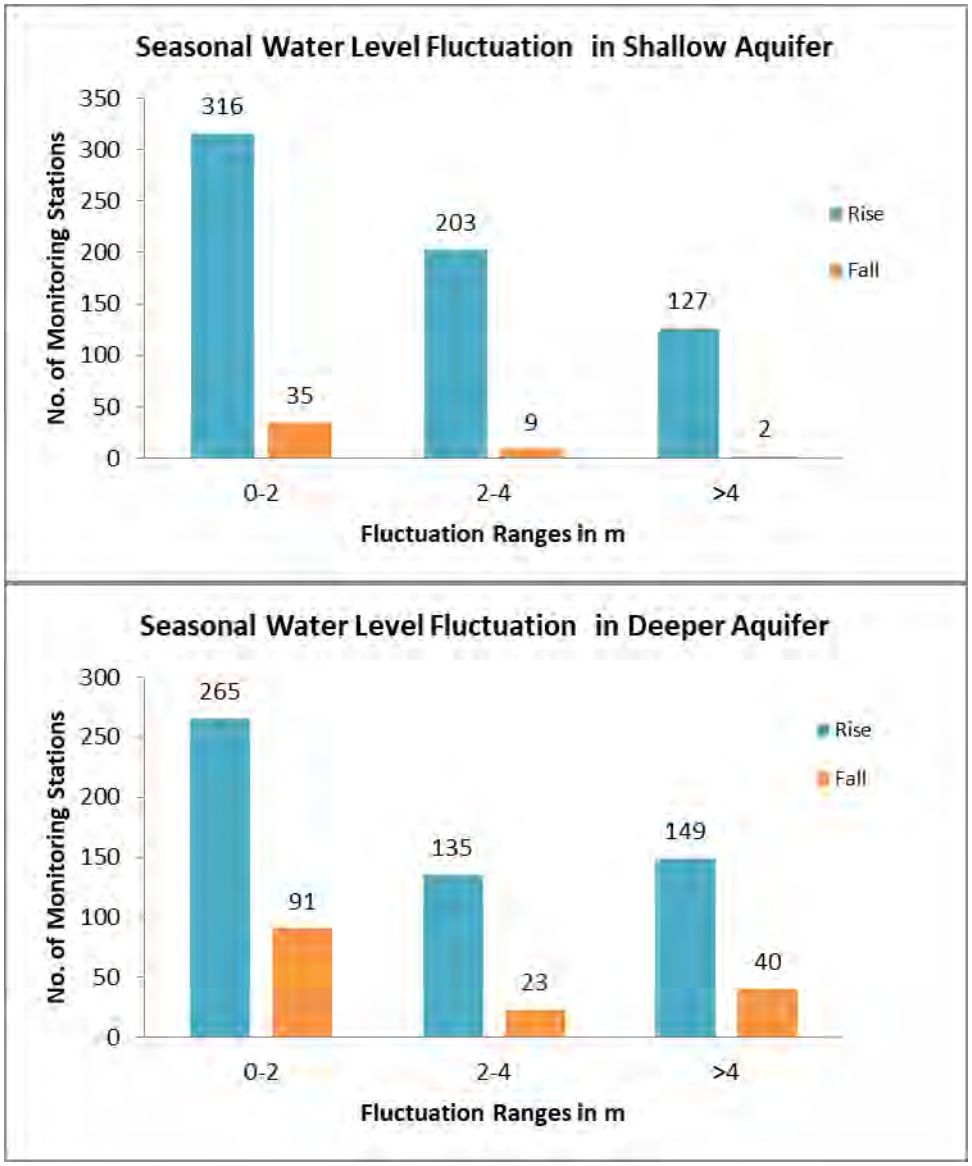


Figure-6. 20: Categorisation of DTWL measured in Shallow and Deeper aquifers (Apr-23 to Nov-23)

6.7.3 SEASONAL WATER LEVEL FLUCTUATION BETWEEN APRIL 2023 AND JANUARY 2024

The fluctuation in water level between April 2023 and January 2024 indicates the change in water level from pre-monsoon measurement to recession period of water level. Fluctuation in water level between April 2023 and January 2024 is mostly dominated by rise in water level. Out of 1383 analyzed wells, 1088 wells are grouped under rising zone category and 295 wells are grouped under falling zone category (figure-6.21).

Rise in water level is dominated by 0 -2 m (46 %) rising category, followed by 2 - 4 m (19%) and >4 m (14%) in rising category. Significant fall 0-2 m (13%) has been observed in almost all districts, followed by 2 - 4 m (4%) and >4 m (4%). The district-wise frequency distribution of GWMS falling in different ranges of water level fluctuation is given in *Annexure-XII* and fluctuation in water level between April 2023 and January 2024 map is presented in *Plate – VII.*

Shallow Aquifers

The *Table-6.11* categorises the rise and fall of GWMS in shallow and deeper aquifers.

For shallow aquifers, in rising category 50% of wells are within the fluctuation of 0-2m, 22% are in 2-4m and 14% of wells are in the range of more than 4m. In the falling category 12% of wells are showing falling trend in 0-2m category, 1% of wells are in the range of 2-4m and 1% of wells are showing >4m fluctuation of water level. The State is mostly dominated by fluctuation in the range of 0-2m water level while >2m fluctuation can be seen as isolated patches.

Deeper Aquifers

Similarly, in confined to semi-confined aquifers 41% of wells are showing rising trend in 0- 2m, 15% of wells are in the range of 2-4m and 15% of wells are showing >4m fluctuation water level. In the falling category 15% of confined aquifers are within the fluctuation of 0- 2m, 6% are in 2-4m and 9 % of wells are in the range of more than 4m.

Table 6. 11: Categorisation of Seasonal Water Level Fluctuation measured in Deeper and Shallow aquifers (Apr-23 to January-24)

Aquifer Type	Stations Analysed	Rise						Fall					
		0-2		2-4		>4		0-2		2-4		>4	
		Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Shallow	703	350	50	158	22	97	14	84	12	10	1	4	1
Deeper	680	280	41	103	15	100	15	99	15	40	6	58	9
Total	1383	630	46	261	19	197	14	183	13	50	4	62	4

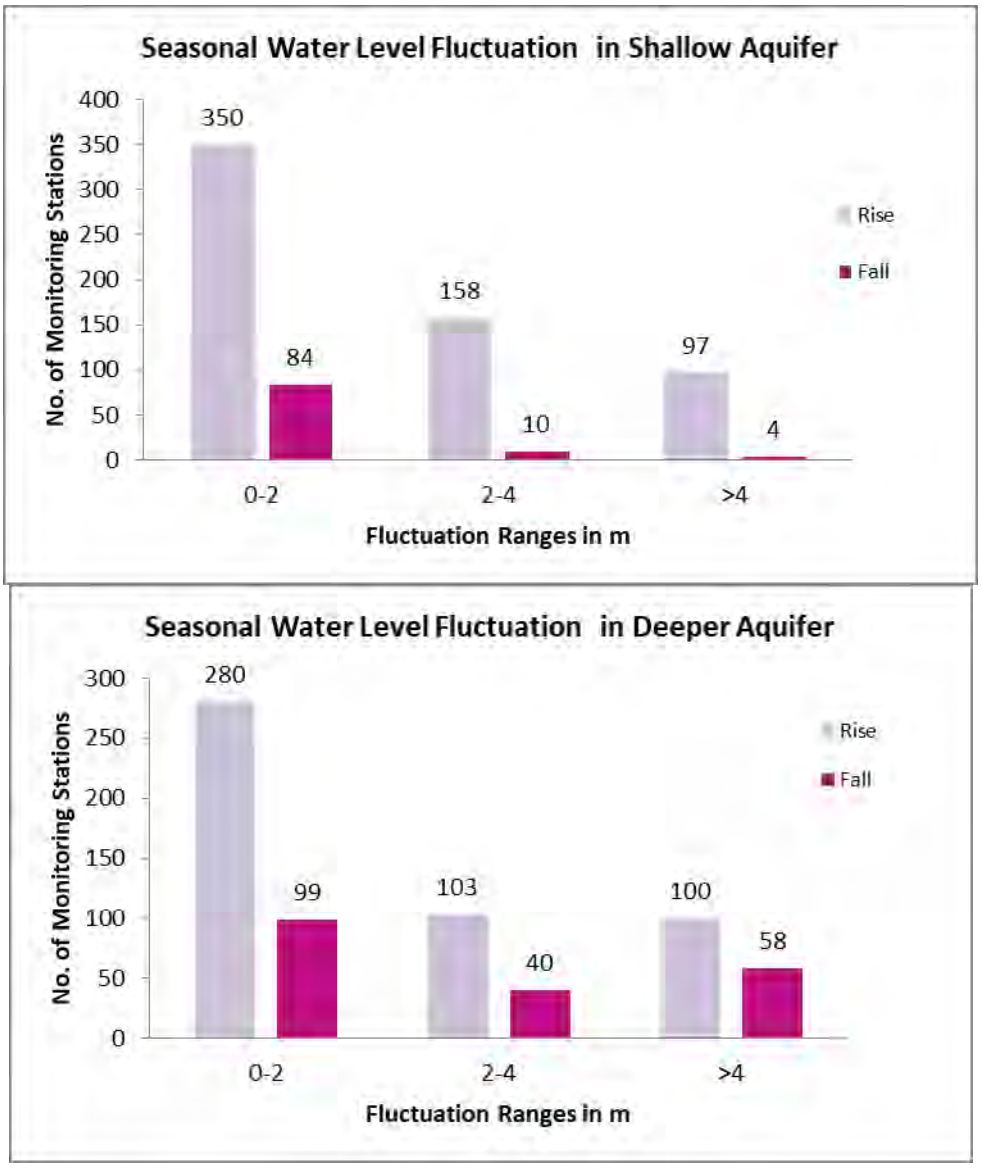


Figure-6. 21: Categorisation of DTWL measured in Shallow and Deeper aquifers (Apr-23 to Jan-24)

6.8 DECADAL WATER LEVEL FLUCTUATION

6.8.1 WATER LEVEL FLUCTUATION WITH DECADAL MEAN (PRE-MONSOON 2013-PREMONSOON 2022) TO PREMONSOON 2023

The decadal fluctuation in water level by comparing the water level data for April Mean (2013-2022) with the depth to water level data of April 2023 indicates the long-term status of ground water condition during the previous and current measurement during Pre- monsoon period. In the State, out of 1171 analyzed wells, 348 (30%) wells have shown rise where as 823 (70%) wells have shown fall in water level (figure-6.22).

Rise in water level is dominated by 0-2 m (23%) rising category, followed by 2 - 4 m (5%), >4 m (2%) rising category. Fall is mostly restricted within 0 - 2 m category (45%) followed by 2 - 4m (13%) nd >4 m (12%) falling category.In general, there is fall through out the State.Water level fluctuation has been analyzed statistically by comparing the decadal mean water level data (April 2013 - April, 2022) with depth to water level data of April, 2023 has been plotted and the map is presented *Plate VIII.* The district-wise frequency distribution of GWMS falling in different ranges of water level fluctuation is given *Annexure-XIII.*

Shallow Aquifers

The *table-6.12 c*ategorises the rise and fall of GWMS in shallow and deeper aquifers.

For shallow aquifers, in rising category 28% of wells are within the fluctuation of 0-2m, 5% are in 2-4m and 1% of wells are in the range of more than 4m. In the falling category 51% of wells are showing falling trend in 0-2m category, 10% of wells are in the range of 2-4m and 6% of wells are showing >4m fluctuation of water level.

Deeper Aquifers

Similarly, in confined to semiconfined aquifers 16% of wells are showing rising trend in 0- 2m, 5% of wells are in the range of 2-4m and 3% of wells are showing >4m fluctuation water level. In the falling category 39% of confined aquifers are within the fluctuation of 0-2m, 18% are in 2-4m and 19% of wells are in the range of more than 4m.

Table 6. 12: Categorisation of Water Level Fluctuation measured in Deeper and Shallow aquifers with Decadal Mean (April 2013 to April 2022 Vrs April 2023)

Aquifer Type	Stations Analysed	Rise						Fall					
		0-2		2-4		>4		0-2		2-4		>4	
		Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Shallow	649	181	28	31	5	8	1	330	51	63	10	36	6
Deeper	522	85	16	26	5	17	3	201	39	92	18	101	19
Total	1171	266	23	57	5	25	2	531	45	155	13	137	12

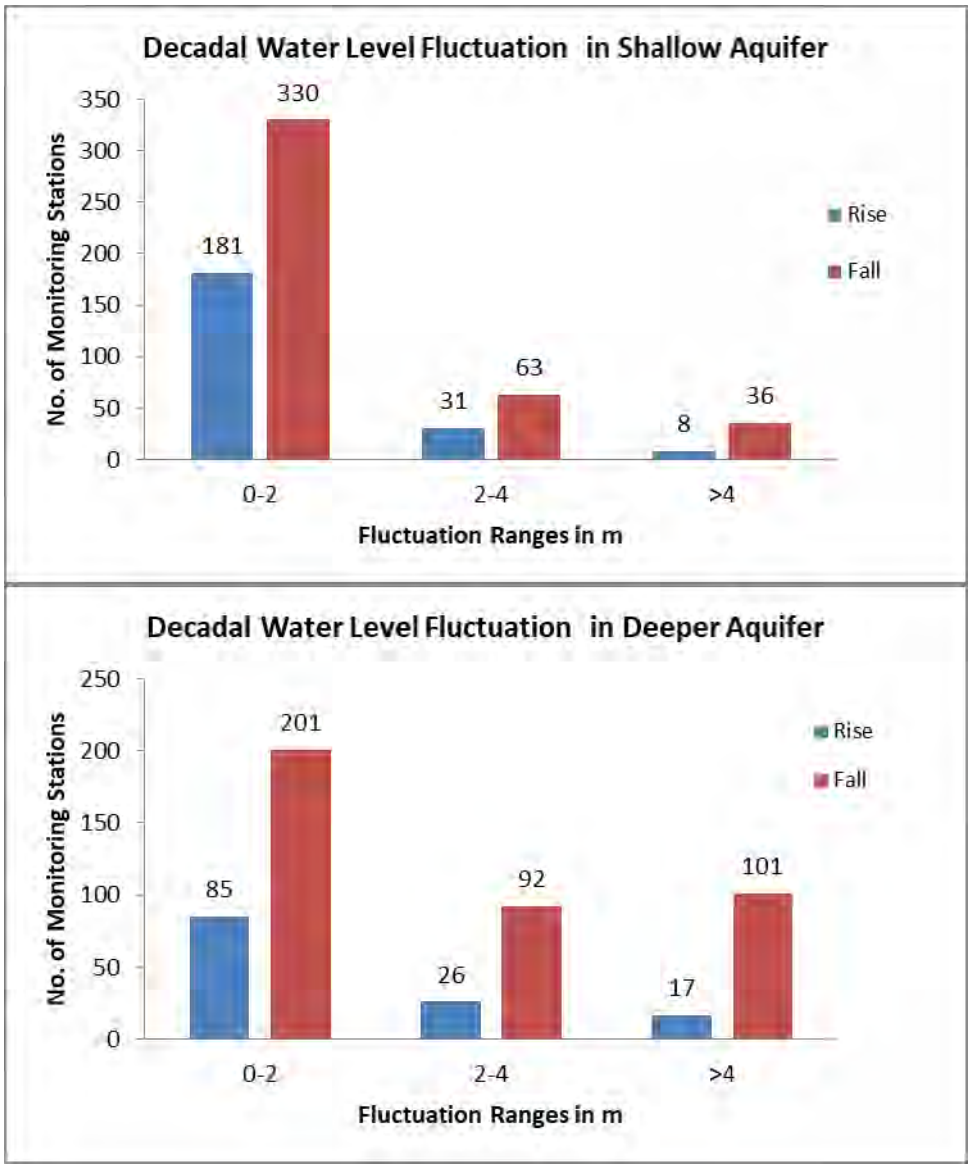


Figure-6. 22: Categorisation of DTWL measured in Shallow and Deeper aquifers (April 2013 to April 2022 Vrs April 2023)

6.8.2 WATER LEVEL FLUCTUATION WITH DECADAL MEAN (AUGUST 2013-AUGUST 2022) TO AUGUST 2023

The decadal fluctuation in water level by comparing the water level data for August Mean (2013-2022) with the depth to water level data of August 2023 indicates the long-term status of ground water condition during the previous and current measurement during monsoon period. Water level fluctuation has been analyzed by comparing the decadal mean water level data (August, 2013-2022) with depth to water level data of August, 2023. In the State, out of 1315 analyzed wells, 399 wells have shown rise whereas 916 wells have shown fall (figure-6.23). The rise and fall of water level is mostly restricted within 0-2 m (26% show rise and 41 % show fall).

Water level fluctuation has been analyzed statistically by comparing the decadal mean water level data (August, 2013-2022) with depth to water level data of August, 2023 and the map is presented in *Plate-IX*. The district-wise frequency distribution of GWMS falling in different ranges of water level fluctuation is given in *Annexure-XIV.*

Shallow Aquifers

The table-6.*13 c*ategorises the rise and fall of GWMS in shallow and deeper aquifers.

For shallow aquifers, in rising category 42% of wells are within the fluctuation of 0-2m, 2% are in 2-4m and only 3 wells are in the range of more than 4m. In the falling category 47% of wells are showing falling trend in 0-2m category, 6% of wells are in the range of 2-4m and 2% of wells are showing >4m fluctuation of water level.

Deeper Aquifers

Similarly, in confined to semi-confined aquifers 8% of wells are showing rising trend in 0- 2m, 4% of wells are in the range of 2-4m and 3% of wells are showing >4m fluctuation water level. In the falling category 35% of confined aquifers are within the fluctuation of 0-2m, 26% are in 2-4m and 24 % of wells are in the range of more than 4m.

Table 6. 13: Categorisation of Water Level Fluctuation measured in Deeper and Shallow aquifers with Decadal Mean (Aug 2013 to Aug 2022 Vrs Aug 2023)

Aquifer Type	Stations Analysed	Rise						Fall					
		0-2		2-4		>4		0-2		2-4		>4	
		Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Shallow	687	290	42	14	2	3	0	324	47	41	6	15	2
Deeper	628	48	8	24	4	20	3	221	35	162	26	153	24
Total	1315	338	26	38	3	23	2	545	41	203	15	168	13

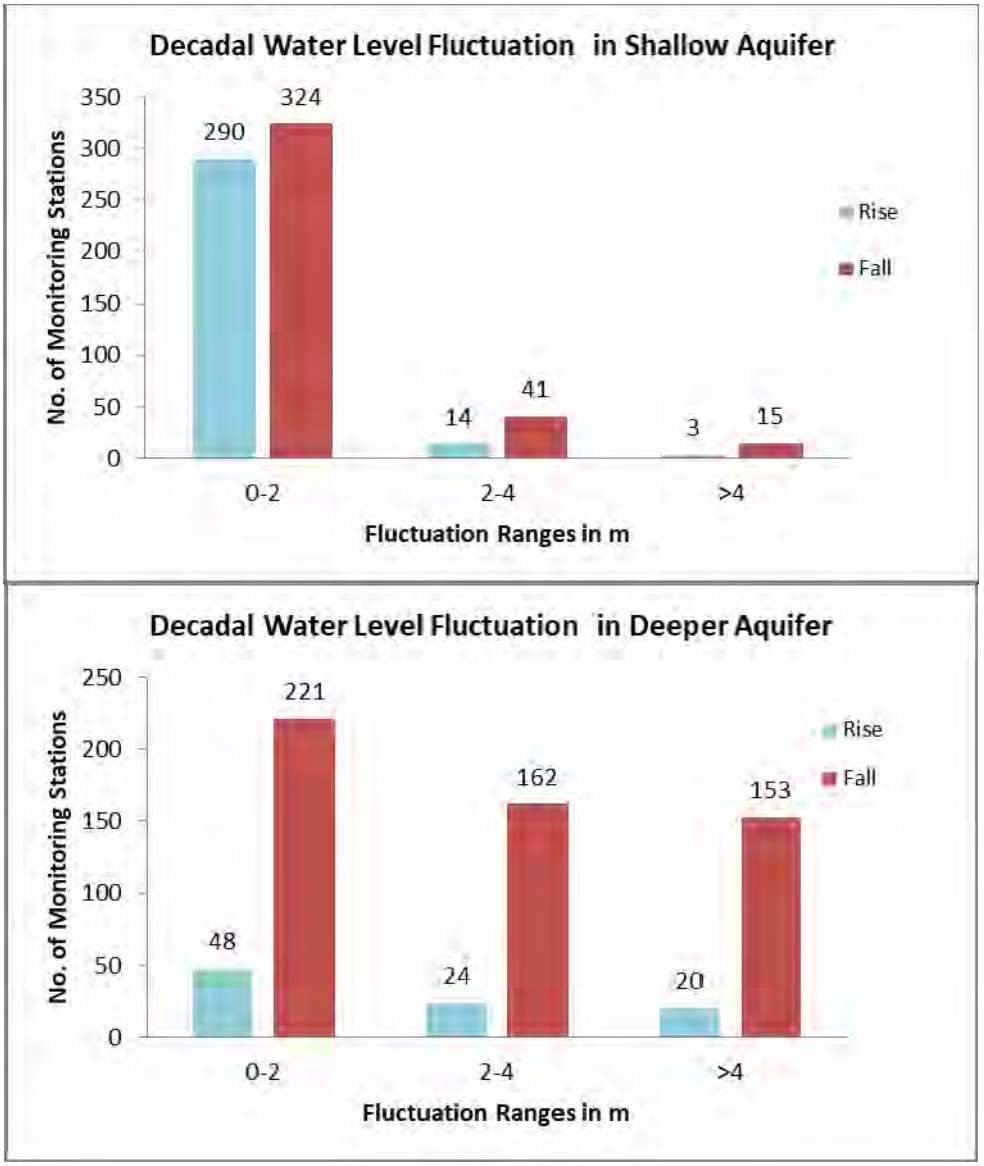


Figure-6. 23: Categorisation of DTWL measured in Shallow and Deeper aquifers (August 2013 to August 2022 Vrs August 2023)

6.8.3 WATER LEVEL FLUCTUATION WITH DECADAL MEAN (POST-MONSOON 2013-POST- MONSOON 2022) TO POST-MONSOON 2023

The decadal fluctuation in water level by comparing the water level data for Decadal Mean (2013-2022) with the depth to water level data of November 2023 indicates long-term status of ground water condition during the previous and current measurement during post-monsoon period. Water level fluctuation has been analyzed by comparing the decadal mean water level data (November 2013 - November 2022) with depth to water level data of November, 2023. In the State, out of 1310 analyzed wells, 481 wells have shown rise whereas 829 wells have shown fall (figure-6.24).

The rise and fall of water level is mostly restricted within 0-2 m (34 % show rise and 40 % show fall). Remaining wells, 2% wells show 2 - 4 m rise and 1% wells show>4 m rise whereas 12 % wells show 2 – 4 m fall and 12 % wells shows >4m fall.

The district-wise frequency distribution of GWMS falling in different ranges of water level fluctuation is given in *Annexure-XV.* Water level fluctuation map has been prepared comparing the decadal mean water level data (Nov 2013 - Nov 2022) with depth to water level data of November 2023 and the map is presented in *Plate-X.*

Shallow Aquifers

The *Table-6.14 c*ategorises the rise and fall of GWMS in shallow and deeper aquifers.

For shallow aquifers, in rising category 53% of wells are within the fluctuation of 0-2m, 2% are in 2-4m and only two wells fall in the range of more than 4m. In the falling category 40% of wells are showing falling trend in 0-2m category, 3% of wells are in the range of 2-4m and 1% of wells are showing >4m fluctuation of water level.

Deeper Aquifers

Similarly, in confined to semiconfined aquifers 12% of wells are showing rising trend in 0- 2m, 2% of wells are in the range of 2-4m and 2% of wells are showing >4m fluctuation water level. In the falling category 40% of confined aquifers are within the fluctuation of 0- 2m, 21 % are in 2-4m and 23 % of wells are in the range of more than 4m.

Table 6. 14: Categorisation of Water Level Fluctuation measured in Deeper and Shallow aquifers with Decadal Mean (Nov 2013 to Nov 2022 Vrs Nov 2023)

Aquifer Type	Stations Analysed	Rise						Fall					
		0-2		2-4		>4		0-2		2-4		>4	
		Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Shallow	696	372	53	13	2	2	0	278	40	22	3	9	1
Deeper	614	73	12	11	2	10	2	246	40	132	21	142	23
Total	1310	445	34	24	2	12	1	524	40	154	12	151	12

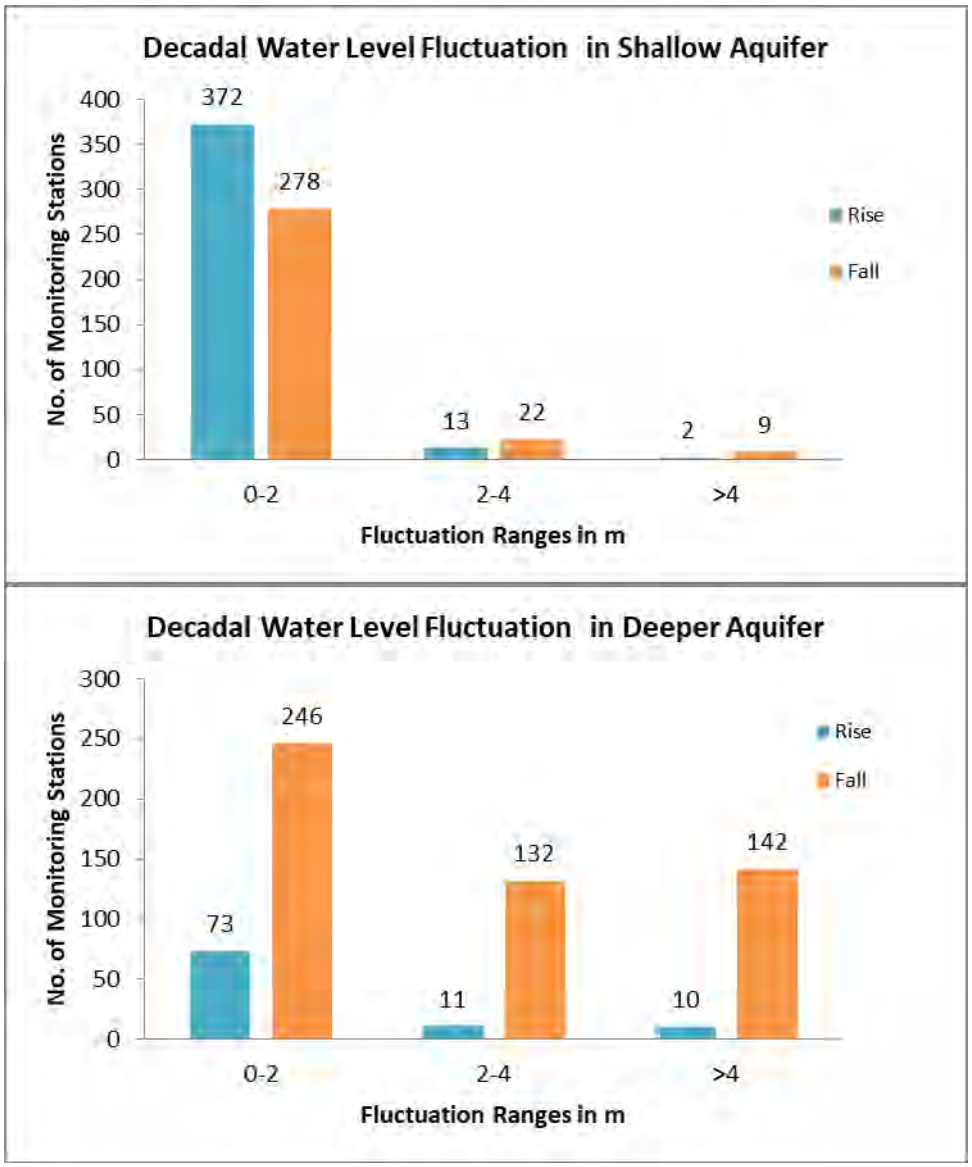


Figure-6. 24: Categorisation of DTWL measured in Shallow and Deeper aquifers (November 2013 to November 2022 Vrs November 2023)

6.8.4 WATER LEVEL FLUCTUATION WITH DECADAL MEAN (JANUARY 2014-JANUARY 2023) TO JANUARY 2024

Water level fluctuation has been analyzed by comparing the decadal mean water level data (January 2014 - January 2023) with depth to water level data of January 2024. In the State, out of 1299 analyzed wells, 613 have shown rise whereas 686 wells have shown fall (figure-6.25).

The rise in water level is mostly restricted within 0-2 m in 42% wells, 2-4 m rise in 4% wells and >4 m rises in 1% wells. In fall of water level scenario, 33 % wells show 0 – 2 m, 10 % wells show 2-4 m and 10 % wells shows >4 m.

The district-wise frequency distribution of GWMS falling in different ranges of water level fluctuation is given *Annexure-XVI.* The decadal fluctuation in water level map by comparing the water level data for January Mean (2014-2023) with the depth to water level data of January 2024, is presented in *Plate-XI.*

Shallow Aquifers

The *Table-6.15 c*ategorises the rise and fall of GWMS in shallow and deeper aquifers.

For shallow aquifers, in rising category 59% of wells are within the fluctuation of 0-2m, 6% are in 2-4m and 1% wells fall in the range of more than 4m. In the falling category 31% of wells are showing falling trend in 0-2m category, 3% of wells are in the range of 2-4m and 1% of wells are showing >4m fluctuation of water level.

Deeper Aquifers

Similarly, in confined to semi-confined aquifers 22% of wells are showing rising trend in 0-2m, 2% of wells are in the range of 2-4m and 2% of wells are showing >4m fluctuation water level. In the falling category 36% of confined aquifers are within the fluctuation of 0-2m, 18% are in 2-4m and 20% of wells are in the range of more than 4m.

Table 6. 15: Categorisation of Water Level Fluctuation measured in Deeper and Shallow aquifers with Decadal Mean (Jan-2014 to Jan2023 Vrs Jan 2024)

Aquifer Type	Stations Analysed	Rise						Fall					
		0-2		2-4		>4		0-2		2-4		>4	
		Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Shallow	700	410	59	44	6	4	1	214	31	21	3	7	1
Deeper	599	132	22	10	2	13	2	218	36	108	18	118	20
Total	1299	542	42	54	4	17	1	432	33	129	10	125	10

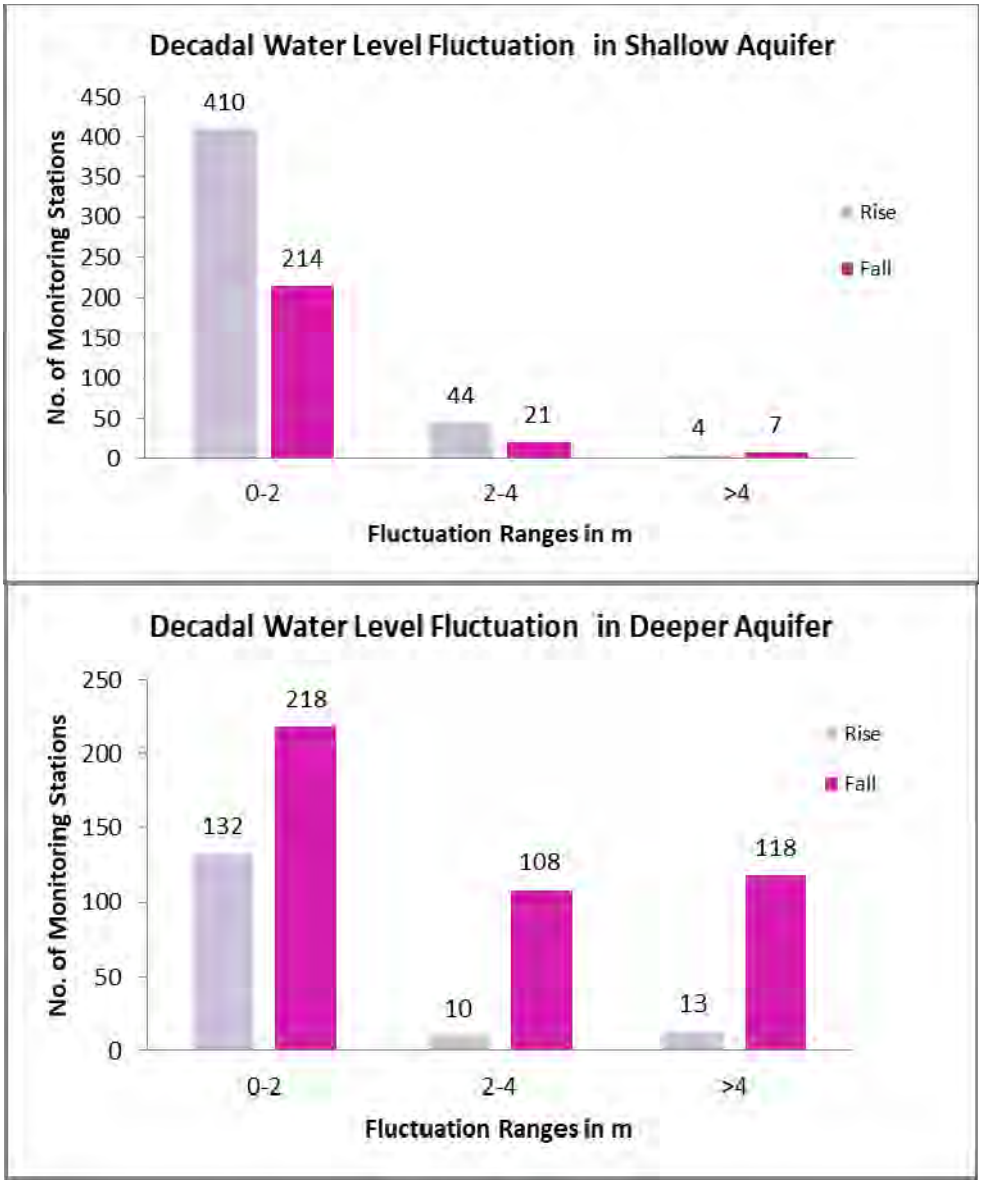


Figure-6. 25: Categorisation of DTWL measured in Shallow and Deeper aquifers (January 2014 to January 2023 Vrs January 2024)

6.9 SCENARIO OF WATER LEVELS IN KOLKATA CITY DURING THE GROUND WATER YEAR 2023-24

Kolkata city area is underlain by Quaternary sediments consisting of silt, clay, various grades of sand, gravel and occasional pebbles, deposited in deltaic environment by Ganga- Bhagirathi River system. Here ground water occurs under confined condition and the piezometric level is significantly deep, ranging between 10.25 to 21.71 mbgl during pre- monsoon (April-2023) period and between 10.29 to 20.91 mbgl during post-monsoon (November-2023) period in major part of the city. This is due to huge withdrawal of groundwater for domestic and industrial uses. Water level is measured in every month end and the detail of well distribution is presented in *Figure-6.26.*

The *Table-6.16* shows 33 wells were monitored during April,23 which includes 6 dugwells, 11 PZ and 16 tubewells. Of these 33 wells, 15% of wells (Dugwell) are within 0-2m water level bgl, 7.7 % of wells are in 2- 5m bgl (Dugwell), no well falling in the category of 5-10m and 54.5% are in the range of 10-20m and 27.3% of wells are in the range of >20 m bgl during pre-monsoon period. The detailed depth to water level map for pre-monsoon 2023 is depicted in Figure-6.27.

During post monsoon period 29 wells were monitored which includes 6 dugwells, 8 PZ and 15 tubewells. Of these 29 wells, 13.8 % of wells (Dugwell) are within 0-2m water level bgl, 10.3 % in 5-10m (which includes 2 Dugwells and onw Tubewell), 66.5% are in the range of 10-20m and 10.3% of wells are in the range of >20 m bgl. The detailed depth to water level map for post-monsoon 2023 is depicted in Figure-6.28. Hydrographs of KMC area are given in *Figure-6.29*. Depth-to-water level categorization of pre and post monsoon is presented in *Table 6.16* and *Table 6.17* respectively. The details of monthly measurements of Kolkata city during the year 2023 is depicted in *Annexure-XIX*

Table 6. 16: Depth to Water Level Range in Kolkata City and its surroundings during Pre- Monsoon 2023

District	No. of Wells analysed	Depth to Water level (mbgl)		No. / Percentage of Wells Showing Depth to Water Table (mbgl) in the Range of									
		Min	Max	0-2	%	02-05	%	05-10	%	10-20	%	>20	%
S-24 Parganas	1	0.9	0.9	1	100	0	0	0	0	0	0	0	0
N-24 Parganas	11	1.3	21.3	1	9.1	1	9.1	0	0	5	45.5	4	36.4
Kolkata	21	0.96	21.71	3	14.3	0	0	0	0	13	61.9	5	23.8
Total	**33**			**5**	**15.2**	**1**	**3**	**0**	**0**	**18**	**54.5**	**9**	**27.3**

Table 6. 17: Depth to Water Level Range in Kolkata City and its surroundings during Post- Monsoon 2023

District	No. of Wells analysed	Depth to Water level (mbgl)		No. / Percentage of Wells Showing Depth to Water Table (mbgl) in the Range of									
		Min	Max	0-2	%	02-05	%	05-10	%	10-20	%	>20	%
S-24 Parganas	1	1.02	1.02	1	100	0	0	0	0	0	0	0	0
N-24 Parganas	11	0.74	20.91	1	9.1	1	9.1	0	0	7	63.6	2	18.2
Kolkata	17	0.95	20.38	2	11.8	2	11.8	0	0	12	70.6	1	5.9
Total	**29**			**4**	**13.8**	**3**	**10.3**	**0**	**0**	**19**	**65.5**	**3**	**10.3**

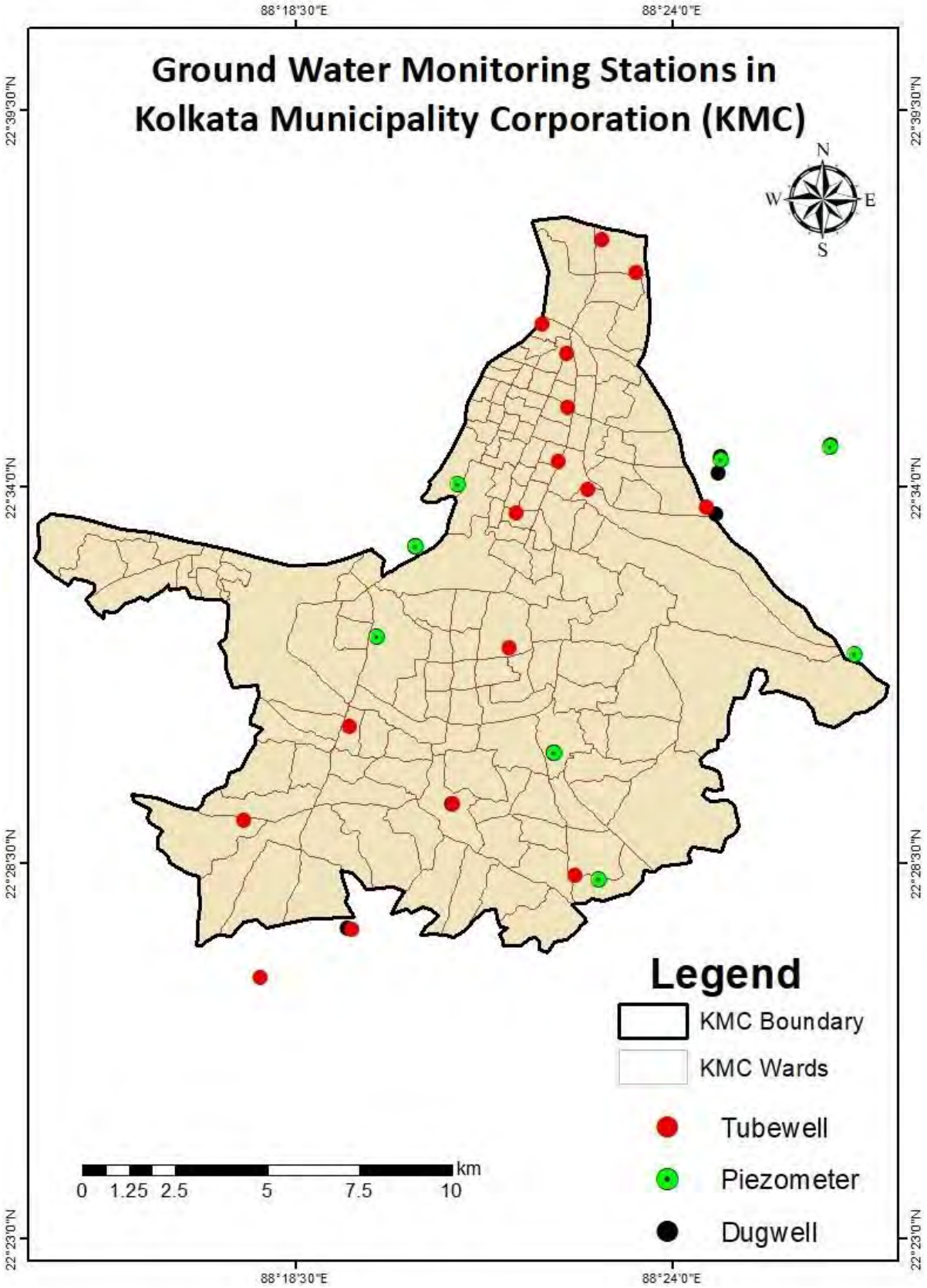


Figure-6. 26: Location map of GWMS in Kolkata City and Its buffer zone

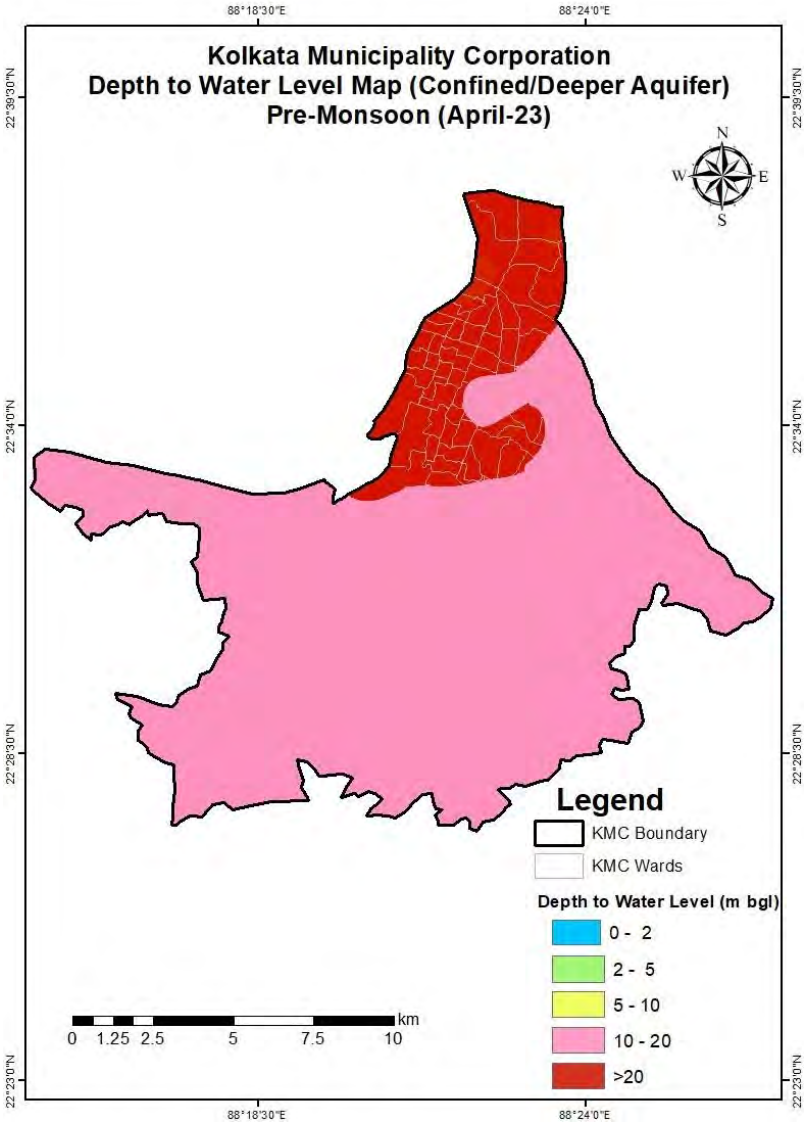


Figure-6. 27:Pre-Monsson DTWL for Deeper/Confined Aquifer in Kolkata City and Its buffer zone

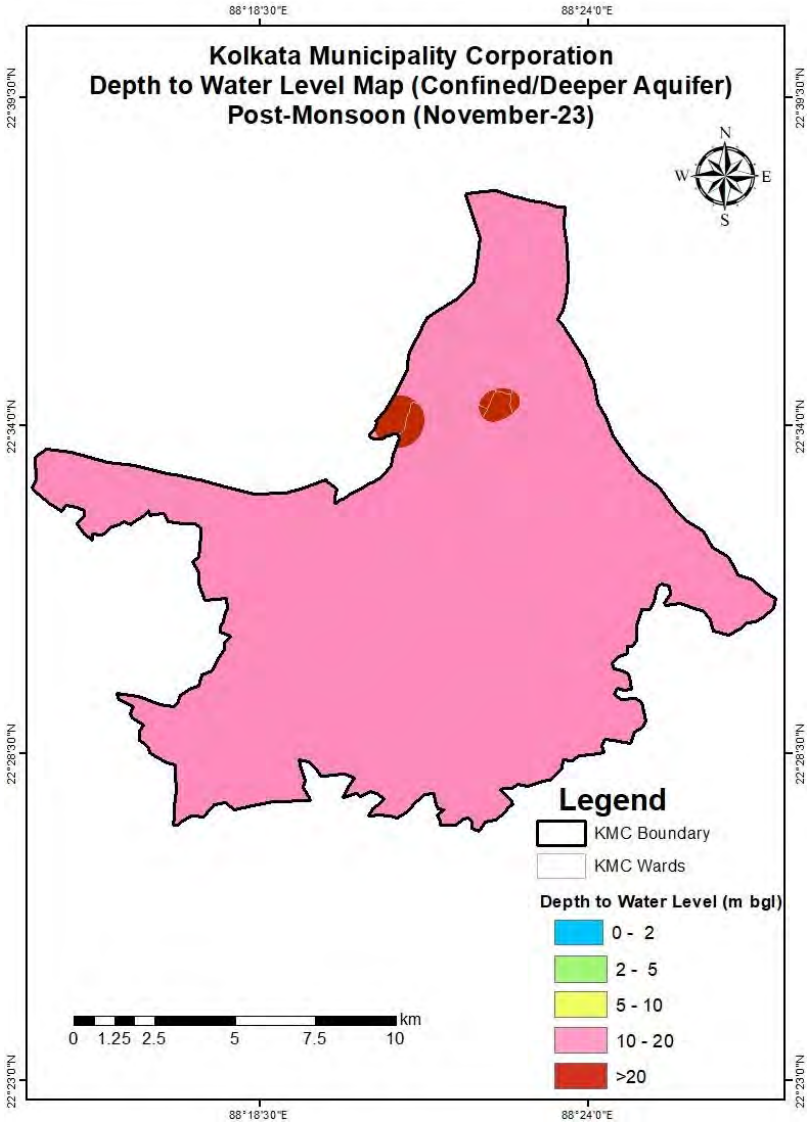


Figure-6. 28:Post-Monsson DTWL for Deeper/Confined Aquifer in Kolkata City and Its buffer zone

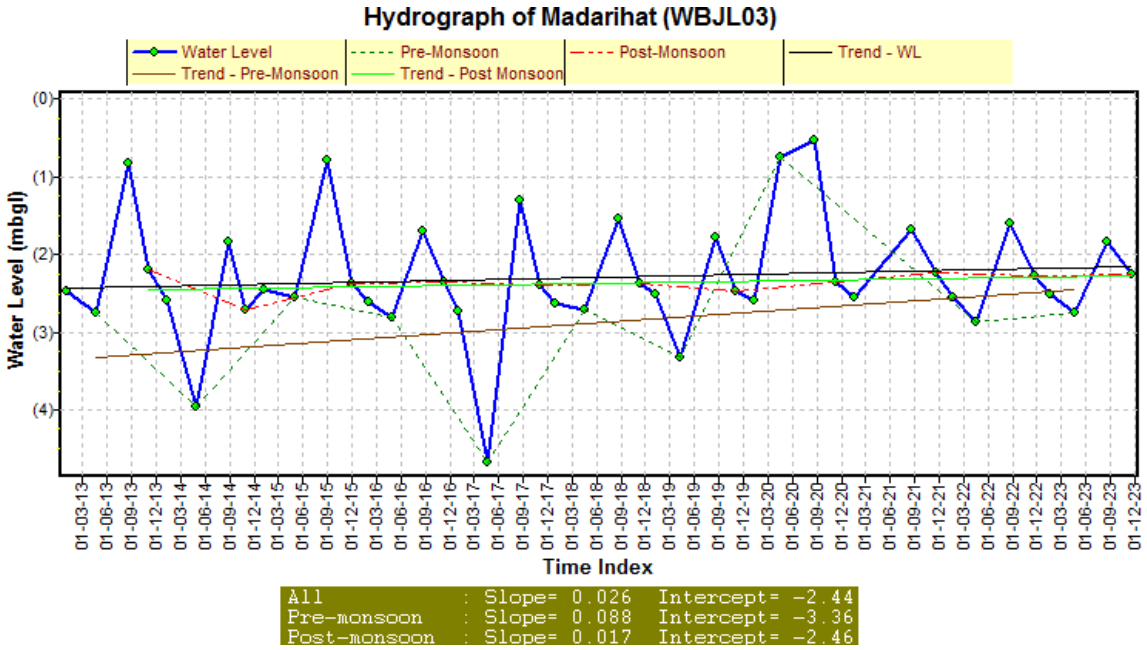
6.10 HYDROGRAPHS

Hydrograph is a graphical representation of water level with respect to time. In short term and long term, the water levels may vary depending on the rate of natural recharge from rainfall and the groundwater withdrawal to meet the requirements in domestic, agriculture and industry. The analysis of hydrographs shows that the annual rising limbs in hydrographs indicate the natural recharge of groundwater regime due to monsoon rainfall, as the monsoon rainfall is the only source of water. The recession limbs indicate the combined effect of baseflow and the groundwater draft for various uses.

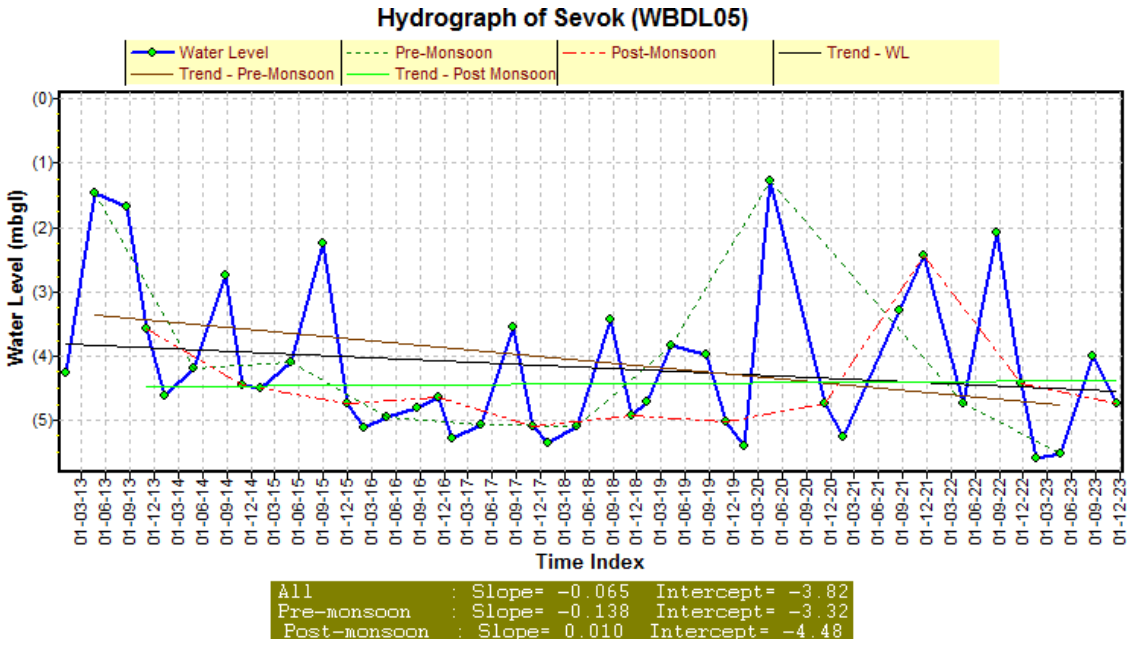
Though, the hydrographs of few locations during either/or both during pre- and post-monsoon periods exhibit rising trends in water levels, at several locations they show downward declining trend. It indicates that the groundwater resources are not replenished or recharged fully, and the groundwater levels are under continuous stress and depleting at several locations. It has also been observed that there were few years when the recharge exceeded draft for a particular period or year but in the next successive year, the draft again exceeded recharge. The district wise hydrographs of selected stations of West Bengal and Kolkata city for the period of 2013-2023 are given in figure-6.29.

Figure-6. 29: Selected Hydrographs of West Bengal and KMC

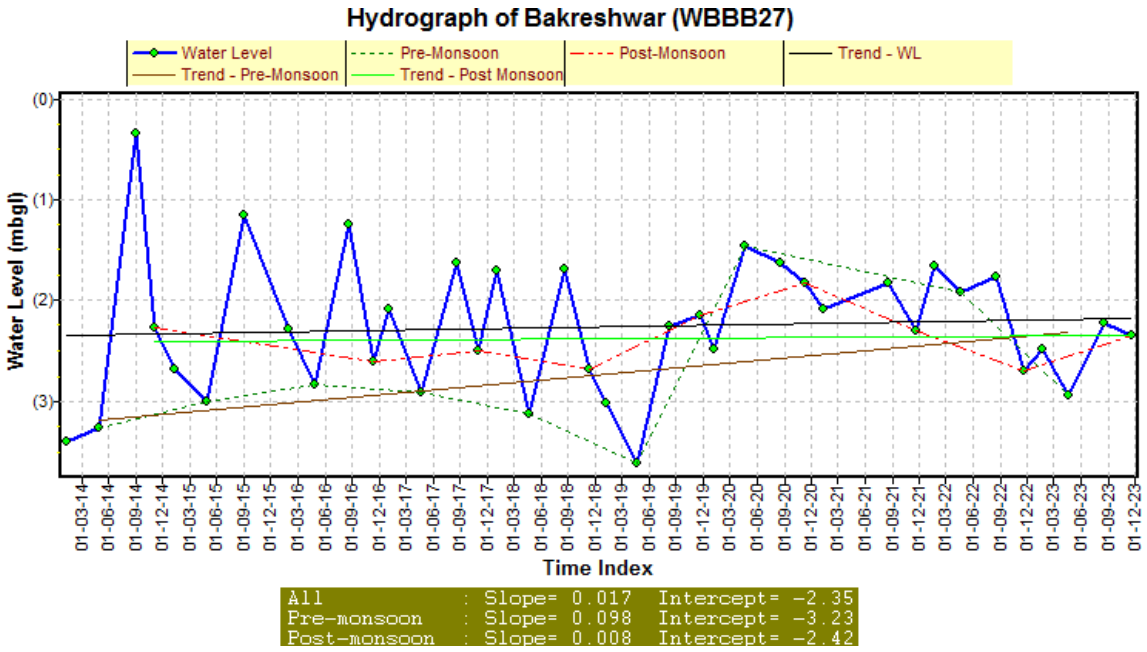
ALIPURDUAR



DARJEELING

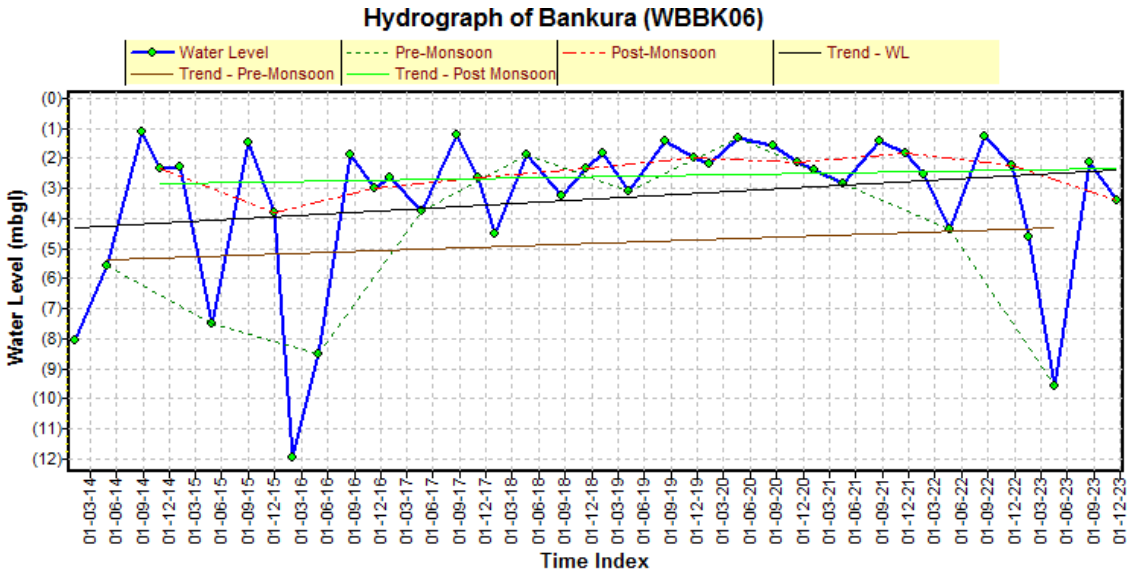


BIRBHUM



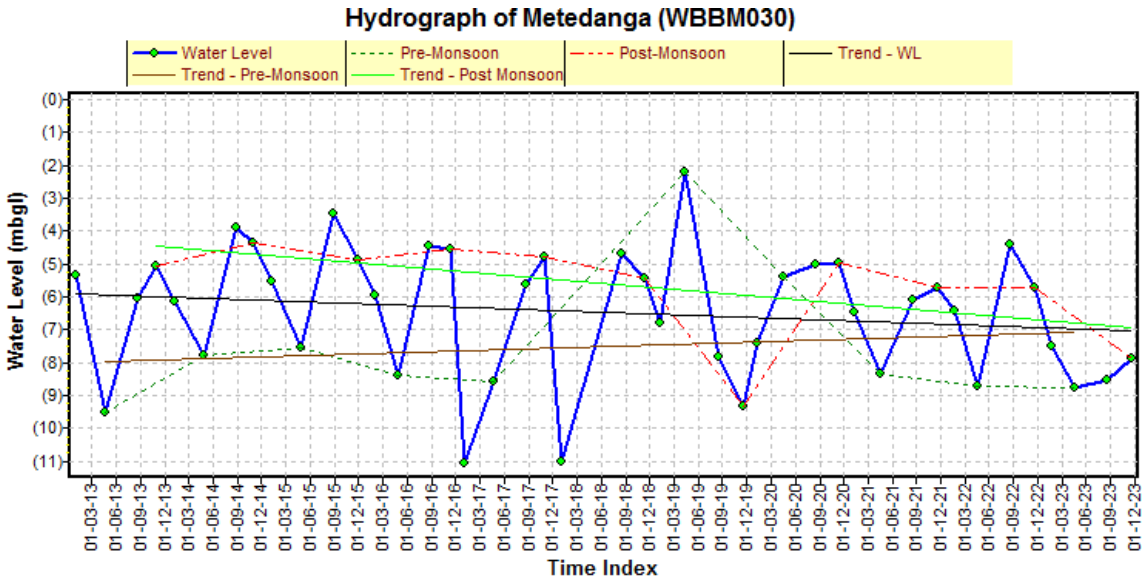
All	:	Slope=	0.017	Intercept=	-2.35
Pre-monsoon	:	Slope=	0.098	Intercept=	-3.23
Post-monsoon	:	Slope=	0.008	Intercept=	-2.42

BANKURA



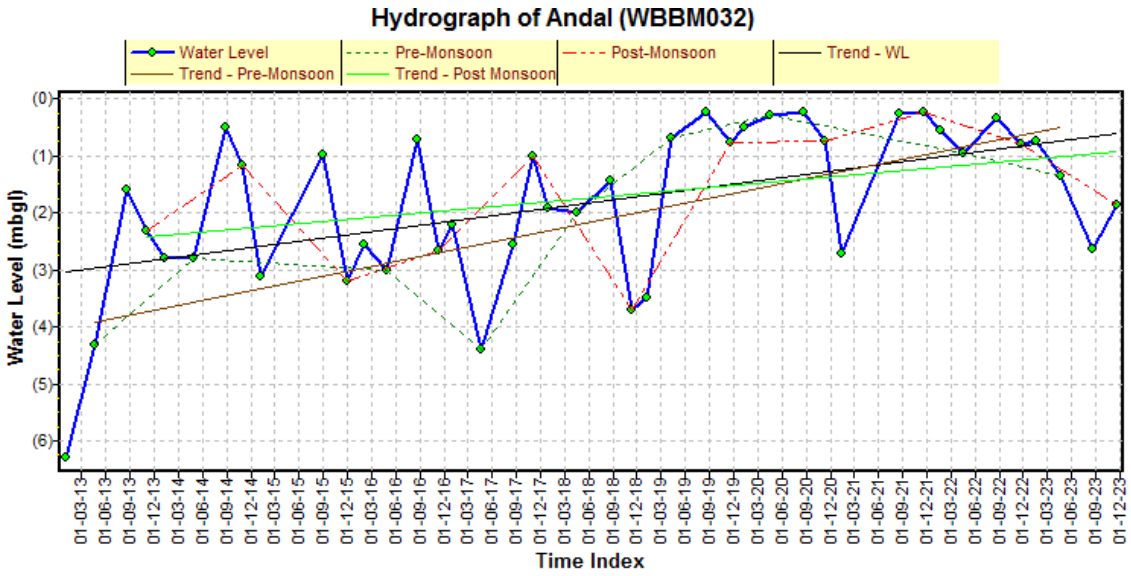
All	:	Slope=	0.194	Intercept=	-4.31
Pre-monsoon	:	Slope=	0.122	Intercept=	-5.43
Post-monsoon	:	Slope=	0.053	Intercept=	-2.86

PURBA BARDDHAMAN



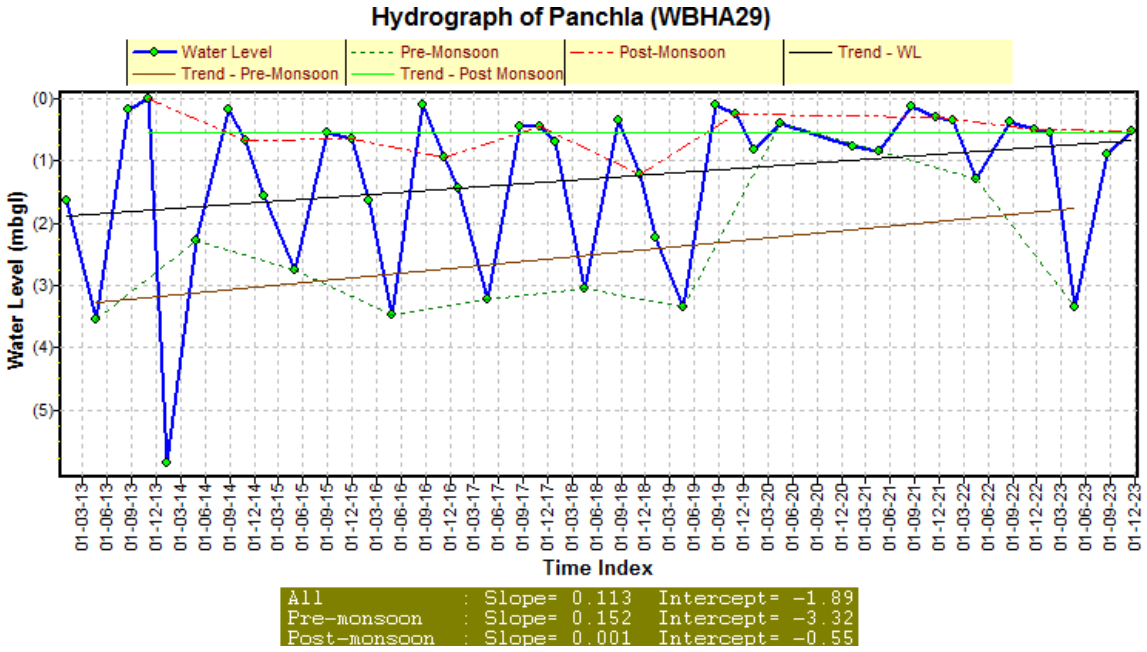
All	: Slope= -0.103	Intercept= -5.89
Pre-monsoon	: Slope= 0.091	Intercept= -8.01
Post-monsoon	: Slope= -0.251	Intercept= -4.22

PASCHIM BARDDHAMAN

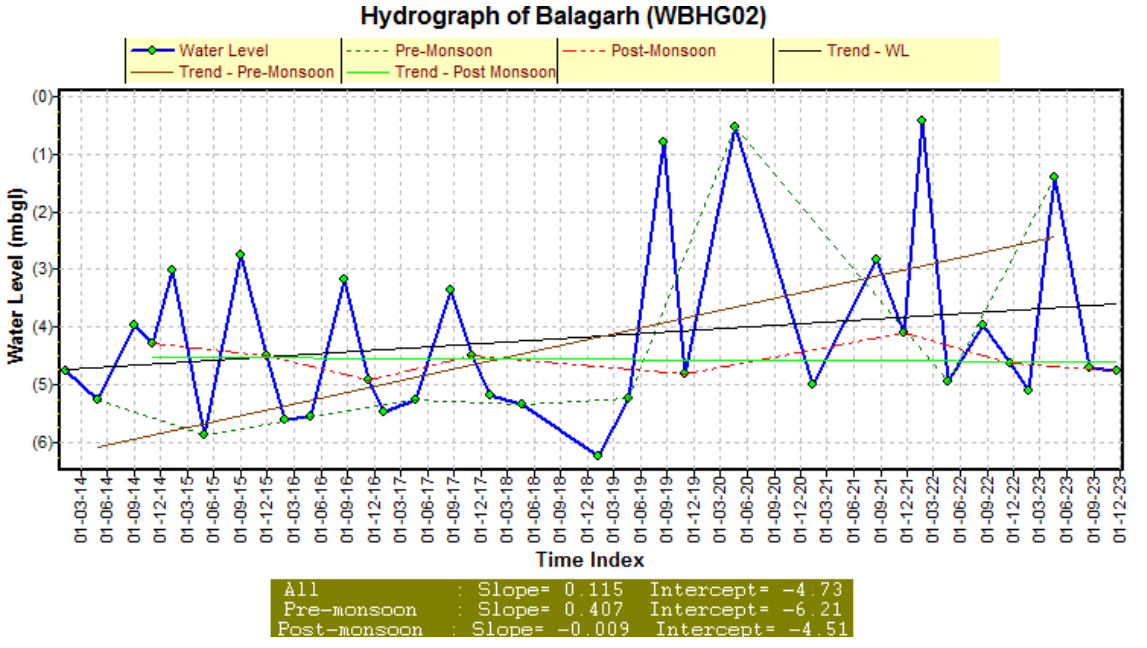


All	: Slope= 0.223	Intercept= -3.05
Pre-monsoon	: Slope= 0.339	Intercept= -4.01
Post-monsoon	: Slope= 0.149	Intercept= -2.56

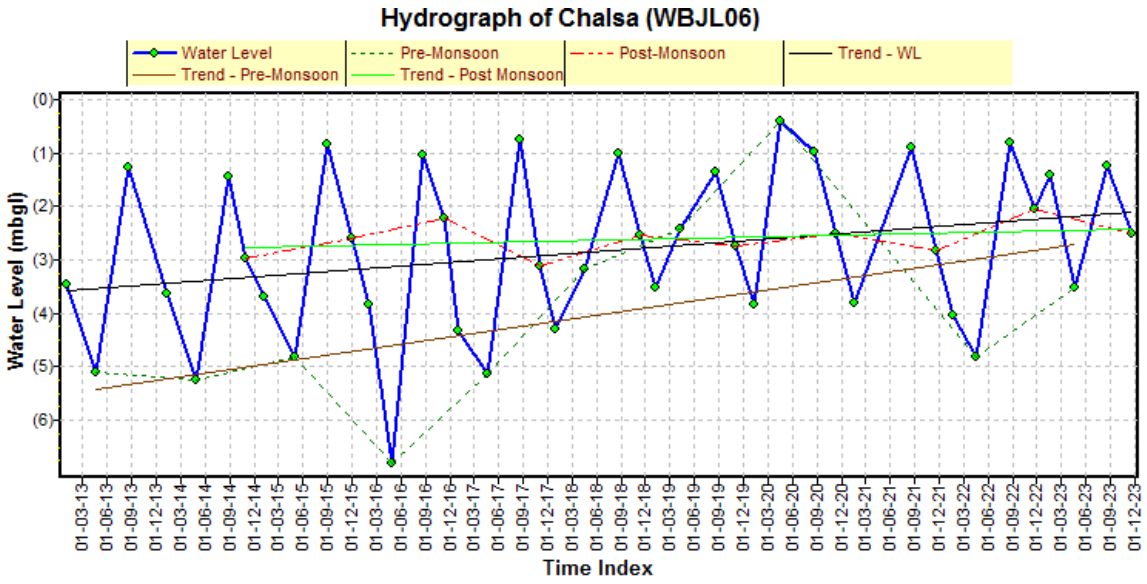
HOWRAH



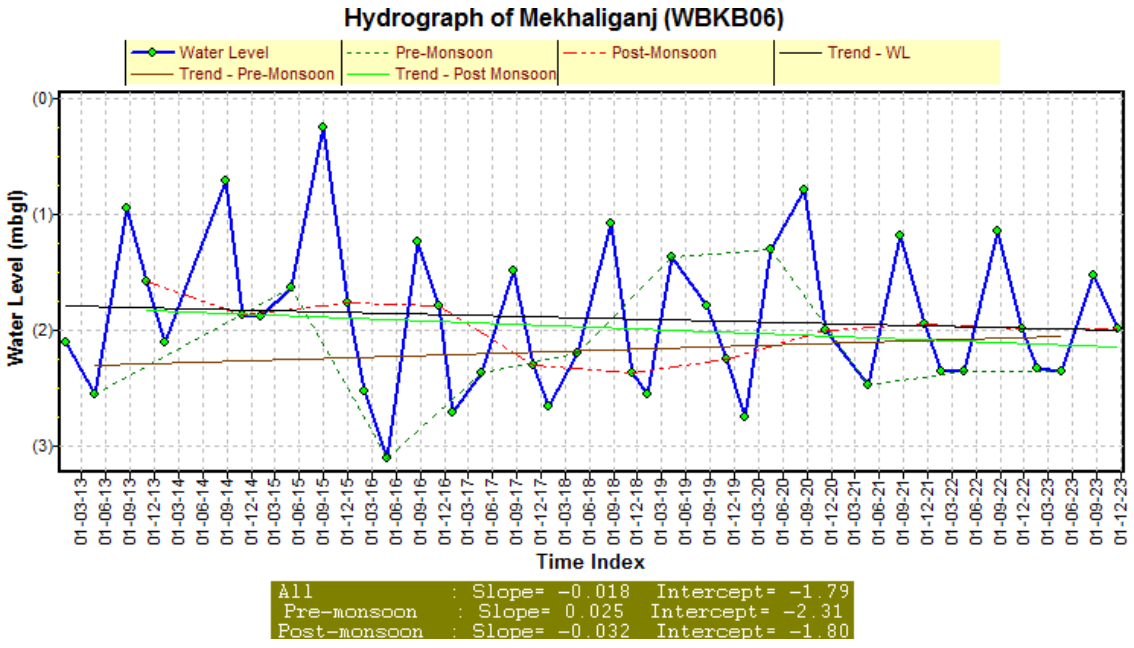
HUGLI



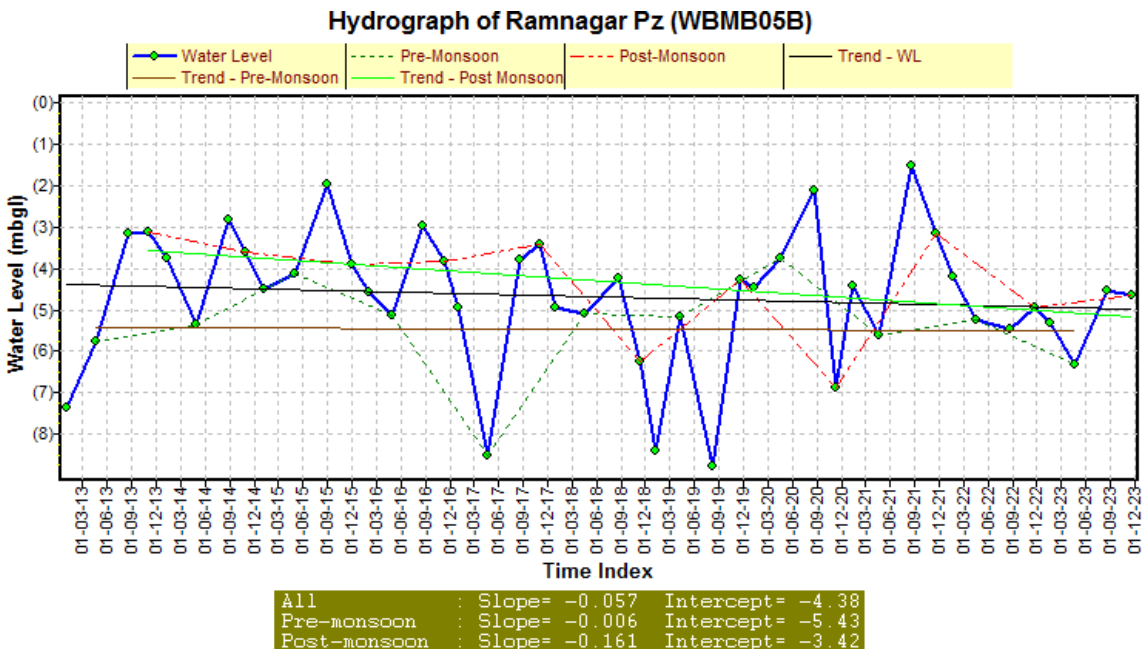
JALPAIGURI



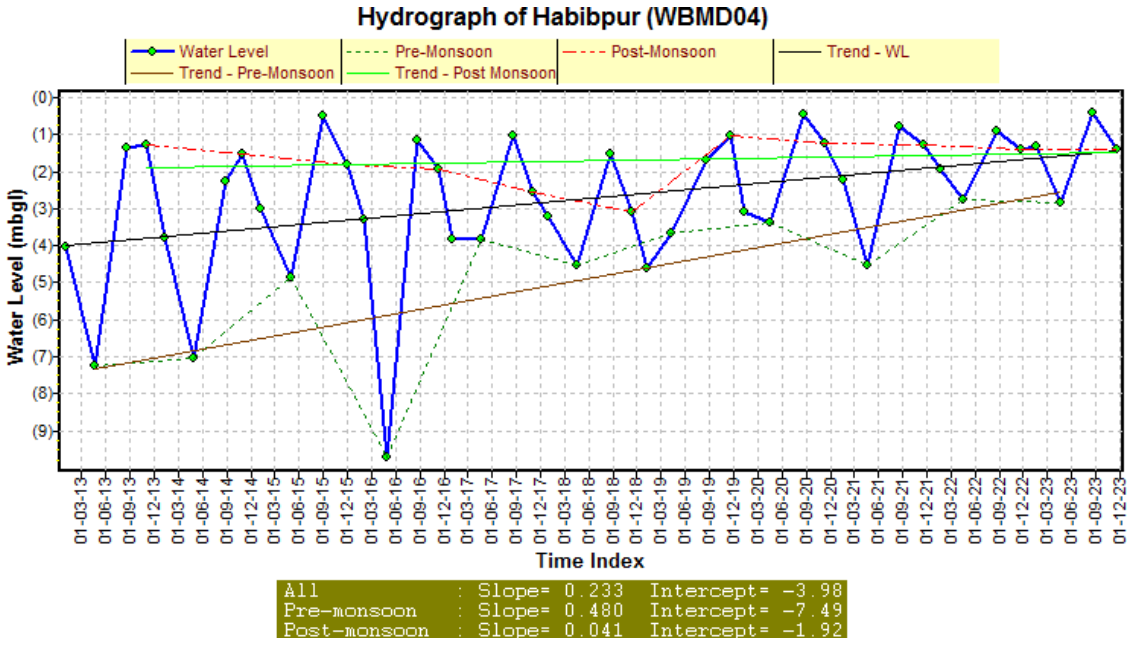
COOCH BIHAR



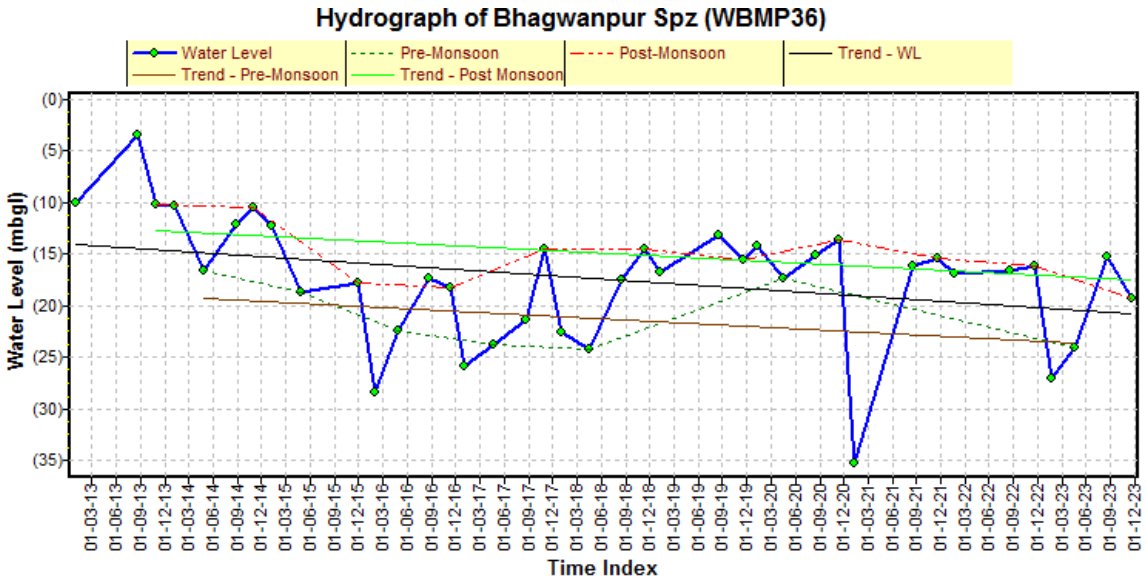
MURSHIDABAD



MALDA

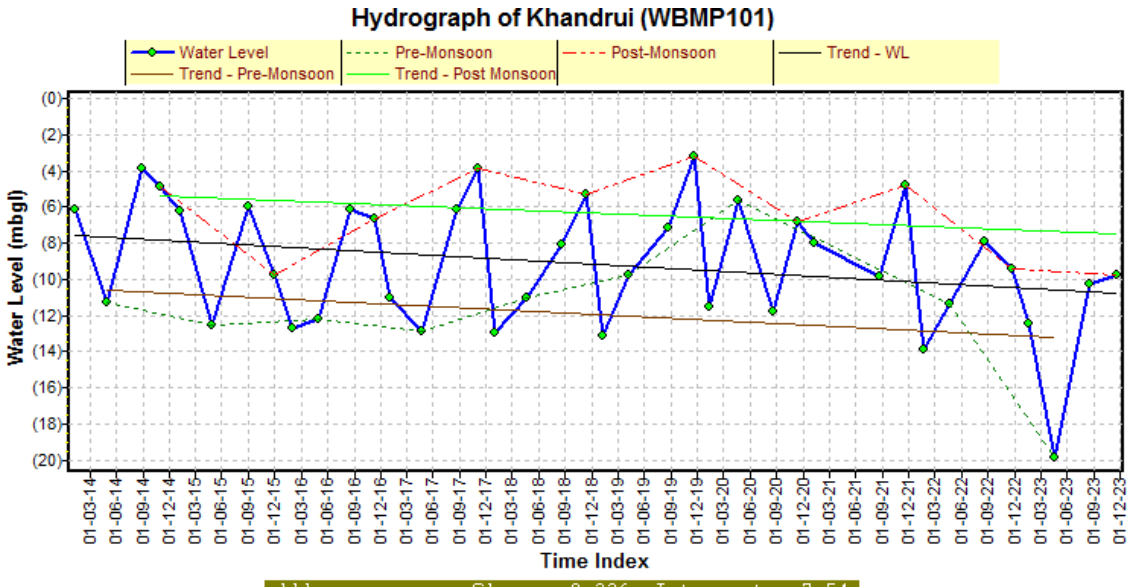


PURBA MEDINIPUR



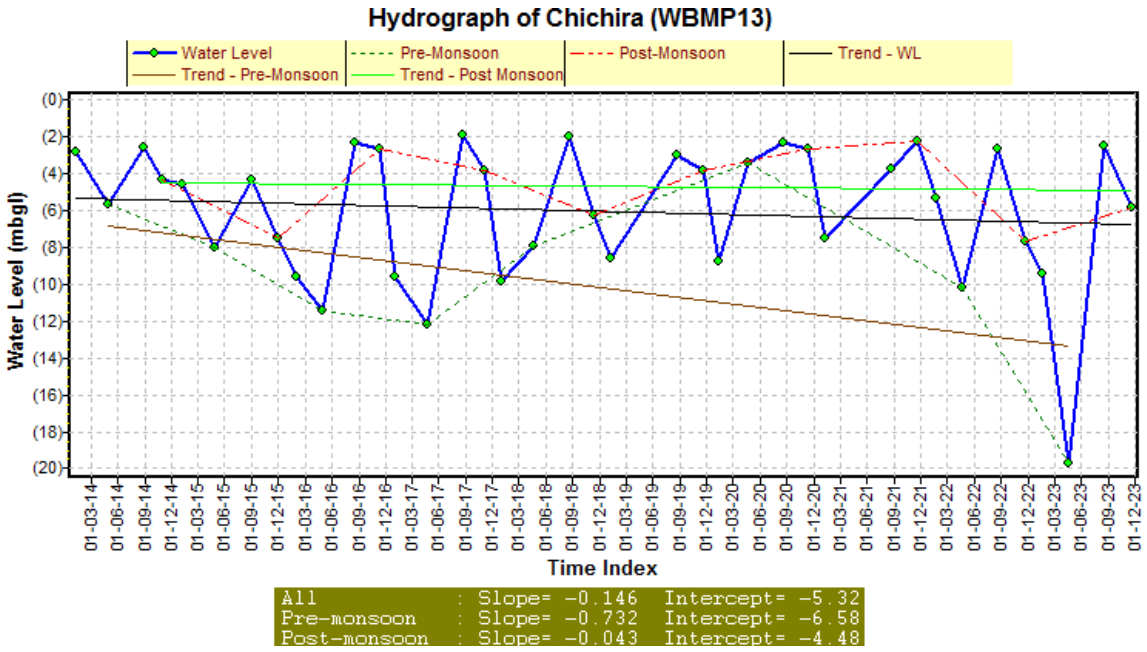
All	:	Slope= -0.624	Intercept=	-14.01
Pre-monsoon	:	Slope= -0.472	Intercept=	-18.68
Post-monsoon	:	Slope= -0.477	Intercept=	-12.22

PASCHIM MEDINIPUR

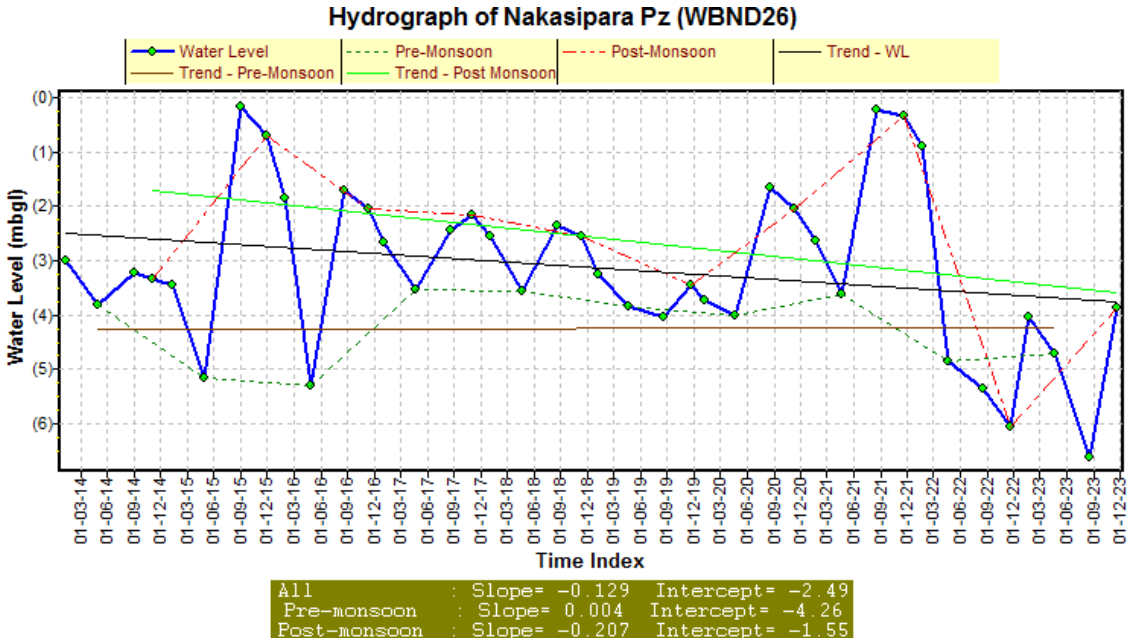


All	:	Slope= -0.326	Intercept=	-7.54
Pre-monsoon	:	Slope= -0.297	Intercept=	-10.50
Post-monsoon	:	Slope= -0.235	Intercept=	-5.19

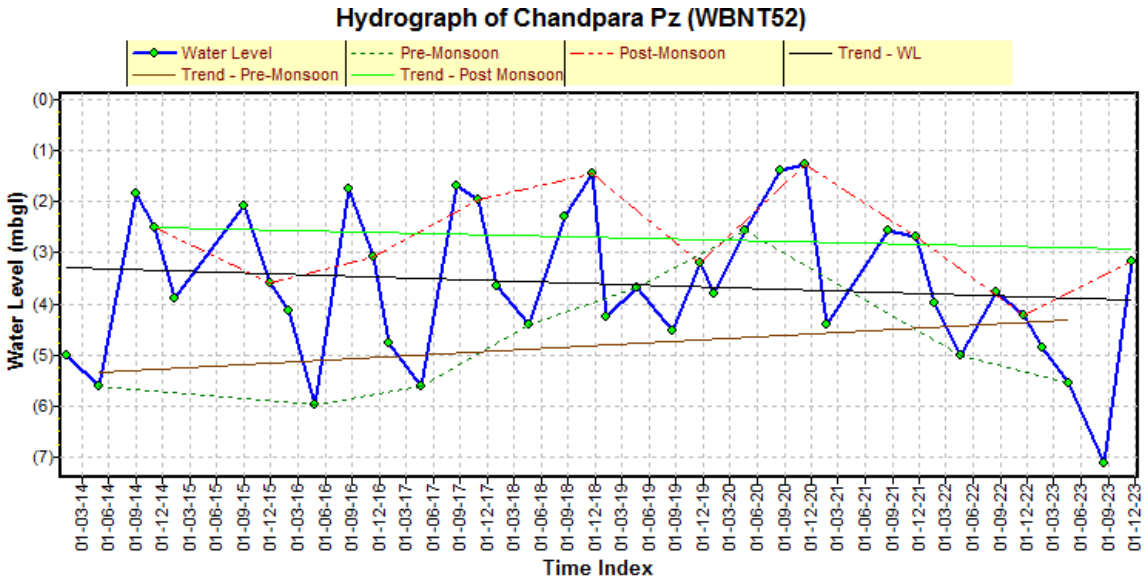
JHARGRAM



NADIA

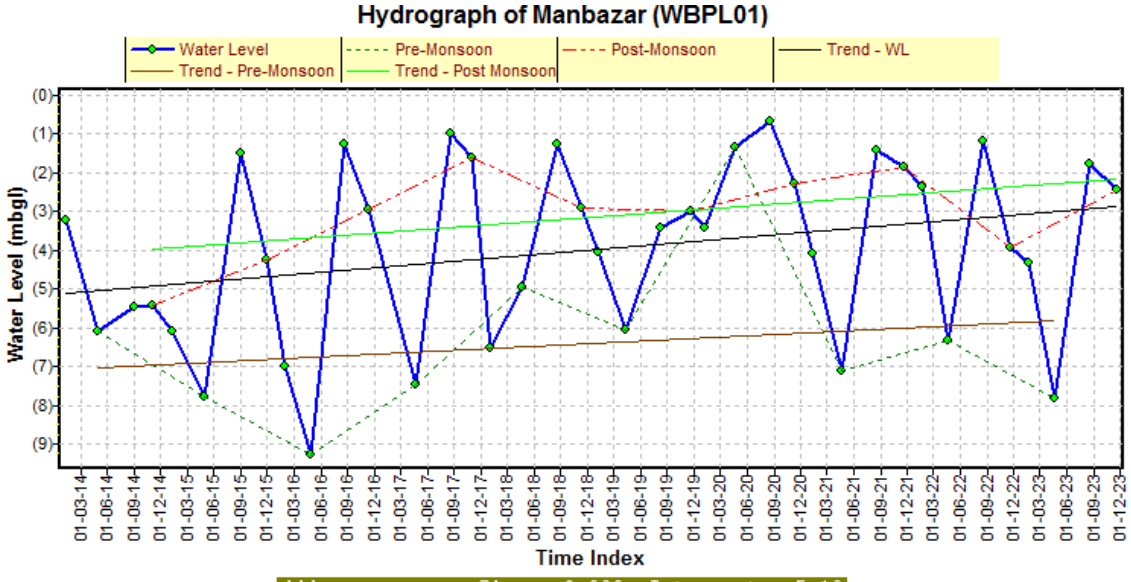


N24 PARGANAS



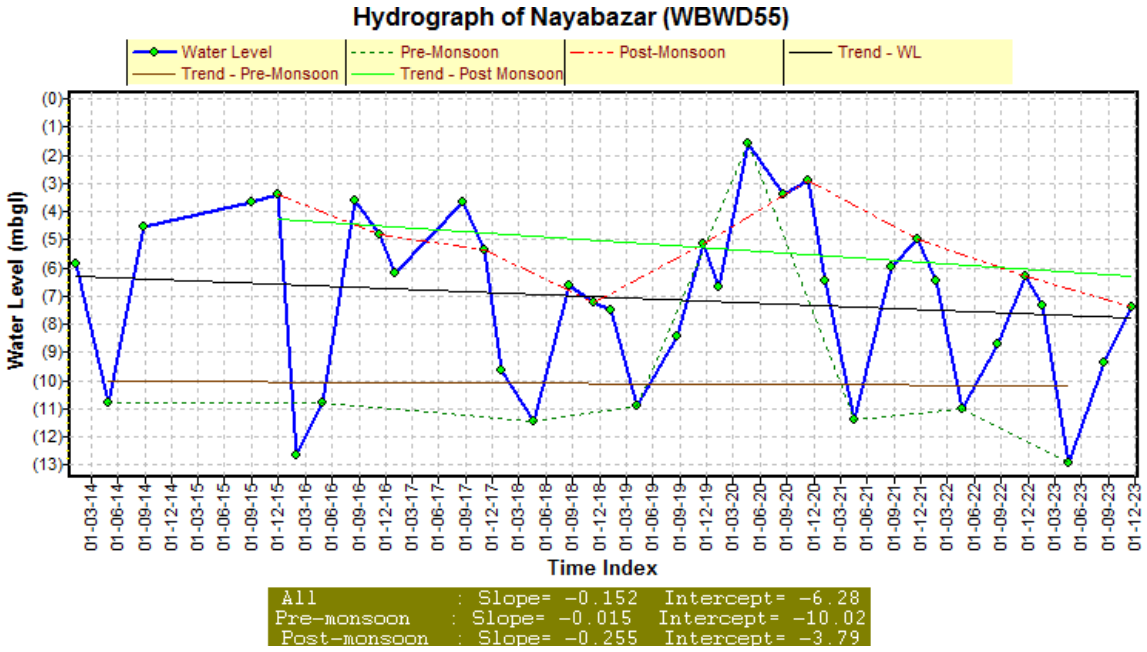
All	Slope= -0.064	Intercept= -3.29
Pre-monsoon	Slope= 0.114	Intercept= -5.36
Post-monsoon	Slope= -0.049	Intercept= -2.45

PURULIA

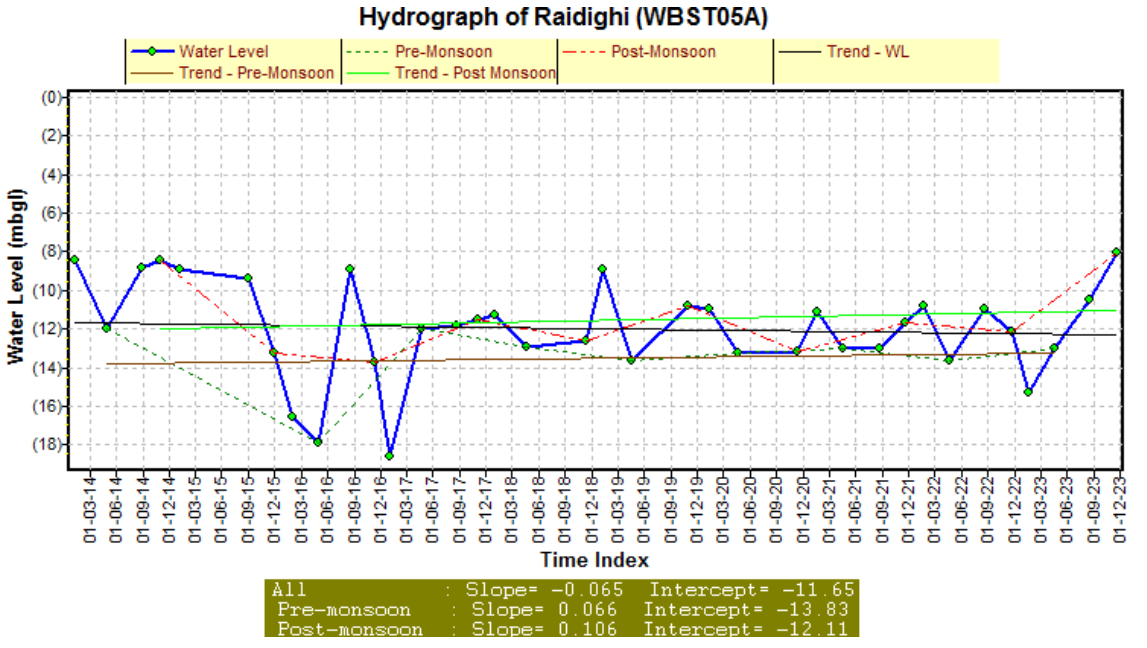


All	Slope= 0.228	Intercept= -5.10
Pre-monsoon	Slope= 0.138	Intercept= -7.07
Post-monsoon	Slope= 0.196	Intercept= -4.11

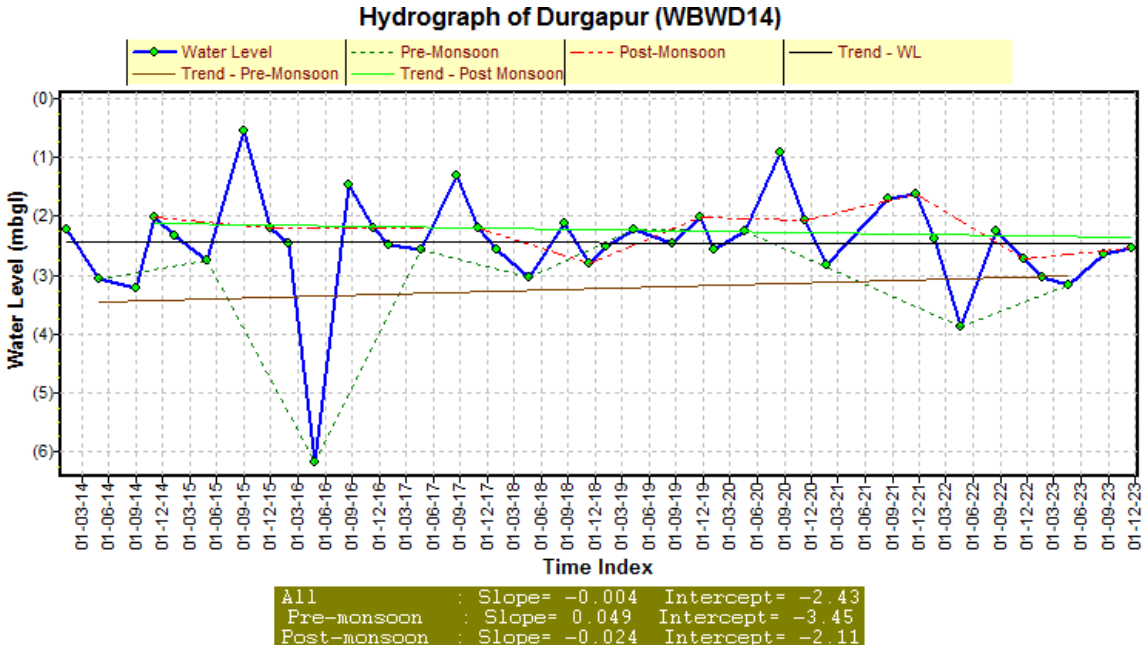
DAKSHIN DINAJPUR



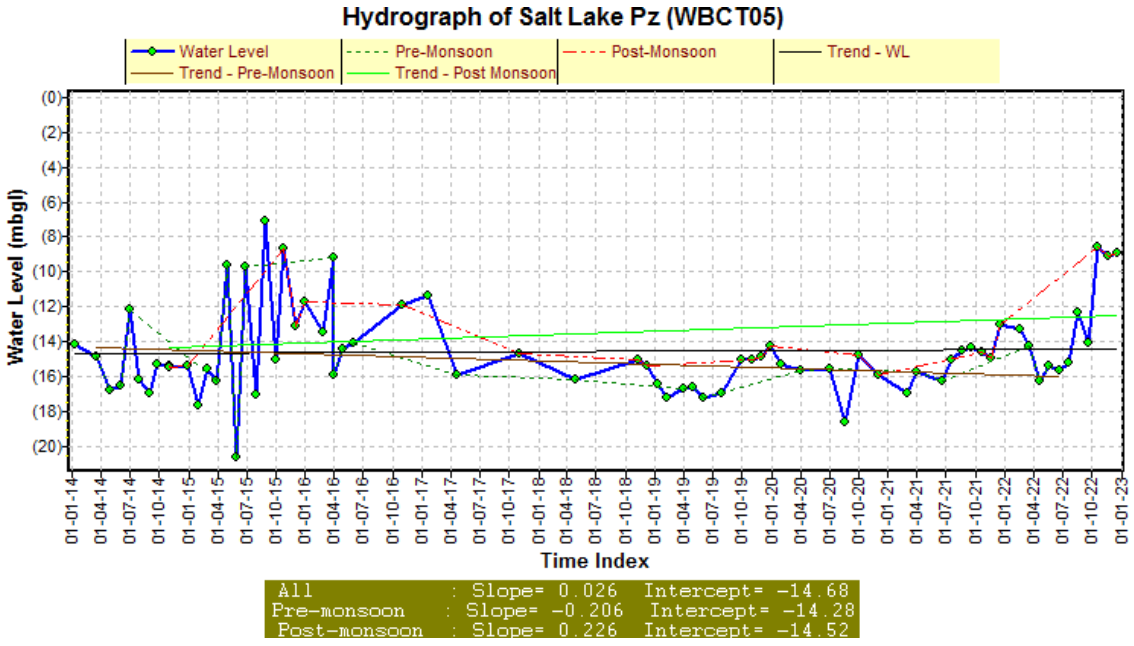
S24 PARGANAS

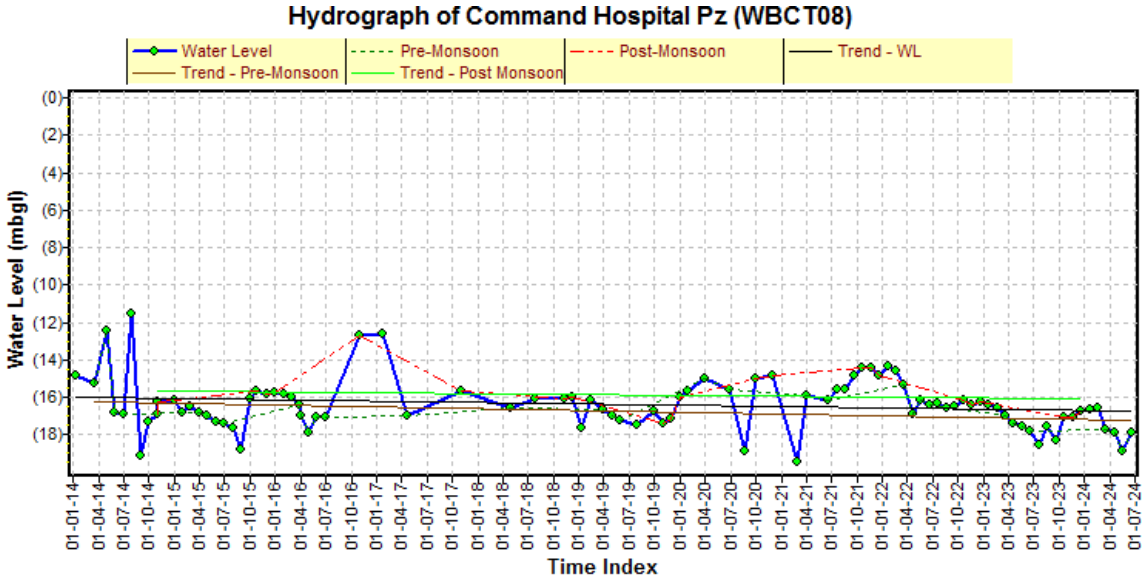


UTTAR DINAJPUR

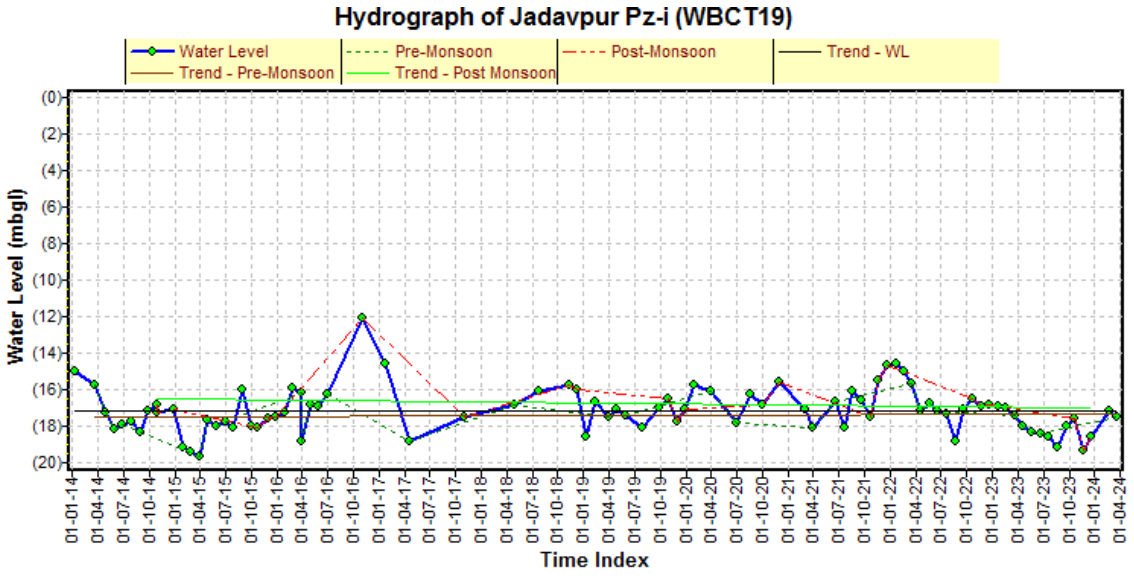


KOLKATA CITY



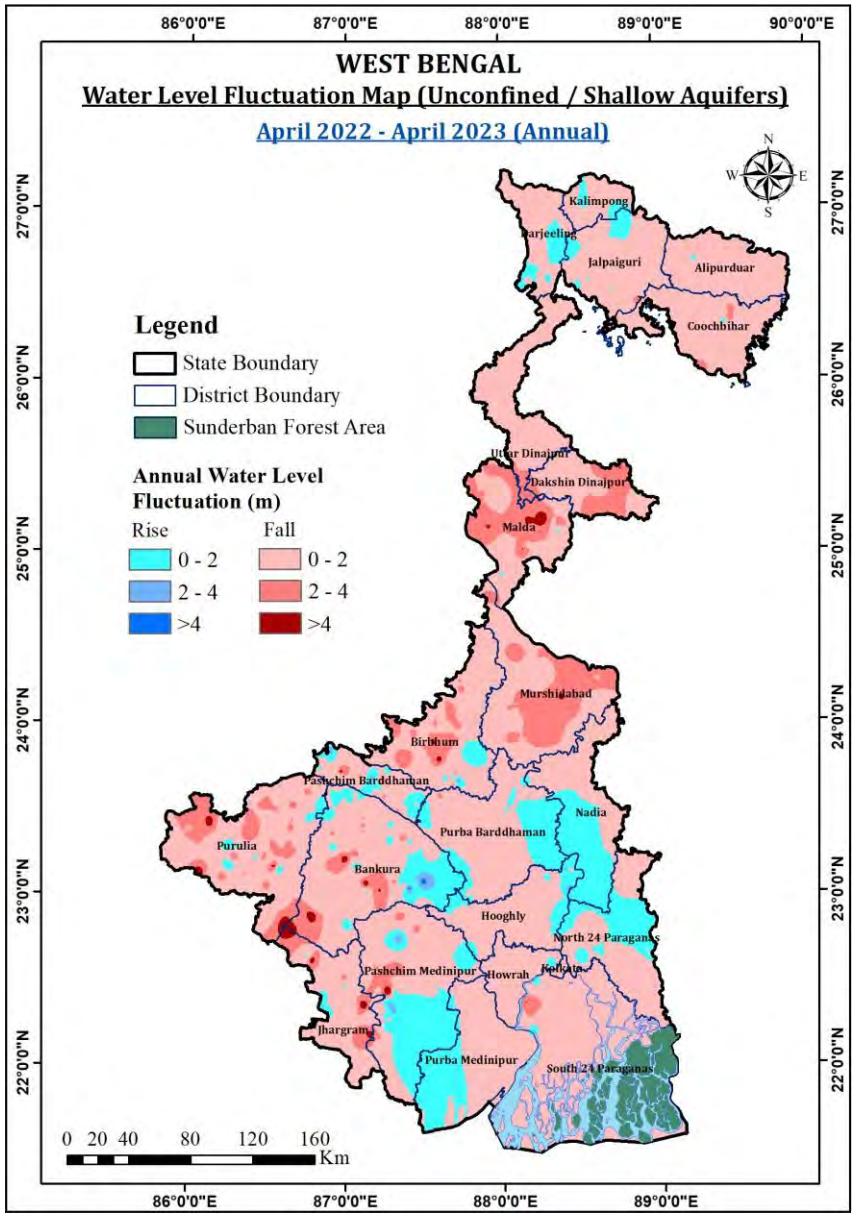


All	:	Slope= -0.073		Intercept= -16.01
Pre-monsoon	:	Slope= -0.101		Intercept= -16.20
Post-monsoon	:	Slope= -0.044		Intercept= -15.62



All	:	Slope= 0.001		Intercept= -17.17
Pre-monsoon	:	Slope= 0.016		Intercept= -17.52
Post-monsoon	:	Slope= -0.059		Intercept= -16.47

PLATE-I


WEST BENGAL
Water Level Fluctuation Map (Unconfined / Shallow Aquifers)
April 2022 - April 2023 (Annual)
Legend
State Boundary
District Boundary
Sunderban Forest Area
Annual Water Level Fluctuation (m)
Rise
0 - 2
2 - 4
>4
Fall
0 - 2
2 - 4
>4
Kalimpong
Darjeeling
Jalpaiguri
Alipurduar
Coochbihar
Uttar Dinajpur
Dakshin Dinajpur
Malda
Murshidabad
Birbhum
Pashchim Barddhaman
Nadia
Purba Barddhaman
Purulia
Bankura
Hooghly
North 24 Paraganas
Pashchim Medinipur
Howrah
Kolkata
Jhargram
Purba Medinipur
South 24 Paraganas
0 20 40 80 120 160
Km
86°0'0"E
87°0'0"E
88°0'0"E
89°0'0"E
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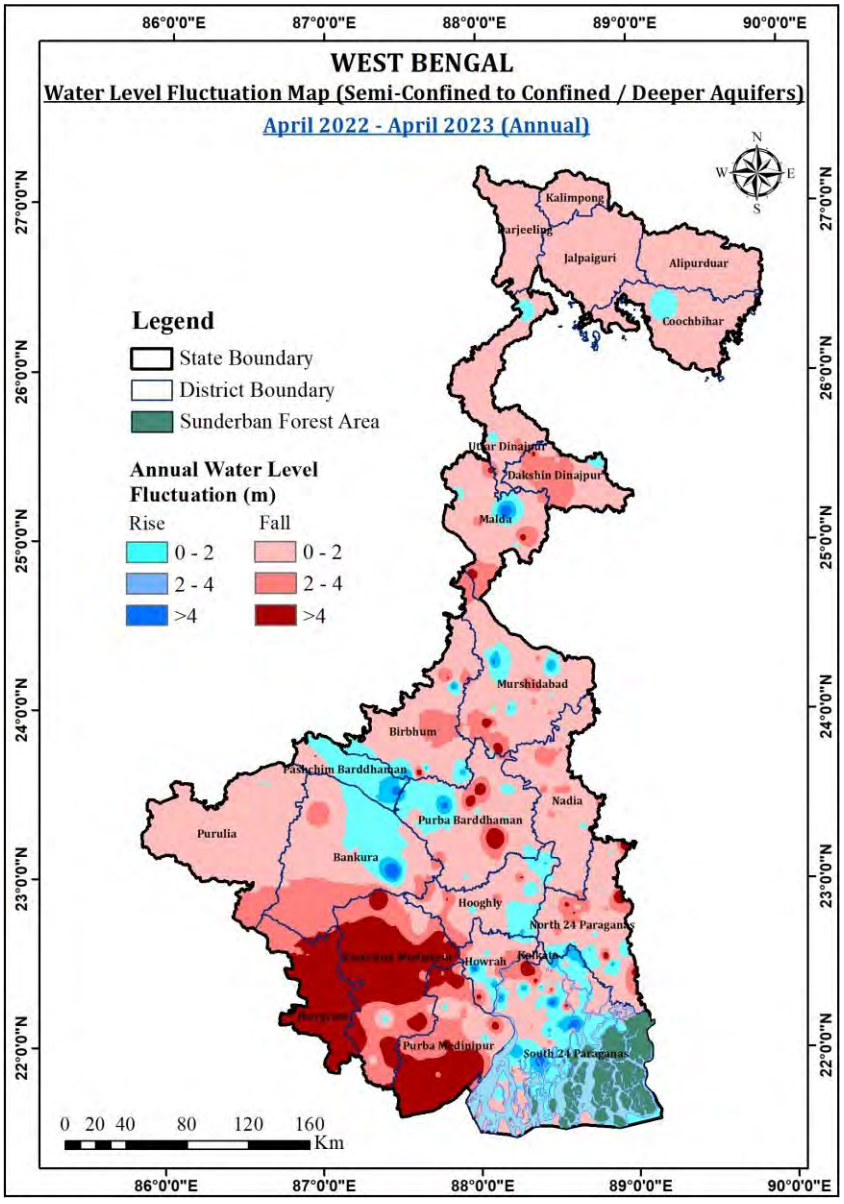
WEST BENGAL
Water Level Fluctuation Map (Semi-Confined to Confined / Deeper Aquifers)
April 2022 - April 2023 (Annual)
Legend
State Boundary
District Boundary
Sunderban Forest Area
Annual Water Level Fluctuation (m)
Rise
0 - 2
2 - 4
>4
Fall
0 - 2
2 - 4
>4
Kalimpong
Darjeeling
Jalpaiguri
Alipurduar
Coochbihar
Uttar Dinajpur
Dakshin Dinajpur
Malda
Murshidabad
Birbhum
Pashchim Barddhaman
Nadia
Purba Barddhaman
Purulia
Bankura
Hooghly
North 24 Paraganas
Howrah
Kolkata
Purba Medinipur
South 24 Paraganas
0 20 40 80 120 160
Km
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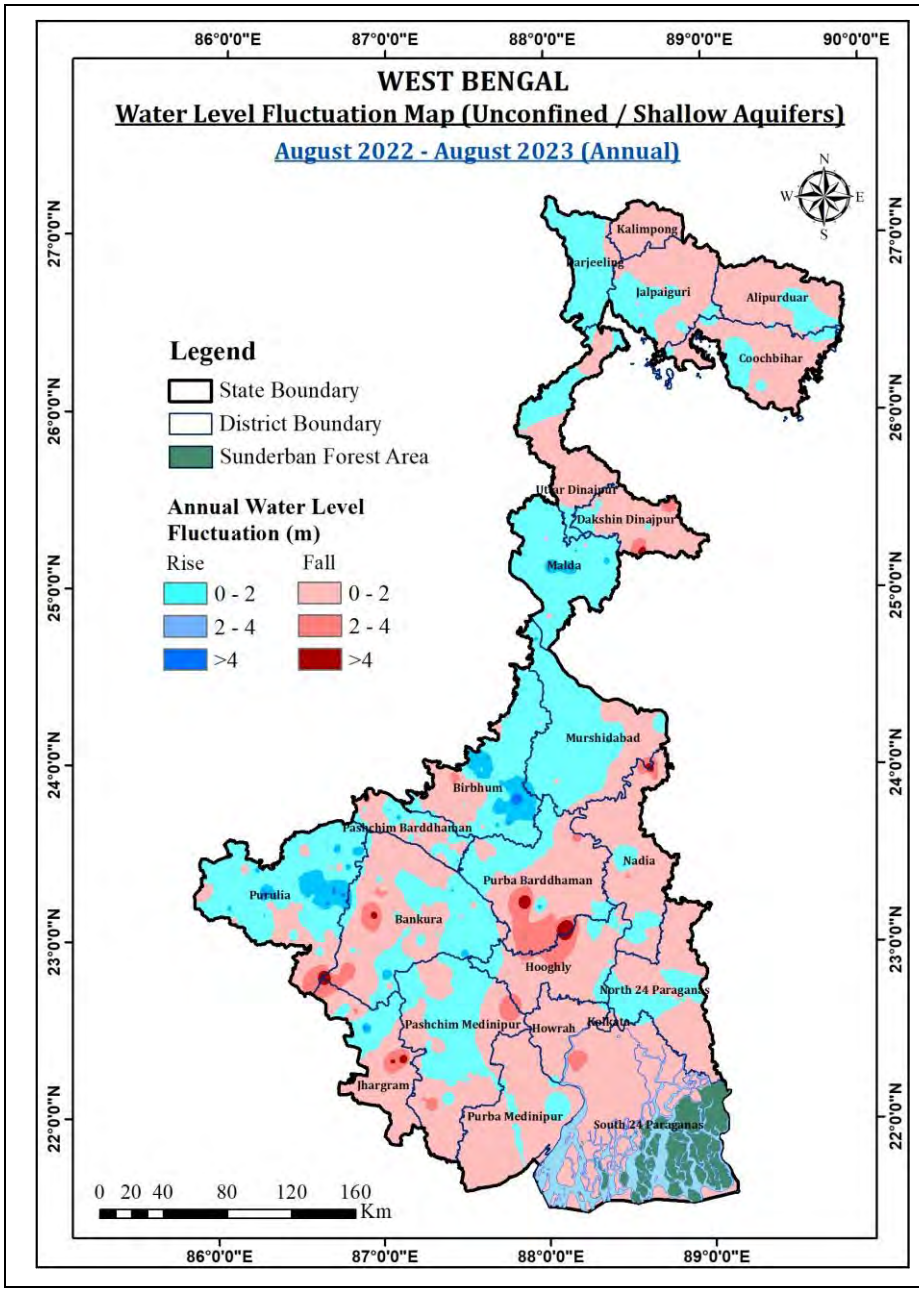
PLATE-II


WEST BENGAL
Water Level Fluctuation Map (Unconfined / Shallow Aquifers)
August 2022 - August 2023 (Annual)
Legend
State Boundary
District Boundary
Sunderban Forest Area
Annual Water Level Fluctuation (m)
Rise
Fall
0 - 2
2 - 4
>4
Kalimpong
Darjeeling
Jalpaiguri
Alipurduar
Coochbihar
Uttar Dinajpur
Dakshin Dinajpur
Malda
Murshidabad
Birbhum
Pashchim Barddhaman
Nadia
Purba Barddhaman
Purulia
Bankura
Hooghly
North 24 Paraganas
Pashchim Medinipur
Howrah
Kolkata
Jhargram
Purba Medinipur
South 24 Paraganas
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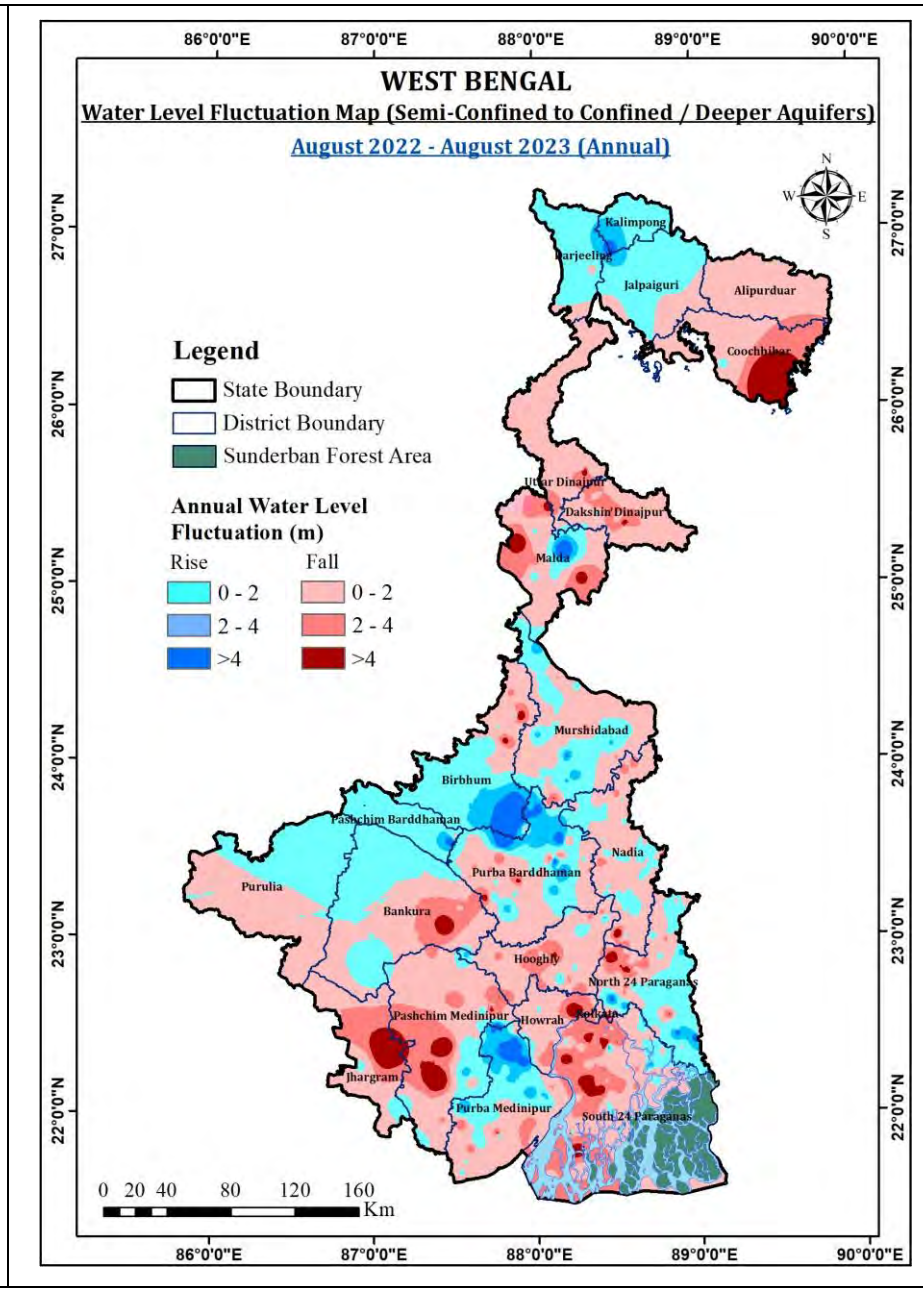
WEST BENGAL
Water Level Fluctuation Map (Semi-Confined to Confined / Deeper Aquifers)
August 2022 - August 2023 (Annual)
Legend
State Boundary
District Boundary
Sunderban Forest Area
Annual Water Level Fluctuation (m)
Rise
Fall
0 - 2
2 - 4
>4
Kalimpong
Darjeeling
Jalpaiguri
Alipurduar
Coochbihar
Uttar Dinajpur
Dakshin Dinajpur
Malda
Murshidabad
Birbhum
Pashchim Barddhaman
Nadia
Purba Barddhaman
Purulia
Bankura
Hooghly
North 24 Paraganas
Pashchim Medinipur
Howrah
Kolkata
Jhargram
Purba Medinipur
South 24 Paraganas
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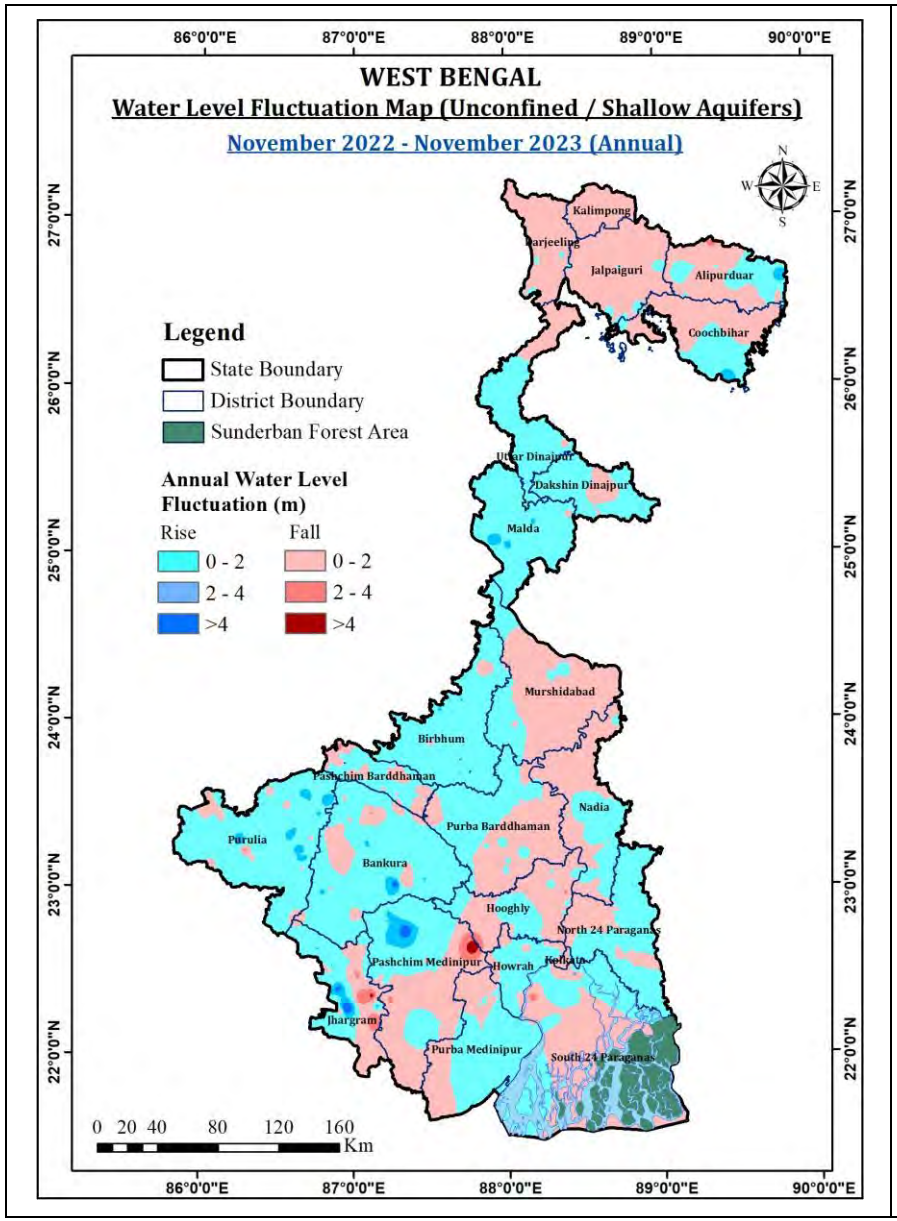
22°0'0"N

PLATE-III


WEST BENGAL
Water Level Fluctuation Map (Unconfined / Shallow Aquifers)
November 2022 - November 2023 (Annual)
Legend
State Boundary
District Boundary
Sunderban Forest Area
Annual Water Level Fluctuation (m)
Rise
Fall
0 - 2
2 - 4
>4
Kalimpong
Darjeeling
Jalpaiguri
Alipurduar
Coochbihar
Uttar Dinajpur
Dakshin Dinajpur
Malda
Murshidabad
Birbhum
Pashchim Barddhaman
Purba Barddhaman
Nadia
Purulia
Bankura
Hooghly
North 24 Paraganas
Pashchim Medinipur
Howrah
Kolkata
Jhargram
Purba Medinipur
South 24 Paraganas
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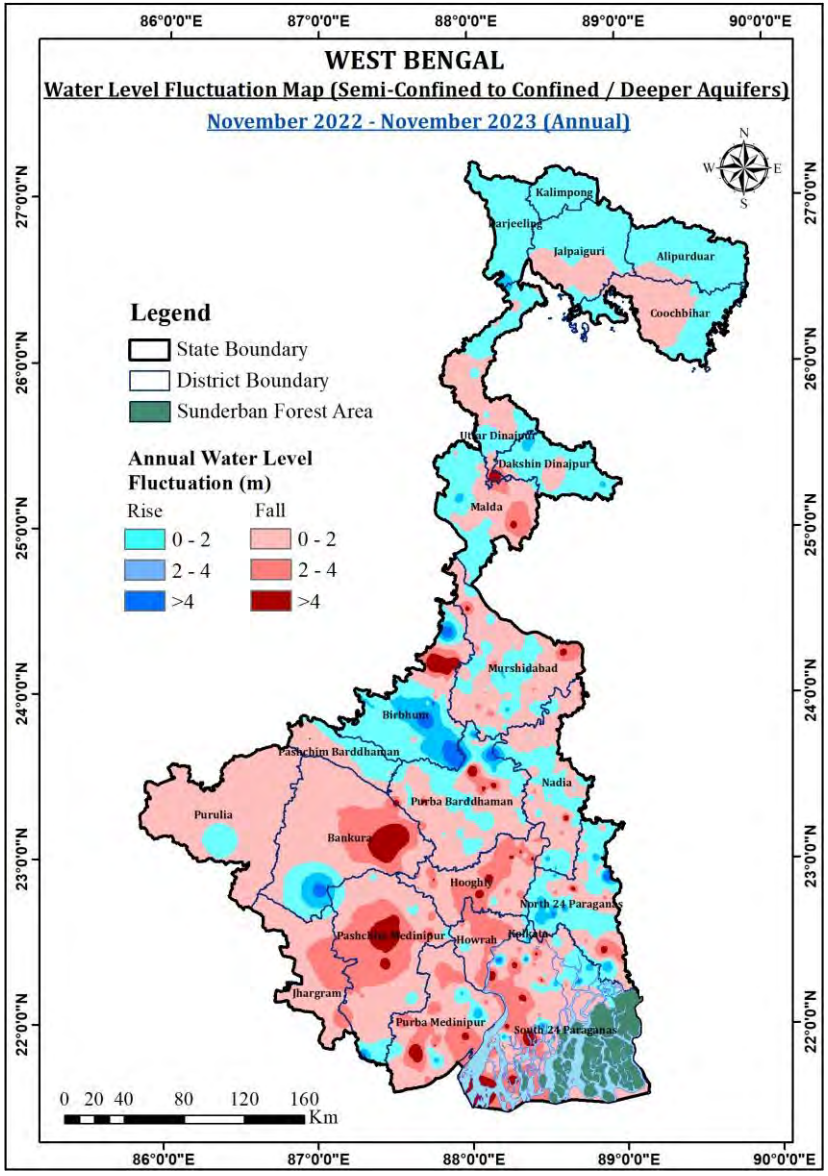
WEST BENGAL
Water Level Fluctuation Map (Semi-Confined to Confined / Deeper Aquifers)
November 2022 - November 2023 (Annual)
Legend
State Boundary
District Boundary
Sunderban Forest Area
Annual Water Level Fluctuation (m)
Rise
Fall
0 - 2
2 - 4
>4
Kalimpong
Darjeeling
Jalpaiguri
Alipurduar
Coochbihar
Uttar Dinajpur
Dakshin Dinajpur
Malda
Murshidabad
Birbhum
Pashchim Barddhaman
Purba Barddhaman
Nadia
Purulia
Bankura
Hooghly
North 24 Paraganas
Pashchim Medinipur
Howrah
Kolkata
Jhargram
Purba Medinipur
South 24 Paraganas
0 20 40 80 120 160
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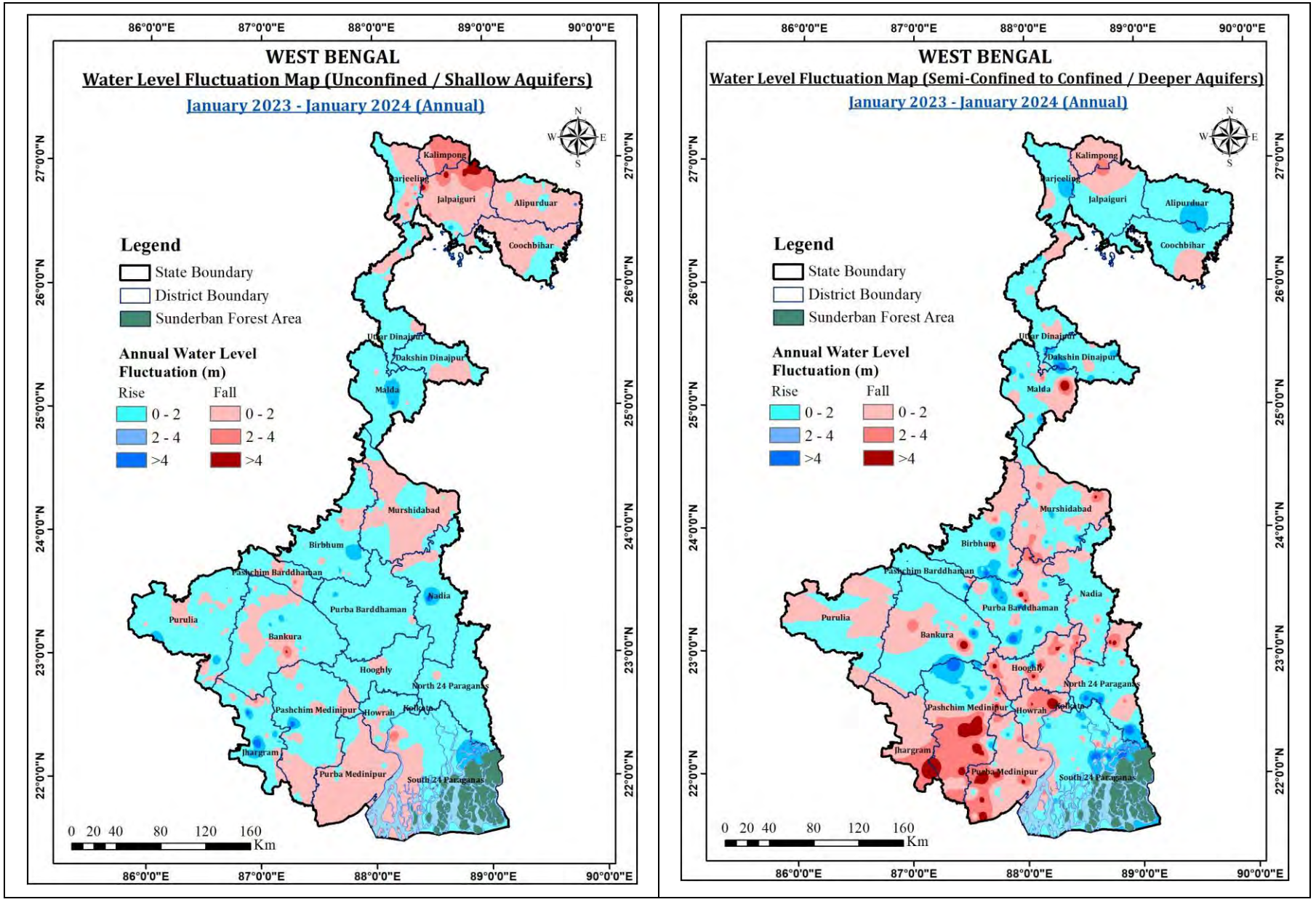
PLATE-IV


WEST BENGAL
Water Level Fluctuation Map (Unconfined / Shallow Aquifers)
January 2023 - January 2024 (Annual)
Legend
State Boundary
District Boundary
Sunderban Forest Area
Annual Water Level Fluctuation (m)
Rise
Fall
0 - 2
2 - 4
>4
Kalimpong
Darjeeling
Jalpaiguri
Alipurduar
Coochbihar
Uttar Dinajpur
Dakshin Dinajpur
Malda
Murshidabad
Birbhum
Pashchim Barddhaman
Purba Barddhaman
Nadia
Purulia
Bankura
Hooghly
North 24 Paraganas
Pashchim Medinipur
Howrah
Kolkata
Jhargram
Purba Medinipur
South 24 Paraganas
0 20 40 80 120 160
Km
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27°0'0"N
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24°0'0"N
23°0'0"N
22°0'0"N
WEST BENGAL
Water Level Fluctuation Map (Semi-Confined to Confined / Deeper Aquifers)
January 2023 - January 2024 (Annual)
Legend
State Boundary
District Boundary
Sunderban Forest Area
Annual Water Level Fluctuation (m)
Rise
Fall
0 - 2
2 - 4
>4
Kalimpong
Darjeeling
Jalpaiguri
Alipurduar
Coochbihar
Uttar Dinajpur
Dakshin Dinajpur
Malda
Murshidabad
Birbhum
Pashchim Barddhaman
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South 24 Paraganas
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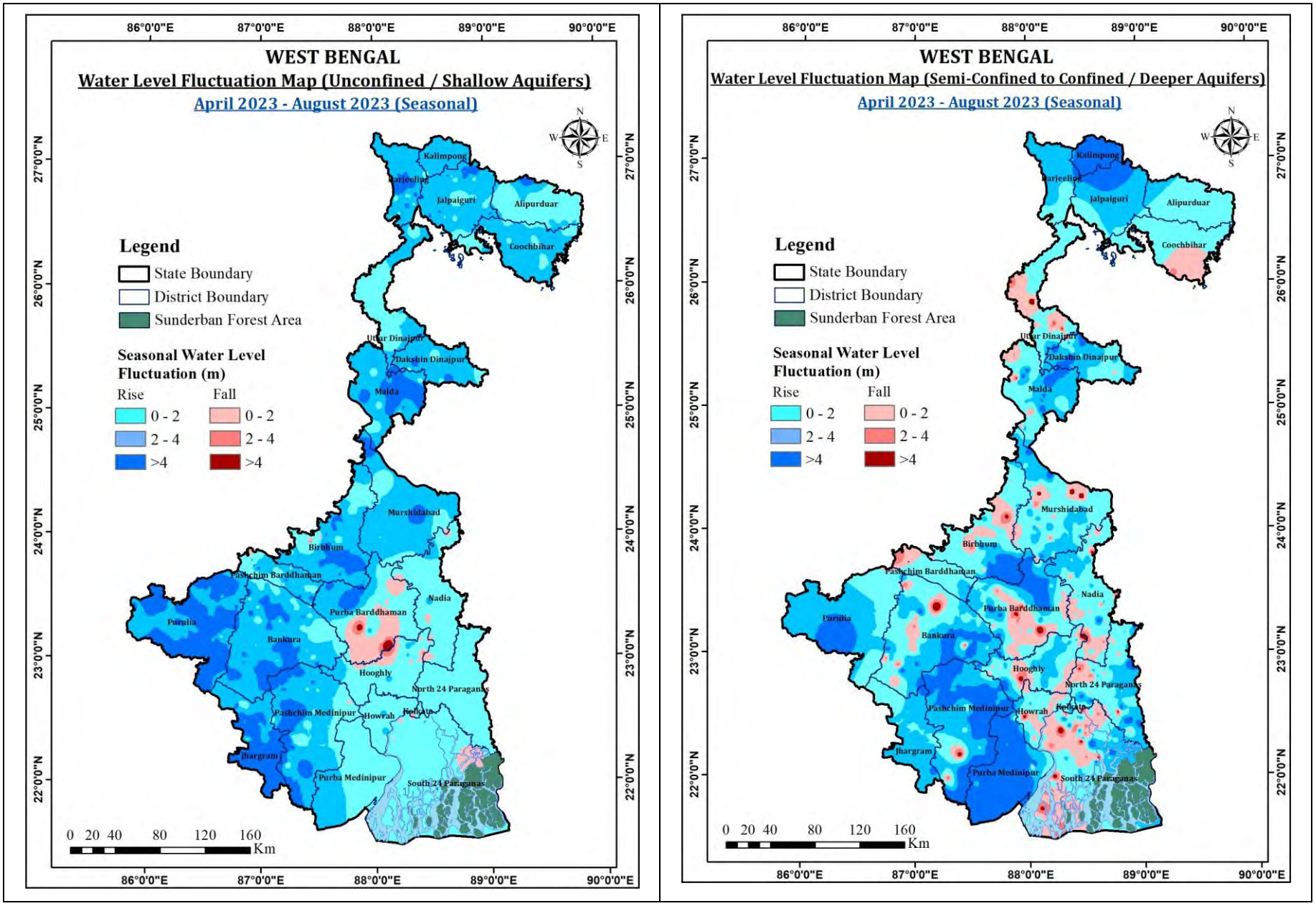
PLATE-V


WEST BENGAL
Water Level Fluctuation Map (Unconfined / Shallow Aquifers)
April 2023 - August 2023 (Seasonal)
Legend
State Boundary
District Boundary
Sunderban Forest Area
Seasonal Water Level Fluctuation (m)
Rise
Fall
0 - 2
2 - 4
>4
Kalimpong
Darjeeling
Jalpaiguri
Alipurduar
Coochbihar
Uttar Dinajpur
Dakshin Dinajpur
Malda
Murshidabad
Birbhum
Pashchim Barddhaman
Nadia
Purba Barddhaman
Purulia
Bankura
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North 24 Paraganas
Pashchim Medinipur
Howrah
Kolkata
Jhargram
Purba Medinipur
South 24 Paraganas
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Km
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24°0'0"N
23°0'0"N
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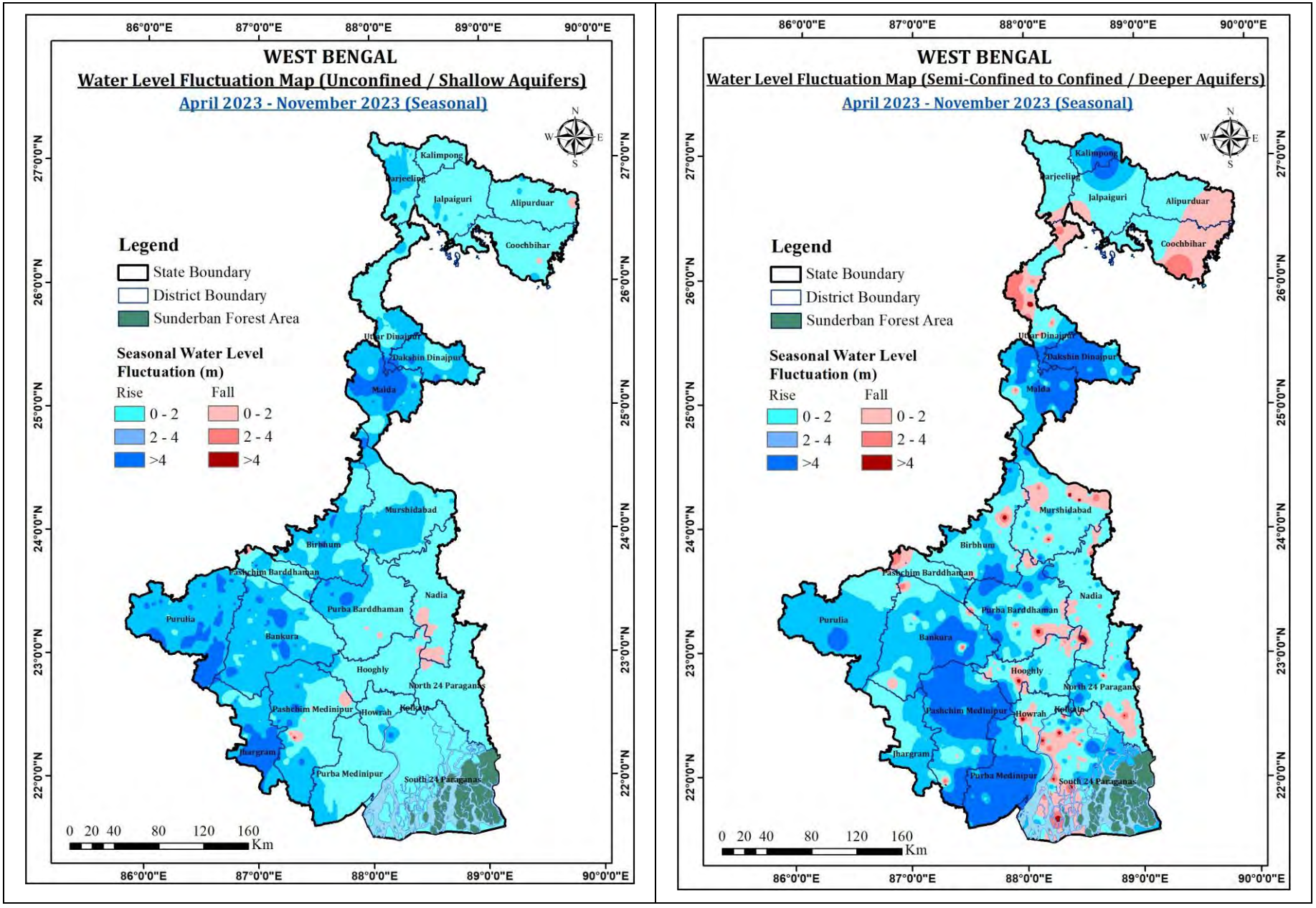
WEST BENGAL
Water Level Fluctuation Map (Semi-Confined to Confined / Deeper Aquifers)
April 2023 - August 2023 (Seasonal)

PLATE-VI


WEST BENGAL
Water Level Fluctuation Map (Unconfined / Shallow Aquifers)
April 2023 - November 2023 (Seasonal)
Legend
State Boundary
District Boundary
Sunderban Forest Area
Seasonal Water Level Fluctuation (m)
Rise
Fall
0 - 2
2 - 4
>4
Kalimpong
Darjeeling
Jalpaiguri
Alipurduar
Coochbihar
Uttar Dinajpur
Dakshin Dinajpur
Malda
Murshidabad
Birbhum
Pashchim Barddhaman
Purba Barddhaman
Nadia
Purulia
Bankura
Hooghly
North 24 Paraganas
Pashchim Medinipur
Howrah
Kolkata
Jhargram
Purba Medinipur
South 24 Paraganas
0 20 40 80 120 160
Km
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89°0'0"E
90°0'0"E
27°0'0"N
26°0'0"N
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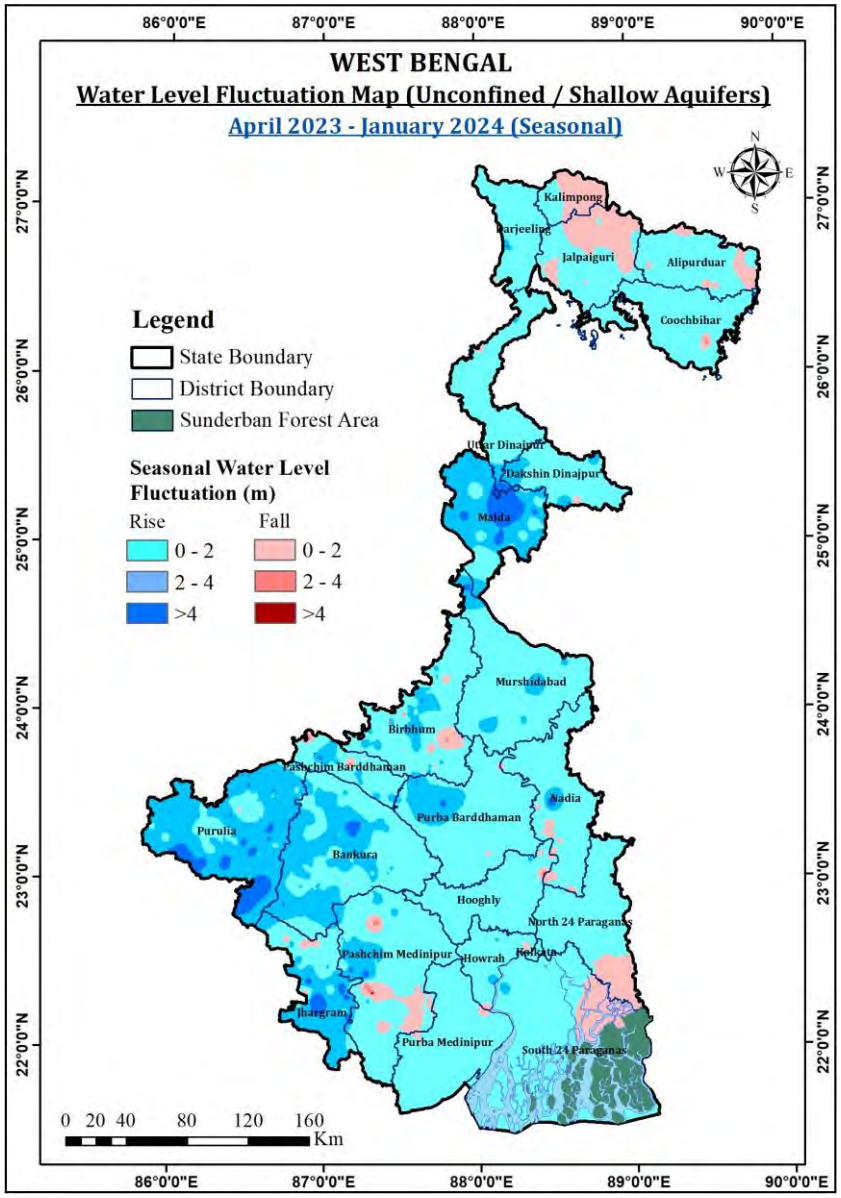
24°0'0"N
23°0'0"N
22°0'0"N
WEST BENGAL
Water Level Fluctuation Map (Semi-Confined to Confined / Deeper Aquifers)
April 2023 - November 2023 (Seasonal)

PLATE-VII


WEST BENGAL
Water Level Fluctuation Map (Unconfined / Shallow Aquifers)
April 2023 - January 2024 (Seasonal)
Legend
State Boundary
District Boundary
Sunderban Forest Area
Seasonal Water Level Fluctuation (m)
Rise
Fall
0 - 2
2 - 4
>4
Kalimpong
Darjeeling
Jalpaiguri
Alipurduar
Coochbihar
Uttar Dinajpur
Dakshin Dinajpur
Malda
Murshidabad
Birbhum
Pashchim Barddhaman
Purba Barddhaman
Nadia
Purulia
Bankura
Hooghly
North 24 Paraganas
Kolkata
Howrah
Pashchim Medinipur
Jhargram
Purba Medinipur
South 24 Paraganas
0 20 40 80 120 160
Km
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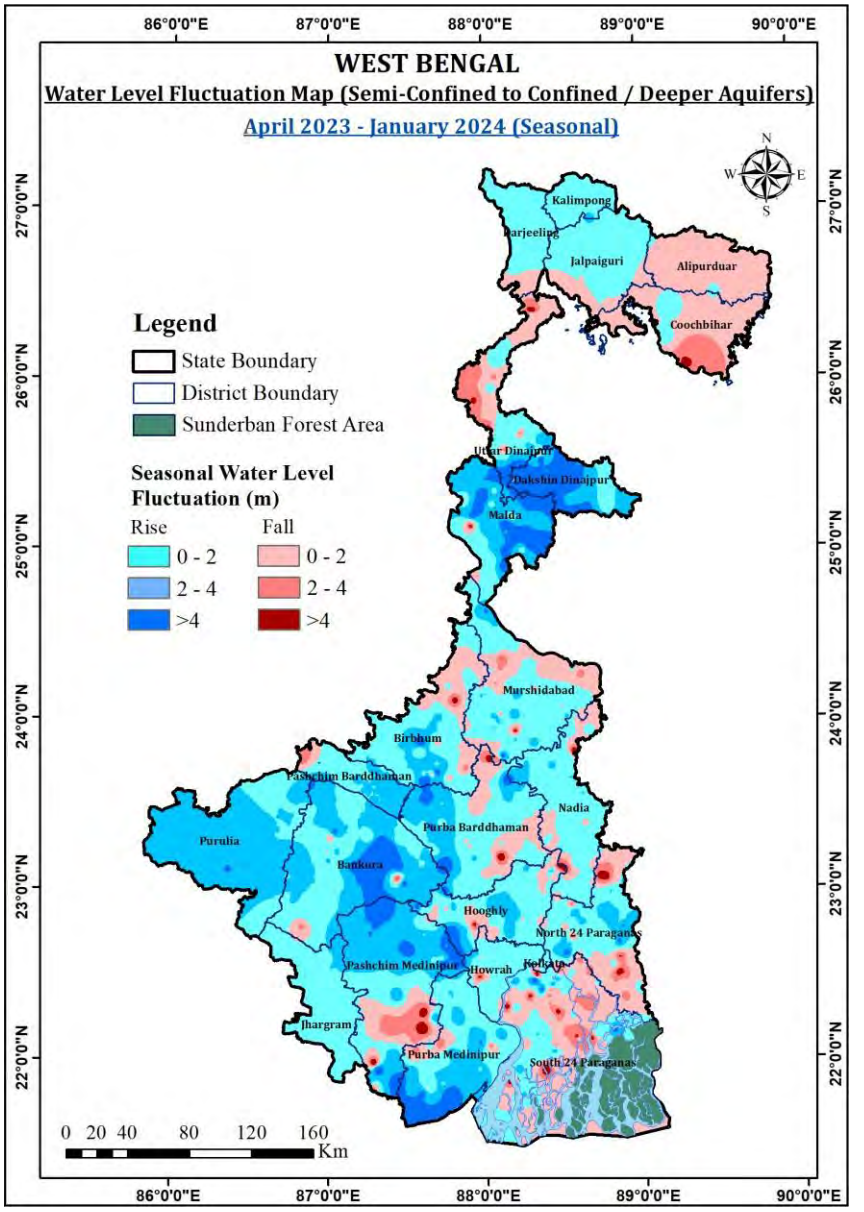
WEST BENGAL
Water Level Fluctuation Map (Semi-Confined to Confined / Deeper Aquifers)
April 2023 - January 2024 (Seasonal)
Legend
State Boundary
District Boundary
Sunderban Forest Area
Seasonal Water Level Fluctuation (m)
Rise
Fall
0 - 2
2 - 4
>4
Kalimpong
Darjeeling
Jalpaiguri
Alipurduar
Coochbihar
Uttar Dinajpur
Dakshin Dinajpur
Malda
Murshidabad
Birbhum
Pashchim Barddhaman
Purba Barddhaman
Nadia
Purulia
Bankura
Hooghly
North 24 Paraganas
Kolkata
Howrah
Pashchim Medinipur
Jhargram
Purba Medinipur
South 24 Paraganas
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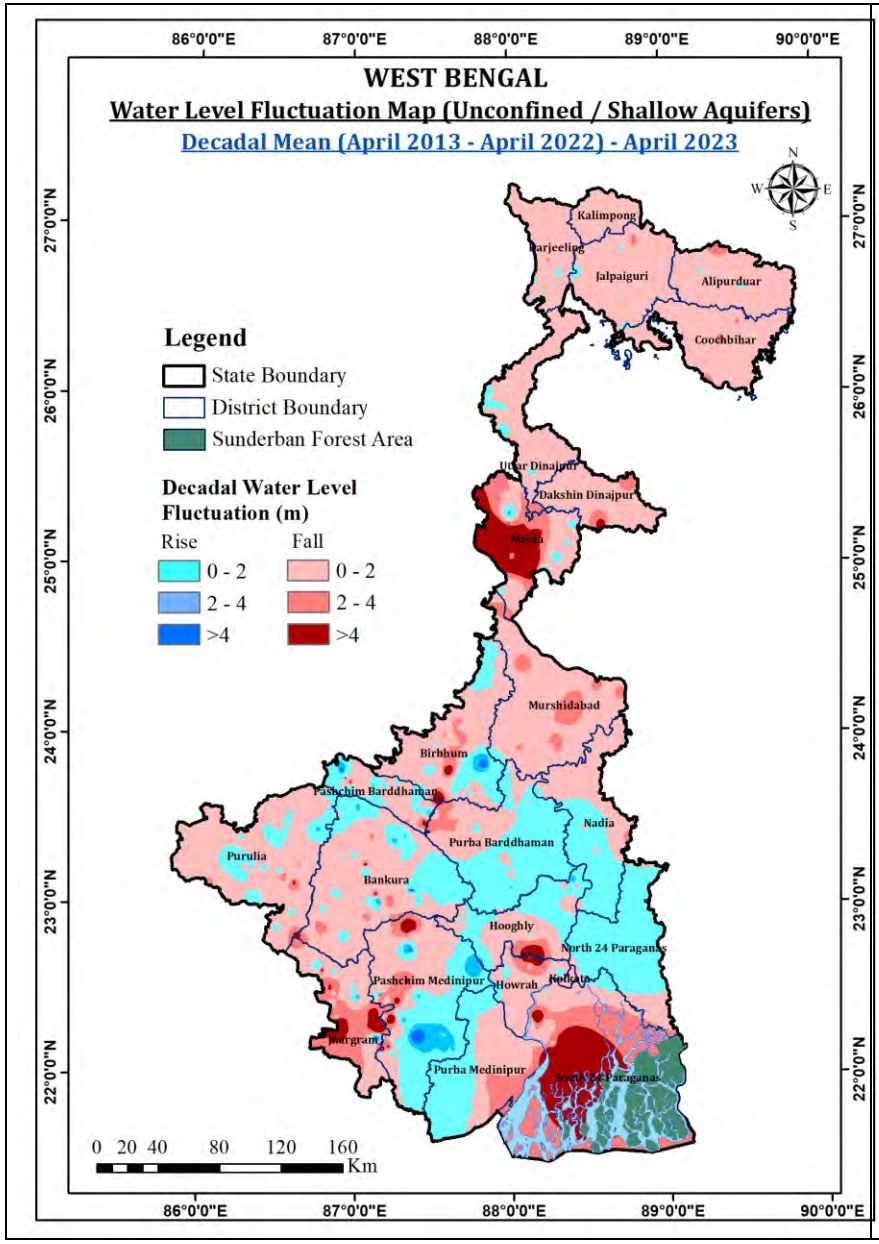
PLATE-VIII


WEST BENGAL
Water Level Fluctuation Map (Unconfined / Shallow Aquifers)
Decadal Mean (April 2013 - April 2022) - April 2023
Legend
State Boundary
District Boundary
Sunderban Forest Area
Decadal Water Level Fluctuation (m)
Rise
Fall
0 - 2
2 - 4
>4
Kalimpong
Darjeeling
Jalpaiguri
Alipurduar
Coochbihar
Uttar Dinajpur
Dakshin Dinajpur
Malda
Murshidabad
Birbhum
Pashchim Barddhaman
Purba Barddhaman
Nadia
Purulia
Bankura
Hooghly
North 24 Paraganas
Pashchim Medinipur
Howrah
Kolkata
Jhargram
Purba Medinipur
South 24 Paraganas
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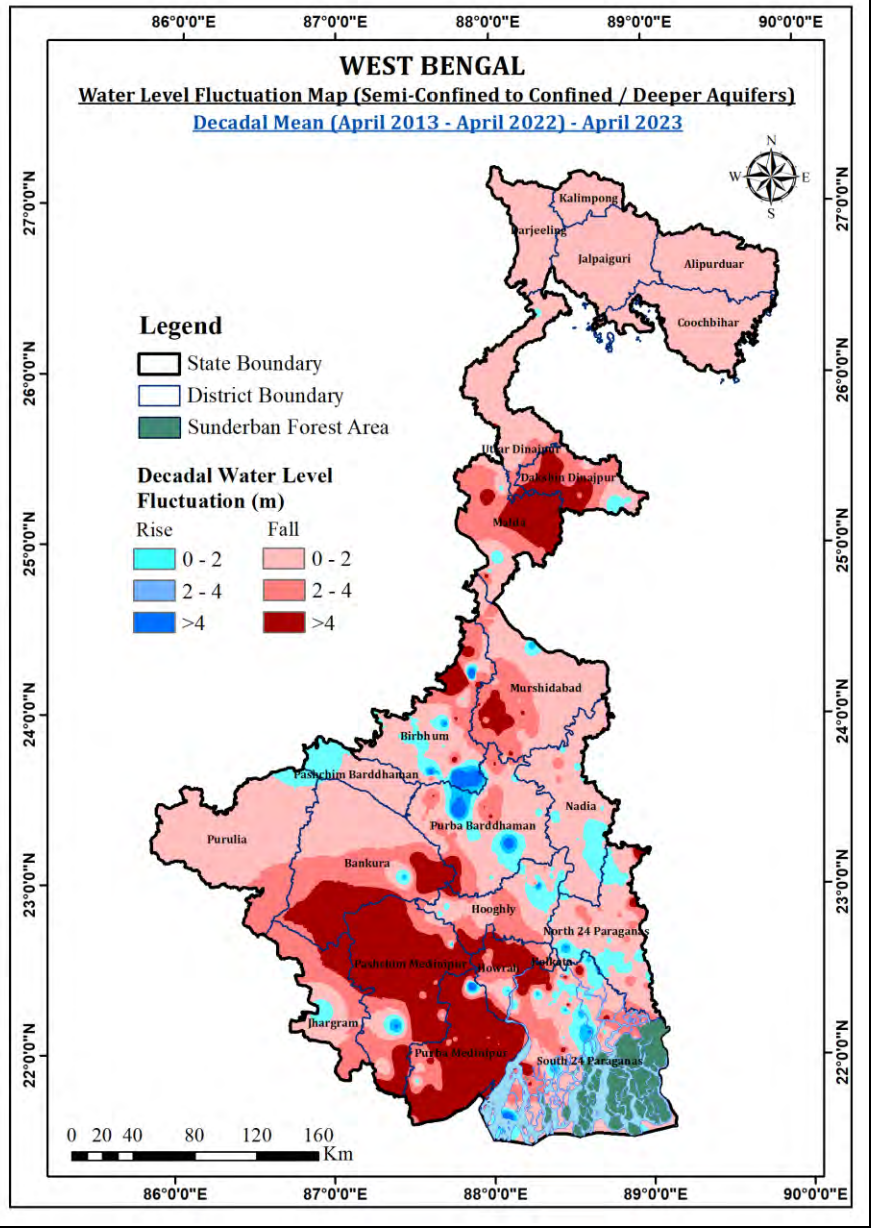
WEST BENGAL
Water Level Fluctuation Map (Semi-Confined to Confined / Deeper Aquifers)
Decadal Mean (April 2013 - April 2022) - April 2023
Legend
State Boundary
District Boundary
Sunderban Forest Area
Decadal Water Level Fluctuation (m)
Rise
Fall
0 - 2
2 - 4
>4
Kalimpong
Darjeeling
Jalpaiguri
Alipurduar
Coochbihar
Uttar Dinajpur
Dakshin Dinajpur
Malda
Murshidabad
Birbhum
Pashchim Barddhaman
Purba Barddhaman
Nadia
Purulia
Bankura
Hooghly
North 24 Paraganas
Pashchim Medinipur
Howrah
Kolkata
Jhargram
Purba Medinipur
South 24 Paraganas
0 20 40 80 120 160
Km
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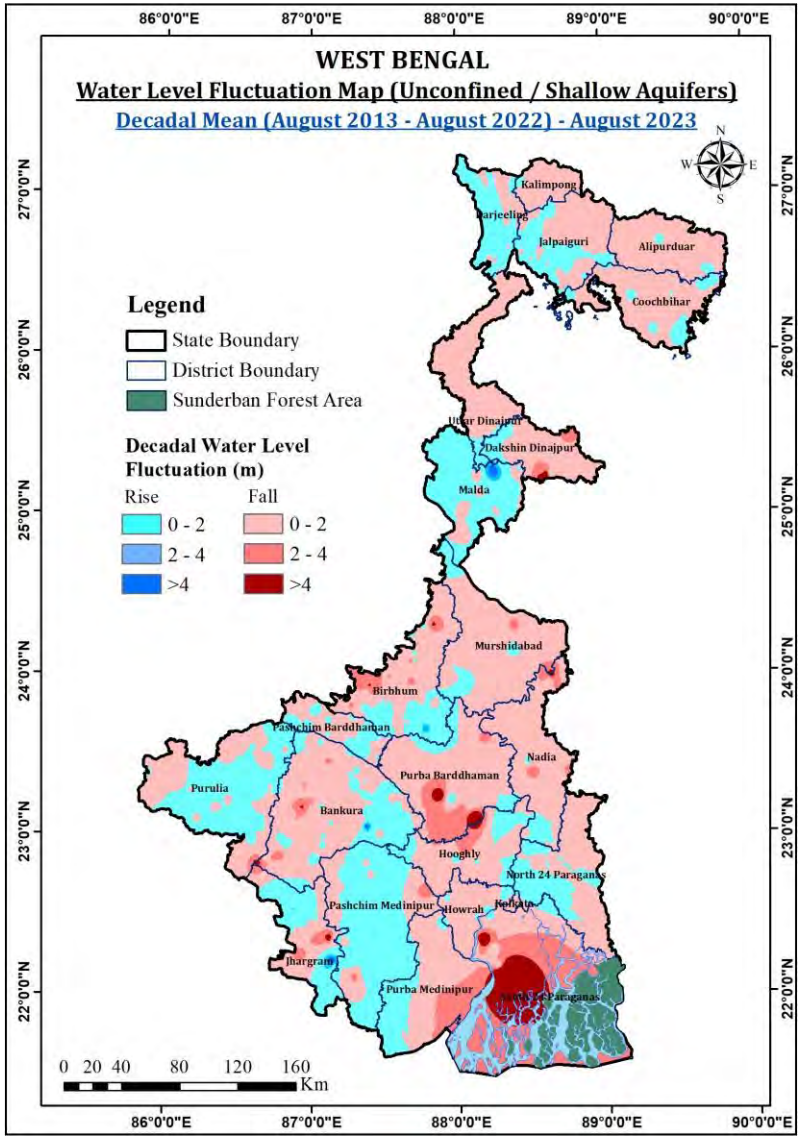
22°0'0"N

PLATE-IX


WEST BENGAL
Water Level Fluctuation Map (Unconfined / Shallow Aquifers)
Decadal Mean (August 2013 - August 2022) - August 2023
Legend
State Boundary
District Boundary
Sunderban Forest Area
Decadal Water Level Fluctuation (m)
Rise
Fall
0 - 2
2 - 4
>4
Kalimpong
Darjeeling
Jalpaiguri
Alipurduar
Coochbihar
Uttar Dinajpur
Dakshin Dinajpur
Malda
Murshidabad
Birbhum
Pashchim Barddhaman
Nadia
Purba Barddhaman
Purulia
Bankura
Hooghly
North 24 Paraganas
Pashchim Medinipur
Howrah
Kolkata
Jhargram
Purba Medinipur
South 24 Paraganas
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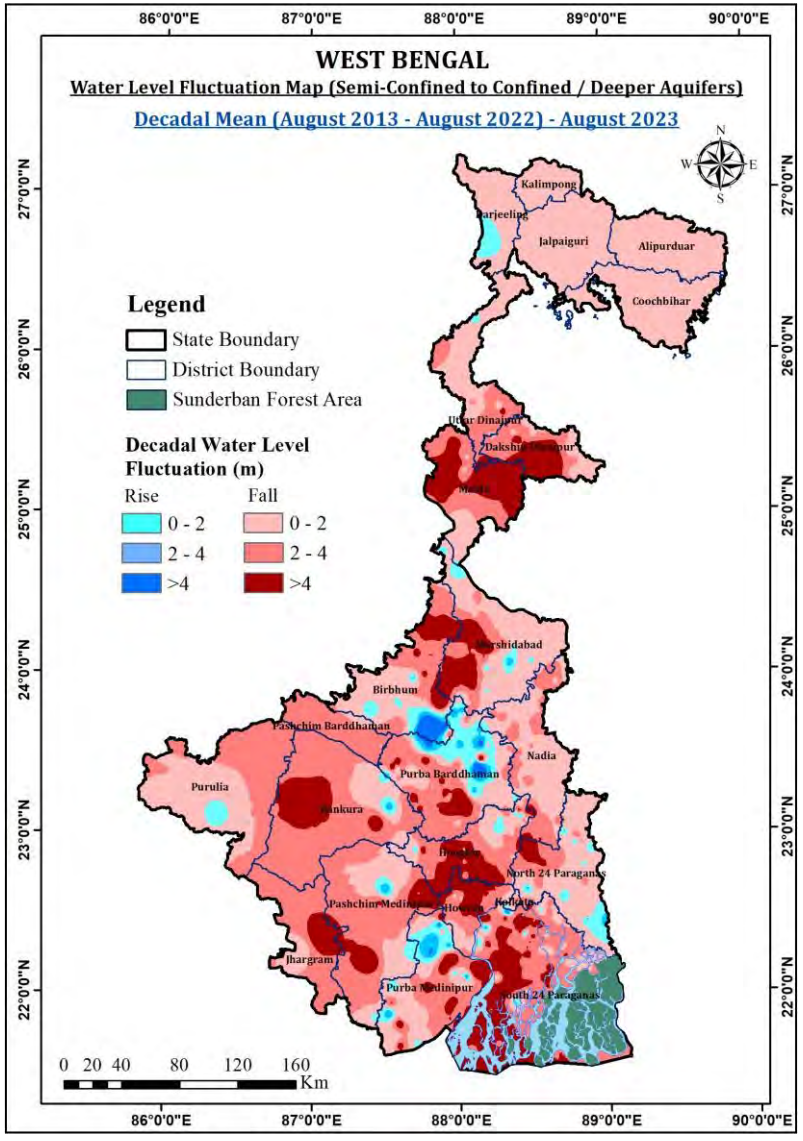
WEST BENGAL
Water Level Fluctuation Map (Semi-Confined to Confined / Deeper Aquifers)
Decadal Mean (August 2013 - August 2022) - August 2023
Legend
State Boundary
District Boundary
Sunderban Forest Area
Decadal Water Level Fluctuation (m)
Rise
Fall
0 - 2
2 - 4
>4
Kalimpong
Darjeeling
Jalpaiguri
Alipurduar
Coochbihar
Murshidabad
Birbhum
Pashchim Barddhaman
Nadia
Purba Barddhaman
Purulia
Bankura
North 24 Paraganas
Jhargram
South 24 Paraganas
0 20 40 80 120 160
Km
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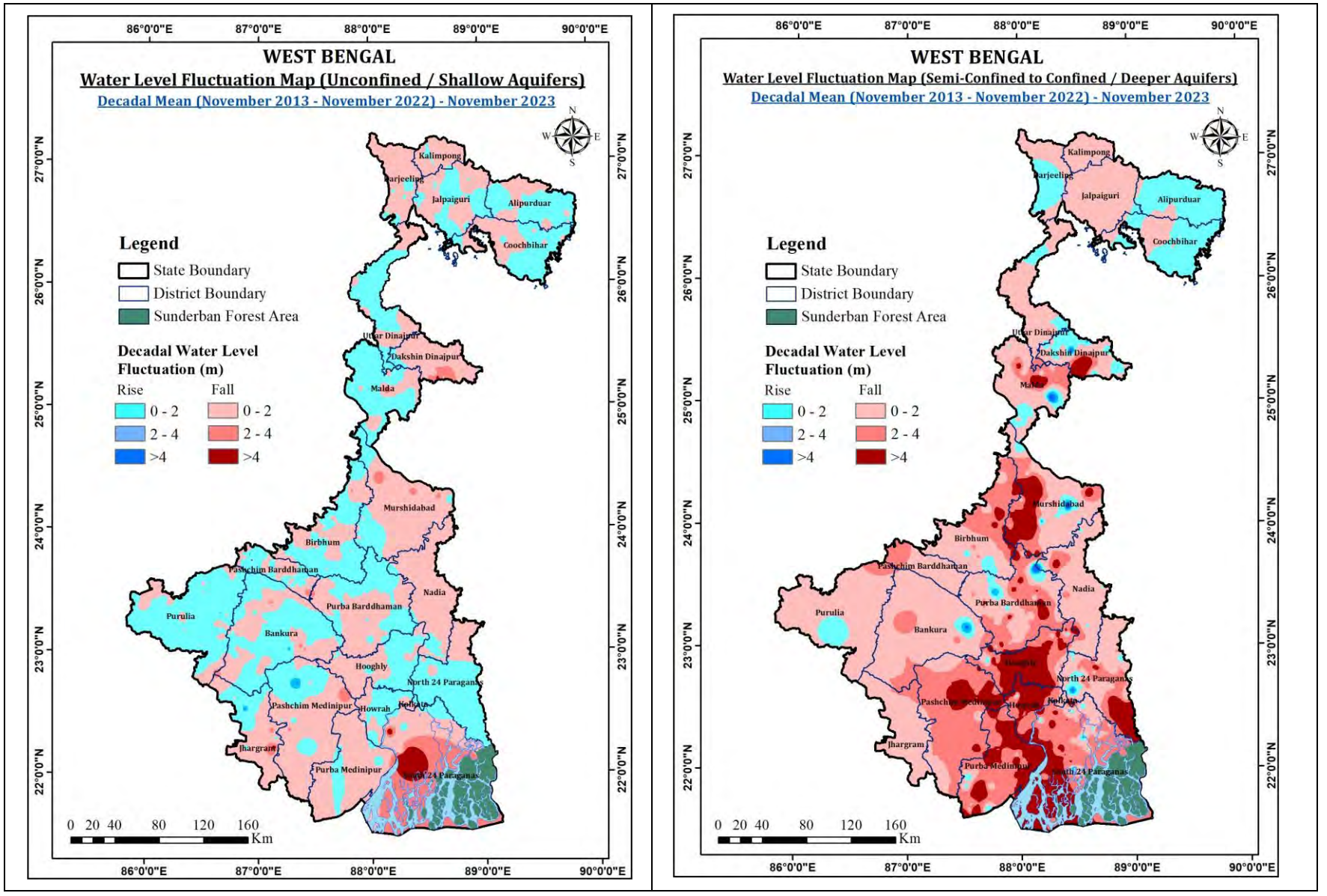
PLATE-X


WEST BENGAL
Water Level Fluctuation Map (Unconfined / Shallow Aquifers)
Decadal Mean (November 2013 - November 2022) - November 2023
Legend
State Boundary
District Boundary
Sunderban Forest Area
Decadal Water Level Fluctuation (m)
Rise
Fall
0 - 2
2 - 4
>4
0 - 2
2 - 4
>4
Kalimpong
Darjeeling
Jalpaiguri
Alipurduar
Coochbihar
Uttar Dinajpur
Dakshin Dinajpur
Malda
Murshidabad
Birbhum
Pashchim Barddhaman
Purba Barddhaman
Nadia
Purulia
Bankura
Hooghly
North 24 Paraganas
Pashchim Medinipur
Howrah
Kolkata
Jhargram
Purba Medinipur
South 24 Paraganas
0 20 40 80 120 160
Km
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WEST BENGAL
Water Level Fluctuation Map (Semi-Confined to Confined / Deeper Aquifers)
Decadal Mean (November 2013 - November 2022) - November 2023
Legend
State Boundary
District Boundary
Sunderban Forest Area
Decadal Water Level Fluctuation (m)
Rise
Fall
0 - 2
2 - 4
>4
0 - 2
2 - 4
>4
Kalimpong
Darjeeling
Jalpaiguri
Alipurduar
Coochbihar
Uttar Dinajpur
Dakshin Dinajpur
Murshidabad
Birbhum
Pashchim Barddhaman
Purba Barddhaman
Nadia
Purulia
Bankura
North 24 Paraganas
Jhargram
Purba Medinipur
0 20 40 80 120 160
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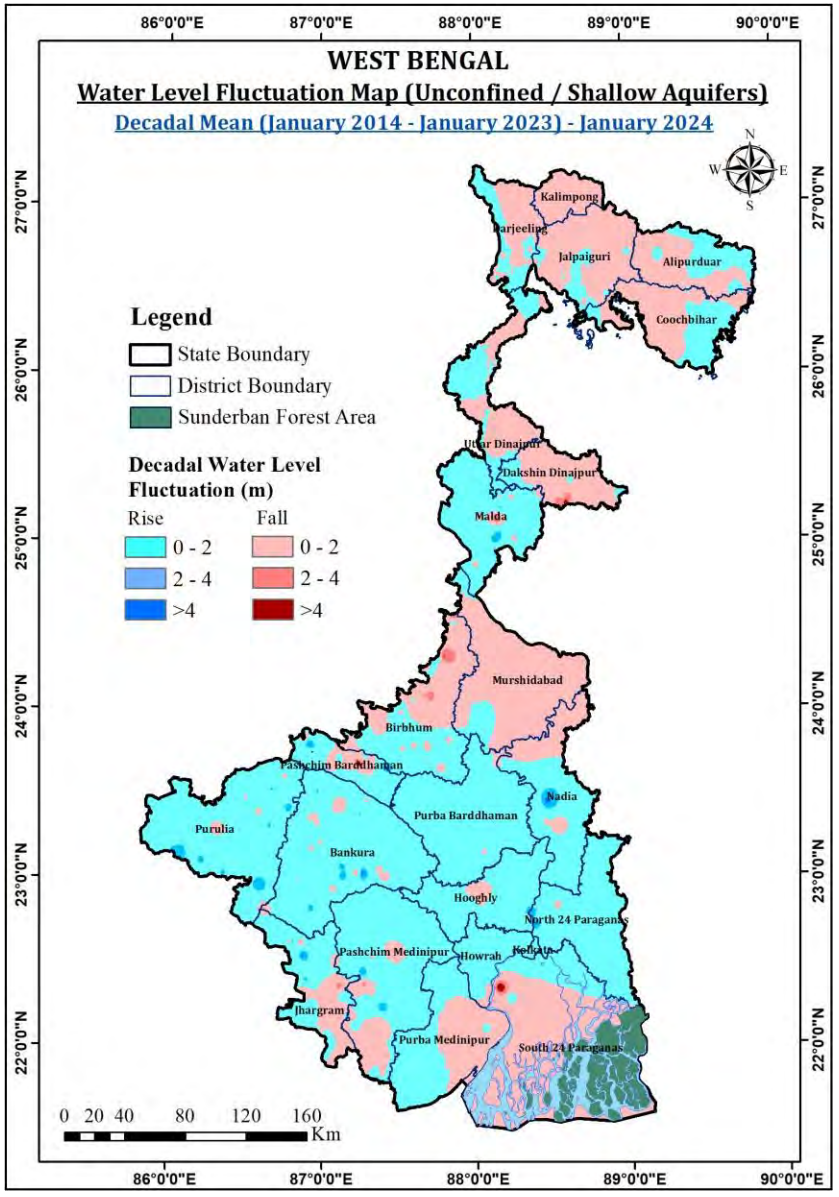
PLATE-XI


WEST BENGAL
Water Level Fluctuation Map (Unconfined / Shallow Aquifers)
Decadal Mean (January 2014 - January 2023) - January 2024
Legend
State Boundary
District Boundary
Sunderban Forest Area
Decadal Water Level Fluctuation (m)
Rise
Fall
0 - 2
2 - 4
>4
Kalimpong
Darjeeling
Jalpaiguri
Alipurduar
Coochbihar
Uttar Dinajpur
Dakshin Dinajpur
Malda
Murshidabad
Birbhum
Pashchim Barddhaman
Purba Barddhaman
Nadia
Purulia
Bankura
Hooghly
North 24 Paraganas
Pashchim Medinipur
Howrah
Kolkata
Jhargram
Purba Medinipur
South 24 Paraganas
0 20 40 80 120 160
Km
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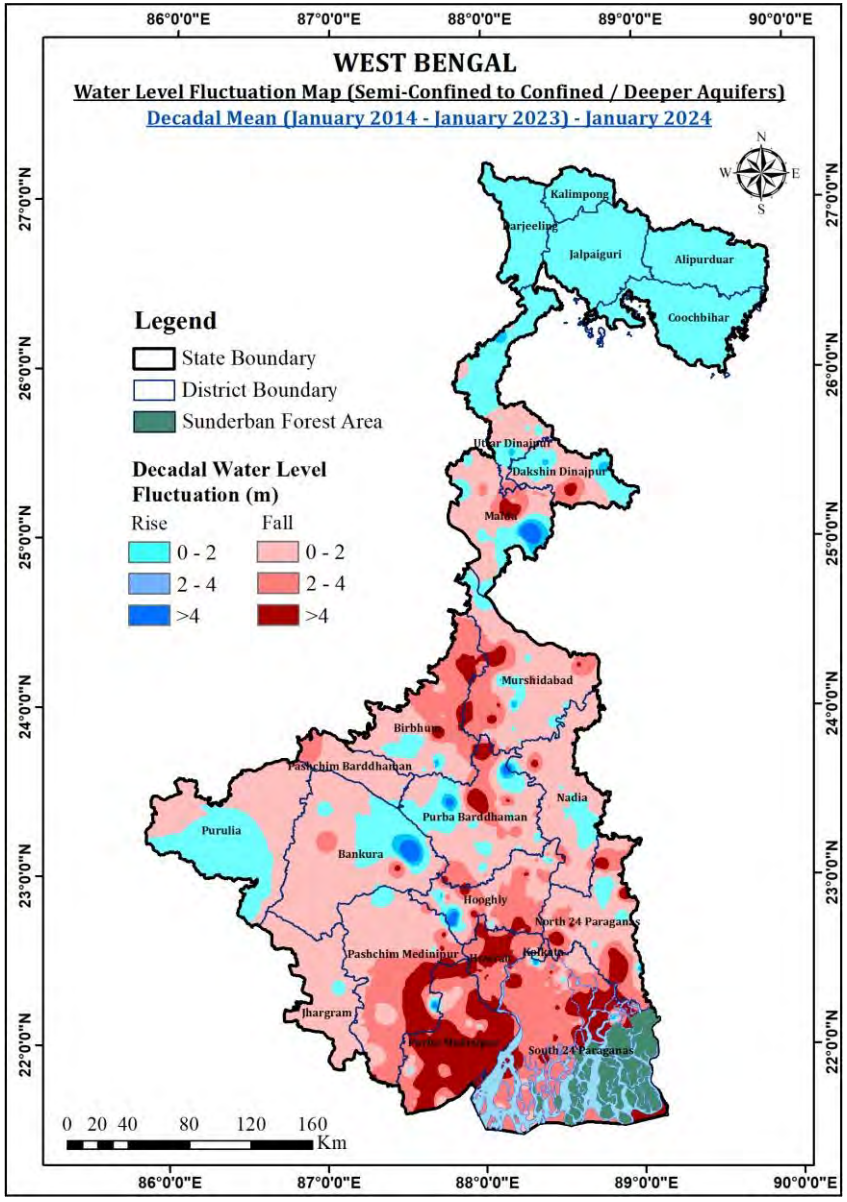
WEST BENGAL
Water Level Fluctuation Map (Semi-Confined to Confined / Deeper Aquifers)
Decadal Mean (January 2014 - January 2023) - January 2024
Legend
State Boundary
District Boundary
Sunderban Forest Area
Decadal Water Level Fluctuation (m)
Rise
Fall
0 - 2
2 - 4
>4
Kalimpong
Darjeeling
Jalpaiguri
Alipurduar
Coochbihar
Uttar Dinajpur
Dakshin Dinajpur
Malda
Murshidabad
Birbhum
Pashchim Barddhaman
Purba Barddhaman
Nadia
Purulia
Bankura
Hooghly
North 24 Paraganas
Pashchim Medinipur
Howrah
Kolkata
Jhargram
Purba Medinipur
South 24 Paraganas
0 20 40 80 120 160
Km
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Annexure-I

District-Wise Number of GWMW Monitored for the State of West Bengal for 2023-24

Name of the District	No. of GWMW monitored during April 2023				No. of GWMW monitored during August 2023				No. of GWMW monitored during November 2023				No. of GWMW monitored during January 2024			
	DW	PZ	TW	Total	DW	PZ	TW	Total	DW	PZ	TW	Total	DW	PZ	TW	Total
Bankura	102	4	48	154	104	2	47	153	102	2	44	148	102	2	46	150
Barddhaman(E&W)	74	25	37	136	78	36	51	165	76	32	56	164	77	31	56	164
Birbhum	87	20	30	137	100	13	27	140	95	12	27	134	102	14	28	144
Dakshin Dinajpur	10	6	20	36	11	3	28	42	11	3	33	47	11	3	32	46
Darjeeling	39	0	4	43	42	0	3	45	41	0	3	44	41	0	5	46
Haora	21	3	11	35	22	0	16	38	22	1	15	38	22	0	16	38
Hugli	38	36	16	90	29	3	75	107	28	13	67	108	29	5	75	109
Jalpaiguri+Alipurduar	71	0	5	76	77	0	1	78	77	0	3	80	77	0	4	81
Cooch Bihar	32	0	4	36	36	0	3	39	36	0	4	40	35	0	4	39
Maldah	27	10	25	62	29	4	28	61	32	4	40	76	32	5	40	77
Murshidabad	18	40	50	108	22	12	78	112	19	12	85	116	19	12	85	116
Nadia	12	28	66	106	14	34	78	126	11	33	74	118	12	34	69	115
North 24 Parganas	6	18	76	100	6	19	81	106	6	12	79	97	6	12	63	81
Paschim Medinipur+Jhargram	62	6	32	100	68	7	31	106	67	7	33	107	67	6	34	107
Purba Medinipur	3	11	28	42	3	14	32	49	3	14	32	49	3	12	34	49
Purulia	97	0	0	97	94	0	0	94	96	0	0	96	95	0	0	95
South 24 Parganas	9	9	85	103	11	12	106	129	9	6	110	125	8	5	103	116
Uttar Dinajpur	6	6	17	29	6	1	28	35	7	3	36	46	7	3	44	54
Total	721	223	560	**1490**	754	160	713	**1625**	741	154	741	**1633**	746	144	738	**1627**

Annexure-II

District-wise Well Frequency for Different Ranges of Depth to Water Level Month / Year: Apr-2023

Annexure-District	No.of Wells analysed	Depth to Water level (mbgl)		No. / Percentage of Wells Showing Depth to Water Table (mbgl) in the Range of									
		Min	Max	0-2	%	02-05	%	05-10	%	10-20	%	20-40	%
Murshidabad	108	3.47	32.15	0	0	2	1.9	57	52.8	13	12	36	33.3
Bankura	154	0.87	26.33	6	3.9	45	29.2	70	45.5	31	20.1	2	1.3
Birbhum	137	0.74	33.02	6	4.4	31	22.6	55	40.1	35	25.5	10	7.3
Dakshin Dinajpur	36	2.75	24.57	0	0	7	19.4	16	44.4	10	27.8	3	8.3
Darjeeling	43	0.95	34.55	2	4.7	23	53.5	15	34.9	1	2.3	2	4.7
Haora	35	0.43	21.87	9	25.7	11	31.4	6	17.1	5	14.3	4	11.4
Hugli	90	0.6	21.35	10	11.1	18	20	6	6.7	52	57.8	4	4.4
Jalpaiguri	54	0.87	25.3	2	3.7	36	66.7	14	25.9	1	1.9	1	1.9
Jhargram	27	1.44	19.71	2	7.4	6	22.2	9	33.3	10	37	0	0
Alipurduar	22	1.76	7.53	1	4.5	19	86.4	2	9.1	0	0	0	0
Maldah	62	1.73	34.42	1	1.6	11	17.7	24	38.7	18	29	8	12.9
Uttar Dinajpur	29	3.17	11.84	0	0	12	41.4	15	51.7	2	6.9	0	0
Nadia	106	1.7	14.46	2	1.9	19	17.9	83	78.3	2	1.9	0	0
N-24 Parganas	100	0.96	15.3	7	7	17	17	51	51	25	25	0	0
Paschim Barddhaman	62	0.74	17.5	14	22.6	28	45.2	14	22.6	6	9.7	0	0
Paschim Medinipur	73	0.57	26.95	6	8.2	14	19.2	14	19.2	19	26	20	27.4
Purba Barddhaman	74	0.06	29.18	4	5.4	9	12.2	26	35.1	24	32.4	11	14.9
Purba Medinipur	42	0.66	27.37	3	7.1	0	0	1	2.4	14	33.3	24	57.1
Purulia	97	2.81	12.38	0	0	21	21.6	72	74.2	4	4.1	0	0
South Twentyfour	103	1.11	25.81	6	5.8	12	11.7	33	32	49	47.6	3	2.9
Cooch Bihar	36	1.25	5.76	1	2.8	31	86.1	4	11.1	0	0	0	0
Total	**1490**			**82**	**5.5**	**372**	**25**	**587**	**39.4**	**321**	**21.5**	**128**	**8.6**

Annexure-III

District-wise Well Frequency for Different Ranges of Depth to Water Level Month / Year: Aug-2023

District	No.of Wells analysed	Depth to Water level (mbgl)		No. / Percentage of Wells Showing Depth to Water Table (mbgl) in the Range of									
		Min	Max	0-2	%	02-05	%	05-10	%	10-20	%	20-40	%
Murshidabad	112	0.37	31.6	7	6.3	29	25.9	29	25.9	12	10.7	35	31.3
Bankura	153	0.03	17.62	52	34	57	37.3	33	21.6	11	7.2	0	0
Birbhum	140	-0.09	25.57	40	28.6	42	30	30	21.4	18	12.9	10	7.1
Dakshin Dinajpur	43	0.21	28.48	4	9.3	12	27.9	20	46.5	6	14	1	2.3
Darjeeling	45	0.36	22.36	28	62.2	15	33.3	0	0	1	2.2	1	2.2
Haora	38	0.1	27.65	19	50	3	7.9	1	2.6	10	26.3	5	13.2
Hugli	106	0.15	22.3	18	17	11	10.4	8	7.5	67	63.2	2	1.9
Jalpaiguri	56	0.18	13.7	41	73.2	13	23.2	1	1.8	1	1.8	0	0
Jhargram	32	0.02	10.76	14	43.8	6	18.8	10	31.3	2	6.3	0	0
Alipurduar	24	0.31	4.46	9	37.5	15	62.5	0	0	0	0	0	0
Maldah	58	0.18	26.1	10	17.2	21	36.2	15	25.9	10	17.2	2	3.4
Uttar Dinajpur	35	1.51	11.96	2	5.7	17	48.6	15	42.9	1	2.9	0	0
Nadia	126	1.43	9.42	1	0.8	48	38.1	77	61.1	0	0	0	0
N-24 Parganas	106	-0.4	25.75	13	12.3	45	42.5	30	28.3	17	16	1	0.9
Paschim Barddhaman	63	0.15	13.8	38	60.3	18	28.6	4	6.3	3	4.8	0	0
Paschim Medinipur	75	0.13	17.73	31	41.3	6	8	8	10.7	30	40	0	0
Purba Barddhaman	102	0.43	27.61	7	6.9	10	9.8	26	25.5	41	40.2	18	17.6
Purba Medinipur	49	0.37	21.3	3	6.1	1	2	10	20.4	32	65.3	3	6.1
Purulia	94	-0.05	5.92	58	61.7	31	33	5	5.3	0	0	0	0
South Twentyfour	129	1.07	25.3	10	7.8	6	4.7	35	27.1	77	59.7	1	0.8
Cooch Bihar	39	0.55	10.4	33	84.6	5	12.8	0	0	1	2.6	0	0
Total	**1625**			**438**	**27**	**411**	**25.3**	**357**	**22**	**340**	**20.9**	**79**	**4.9**

Annexure-IV

District-wise Well Frequency for Different Ranges of Depth to Water Level Month / Year: Nov-2023

District	No.of Wells analysed	Depth to Water level (mbgl)		No. / Percentage of Wells Showing Depth to Water Table (mbgl) in the Range of									
		Min	Max	0-2	%	02-05	%	05-10	%	10-20	%	20-40	%
Murshidabad	116	1.38	32.35	2	1.7	27	23.3	40	34.5	12	10.3	35	30.2
Bankura	148	0.69	17.85	32	21.6	73	49.3	33	22.3	10	6.8	0	0
Birbhum	134	0.31	27.87	22	16.4	55	41	30	22.4	19	14.2	8	6
Dakshin Dinajpur	46	1.12	21.92	3	6.5	26	56.5	12	26.1	4	8.7	1	2.2
Darjeeling	45	0.92	31.45	8	17.8	31	68.9	4	8.9	1	2.2	1	2.2
Haora	38	0.2	20.5	20	52.6	2	5.3	1	2.6	13	34.2	2	5.3
Hugli	109	0.4	24.15	18	16.5	11	10.1	3	2.8	74	67.9	3	2.8
Jalpaiguri	56	1.06	18.75	16	28.6	34	60.7	5	8.9	1	1.8	0	0
Jhargram	32	0.83	14.37	5	15.6	13	40.6	11	34.4	3	9.4	0	0
Alipurduar	24	1.54	5.08	2	8.3	21	87.5	1	4.2	0	0	0	0
Maldah	76	0.58	23.99	10	13.2	42	55.3	12	15.8	10	13.2	2	2.6
Uttar Dinajpur	46	1.78	9.38	1	2.2	36	78.3	9	19.6	0	0	0	0
Nadia	118	2.11	13.5	0	0	51	43.2	65	55.1	2	1.7	0	0
North Twentyfour	98	0.56	16.14	4	4.1	42	42.9	36	36.7	16	16.3	0	0
Paschim Barddhaman	62	0.07	16.23	29	46.8	25	40.3	5	8.1	3	4.8	0	0
Paschim Medinipur	74	0.29	17.49	14	18.9	19	25.7	15	20.3	26	35.1	0	0
Purba Barddhaman	102	-0.44	30.92	11	10.8	11	10.8	28	27.5	32	31.4	20	19.6
Purba Medinipur	49	0.27	20.65	2	4.1	2	4.1	6	12.2	38	77.6	1	2
Purulia	96	0.84	5.81	17	17.7	73	76	6	6.3	0	0	0	0
South Twenty four	125	0.2	20.05	8	6.4	18	14.4	33	26.4	65	52	1	0.8
Cooch Bihar	39	1.05	3.84	15	38.5	24	61.5	0	0	0	0	0	0
Total	**1633**			**239**	**14.6**	**636**	**38.9**	**355**	**21.7**	**329**	**20.1**	**74**	**4.5**

Annexure-V

District-wise Well Frequency for Different Ranges of Depth to Water Level Month / Year: Jan – 2024

District	No.of Wells analysed	Depth to Water level (mbgl)		No. / Percentage of Wells Showing Depth to Water Table (mbgl) in the Range of									
		Min	Max	0-2	%	02-05	%	05-10	%	10-20	%	20-40	%
Murshidabad	115	2.04	32.9	0	0	23	20	44	38.3	12	10.4	36	31.3
Bankura	150	0.43	17.92	18	12	69	46	55	36.7	8	5.3	0	0
Birbhum	144	0.43	29.62	12	8.3	51	35.4	49	34	20	13.9	12	8.3
Dakshin Dinajpur	46	1.59	18.83	2	4.3	20	43.5	18	39.1	6	13	0	0
Darjeeling	46	0.94	31.5	5	10.9	27	58.7	12	26.1	0	0	2	4.3
Haora	38	0.2	26.05	20	52.6	2	5.3	1	2.6	14	36.8	1	2.6
Hugli	109	0.3	24.13	19	17.4	10	9.2	4	3.7	73	67	3	2.8
Jalpaiguri	57	1.63	21.7	2	3.5	42	73.7	10	17.5	2	3.5	1	1.8
Jhargram	32	0.95	14.19	3	9.4	11	34.4	12	37.5	6	18.8	0	0
Alipurduar	25	1.74	6.74	1	4	21	84	3	12	0	0	0	0
Maldah	77	0.44	24.48	4	5.2	39	50.6	21	27.3	11	14.3	2	2.6
Uttar Dinajpur	54	1.09	12.58	2	3.7	42	77.8	9	16.7	1	1.9	0	0
Nadia	115	2.08	14.24	0	0	47	40.9	67	58.3	1	0.9	0	0
North Twentyfour	81	0.54	22.2	7	8.6	22	27.2	28	34.6	23	28.4	1	1.2
Paschim Barddhaman	63	0.18	14.92	25	39.7	28	44.4	7	11.1	3	4.8	0	0
Paschim Medinipur	74	0.65	26.3	9	12.2	17	23	14	18.9	27	36.5	7	9.5
Purba Barddhaman	101	0.66	31.86	9	8.9	9	8.9	34	33.7	28	27.7	21	20.8
Purba Medinipur	49	0.34	26.05	3	6.1	1	2	4	8.2	28	57.1	13	26.5
Purulia	95	1.35	7.41	6	6.3	74	77.9	15	15.8	0	0	0	0
South Twenty four	116	0.2	21.9	6	5.2	5	4.3	24	20.7	75	64.7	6	5.2
Cooch Bihar	40	1.22	5.81	5	12.5	34	85	1	2.5	0	0	0	0
Total	**1627**			**158**	**9.7**	**594**	**36.5**	**432**	**26.6**	**338**	**20.8**	**105**	**6.5**

Annexure-VI

District-wise Categorization of Water Level Fluctuation (Apr-22 to Apr-23)

District	Number of Stations Analysed	Fall						Rise					
		0 - 2 (m)	%	2 - 4 (m)	%	> 4 (m)	%	0 - 2 (m)	%	2 - 4 (m)	%	> 4 (m)	%
Alipurduar	19	18	94.7	0	0	0	0	1	5.3	0	0	0	0
Bankura	95	50	52.6	12	12.6	8	8.4	16	16.8	6	6.3	3	3.2
Birbhum	101	49	48.5	21	20.8	13	12.9	10	9.9	1	1	7	6.9
Dakshin Dinajpur	31	20	64.5	2	6.5	6	19.4	2	6.5	1	3.2	0	0
Darjeeling	41	25	61	0	0	1	2.4	15	36.6	0	0	0	0
Haora	31	14	45.2	5	16.1	2	6.5	6	19.4	1	3.2	3	9.7
Hugli	55	24	43.6	2	3.6	3	5.5	18	32.7	7	12.7	1	1.8
Jalpaiguri	42	33	78.6	1	2.4	0	0	8	19	0	0	0	0
Jhargram	18	6	33.3	1	5.6	6	33.3	5	27.8	0	0	0	0
Cooch Bihar	30	22	73.3	5	16.7	0	0	3	10	0	0	0	0
Maldah	46	23	50	6	13	11	23.9	5	10.9	0	0	1	2.2
Murshidabad	67	36	53.7	19	28.4	4	6	6	9	1	1.5	1	1.5
Nadia	68	46	67.6	9	13.2	1	1.5	12	17.6	0	0	0	0
North Twentyfour	70	34	48.6	12	17.1	6	8.6	14	20	3	4.3	1	1.4
Paschim Barddhaman	57	31	54.4	5	8.8	3	5.3	15	26.3	1	1.8	2	3.5
Paschim Medinipur	62	13	21	3	4.8	27	43.5	12	19.4	4	6.5	3	4.8
Purba Barddhaman	56	40	71.4	2	3.6	0	0	10	17.9	3	5.4	1	1.8
Purba Medinipur	28	4	14.3	4	14.3	17	60.7	1	3.6	1	3.6	1	3.6
Purulia	91	50	54.9	21	23.1	8	8.8	10	11	2	2.2	0	0
South Twentyfour	96	23	24	11	11.5	11	11.5	25	26	11	11.5	15	15.6
Uttar Dinajpur	23	18	78.3	2	8.7	0	0	3	13	0	0	0	0
Total	1127	579	51.4	143	12.7	127	11.3	197	17.5	42	3.7	39	3.5

Annexure-VII

District-wise Categorisation of Water Level Fluctuation (Aug-22 to Aug-23)

District	Number of Stations Analysed	Fall						Rise					
		0 - 2 (m)	%	2 - 4 (m)	%	> 4 (m)	%	0 - 2 (m)	%	2 - 4 (m)	%	> 4 (m)	%
Alipurduar	23	15	65.2	0	0	0	0	8	34.8	0	0	0	0
Bankura	102	51	50	9	8.8	4	3.9	32	31.4	4	3.9	2	2
Birbhum	117	36	30.8	3	2.6	3	2.6	42	35.9	21	17.9	12	10.3
Dakshin Dinajpur	31	16	51.6	4	12.9	4	12.9	7	22.6	0	0	0	0
Darjeeling	43	3	7	0	0	0	0	38	88.4	1	2.3	1	2.3
Haora	36	21	58.3	3	8.3	4	11.1	7	19.4	0	0	1	2.8
Hugli	80	38	47.5	15	18.8	3	3.8	19	23.8	3	3.8	2	2.5
Jalpaiguri	52	30	57.7	0	0	0	0	21	40.4	1	1.9	0	0
Jhargram	31	9	29	1	3.2	5	16.1	11	35.5	3	9.7	2	6.5
Cooch Bihar	34	22	64.7	0	0	1	2.9	11	32.4	0	0	0	0
Maldah	44	9	20.5	5	11.4	4	9.1	21	47.7	4	9.1	1	2.3
Murshidabad	68	30	44.1	5	7.4	1	1.5	24	35.3	7	10.3	1	1.5
Nadia	101	57	56.4	11	10.9	3	3	27	26.7	3	3	0	0
North Twentyfour	102	40	39.2	11	10.8	8	7.8	33	32.4	4	3.9	6	5.9
Paschim Barddhaman	59	33	55.9	2	3.4	3	5.1	18	30.5	1	1.7	2	3.4
Paschim Medinipur	74	26	35.1	10	13.5	5	6.8	25	33.8	5	6.8	3	4.1
Purba Barddhaman	72	27	37.5	9	12.5	9	12.5	16	22.2	4	5.6	7	9.7
Purba Medinipur	43	9	20.9	8	18.6	3	7	11	25.6	3	7	9	20.9
Purulia	92	24	26.1	1	1.1	0	0	39	42.4	20	21.7	8	8.7
South Twentyfour	103	43	41.7	25	24.3	15	14.6	15	14.6	3	2.9	2	1.9
Uttar Dinajpur	25	17	68	3	12	1	4	4	16	0	0	0	0
Total	1332	556	41.7	125	9.4	76	5.7	429	32.2	87	6.5	59	4.4

Annexure-VIII

District-wise Categorisation of Water Level Fluctuation (Nov-22 to Nov-23)

District	Number of Stations	Fall						Rise					
		0 - 2 (m)	%	2 - 4 (m)	%	> 4 (m)	%	0 - 2 (m)	%	2 - 4 (m)	%	> 4 (m)	%
Alipurduar	23	8	34.8	0	0	0	0	14	60.9	0	0	1	4.3
Bankura	102	28	27.5	3	2.9	2	2	59	57.8	7	6.9	3	2.9
Birbhum	109	12	11	1	0.9	4	3.7	75	68.8	9	8.3	8	7.3
Dakshin Dinajpur	35	8	22.9	0	0	0	0	21	60	5	14.3	1	2.9
Darjeeling	41	30	73.2	0	0	0	0	10	24.4	1	2.4	0	0
Haora	35	10	28.6	8	22.9	1	2.9	16	45.7	0	0	0	0
Hugli	80	29	36.3	17	21.3	11	13.8	22	27.5	1	1.3	0	0
Jalpaiguri	52	41	78.8	2	3.8	0	0	9	17.3	0	0	0	0
Jhargram	31	4	12.9	6	19.4	4	12.9	14	45.2	0	0	3	9.7
Cooch Bihar	33	20	60.6	0	0	0	0	12	36.4	1	3	0	0
Maldah	59	12	20.3	2	3.4	0	0	39	66.1	5	8.5	1	1.7
Murshidabad	92	49	53.3	10	10.9	2	2.2	25	27.2	6	6.5	0	0
Nadia	98	49	50	1	1	3	3.1	42	42.9	3	3.1	0	0
North Twentyfour	95	31	32.6	5	5.3	6	6.3	42	44.2	4	4.2	7	7.4
Paschim Barddhaman	59	17	28.8	3	5.1	1	1.7	36	61	2	3.4	0	0
Paschim Medinipur	73	28	38.4	10	13.7	7	9.6	20	27.4	6	8.2	2	2.7
Purba Barddhaman	78	24	30.8	6	7.7	6	7.7	36	46.2	4	5.1	2	2.6
Purba Medinipur	44	12	27.3	17	38.6	7	15.9	3	6.8	5	11.4	0	0
Purulia	93	11	11.8	2	2.2	0	0	63	67.7	15	16.1	2	2.2
South Twentyfour	104	37	35.6	19	18.3	14	13.5	20	19.2	6	5.8	8	7.7
Uttar Dinajpur	28	14	50	0	0	1	3.6	13	46.4	0	0	0	0
Total	1364	474	34.8	112	8.2	69	5.1	591	43.3	80	5.9	38	2.8

Annexure-IX

District-wise Categorisation of Water Level Fluctuation (Jan-23 to Jan-24)

District	Number of Stations	Fall						Rise					
		0 - 2 (m)	%	2 - 4 (m)	%	> 4 (m)	%	0 - 2 (m)	%	2 - 4 (m)	%	> 4 (m)	%
Alipurduar	24	19	79.2	0	0	0	0	4	16.7	1	4.2	0	0
Bankura	105	29	27.6	7	6.7	2	1.9	60	57.1	4	3.8	3	2.9
Birbhum	115	21	18.3	5	4.3	2	1.7	67	58.3	15	13	5	4.3
Dakshin Dinajpur	38	5	13.2	2	5.3	0	0	26	68.4	4	10.5	1	2.6
Darjeeling	46	16	34.8	5	10.9	3	6.5	17	37	4	8.7	1	2.2
Haora	32	11	34.4	2	6.3	2	6.3	15	46.9	1	3.1	1	3.1
Hugli	71	19	26.8	9	12.7	7	9.9	29	40.8	4	5.6	3	4.2
Jalpaiguri	55	30	54.5	6	10.9	6	10.9	12	21.8	0	0	1	1.8
Jhargram	32	12	37.5	1	3.1	0	0	12	37.5	4	12.5	3	9.4
Cooch Bihar	37	18	48.6	2	5.4	0	0	17	45.9	0	0	0	0
Maldah	65	15	23.1	2	3.1	1	1.5	36	55.4	7	10.8	4	6.2
Murshidabad	93	42	45.2	10	10.8	2	2.2	34	36.6	3	3.2	2	2.2
Nadia	102	23	22.5	1	1	1	1	74	72.5	2	2	1	1
North Twentyfour	75	15	20	4	5.3	5	6.7	39	52	6	8	6	8
Paschim Barddhaman	61	16	26.2	1	1.6	4	6.6	38	62.3	1	1.6	1	1.6
Paschim Medinipur	73	16	21.9	9	12.3	12	16.4	27	37	6	8.2	3	4.1
Purba Barddhaman	86	22	25.6	3	3.5	3	3.5	47	54.7	7	8.1	4	4.7
Purba Medinipur	43	10	23.3	10	23.3	7	16.3	13	30.2	3	7	0	0
Purulia	92	19	20.7	1	1.1	1	1.1	66	71.7	4	4.3	1	1.1
South Twentyfour	104	25	24	4	3.8	2	1.9	58	55.8	8	7.7	7	6.7
Uttar Dinajpur	33	9	27.3	2	6.1	0	0	17	51.5	5	15.2	0	0
Total	1382	392	28.4	86	6.2	60	4.3	708	51.2	89	6.4	47	3.4

Annexure-X

District-wise Categorisation of Water Level Fluctuation (Apr-2023 to Aug-2023)

District	Number of Stations Analysed	Fall						Rise					
		0 - 2 (m)	%	2 - 4 (m)	%	> 4 (m)	%	0 - 2 (m)	%	2 - 4 (m)	%	> 4 (m)	%
Alipurduar	21	0	0	0	0	0	0	16	76.2	4	19	1	4.8
Bankura	150	5	3.3	5	3.3	2	1.3	38	25.3	56	37.3	44	29.3
Birbhum	118	7	5.9	6	5.1	2	1.7	34	28.8	36	30.5	33	28
Dakshin Dinajpur	36	2	5.6	0	0	0	0	12	33.3	11	30.6	11	30.6
Darjeeling	43	0	0	0	0	0	0	16	37.2	17	39.5	10	23.3
Haora	33	3	9.1	0	0	6	18.2	17	51.5	4	12.1	3	9.1
Hugli	88	16	18.2	7	8	8	9.1	32	36.4	18	20.5	7	8
Jalpaiguri	53	0	0	0	0	0	0	16	30.2	22	41.5	15	28.3
Jhargram	27	2	7.4	1	3.7	0	0	2	7.4	8	29.6	14	51.9
Cooch Bihar	35	0	0	0	0	0	0	13	37.1	22	62.9	0	0
Maldah	50	3	6	1	2	1	2	15	30	7	14	23	46
Murshidabad	93	9	9.7	4	4.3	1	1.1	35	37.6	31	33.3	13	14
Nadia	104	21	20.2	4	3.8	0	0	66	63.5	10	9.6	3	2.9
North Twentyfour	93	15	16.1	4	4.3	4	4.3	41	44.1	20	21.5	9	9.7
Paschim Barddhaman	62	4	6.5	1	1.6	0	0	32	51.6	14	22.6	11	17.7
Paschim Medinipur	71	2	2.8	2	2.8	2	2.8	11	15.5	11	15.5	43	60.6
Purba Barddhaman	72	21	29.2	4	5.6	8	11.1	14	19.4	10	13.9	15	20.8
Purba Medinipur	40	0	0	1	2.5	1	2.5	4	10	2	5	32	80
Purulia	91	0	0	0	0	0	0	5	5.5	36	39.6	50	54.9
South Twentyfour	100	27	27	16	16	13	13	26	26	6	6	12	12
Uttar Dinajpur	27	2	7.4	0	0	1	3.7	16	59.3	6	22.2	2	7.4
Total	1407	139	9.9	56	4	49	3.5	461	32.8	351	24.9	351	24.9

Annexure-XI

District-wise Categorisation of Water Level Fluctuation (Apr-23 to Nov-23)

District	Number of Stations Analysed	Fall						Rise					
		0 - 2 (m)	%	2 - 4 (m)	%	> 4 (m)	%	0 - 2 (m)	%	2 - 4 (m)	%	> 4 (m)	%
Alipurduar	21	2	9.5	0	0	0	0	18	85.7	1	4.8	0	0
Bankura	144	4	2.8	0	0	3	2.1	44	30.6	62	43.1	31	21.5
Birbhum	113	11	9.7	1	0.9	4	3.5	30	26.5	44	38.9	23	20.4
Dakshin Dinajpur	35	1	2.9	0	0	0	0	7	20	9	25.7	18	51.4
Darjeeling	42	0	0	0	0	0	0	29	69	9	21.4	4	9.5
Haora	33	5	15.2	0	0	5	15.2	17	51.5	5	15.2	1	3
Hugli	90	20	22.2	9	10	7	7.8	37	41.1	11	12.2	6	6.7
Jalpaiguri	53	3	5.7	0	0	0	0	35	66	14	26.4	1	1.9
Jhargram	27	3	11.1	0	0	1	3.7	5	18.5	8	29.6	10	37
Cooch Bihar	35	0	0	0	0	0	0	31	88.6	4	11.4	0	0
Maldah	61	3	4.9	0	0	0	0	18	29.5	10	16.4	30	49.2
Murshidabad	95	8	8.4	5	5.3	1	1.1	50	52.6	23	24.2	8	8.4
Nadia	100	4	4	1	1	1	1	88	88	4	4	2	2
North Twentyfour	89	15	16.9	1	1.1	4	4.5	40	44.9	22	24.7	7	7.9
Paschim Barddhaman	62	5	8.1	4	6.5	0	0	36	58.1	8	12.9	9	14.5
Paschim Medinipur	71	6	8.5	1	1.4	3	4.2	14	19.7	7	9.9	40	56.3
Purba Barddhaman	69	12	17.4	2	2.9	4	5.8	27	39.1	12	17.4	12	17.4
Purba Medinipur	40	2	5	0	0	1	2.5	3	7.5	5	12.5	29	72.5
Purulia	93	0	0	0	0	0	0	9	9.7	56	60.2	28	30.1
South Twentyfour	94	21	22.3	8	8.5	8	8.5	28	29.8	16	17	13	13.8
Uttar Dinajpur	28	1	3.6	0	0	0	0	15	53.6	8	28.6	4	14.3
Total	1395	126	9	32	2.3	42	3	581	41.6	338	24.2	276	19.8

Annexure-XII

District-wise Categorization of Water Level Fluctuation (Apr-2023 to Jan-2024)

District	Number of Stations Analysed	Fall						Rise					
		0 - 2 (m)	%	2 - 4 (m)	%	> 4 (m)	%	0 - 2 (m)	%	2 - 4 (m)	%	> 4 (m)	%
Alipurduar	22	10	45.5	0	0	0	0	12	54.5	0	0	0	0
Bankura	146	11	7.5	2	1.4	2	1.4	56	38.4	56	38.4	19	13
Birbhum	118	11	9.3	3	2.5	6	5.1	56	47.5	25	21.2	17	14.4
Dakshin Dinajpur	34	1	2.9	0	0	0	0	12	35.3	7	20.6	14	41.2
Darjeeling	43	6	14	0	0	0	0	31	72.1	5	11.6	1	2.3
Haora	33	6	18.2	0	0	5	15.2	15	45.5	5	15.2	2	6.1
Hugli	90	19	21.1	7	7.8	7	7.8	39	43.3	13	14.4	5	5.6
Jalpaiguri	54	21	38.9	0	0	0	0	29	53.7	4	7.4	0	0
Jhargram	27	5	18.5	0	0	1	3.7	9	33.3	3	11.1	9	33.3
Cooch Bihar	35	2	5.7	0	0	0	0	32	91.4	1	2.9	0	0
Maldah	58	4	6.9	0	0	0	0	19	32.8	10	17.2	25	43.1
Murshidabad	94	10	10.6	4	4.3	2	2.1	50	53.2	21	22.3	7	7.4
Nadia	96	10	10.4	2	2.1	1	1	77	80.2	4	4.2	2	2.1
North Twentyfour	76	9	11.8	5	6.6	8	10.5	36	47.4	12	15.8	6	7.9
Paschim Barddhaman	62	7	11.3	3	4.8	1	1.6	33	53.2	12	19.4	6	9.7
Paschim Medinipur	69	10	14.5	4	5.8	4	5.8	16	23.2	8	11.6	27	39.1
Purba Barddhaman	69	12	17.4	1	1.4	3	4.3	35	50.7	12	17.4	6	8.7
Purba Medinipur	40	0	0	3	7.5	4	10	9	22.5	6	15	18	45
Purulia	93	3	3.2	0	0	0	0	25	26.9	43	46.2	22	23.7
South Twentyfour	95	22	23.2	15	15.8	18	18.9	25	26.3	9	9.5	6	6.3
Uttar Dinajpur	29	4	13.8	1	3.4	0	0	14	48.3	5	17.2	5	17.2
Total	1383	183	13.2	50	3.6	62	4.5	630	45.6	261	18.9	197	14.2

Annexure-XIII

District-wise Categorisation of Change in Water Level 10 Yrs Mean (Apr-13-Apr-22)-Apr-23

District	No. of Wells	Range of Fluctuation (m)				No. of Wells/Percentage Showing Fluctuation											
		Rise		Fall		Rise						Fall					
		Min	Max	Min	Max	0 -2	%	2-4	%	>4	%	0 - 2	%	2-4	%	>4	%
Alipurduar	19	0.18	0.22	0.11	1.62	2	10.5	0	0	0	0	17	89.5	0	0	0	0
Bankura	98	0.02	4.47	0.01	6.44	30	30.6	7	7.1	1	1	47	48	9	9.2	4	4.1
Birbhum	112	0.04	15.07	0.04	25.59	22	19.6	7	6.3	7	6.3	45	40.2	18	16.1	13	11.6
Dakshin Dinajpur	21	0.16	3.92	0.41	9.94	3	14.3	1	4.8	0	0	6	28.6	6	28.6	5	23.8
Darjeeling	37	0.01	1.64	0.01	2.89	11	29.7	0	0	0	0	25	67.6	1	2.7	0	0
Haora	29	0.09	2.7	0.08	16.69	7	24.1	1	3.4	0	0	14	48.3	1	3.4	6	20.7
Hugli	64	0.02	11.03	0.02	8.8	19	29.7	3	4.7	2	3.1	28	43.8	9	14.1	3	4.7
Jalpaiguri	40	0.42	0.71	0	5.4	3	7.5	0	0	0	0	34	85	2	5	1	2.5
Jhargram	23	0.03	7.53	0.64	11.32	7	30.4	2	8.7	1	4.3	5	21.7	1	4.3	7	30.4
Cooch Bihar	30	0.3	0.3	0.1	2.61	1	3.3	0	0	0	0	24	80	5	16.7	0	0
Maldah	34	0.34	2.39	0.08	18.23	9	26.5	2	5.9	0	0	7	20.6	7	20.6	9	26.5
Murshidabad	78	0.05	3.11	0.39	10.22	3	3.8	2	2.6	0	0	41	52.6	24	30.8	8	10.3
Nadia	77	0.04	1.33	0.14	3.38	23	29.9	0	0	0	0	50	64.9	4	5.2	0	0
North Twenty four	74	0.08	4.77	0.07	10.73	20	27	4	5.4	1	1.4	35	47.3	10	13.5	4	5.4
Paschim Barddhaman	61	0	7.17	0.01	8.01	23	37.7	4	6.6	1	1.6	26	42.6	4	6.6	3	4.9
Paschim Medinipur	65	0.3	7.59	0.16	12.59	9	13.8	3	4.6	6	9.2	13	20	6	9.2	28	43.1
Purba Barddhaman	62	0.01	11.68	0.06	7.03	13	21	3	4.8	2	3.2	25	40.3	12	19.4	7	11.3
Purba Medinipur	35	0.33	9.66	0.38	21.92	4	11.4	0	0	1	2.9	3	8.6	5	14.3	22	62.9
Purulia	96	0.01	3.19	0.01	5.42	30	31.3	3	3.1	0	0	53	55.2	9	9.4	1	1
South Twenty four	96	0.05	7.7	0.02	13	22	22.9	15	15.6	3	3.1	20	20.8	20	20.8	16	16.7
Uttar Dinajpur	20	0.02	0.11	0.41	2.72	5	25	0	0	0	0	13	65	2	10	0	0
Total	1171					266	22.7	57	4.9	25	2.1	531	45.3	155	13.2	137	11.7

Annexure-XIV

District-wise Categorisation of Change in Water Level 10 Yrs. Mean (Aug-13 to Aug-22)-Aug-23

District	No. of Wells	Range of Fluctuation (m)				No. of Wells/Percentage Showing Fluctuation											
		Rise		Fall		Rise						Fall					
		Min	Max	Min	Max	0 -2	%	2-4	%	>4	%	0 - 2	%	2-4	%	>4	%
Alipurduar	23	0	1.73	0.1	1.16	5	21.7	0	0	0	0	18	78.3	0	0	0	0
Bankura	99	0.02	7.78	0.04	7.29	31	31.3	1	1	1	1	54	54.5	7	7.1	5	5.1
Birbhum	118	0.01	22.15	0.01	12.27	32	27.1	6	5.1	2	1.7	42	35.6	24	20.3	12	10.2
Dakshin Dinajpur	35	0.02	0.84	0.05	24.89	5	14.3	0	0	0	0	16	45.7	4	11.4	10	28.6
Darjeeling	42	0.02	3.3	0	0.91	26	61.9	1	2.4	0	0	15	35.7	0	0	0	0
Haora	31	0.05	5.66	0.02	15.38	6	19.4	0	0	1	3.2	16	51.6	3	9.7	5	16.1
Hugli	78	0.01	5.88	0.01	12.73	17	21.8	4	5.1	1	1.3	25	32.1	17	21.8	14	17.9
Jalpaiguri	48	0.03	0.84	0.07	1.64	20	41.7	0	0	0	0	28	58.3	0	0	0	0
Jhargram	27	0.21	7.61	0.17	6.8	11	40.7	1	3.7	1	3.7	9	33.3	3	11.1	2	7.4
Cooch Bihar	29	0.03	0.47	0.03	1.28	9	31	0	0	0	0	20	69	0	0	0	0
Maldah	42	0.15	7.7	0.06	8.2	14	33.3	1	2.4	1	2.4	15	35.7	5	11.9	6	14.3
Murshidabad	78	0.02	3.93	0.02	7.8	13	16.7	1	1.3	0	0	39	50	11	14.1	14	17.9
Nadia	90	0.06	1.52	0.28	5.37	6	6.7	0	0	0	0	56	62.2	20	22.2	8	8.9
North Twentyfour	82	0.27	3.25	0.03	8.07	9	11	7	8.5	0	0	36	43.9	23	28	7	8.5
Paschim Barddhaman	62	0	1.68	0.06	8.85	26	41.9	0	0	0	0	31	50	4	6.5	1	1.6
Paschim Medinipur	67	0.02	3.92	0.08	7.73	30	44.8	2	3	0	0	16	23.9	11	16.4	8	11.9
Purba Barddhaman	83	0.01	12.76	0.01	11.47	8	9.6	7	8.4	8	9.6	26	31.3	19	22.9	15	18.1
Purba Medinipur	41	0.03	7.2	0.15	16.2	5	12.2	3	7.3	5	12.2	9	22	7	17.1	12	29.3
Purulia	93	0.04	2.08	0.01	2.37	58	62.4	1	1.1	0	0	31	33.3	3	3.2	0	0
South Twentyfour	120	0.12	7.97	0.05	11.15	5	4.2	3	2.5	3	2.5	27	22.5	34	28.3	48	40
Uttar Dinajpur	27	0.34	0.77	0.19	8.66	2	7.4	0	0	0	0	16	59.3	8	29.6	1	3.7
Total	1315					338	25.7	38	2.9	23	1.7	545	41.4	203	15.4	168	12.8

Annexure-XV

District-wise Categorisation of Change in Water Level10 Yrs Mean (Nov-13 to Nov-22) -Nov-23

District	No. of Wells	Range of Fluctuation (m)				No. of Wells/Percentage Showing Fluctuation											
		Rise		Fall		Rise						Fall					
		Min	Max	Min	Max	0 -2	%	2-4	%	>4	%	0 - 2	%	2-4	%	>4	%
Alipurduar	24	0.04	0.8	0.02	0.72	17	70.8	0	0	0	0	7	29.2	0	0	0	0
Bankura	97	0.02	4.71	0	4.78	57	58.8	1	1	1	1	31	32	6	6.2	1	1
Birbhum	113	0.01	2.49	0	6.94	61	54	1	0.9	0	0	36	31.9	13	11.5	2	1.8
Dakshin Dinajpur	38	0.01	6.9	0.11	18.21	13	34.2	2	5.3	1	2.6	15	39.5	4	10.5	3	7.9
Darjeeling	41	0.04	2.48	0.04	1.31	17	41.5	1	2.4	0	0	23	56.1	0	0	0	0
Haora	31	0.03	2.06	0.02	13.57	15	48.4	1	3.2	0	0	5	16.1	3	9.7	7	22.6
Hugli	82	0.02	5.44	0.18	14.11	18	22	1	1.2	1	1.2	18	22	13	15.9	31	37.8
Jalpaiguri	47	0.01	1.53	0.04	1.72	23	48.9	0	0	0	0	24	51.1	0	0	0	0
Jhargram	27	0.14	4.76	0.1	5.73	9	33.3	0	0	1	3.7	14	51.9	2	7.4	1	3.7
Cooch Bihar	29	0.01	0.83	0.01	1.05	15	51.7	0	0	0	0	14	48.3	0	0	0	0
Maldah	55	0	8.18	0.04	16.06	23	41.8	3	5.5	1	1.8	23	41.8	2	3.6	3	5.5
Murshidabad	84	0.06	10.07	0.09	11.35	14	16.7	0	0	2	2.4	34	40.5	14	16.7	20	23.8
Nadia	83	0.13	0.92	0.02	7.06	7	8.4	0	0	0	0	70	84.3	4	4.8	2	2.4
North Twentyfour	73	0.02	5.62	0.1	8.9	12	16.4	1	1.4	1	1.4	36	49.3	15	20.5	8	11
Paschim Barddhaman	61	0.03	2.98	0.02	11.65	25	41	3	4.9	0	0	26	42.6	5	8.2	2	3.3
Paschim Medinipur	67	0.04	4.59	0.02	8.26	15	22.4	1	1.5	1	1.5	27	40.3	13	19.4	10	14.9
Purba Barddhaman	78	0.13	9.43	0.03	8.82	16	20.5	1	1.3	2	2.6	33	42.3	16	20.5	10	12.8
Purba Medinipur	42	0.43	2.4	0.21	15.8	4	9.5	1	2.4	0	0	8	19	12	28.6	17	40.5
Purulia	95	0.01	2.92	0.02	1.24	69	72.6	3	3.2	0	0	23	24.2	0	0	0	0
South Twentyfour	114	0.01	6.22	0.13	7.72	9	7.9	4	3.5	1	0.9	36	31.6	30	26.3	34	29.8
Uttar Dinajpur	29	0.14	1.4	0.03	3.29	6	20.7	0	0	0	0	21	72.4	2	6.9	0	0
Total	1310					445	34	24	1.8	12	0.9	524	40	154	11.8	151	11.5

Annexure-XVI

District-wise Categorisation of Change in Water Level 10 Yrs Mean (Jan-14 to Jan-23)-Jan-24

District	No. of Wells	Range of Fluctuation (m)				No. of Wells/Percentage Showing Fluctuation											
		Rise		Fall		Rise						Fall					
		Min	Max	Min	Max	0 -2	%	2-4	%	> 4	%	0 - 2	%	2-4	%	>4	%
Alipurduar	25	0.01	0.52	0.02	0.8	12	48	0	0	0	0	13	52	0	0	0	0
Bankura	98	0.1	11.83	0.09	4.57	67	68.4	9	9.2	2	2	16	16.3	3	3.1	1	1
Birbhum	123	0.03	3.33	0.01	6.58	58	47.2	6	4.9	0	0	40	32.5	14	11.4	5	4.1
Dakshin Dinajpur	37	0.06	3.88	0.05	7.92	13	35.1	3	8.1	0	0	16	43.2	1	2.7	4	10.8
Darjeeling	41	0.05	1.91	0.01	1.38	20	48.8	0	0	0	0	21	51.2	0	0	0	0
Haora	31	0.02	1.94	0.02	10.9	16	51.6	0	0	0	0	6	19.4	5	16.1	4	12.9
Hugli	83	0.02	8.2	0.07	7.02	32	38.6	2	2.4	4	4.8	18	21.7	16	19.3	11	13.3
Jalpaiguri	47	0.01	0.64	0.11	2.5	17	36.2	0	0	0	0	28	59.6	2	4.3	0	0
Jhargram	27	0.07	5.79	0.01	3.31	13	48.1	1	3.7	1	3.7	9	33.3	3	11.1	0	0
Cooch Bihar	30	0.02	2.02	0.01	1.1	12	40	1	3.3	0	0	17	56.7	0	0	0	0
Maldah	55	0.07	14.24	0.08	13.64	22	40	7	12.7	1	1.8	21	38.2	1	1.8	3	5.5
Murshidabad	81	0.01	4.72	0.06	6.98	17	21	1	1.2	1	1.2	44	54.3	10	12.3	8	9.9
Nadia	78	0.01	4.89	0.03	5.38	21	26.9	0	0	1	1.3	53	67.9	1	1.3	2	2.6
North Twentyfour	62	0.08	5.24	0.02	10.39	18	29	2	3.2	1	1.6	24	38.7	8	12.9	9	14.5
Paschim Barddhaman	62	0.05	5.48	0.03	9.04	36	58.1	4	6.5	1	1.6	15	24.2	4	6.5	2	3.2
Paschim Medinipur	67	0.02	5.4	0.02	7.79	25	37.3	5	7.5	1	1.5	19	28.4	7	10.4	10	14.9
Purba Barddhaman	77	0.03	7.76	0.18	9.65	40	51.9	3	3.9	2	2.6	13	16.9	11	14.3	8	10.4
Purba Medinipur	42	0.09	1.81	0.03	16.85	5	11.9	0	0	0	0	8	19	8	19	21	50
Purulia	94	0.04	3.79	0.02	2.32	75	79.8	9	9.6	0	0	9	9.6	1	1.1	0	0
South Twentyfour	108	0.08	5.74	0.19	12.02	11	10.2	0	0	2	1.9	24	22.2	34	31.5	37	34.3
Uttar Dinajpur	31	0.04	3.77	0.02	1.87	12	38.7	1	3.2	0	0	18	58.1	0	0	0	0
Total	1299					542	41.7	54	4.2	17	1.3	432	33.3	129	9.9	125	9.6

Annexure-XVII

Details of Ground Water Monitoring Wells (Deeper Aquifers) of West Bengal with Depth to Water Level in m bgl

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBBK15 A	Bankura	Kotalpur	Kotalpur	23.0106	87.5984	Tube Well	50	Confined	14.89	12.59	11.99	11.99
WBBK21	Bankura	Joypur	Joypur Pz	23.056	87.4407	PZ	209	Confined	2.63	6.61	7.36	7.46
WBBK106 B	Bankura	Raipur II	Sukhadali	22.8223	87.009	Mark-II TW	160	Confined	-	8.17	7.36	5.77
WBBK112	Bankura	Onda	Natungram	23.21875	86.99274	CGWB PZ	50	Confined	4.8	8.28	5.12	5.76
WBBK122	Bankura	Chatna	Susunia	23.4	86.9735	Tube Well	50	Confined	11.91	8.42	8.48	8.64
WBBK12 B	Bankura	Patrasayer	Patrasayer	23.2201	87.5535	Tube Well	70	Confined	16.87	15.18	16.33	16.84
WBBK49 B	Bankura	Sonamukhi	Naruala(Banshe)	23.2802	87.4481	Tube Well	53	Confined	7.4	6.71	6.86	7.47
WBBK109 A	Bankura	Indus	Naldanga	23.1988	87.6234	Tube Well	60	Confined	20.76	17.62	15.94	16.59
WBBK174	Bankura	Patrasayer	Belshi hospital	23.1547	87.525	Tube Well	50	Confined	22.33	17.94	13.25	19.46
WBPL068	Purulia	Barabazar	Bamundiha	23.11305	86.365554	Tube Well	-	Confined	8.73	1.51	4.18	4.67
WBHA01 B	Howrah	Udaynaranpur	Goalpata	22.68111	88.11111	Mark-II TW	250	Confined	-	16.3	17.45	18.8
WBHA08 B	Howrah	Jagatballavpur	Dakshin Maju Tw	22.502	88.183	Mark-II TW	230	Confined	-	15.55	15.9	15.45
WBHA16 A	Howrah	Domjur	Domjur	22.389	88.085	Sub TW	110	Confined	18	18.85	18.9	17.85
WBHA18 B	Howrah	Shyampur II	Bardabar	22.31083	87.98472	Sub TW	110	Confined	19.95	17.1	16.3	18.85
WBHA22	Howrah	Amta II	Joypur	22.60556	87.93833	Tube Well	54.86	Confined	21.15	17	18.8	17.9
WBHA23	Haora	Amta-I	Amta	22.572	88.026	Tube Well	-	Confined	21.87	22.31	18.17	17.67
WBHA24 A	Howrah	Shyampur II	Bargram	22.572	88.026	Tube Well	70	Confined	18.5	19	18.2	17.28
WBHA25 A	Howrah	Amta I	Amta	22.576	88.017	Sub TW	100	Confined	21	17.23	20.25	19.7
WBHA27 A	Howrah	Sankrail	Sankrail	22.56639	88.21333	Sub TW	90	Confined	-	27.65	20.5	26.05
WBHA28 A	Howrah	Uluberia I	Uluberia	22.572	88.026	Sub TW	220	Confined	18.61	25.75	19.89	19.85

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBHA32 A	Howrah	Shyampur II	Sasati	22.595	87.956	Sub TW	211.52	Confined	8.2	7.9	7.95	8.93
WBHA34 A	Howrah	Shyampur I	Shyampur	22.29806	88.02889	Sub TW	120	Confined	19.1	20.1	18.3	17.42
WBHA41	Howrah	Bagnan	Mugkalayan	22.447	88.106	OW	200	Confined	19.45	19.15	18.65	18.2
WBHA46	Howrah	Bagnan-I	Hijlock More	22.47444	87.95611	Tube Well	50	Confined	9.2	14.85	14.9	14.2
WBHA47	Howrah	Bagnan-II	Bantul Koltola	22.4355	87.9729	Mark-II TW	250	Confined	19.25	18.55	18.65	18.03
WBHG19	Hugli	Pursura	Digruighat	22.787	87.924	Tube Well	39.62	Confined	10.49	17.2	16.7	16.2
WBHG25 A	Hugli	Dhaniakhali	Dhaniakhali	22.959	88.308	Sub TW	58.18	Confined	16.36	15.96	14.88	16.09
WBHG29 A	Hugli	Singur	Singur	22.8141	88.2246	Sub TW	100	Confined	18.45	15.55	18.55	19.02
WBHG30	Hugli	Haripal	Gopalprasadpur	22.795	88.047	Mark-II TW	200	Confined	18.05	-	17.05	16.75
WBHG31	Hugli	Haripal	Naity	22.887	88.103	PZ	69.05	Confined	16.11	14	14.45	13.9
WBHG36	Hugli	Arambag	Gourhati Pz	22.776	87.804	PZ	56.04	Confined	-	15.3	15.2	14.7
WBHG40 A	Hugli	Mogra	Gowa Tw	23.033	88.344	Tube Well	7.6	Confined	17.04	16.14	18.34	18.04
WBHG43 A	Hugli	Pandua	Itachuna	23.036	88.309	Sub TW	170	Confined	18.05	14.05	16.95	16.75
WBHG55 A	Hugli	Jangipara	Jangipara	22.74943	88.05352	Sub TW	90	Confined	17.1	16.25	16.7	18.58
WBHG61 A	Hugli	Goghat-II	Kanthali	22.88731	87.67654	Sub TW	80	Confined	12.05	13.65	13.85	15
WBHG63 B	Hugli	Goghat-I	Shyambazar	22.88891	87.56953	Sub TW	80	Confined	19.2	12.9	13.4	12.8
WBHG67 A	Hugli	Khanakul-I	Chackbedua	22.752778	87.85972222	Tube Well	-	Confined	20.05	17.9	17.2	16.9
WBHG68	Hugli	SrirampurJangipara	Dilakash	22.71778	88.02861	PZ	42.96	Confined	-	12.7	13.19	12.99
WBHG70	Hugli	Goghat-II	Mandaran	22.834	87.65	PZ	54.86	Confined	12.18	12.57	12.73	12.43
WBHG71	Hugli	Balagarh	Inchura	23.133	88.396	PZ	50	Confined	-	13.6	14	13.6
WBHG73 A	Hugli	Serampur Uttarpara	Srirampur	23.079	88.396	Tube Well	75.7	Confined	13.6	11.8	13.3	12.7
WBHG74	Hugli	ChinsuraMogra	Bhadeshwar	22.831	88.357	PZ	75	Confined	-	13.35	14.2	14.1
WBHG76	Hugli	Goghat-I	Bengai	22.94044	87.69068	Sub TW	90	Confined	20.36	18.66	19.86	19.36

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
A												
WBHG77	Hugli	Khanakul-I	Ghoshpur	22.735	87.784	PZ	51.8	Confined	21.05	13.6	14	13.2
WBHG79	Hugli	Pandua	Khanyan	23.049	88.32	PZ	70	Confined	-	15.75	17.85	17.55
WBHG80	Hugli	Tarakeswar	Chapadanga	22.882	87.752	PZ	60.96	Confined	17.68	18.9	18.8	16.85
WBHG81	Hugli	Goghat-I	Patulsara	22.882	87.752	PZ	37.78	Confined	17.06	17.7	15.65	18.52
WBHG86 A	Hugli	Arambagh	Puin	22.92934	87.8329	Sub TW	100	Confined	-	14.56	14.95	14.9
WBHG87 A	Hugli	Tarakeswar	Muktarpur	22.83637	87.98171	Sub TW	80	Confined	17.4	19	18.7	19.04
WBHG88 A	Hugli	Tarakeswar	Mirzapur	22.88861	88.04222	Mark-II TW	90	Confined	17.3	14.25	14.1	13.15
WBHG90 A	Hugli	Dhaniakhali	Dasghara	22.843	87.979	Sub TW	80	Confined	15.2	13.4	12.45	14.8
WBHG91 A	Hugli	Ghoghat I	Ragubati (Rajgram)	22.93115	87.7144	CYL TW	50	Confined	17.45	16.85	18.6	17.8
WBHG93	Hugli	Mandolai (Deypara)	Mandolai (Deypara)	23.1	88.326	PZ	40	Confined	16.64	17.15	19.34	16.04
WBHG96	Hugli	Arambag	Batanol	22.92	87.865	PZ	54.86	Confined	-	-	18.35	20.63
WBHG97	Hugli	Tarakeswar	Aknapur	22.907	88.049	PZ	50	Confined	17.85	15.45	15.3	14.65
WBHG98	Hugli	Balagarh	Guptipara	23.20611	88.40861	Mark-II TW	200	Confined	9.85	9.75	10.6	10.4
WBHG99	Hugli	Balagarh	Dhobapara	23.06694	88.4325	CYL TW	50	Confined	10.1	13.1	12.65	12.3
WBHG100	Hugli	Balagarh	Dwarpara	23.103056	88.41333333	Tube Well	-	Confined	9.5	3.4	4	3.2
WBHG102	Hugli	Balagarh	Milargarh	23.10889	88.49556	CYL TW	50	Confined	4.7	10.95	11.4	11.1
WBHG103	Hugli	Pandua	Kanur	23.11083	88.29972	CYL TW	50	Confined	-	15.3	15.4	14.55
WBHG104A	Hugli	Pandua	Pandua	23.11056	88.25306	CYL TW	50	Confined	18.5	14.75	15.9	15.5
WBHG105A	Hugli	Balagarh	Rupeshpur	23.0712	88.46121	Sub TW	90	Confined	11.35	9.15	9.65	9.05
WBHG108	Hugli	Pandua	Dash Darun	23.05528	88.36472	CYL TW	50	Confined	13.2	13.75	14.8	14
WBHG109	Hugli	Balagarh	Bhalki	23.07333	88.38611	CYL TW	50	Confined	12.9	12	11.02	12.6

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBHG110A	Hugli	Balagarh	Ektarpur	23.1042	88.3753	Bore Well	-	Confined	-	7.65	8.65	8.85
WBHG111	Hugli	Pandua	Itachuna	23.02917	88.28117	CYL TW	50	Confined	16.8	13.8	17.3	16.8
WBHG112	Hugli	Polba - Dodpur	Barbigha	23.00639	88.27778	CYL TW	50	Confined	16.21	14.05	14.75	14.45
WBHG114	Hugli	Chinsurah-Magra	Naksa More	23.006667	88.36361111	Tube Well	-	Confined	13.2	12.8	14.5	14.35
WBHG115B	Hugli	Balagarh	Bankipur	23.14693	88.42388	Mark-II TW	215	Confined	10.25	11.85	12.15	11.85
WBHG116	Hugli	Balagarh	Balagarh	23.12611	88.46639	CYL TW	50	Confined	6.7	14.1	14.3	13.15
WBHG117	Hugli	Magra	Demra	23.00778	88.39389	CYL TW	50	Confined	17.3	15.1	15.75	15.4
WBHG118	Hugli	Pandua	Mahanad	23.01444	88.26361	OW	200	Confined	20	-	19.6	20
WBHG123	Hugli	Balagarh	Balagarh	23.12417	88.44972	Mark-II TW	200	Confined	8.35	13	13.45	12.55
WBHG124	Hugli	Balagarh	Bakulia	23.16417	88.38083	PZ	251	Confined	11.74	10.24	10.82	10.14
WBHG131	Hugli	Balagarh	Dwarpara	23.11694	88.40889	Mark-II TW	200	Confined	11.18	13.88	14.08	13.33
WBHG134	Hugli	Pursura	Srirampur Pz	22.8245	87.9488	OW	251	Confined	16.7	18	17.2	16.85
WBHG135	Hugli	Gohat	Gohat Pz	22.8847	87.7031	OW	250	Confined	16.9	15.7	15.95	15.8
WBHG137	Hugli	Balagarh	Kamarpara Pz	23.099	88.3711	EW	203	Confined	10.4	11.1	11.3	12.55
WBHG138	Hugli	Balagarh	Natagarh OW I	23.1543	88.418	OW	200	Confined	11	9.9	10.24	10.56
WBHG139	Hugli	Balagarh	Natagarh OW II	22.71696	88.40282	OW	180	Confined	10.9	9.78	10.23	10.54
WBHG141	Hugli	Arambag	Arambag	22.88833	87.78167	Sub TW	90	Confined	16.15	11.65	11.65	12.15
WBHG142	Hugli	Goghat-II	Kamarpukur	22.91111	87.64806	Mark-II TW	240	Confined	13.45	9.6	10.45	9.9
WBHG143	Hugli	Singur	Madhyahijala	22.83083	88.1975	Mark-II TW	240	Confined	18.05	15.45	15.85	14.65
WBHG62	Hugli	Goghat I	PANDUGRAM	22.87888	87.582777	Tube Well	#N/A	Confined	14	13.3	13.55	13.4

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
A				9	78							
WBHG106A	Hugli	Pandua	Champta	23.0725	88.3568	Bore Well	0	Confined	21.35	14.95	24.15	24.13
WBHG144	Hugli	Chanditala-I	Aushbali	22.75212	88.18537	Mark-II TW	240	Confined	15.15	15.05	13.75	13.3
WBHG145	Hugli	Chanditala-II	Chanditala Gramin Hospital	22.6902	88.2647	Tube Well	60	Confined	14.5	17.3	14.65	14.15
WBHG146	Hugli	Jangipara	Gopalpur	22.75194	88.14167	Mark-II TW	240	Confined	17.65	13.2	13.45	13.65
WBMP53	Jhargram	Jhargram	Lodhasuli DPz	22.34342	87.06452	PZ	144	Confined	-	9.78	5.03	6.66
WBMP219	Jhargram	Gopiballavpur Ii	Topsia	22.26285	86.92043	Tube Well	110	Confined	13.1	10.76	11.48	11.75
WBMP07A	West Mednipur	Garbeta-i	Dhadika	22.90221	87.35746	Tube Well	16.8	Confined	20.81	15.74	11.81	14.09
WBMP10A	West Mednipur	Chandrakona-ii	Khirpai	22.7119	87.61195	Tube Well	17.2	Unconfined	18.11	12.3	11.12	13
WBMP19A	West Mednipur	Ghatal	Ghatal	22.65757	87.73866	PZ	45.3	Confined	18.45	14.48	12.23	14.25
WBMP43	Paschim Medinipur	Salbani	Salboni-2	22.64	87.323	PZ	87	Confined	11.69	-	-	-
WBMP54	West Mednipur	Daspur-i	Daspur DOW	22.6069	87.72226	PZ	151	Confined	-	14.55	15.07	19.85
WBMP61	West Mednipur	Dantan-i	Sarasankha DEW	21.93502	87.31279	PZ	223	Confined	9.07	11.67	11.01	-
WBMP62	West Mednipur	Pingla	Jalchak Sow (TW?)	22.24087	87.67142	Tube Well	47	Confined	18.98	11.18	14.51	14.88
WBMP69	West Mednipur	Dantan	Sarsankha SEW	21.93476	87.3126	PZ	64	Confined	16.5	11	9.3	9.38
WBMP73	West Mednipur	Sabang	Sabang	22.17452	87.59792	PZ	21	Confined	20	16.25	15.16	26.3
WBMP96A	West Mednipur	Keshpur	Neradeul	22.63959	87.49775	Mark-II TW	91	Confined	20.12	14.01	11	14.52
WBMP97	West Mednipur	Ghatal	Manoharpur	22.64961	87.76035	Tube Well	60	Confined	17.6	16.61	9.6	10.86
WBMP100	West Mednipur	Dantan-i	Sonakania	21.86305	87.25549	Tube Well	60	Confined	16.69	9.94	9.54	12.04

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBMP101	West Mednipur	Dantan-ii	Khandrui	21.9563	87.41378	Tube Well	36.57	Confined	16.85	10.25	9.72	13.23
WBMP102B	West Mednipur	Sabang	Temathani	22.22311	87.56342	Mark-II TW	131.06	Confined	15.81	14.3	16.63	19.68
WBMP103	West Mednipur	Debra	Balichak	22.36227	87.55668	Tube Well	91.44	Confined	19.5	12.88	15.23	21.48
WBMP104	West Mednipur	Debra	Murasthi	22.43751	87.62987	Tube Well	141.73	Confined	19.11	11.45	10.12	17
WBMP107	West Mednipur	Daspur-ii	Khukurdaha	22.47496	87.74909	Tube Well	137.16	Confined	22.92	14.47	17.2	18.15
WBMP108	West Mednipur	Daspur-i	Baikunthapur	22.58405	87.71746	Tube Well	109.72	Confined	15.94	14.28	14.76	16.14
WBMP110	West Mednipur	Dantan-ii	Khakurda	22.0141	87.41516	Tube Well	35.05	Confined	17.43	10.5	9.8	13.99
WBMP114	West Mednipur	Mohanpur	Mohanpur	21.843	87.421	Tube Well	24.38	Confined	17.41	9.87	10.45	12.65
WBMP115A	West Mednipur	Mohanpur	Sankarara	21.87214	87.45214	Tube Well	60	Confined	16.2	10.1	7.6	8.84
WBMP129	West Mednipur	Daspur-ii	Kheput (Gopiganj)	22.56203	87.82959	Tube Well	120	Confined	22.32	15.8	15.89	15.64
WBMP130	West Mednipur	Daspur-ii	Sonakhali	22.03401	87.77028	Tube Well	135	Confined	22.14	16.44	15.3	18.27
WBMP131A	West Mednipur	Debra	Panchgeria	22.4324	87.56937	Tube Well	60	Confined	21.06	11.51	13.21	21.11
WBMP132A	West Mednipur	Ghatal	Katan	22.65393	87.75262	Tube Well	55	Confined	20.01	15.4	14.23	16.88
WBMP138	West Mednipur	Chandrakona-I	Khirpai	22.71908	87.61012	Mark-II TW	85.34	Confined	17.04	13.04	17.01	16.36
WBMP139	West Mednipur	Keshpur	Keshpur	22.55242	87.45819	PZ	113	Confined	18.27	17.73	15.33	15.71
WBMP140A	West Mednipur	Daspur i	Sultannagar Mark II	22.55816	87.72579	Mark-II TW	160	Confined	22.01	14.32	13.02	13.98
WBMP141	West Mednipur	Daspur ii	Sonakhali	22.55311	87.76743	Sub TW	60	Confined	22.35	16.31	15.1	18.61
WBMP157	West Mednipur	Narayangarh	Aukanmary Manyagarh	22.18074	87.38763	Tube Well	30	Confined	7.52	11.55	7.75	10.95

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBMP183A	West Mednipur	Pingla	Maligram	22.27023	87.60364	Mark-II TW	160	Confined	17.5	14.6	13.92	23.38
WBMP192A	West Mednipur	Narazole II	Rajnagar	22.5771	87.67056	Mark-II TW	170	Confined	21.12	12.8	14.3	19.85
WBMP195	West Mednipur	Dantam I	Birbhadrapur	21.82789	87.28324	Tube Well	60	Confined	14.78	8.35	8.15	17.75
WBMP215	West Mednipur	DASPUR	JIAKHALI	22.45873	87.75183	Mark-II TW	170	Confined	16.44	11.46	14.55	17.58
WBMP218A	West Mednipur	NARYANGARH	Dhalhara	21.9753	87.2874	Sub TW	65	Confined	5.6	9.15	9.95	12.18
WBMP226	West Mednipur	Kharagpur II	Kharagpur II BDO Office	22.37181	87.43903	Mark-II TW	220	Confined	14.55	13.05	10	11.08
WBMP227	West Mednipur	Nayagram	Nayagram Police Station	22.03659	87.17091	Sub TW	60	Confined	14.84	10.28	11.53	12.33
WBMP23A	East Mednipur	Contai III	Contai Pz-2	21.79156	87.76184	PZ	110	Confined	18.83	13.23	10.39	11.86
WBMP25	East Mednipur	Sutahata I	Sutahata Mw	22.12052	88.10903	PZ	192	Confined	-	20.77	20.65	20.62
WBMP36	East Mednipur	Bhagwanpur I	Bhagwanpur SPz	22.10222	87.75264	PZ	50	Confined	24.05	15.21	19.21	26.05
WBMP51	East Mednipur	Potashpur	Potashpur P.S	22.02112	87.54293	Tube Well	139.2	Confined	20.11	10.6	14.44	21.1
WBMP71	East Mednipur	Patashpur I	Patashpur PHC	22.02727	87.54714	Tube Well	94.48	Confined	14.1	10.4	14.2	18.5
WBMP75	Purba Medinipur	Egra-I	Egra	21.9	87.536	PZ	20	Confined	20.3	-	-	-
WBMP80A	East Mednipur	Ramnagar I	Bodhra-i	21.65991	87.59026	PZ	127	Confined	-	18.4	16.06	18.47
WBMP98	East Mednipur	Mayna	Dakshin Anukha Gram	22.251	87.767	Tube Well	228.6	Confined	18.56	12.87	16.58	17.63
WBMP99	East Mednipur	Mayna	Mayna (Gar Safat)	22.24778	87.79692	Tube Well	167.64	Confined	22	18.42	17.57	17.7
WBMP111	East Mednipur	Potashpur II	Pratapdighi	21.97374	87.58952	Tube Well	112.77	Confined	21.47	12.12	13.8	21
WBMP116	East Mednipur	Egra II	Bhawanichak	21.83528	87.62654	Tube Well	158.49	Confined	17.58	8.98	16.51	18.31
WBMP118	East Mednipur	Panskura II	Kolaghat	22.45438	87.87129	Tube Well	150	Confined	19.05	18.9	15.63	17.8
WBMP120	East Mednipur	Mahisadal II	Keshabpur-jalpai	22.1055	87.9573	PZ	198.8	Confined	9.55	5.6	6.05	5.6

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBMP121	East Mednipur	Mahisadal I	Nandakumar	22.1955	87.92844	PZ	203	Confined	-	18.5	14.47	17.7
WBMP123	East Mednipur	Sutahata II	Balughata	22.07312	88.02831	PZ	206	Confined	15.15	19.05	13.38	19.7
WBMP124	East Mednipur	Tamluk I	Anantapur	22.32296	87.82073	PZ	198	Confined	-	9.4	18.75	15.65
WBMP125	East Mednipur	Tamluk II	Ramtarak	22.37175	87.87056	Tube Well	60	Confined	-	10.5	17	17.85
WBMP126	East Mednipur	Tamluk II	Mecheda	22.41724	87.85882	PZ	198	Confined	19.58	10.9	17.27	18.08
WBMP142A	East Mednipur	Panskura I	Jiyakhali	22.4587	87.7518	PZ	118	Confined	-	14.56	14.65	17.68
WBMP143	East Mednipur	Khejuri	Nijkasba (Govt. H.DTW)	21.79696	87.59423	PZ	70	Confined	25.85	20.8	18.1	20.76
WBMP145	Purba Medinipur	Ramnagar-I	Sankarpur	21.677778	87.562777 78	PZ	223	Confined	17.2	-	-	-
WBMP146	East Mednipur	Tamluk I	Tamluk	22.28543	87.92115	PZ	92	Confined	20.78	12.2	18.85	20.74
WBMP147	East Mednipur	Khejuri	Ramchak	21.8992	87.93268	Mark-II TW	200	Confined	22.55	15.67	16.58	20
WBMP148	East Mednipur	Mahisadal	Chaitanyapur (DEW)	22.13636	88.08461	PZ	60	Confined	22.37	18.67	17.51	18.57
WBMP152	East Mednipur	Ramnagar II	Dharampur	21.71249	87.55819	Mark-II TW	82.29	Confined	15.05	6.72	6.95	9.7
WBMP154	East Mednipur	Egra I	Kudi	21.85819	87.51704	Sub TW	86.86	Confined	8.12	2.5	4.73	5.8
WBMP155	East Mednipur	Ramnagar II	Jinandapur	21.82811	87.63128	Tube Well	34	Confined	18.15	8.6	16.15	17.85
WBMP156	East Mednipur	BhagwanpurI	Kishorpur	22.08219	87.70514	Mark-II TW	88.39	Confined	21.9	14.65	17.79	26
WBMP176	East Mednipur	Ramnagar I	Nimtala	21.66532	87.54241	Mark-II TW	200	Confined	16.55	8.45	7.89	10.66
WBMP177	East Mednipur	Ramnagar II	Dadan Patrabarh	21.67049	87.70684	Mark-II TW	200	Confined	14.55	8.95	8.37	8.7
WBMP178	East Mednipur	Potashpur II	Dakshin Kharh	21.93384	87.53409	Mark-II TW	200	Confined	13.45	11.45	5.79	10.45
WBMP180	East Mednipur	Khejuri II	Sher Khan Chak	21.93401	87.95068	Mark-II TW	200	Confined	21.9	16.45	16.82	20.1
WBMP18	East Mednipur	Khejuri II	Ram Chak	21.8992	87.93268	Mark-II TW	200	Confined	22.8	15.75	15.22	18.75

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
1												
WBMP182	East Mednipur	Khejuri II	Khejuri	21.87503	87.97602	Mark-II TW	200	Confined	21.75	16.15	15.34	18.35
WBMP201	East Mednipur	Sutahata	Baluaghata	22.08271	88.03577	Mark-II TW	200	Confined	20.18	11.45	11.25	18.64
WBMP202	Purba Medinipur	Khejuri-II	Kastala	21.895	87.933	Tube Well	-	Confined	22.35	16.25	15.54	18.9
WBMP203	East Mednipur	Contai II	Bonamalichatra	21.8551	87.72818	Sub TW	52	Confined	18.55	11.08	10.37	17.3
WBMP228	East Mednipur	Contai I	Contai I BDO Office	21.87588	87.75024	Sub TW	55	Confined	14.22	11.1	10.66	10.3
WBMP229	East Mednipur	Contai III	Panchayat Samiti Office	21.86667	87.75698	Sub TW	65	Confined	21.07	12.95	12.26	16.9
WBMP230	East Mednipur	Ramnagar I	Ramnagar I BDO Office	21.67833	87.55935	Sub TW	47	Confined	-	11	6.1	10.9
WBMP231	East Mednipur	Bhagwanpur II	Bhupatinagar Mugberia Gramin Hospital	22.00109	87.72728	Sub TW	55	Confined	23	16.8	17.15	21.73
WBMP232	East Mednipur	Haldia	SBSTC Haldia Bus Depot	22.03659	87.17091	Sub TW	55	Confined	20.53	17	18.83	19.27
WBND04E	Nadia	Tehatta I	Palassey Para	23.79388	88.44791	Mark-II TW	220	Confined	6.77	5.3	6.32	6.44
WBND13D	Nadia	Krishnaganj	Govindapur	23.477	88.73962	Tube Well	60	Confined	-	6.61	7.83	8.11
WBND14A	Nadia	Santipur	Fulia	23.23415	88.49576	PZ	37.11	Confined	6.09	5.51	5.06	5.24
WBND17	Nadia	Ranaghat I	Nokari	23.18378	88.61362	Mark-II TW	180	Confined	4.4	3.92	3.59	3.54
WBND19	Nadia	Shantipur	Baganchra	23.28137	88.39197	PZ	7.37	Unconfined	5.68	6.57	5.13	5.26
WBND20A	Nadia	Kaliganj	Debagram pz	23.699	88.296	PZ	36.64	Confined	-	5.42	-	-
WBND23	Nadia	Karimpur II	Murutia Pz	23.93826	88.64827	PZ	62.64	Confined	6.7	5.83	5.55	5.61
WBND25A	Nadia	Tehatta-I	Tehatta Pz	23.734	88.529	PZ	48.05	Confined	-	-	-	6.38
WBND25B	Nadia	Tehatta I	Tehatta Pz	23.73555	88.52279	Sub TW	250	Confined	10.12	5.05	6.01	-
WBND26	Nadia	Nakashipara	Nakasipara Pz(Bethuadahari)	23.61807	88.37431	PZ	30.89	Confined	4.71	6.62	3.87	4.07

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBND27	Nadia	Nakashipara	Birpur Pz	23.61986	88.44889	PZ	65.39	Confined	6.04	4.04	4.9	4.99
WBND28	Nadia	Hanskhali	Hanskhali Pz	23.36373	88.6	PZ	30.59	Confined	-	4.43	-	-
WBND29 B	Nadia	Hanskhali	Ulasi	23.30446	88.67959	Tube Well	30	Confined	4.63	4.19	3.55	3.5
WBND30	Nadia	Haringhata	Jaguli Pz	22.94657	88.54163	PZ	24.02	Confined	6	7.66	4.04	4.37
WBND32	Nadia	Tehatta II	Barnia	23.72265	88.42149	PZ	48	Confined	8.4	4.63	6.23	5.29
WBND33 A	Nadia	Krishnanagar II	Dhublia Pz	23.48998	88.44847	Sub TW	250	Confined	7	6.35	6.02	6.14
WBND37	Nadia	Krishnanagar I	Maheshganj Pz	23.415752	88.399955	PZ	180	Confined	4.01	5.44	3.62	3.89
WBND43	Nadia	Chapra	Hridaypurpz	23.64267	88.54407	PZ	60.76	Confined	-	5.09	4.29	4.57
WBND46	Nadia	Haringhata	Bilandi	22.95402	88.52567	PZ	132	Confined	7.21	8.08	5.92	5.71
WBND48 A	Nadia	Haringhata	Birohi Int. EW	22.9965	88.54159	Sub TW	67	Confined	7.29	6.6	5.85	5.48
WBND51	Nadia	Ranaghat II	Kupars Camp EWI	23.16121	88.58319	PZ	243	Confined	5.43	4.51	3.46	5.45
WBND52	Nadia	Ranaghat II	Kupars Camp EWII	23.16121	88.58319	PZ	108	Confined	-	2.02	4.28	5.32
WBND53	Nadia	Ranaghat I	Taherpur DOW	23.26735	88.53233	PZ	202	Confined	5.15	4.72	4.69	4.67
WBND56 A	Nadia	Tehatta I	Shyamnagar	23.7935	88.49189	Mark-II TW	34.14	Confined	7.5	5.71	6	6.15
WBND58	Nadia	Tehatta-I	Hanspukuria	23.768889	88.52777778	Tube Well	35.96	Confined	7.49	4.02	5.59	5.67
WBND59 A	Nadia	Karimpur II	Thanapara	23.94358	88.53452	Mark-II TW	230	Confined	6.04	6.49	4.65	4.56
WBND62 A	Nadia	Krishnanagar I	Krishnanagar Town	23.40533	88.48085	PZ	170	Confined	6.98	6.48	6.16	6.48
WBND63	Nadia	Krishnanagar II	Chuakhali- Mark II	23.5231	88.48598	Tube Well	134	Confined	6.29	6.56	5.31	5.33
WBND65	Nadia	Chakdah	Madanpur Pz	23.0054	88.49374	PZ	89.94	Confined	9.24	9.42	8.25	8.53
WBND66	Nadia	Tehatta I	Karuigachhi	23.8062	88.51557	PZ	62.42	Confined	-	3.3	2.81	2.8
WBND67 A	Nadia	Krishnaganj	Bhajan Ghat	23.74524	88.38327	Mark-II TW	230	Confined	7.2	5.41	6.04	6.15
WBND104A	Nadia	Krishnanagar I	Krishnanagar	23.47222	88.45175	Mark-II TW	230	Confined	6.81	5.77	5.87	6.06
WBND105	Nadia	Krishnanagar II	Belpukur	23.47902	88.40804	Mark-II TW	230	Confined	6.42	7.2	5.28	6

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBND106	Nadia	Shantipur	Kulia	23.29532	88.41281	PZ	58.83	Confined	6.82	6.36	6.35	6.42
WBND107	Nadia	krishnanagar II	Gournagar	23.49942	88.45803	Mark-II TW	120	Confined	6.4	5.48	4.92	5.26
WBND108	Nadia	Kaliganj	Kaliganj	23.7309	88.23057	CYL TW	42	Confined	-	5.34	4.37	4.22
WBND109	Nadia	Krishnanagar I	Paninala	23.43155	88.51274	Mark-II TW	114	Confined	5.94	4.42	5.07	6.23
WBND110A	Nadia	Chapra	Dayer-Bazar	23.46209	88.54558	Mark-II TW	102	Confined	5.96	5.2	4.78	4.99
WBND111	Nadia	Chapra	Chapra	23.52962	88.54765	PZ	39.95	Confined	-	6.19	-	-
WBND112	Nadia	Krishnanagar I	Bhatjangla	23.37969	88.48741	Mark-II TW	120	Confined	6.4	5.12	5.56	5.62
WBND113	Nadia	Shantipur	Bathna	23.25063	88.47004	PZ	53.23	Confined	6.68	6.24	5.95	5.99
WBND114	Nadia	Shantipur	Sutragarh Chhar (Shantipur)	23.21922	88.42101	Mark-II TW	96	Confined	4.56	3	3.82	4.94
WBND115	Nadia	Navadwip	Sonadanga	23.45779	88.4287	Mark-II TW	102	Confined	6.29	3.16	5.04	6.52
WBND118	Nadia	Krishnanagar I	Bishnupur	23.38001	88.41753	Mark-II TW	150	Confined	6.39	5.59	5.98	6.04
WBND119	Nadia	Krishnanagar I	Jalalkhali	23.34982	88.5169	Mark-II TW	120	Confined	5.87	4.71	5.15	4.97
WBND120	Nadia	Krishnanagar I	Gobrapota (Dhakapara)	23.4231	88.54698	Mark-II TW	132	Confined	6.92	5.29	5.52	5.23
WBND121	Nadia	Krishnaganj	Chougacha-Kutirpara More	23.42359	88.66942	Mark-II TW	144	Confined	6.91	5.39	5.85	6.31
WBND123	Nadia	Krishnaganj	Mazdia	23.75515	88.47533	Mark-II TW	168	Confined	7.32	5.59	5.9	6.52
WBND130	Nadia	Nakashipara	Muragacha	23.5328	88.40672	Mark-II TW	148	Confined	6.86	5.2	5.62	5.13
WBND131	Nadia	Krishnanagar II	Shakdaha more	23.42719	88.64949	Mark-II TW	130	Confined	6.03	4.23	5.15	4.96
WBND132	Nadia	Krishnaganj	Krishnaganj	23.41444	88.70403	Mark-II TW	148	Confined	6.88	4.63	5.64	6.84
WBND133	Nadia	Krishnaganj	Durgapure	23.44576	88.69076	Mark-II TW	130	Confined	6.55	5.06	5.77	5.83
WBND13	Nadia	Krishnaganj	Khalbalia	23.47353	88.72551	Mark-II TW	148	Confined	6.27	4.92	5.1	6.18

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
4			(Kamarbari)									
WBND135	Nadia	Krishnanagar I	Kalinagar	23.39061	88.51084	Mark-II TW	148	Confined	6.7	6.17	4.76	4.81
WBND136	Nadia	Hanskhali	Chitrashali	23.375537	88.560014	Mark-II TW	230	Confined	-	4.91	-	-
WBND137	Nadia	Hanskhali	Kaikhali-Battala	23.32154	88.65669	Mark-II TW	80	Confined	4.23	3.11	-	4.39
WBND138	Nadia	Hanskhali	Nimtala-Tangra	23.34522	88.61754	Mark-II TW	148	Confined	4.63	4.18	4.32	4.37
WBND139	Nadia	Ranaghat II	Duttaphulia	23.23757	88.70071	Mark-II TW	148	Confined	5.5	5.29	4.56	4.72
WBND140	Nadia	Ranaghat II	Panikhali bazar	23.23069	88.66332	Mark-II TW	148	Confined	3.84	4.45	2.83	3.02
WBND141	Nadia	Krishnanagar I	Bhaluka	23.35077	88.4034	Mark-II TW	230	Confined	5.73	5.54	5.61	5.71
WBND142	Nadia	Chapra	Hridaypur	23.62854	88.58011	Mark-II TW	85	Confined	5.01	3.65	4.49	4.82
WBND143	Nadia	Krishnanagar municipality	Krishnanagar	23.4025	88.49007	Mark-II TW	220	Confined	7.03	6.63	5.94	6.11
WBND144	Nadia	Krishnanagar I	Mahesganj	23.41314	88.40338	Mark-II TW	220	Confined	4.89	7.16	10.42	9.72
WBND145A	Nadia	Ranaghat	Kamgachri	23.41235	88.75496	Tube Well	50	Confined	7.2	5.24	6.09	6.28
WBND146	Nadia	Shantipur	Batangachi	23.30877	88.46776	PZ	53.49	Confined	5.87	7.43	5.61	5.81
WBND147A	Nadia	Shantipur	Arbandi	23.29579	88.50445	Mark-II TW	230	Confined	6.33	5.61	5.65	5.66
WBND148	Nadia	Shantipur	Nidhkur	23.26181	88.50398	PZ	59.23	Confined	5.91	5.31	5.1	5.04
WBND149	Nadia	Karimpur I	Madhya Gopalpur	23.97461	88.61445	PZ	215	Confined	5.21	7.09	4.89	5.02
WBND153	Nadia	Krishnaganj	Banpur	23.45514	88.7686	Mark-II TW	220	Confined	9.12	7.67	7.57	8.26
WBND156	Nadia	Krishnanagar II	Jahangirpur	23.39063	88.45539	Mark-II TW	220	Confined	6.61	5.06	6.21	6.22
WBND157	Nadia	Nabadwip	Nabadwip	23.38105	88.38942	Tube Well	60	Confined	5.48	6.54	4.49	4.68
WBND158	Nadia	Chapra	Choko-Andulia	23.5827	88.55279	Mark-II TW	220	Confined	5.46	5.28	4.77	4.98

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBND159	Nadia	Tehatta I	Debnathpur	23.77409	88.54678	Mark-II TW	220	Confined	6.74	6.89	6.1	-
WBND160	Nadia	Chapra	Elemnagar	23.53581	88.54735	Mark-II TW	220	Confined	7.62	4.8	5.29	6.03
WBND161	Nadia	Tehatta I	Islampur	23.70072	88.53392	Mark-II TW	220	Confined	5.96	6.07	5.17	5.32
WBND162	Nadia	Karimpur I	Shikarpur	23.98682	88.73847	Mark-II TW	220	Confined	8.52	7.5	7.93	-
WBND163A	Nadia	Karimpur I	Arabpur	23.97618	88.68198	Mark-II TW	230	Confined	5.85	4.49	4.83	-
WBND164	Nadia	Hanskhali	Bagula	23.33392	88.64449	Mark-II TW	220	Confined	-	3.87	3.98	4.12
WBND165	Nadia	Ranaghat I	Birnagar	23.23914	88.5577	Mark-II TW	220	Confined	6.47	5.01	5.57	5.73
WBND166	Nadia	Hanskhali	Bhowbanipur	23.3379	88.6537	Tube Well	-	Confined	4.83	4.11	3.76	3.72
WBND69	Nadia	Ranaghat II	Patuli	23.14689	88.56554	PZ	49.4	Confined	6.19	4.83	4.42	4.58
WBND70A	Nadia	Ranaghat II	Khoshalpur (North Aranghata)	23.24999	88.61723	Mark-II TW	230	Confined	14.46	6.41	13.5	14.24
WBND73A	Nadia	Santipur	Babla(Gobindapur)	23.27552	88.43785	Mark-II TW	230	Confined	5.76	6.32	7.08	8.14
WBND75	Nadia	Santipur	Bathna	23.251054	88.46903	PZ	170	Confined	6.84	6.31	6.14	6.17
WBND76	Nadia	Haringhata	Subarnapur	22.95386	88.57484	PZ	60	Confined	4.62	4.7	3.33	-
WBND79	Nadia	Chakdaha	Kantabela	22.97116	88.51553	PZ	46.9	Confined	5.78	5.6	4.89	-
WBND80	Nadia	Chakdah	Itapukur	23.058	88.685	PZ	49.4	Confined	-	8.3	-	-
WBND83A	Nadia	Hanskhali	Hanskhali	23.39314	88.64924	Mark-II TW	230	Confined	9.02	3.86	4.9	4.93
WBND87A	Nadia	Nakasipara	Chichuria	23.663113	88.376799	Sub TW	65	Confined	7.98	4.94	6.52	6.27
WBND88A	Nadia	Kaliganj	Hatgachha	23.68889	88.31134	Mark-II TW	230	Confined	-	4.55	5.79	5.96
WBND61C	Nadia	Karimpur II	Gopalpur (Khanji)	23.88765	88.5779	Mark-II TW	200	Confined	7.46	5.81	-	-
WBND64A	Nadia	Chakdah	Silinda	23.07758	88.65262	Mark-II TW	230	Confined	4.99	7.47	3.7	2.73
WBND10	Nadia	Krishnanagar II	Chowgacha	23.45822	88.452974	EW	-	Confined	5.33	5.01	4.5	4.99

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
3A												
WBND116B	Nadia	Navadwip	Mayapur	23.43604	88.39261	Sub TW	60	Confined	4.6	4	3.8	3.99
WBND117B	Nadia	Nabadwip	Mukundapur	23.38135	88.3893	Mark-II TW	230	Confined	1.7	4.72	3.96	4.13
WBND122B	Nadia	Krishnaganj	Harishnagar	23.47367	88.77762	Mark-II TW	230	Confined	6	8.18	5.91	6.15
WBND171	Nadia	Chapra	Sutia	23.64536	88.54112	Pz CGWB	227	Confined	6.19	4.28	3.65	3.87
WBND172	Nadia	Tehatta	Palassey Para	23.79367	88.44789	Pz CGWB	180	Confined	7.37	5.75	6.08	6.24
WBND173	Nadia	Tehatta II	Kulgachi	23.7889	88.37539	Pz CGWB	81	Confined	-	5.95	5.93	5.89
WBND175	Nadia	Krishnanagar I	Putikhali More	23.40329	88.74286	Pz CGWB	263	Confined	-	5.85	2.83	2.59
WBND72	Nadia	Ranaghat I	Debagram	23.161587	88.656199	PZ	-	Confined	-	4.31	4.79	5.05
WBND84A	Nadia	Hanskhali	Khamarsimulia	23.32449	88.52949	Mark-II TW	230	Confined	5.95	6.7	5.65	4.55
WBND91A	Nadia	Karimpur I	Natna	23.98495	88.65699	Mark-II TW	230	Confined	-	6.36	5.29	5.23
WBND94A	Nadia	Karimpur II	Maishkhola	23.87612	88.54905	DEW	267	Confined	5.74	5.8	-	-
WBND96A	Nadia	Tehatta II	Garibpur	24.00881	88.49613	Mark-II TW	230	Confined	7.34	7	6.37	6.46
WBND17A	Nadia	Ranaghat I	Nokari	23.167222	88.62805556	Tube Well	0	Confined	-	-	-	4.1
WBND44A	Nadia	Chapra	Fulkulmi	23.555	88.61472	Sub TW	227	Confined	5.68	-	3.23	3.51
WBND98A	Nadia	Tehatta II	Chhota – Naldaha	23.716515	88.596713	Mark-II TW	230	Confined	6.55	4.07	6.82	6.53
WBND99A	Nadia	Tehatta II	Sahebnagar	23.81001	88.40734	Mark-II TW	230	Confined	7.33	4.19	6.42	6.37
WBND101A	Nadia	Chapra	Taluk Huda	23.57156	88.51982	Mark-II TW	230	Confined	6.28	4.54	4.97	5.23
WBBM008A	Purba Barddhaman	Bhatar	Bhatar Pz	23.4036	87.91892	PZ	234	Confined	-	24.6	24.31	23.86
WBBM01	Purba	Galsi II	Galsi A	23.34444	87.68555	Tube Well	60	Confined	11.78	6.35	6.42	7.83

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
3B	Barddhaman											
WBBM016	Purba Barddhaman	Kalna I	Kalna	23.23248	88.3403	PZ	61.31	Confined	-	10	9.13	8.58
WBBM019B	Purba Barddhaman	Kandaghosh	Khejurhati Pz	23.21656	87.72731	PZ	210	Confined	-	7.84	7.15	7.13
WBBM027	Purba Barddhaman	Ketugram-I	Ramjibanpur	23.737499	87.9722214	PZ	52.71	Confined	-	20.14	24.91	24.99
WBBM023A	Purba Barddhaman	Purbasthali-I	Samuagrah	23.370832	88.3274994	PZ	41.19	Confined	9.95	10.29	-	10.68
WBBM030	Purba Barddhaman	Khandaghosh	Metadanga	23.21663	87.6545	Tube Well	26.84	Confined	8.75	8.55	7.88	8.24
WBBM050C	Purba Barddhaman	Monteswar	Kusumgram	23.39399	88.13056	CGWB EW	134	Confined	-	27.42	25.25	25.63
WBBM053	Purba Barddhaman	Rayna II	Dommara	22.99623	87.77787	PZ	146	Confined	-	15.27	14.09	-
WBBM062	Purba Barddhaman	Bhatar	Orgram Pz –2	23.44102	87.77083	PZOW2	297	Confined	14.94	16.23	14.64	12.58
WBBM064	Purba Barddhaman	Mangalkot	Charnak Pz	23.53213	87.79237	PZ	45.49	Confined	-	9.41	13.49	13.92
WBBM065	Purba Barddhaman	Ausgram II	Amragarh Pz	23.42701	87.58415	PZ	81.39	Confined	12.53	13.1	8.42	9.09
WBBM079	Purba Barddhaman	Kalna I	Simlon Pz	23.2797	88.2508	PZ	-	Confined	5.23	4.58	-	-
WBBM082A	Purba Barddhaman	Bardhaman	Amirpur	23.20428	87.92929	Tube Well	55	Confined	-	7.47	6.19	6.77
WBBM086	Purba Barddhaman	Ausgram II	Banabagram-I	23.53391	87.62017	Tube Well OW1	121	Confined	13.7	8.53	4.9	5.32
WBBM087	Purba Barddhaman	Ausgram II	Bannabagram-Ii	23.53661	87.61944	Tube Well(OW2)	297	Confined	9.31	10.27	7.47	7.92
WBBM090	Purba Barddhaman	Galsi-I	Bud Bud Pz-1	23.398333	87.5527802	Tube Well	-	Confined	-	12.59	5.82	6.84
WBBM097B	Purba Barddhaman	Galsi II	Sanko	23.30366	87.74802	TW Mark I	40	Confined	11.79	6.75	6.62	7.8
WBBM099	Purba Barddhaman	Bardhaman	Jhinguti Pz	23.27849	87.82289	PZ	35.4	Confined	-	12	11.04	11.5

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBBM106A	Purba Barddhaman	Kalna II	Bandebaz	23.20123	88.39969	PZ	140	Confined	-	6.99	6.34	6.59
WBBM118	Purba Barddhaman	Purbasthali II	Chupi	23.46683	88.34437	Tube Well	56	Confined	7.46	7.18	6.48	6.78
WBBM119	Purba Barddhaman	Purbasthali II	Chak Bamangoria	23.42919	88.29063	Tube Well	55	Confined	13.34	13.5	12.56	12.73
WBBM120	Purba Barddhaman	Katwa II	Nandigram	23.54407	88.14989	Tube Well	52	Confined	20.34	11.92	19.04	17.22
WBBM123A	Purba Barddhaman	Galsi I	Galigram	23.35939	87.65268	Tube Well	20	Confined	11.46	3.08	3.96	5.18
WBBM124A	Purba Barddhaman	Galsi I	Paraj TW	23.36619	87.60114	Tube Well	24	Confined	6.09	4	4.55	5.97
WBBM125B	Purba Barddhaman	Galsi I	Ramgopalpur	23.31047	87.57873	Tube Well	55	Confined	9.27	7.45	7.08	8.06
WBBM126A	Purba Barddhaman	Galsi I	Kasba	23.34852	87.51048	Tube Well	55	Confined	6.47	2.75	11.29	5.62
WBBM127	Purba Barddhaman	Bhatar	Barabelun Pz (SWID)	23.40925	87.98193	PZ	55.73	Confined	28.92	25.5	27.4	28.7
WBBM129A	Purba Barddhaman	Mangolkot	Koichor	23.54069	88.00351	Mark-II TW	45.7	Confined	26.89	20.85	19.99	27.49
WBBM132	Purba Barddhaman	Ketugram I	Khalipur Pz (Swid)	23.71877	88.01261	PZ	41.71	Confined	23.91	17.4	24.64	24.19
WBBM133	Purba Barddhaman	Ketugram I	Hat Moregram	23.75389	88.025	Tube Well	30.5	Confined	17.21	11.23	17.57	24.49
WBBM134A	Purba Barddhaman	Katwa II	Singi	23.53609	88.18694	Mark-II TW	41.04	Confined	18.97	18	17.05	17.41
WBBM135A	Purba Barddhaman	Manteswar	Maldanga	23.429041	88.082123	Tube Well	40	Confined	-	22.53	23.25	22.18
WBBM136A	Purba Barddhaman	Manteswar	Jamna	23.36186	88.16258	Mark-II TW	41.15	Confined	22.83	18.06	17.38	22.62
WBBM137A	Purba Barddhaman	Kalna II	Bara Dhamas	23.1673	88.20716	Tube Well	50	Confined	18.74	20.77	19.94	18.38
WBBM138	Purba Barddhaman	Khandaghosh	Bowaichandi	23.1368	87.73034	Tube Well	45.7	Confined	19.57	14.79	11.61	11.71
WBBM139A	Purba Barddhaman	Raina II	Kaity	23.01473	87.82287	Tube Well	50	Confined	21.19	22.57	21.28	20.78

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBBM141A	Purba Barddhaman	Raina II	Borpur	23.02377	87.90333	Tube Well	60	Confined	15.58	15.41	12.86	-
WBBM142A	Purba Barddhaman	Khandaghosh	Sagrai Pz (Swid)	23.15261	87.81553	Mark-II TW	170	Confined	-	10.72	10.03	10.06
WBBM143	Purba Barddhaman	Katwa I	Katwa TW	23.63593	88.1393	TW Obs well	145	Confined	9.27	6.29	1.35	2.66
WBBM146	Purba Barddhaman	Bardhaman I	Malkita	23.30362	87.88738	Tube Well	49	Confined	17.19	23.89	14.39	15.15
WBBM147	Purba Barddhaman	Galsi II	Bahirghona	23.37323	87.71052	PZ	40.86	Confined	6.73	8.48	7.05	7.89
WBBM149	Purba Barddhaman	Purbasthali II	Uttar Srirampur	23.42919	88.29063	Tube Well	54	Confined	7	6.2	6.28	5.9
WBBM151A	Purba Barddhaman	Raina I	Haripur	23.17497	87.92982	Tube Well	55	Confined	10.97	10.3	7.69	8.21
WBBM152A	Purba Barddhaman	Raina I	Natu	23.17055	87.93833	Tube Well	50	Confined	9.64	10.77	7.93	7.85
WBBM159A	Purba Barddhaman	Bhatar	Kubajpur	23.36486	87.9796	Mark-II TW	170	Confined	-	18.86	18.15	19.87
WBBM162A	Purba Barddhaman	Jamalpur	Jamalpur	23.07434	87.9973	Tube Well	50	Confined	9.51	11.37	9.78	10.93
WBBM163	Purba Barddhaman	Memari II	Paharhati	23.25236	88.09765	PZ	25.41	Confined	19.01	16.03	18.31	18.85
WBBM165	Purba Barddhaman	Barddhaman	Barddhaman	23.23964	87.89899	PZ	48.5	Confined	9.93	12.03	13.15	10.25
WBBM166	Purba Barddhaman	Manteswar	Denur	23.45002	88.14373	PZ	34.18	Confined	-	26.44	24.63	24.42
WBBM168A	Purba Barddhaman	Bhatar	Bolgona	23.46093	87.93956	Mark-II TW	61	Confined	29.18	26.15	29.92	30.86
WBBM183	Purba Barddhaman	GALSI I	Babla	23.35378	87.68455	DTW	142	Confined	-	8.3	14.36	9.62
WBBM193	Purba Barddhaman	Barddhaman I	Suren Kalna	23.04352	87.98539	Tube Well	50	Confined	6.03	5.12	4.54	5.06
WBBM194	Purba Barddhaman	Barddhaman I	Bhita	23.29668	87.90811	Tube Well	50	Confined	-	12.6	10.92	10.88
WBBM195	Purba Barddhaman	Barddhaman I	Kaligram	23.3217	87.93401	PZ	155	Confined	13.18	13.32	11.37	12.24

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBBM196	Purba Barddhaman	Barddhaman I	Bhandardihi	23.3506	88.0277	Mark-II TW	200	Confined	-	24.92	26.1	24.27
WBBM205	Purba Barddhaman	Barddhaman I	Mirjapur	23.28107	87.8781	PZ	140	Confined	15.17	16.59	14.83	16.04
WBBM206	Purba Barddhaman	Monteswar	Monteswar	23.41631	88.10877	PZ	130	Confined	26.18	16.94	25.64	25.59
WBBM207	Purba Barddhaman	BWN I	Burdwam	23.239754	87.869757	PZ	-	Confined	-	14.61	16.82	16.38
WBBM208	Purba Barddhaman	Khandaghosh	Khandaghosh (Tantipara)	23.21382	87.68575	CYL TW	60	Confined	10.12	11.43	8	8.55
WBBM209	Purba Barddhaman	Galsi I	Rekona	23.38594	87.59081	Mark-II TW	200	Confined	9.45	5.26	6.47	7.85
WBBM210	Purba Barddhaman	Galsi I	Paraj More	23.37944	87.60699	Mark-II TW	200	Confined	7.47	8.69	-	-
WBBM211	Purba Barddhaman	Galsi I	Sillaghat	23.33368	87.58759	Mark-II TW	200	Confined	8.53	9.31	7.54	7.98
WBBM212	Purba Barddhaman	Galsi I	Tildanga	23.39419	87.56672	Mark-II TW	200	Confined	10.64	5.89	8.36	7.1
WBBM041A	Purba Barddhaman	Mangalkot	Natunhat	23.53296	87.9051	PZ	245	Confined	-	12.87	16.5	22.62
WBBM045A	Purba Barddhaman	Ausgram I	Guskara	23.49589	87.72087	Mark-II TW	250	Confined	10.81	13.43	7.2	8.91
WBBM101A	Purba Barddhaman	Rayna I	Rayna	23.10267	87.86853	Mark-II TW	250	Confined	-	15.12	11.48	10.6
WBBM140A	Purba Barddhaman	Raina II	Madhabdihi	23.01312	87.86765	PZ	167	Confined	20.26	21.54	17.08	18.86
WBBM144A	Purba Barddhaman	Bhatar	Amarun	23.36447	87.93508	PZ	170	Confined	21.09	25.3	16.41	18.72
WBBM148A	Purba Barddhaman	Galsi I	Bud Bud(Mankar)	23.4277	87.55879	PZ	20	Unconfined	4.67	0.98	1.24	1.63
WBBM150A	Purba Barddhaman	Purbasthali II	Bhatshale	23.41624	88.3095	Tube Well	50	Confined	9.14	11.06	10.19	10.79
WBBM164A	Purba Barddhaman	Memari I	Memari	23.18246	88.09405	PZ	250	Confined	10.78	17.85	16.11	16.79
WBBM217	Purba Barddhaman	Galsi-II	Bahirghona	23.372875	87.710566	Tube Well	-	Confined	11.61	7.85	-	8.22

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBBM219A	Purba Barddhaman	Burdwan II	Hat Gobindpur	23.25522	87.97828	PZ	120	Confined	13.15	14.15	12.66	12.77
WBBM220	Purba Barddhaman	Manteswar	Putsuri	23.389	88.134	OW	-	Confined	-	21.95	-	-
WBBM221	Purba Barddhaman	Bhatar	Bauripara	23.41	87.914	OW	-	Confined	-	27.61	24.17	24.2
WBBM049	Paschim Barddhaman	Galsi-II	Rakona	23.386944	87.5913889	Tube Well	0	Confined	-	5.17	-	-
WBBM092	Paschim Barddhaman	Kanksa	Raghunathpur-1	23.56034	87.49462	PZ	139	Confined	14.14	11.88	16.23	14.74
WBBM094	Paschim Barddhaman	Kanksa	Raghunathpur -Pz-3	23.56033	87.49466	PZ	56	Confined	12.15	13.8	6.47	7.56
WBBM103	Purba Barddhaman	Jamalpur	Chakdigi	23.016111	87.9986115	PZ	36.4	Confined	13.06	11.11	10.56	12.33
WBMB188	Murshidabad	Khargram	Nagar	24.08300	87.98677	Mark-II TW		Confined	-	-	29.7	25.09
WBBM198	Paschim Barddhaman	Kanksa	Piyariganj	23.53811	87.47089	Mark-II TW	180	Confined	11.15	6.18	6.01	7.22
WBMD01A	Maldah	English Bazar	Nemasarai	25.041944	88.12388889	Tube Well	36.58	Confined	11.57	7.38	7.27	8.42
WBMD02A	Malda	Manikchak	Manikchak (SBI)	25.0771	87.8999	Tube Well	55	Confined	-	6.5	2.55	5.83
WBMD12B	Malda	English bazaar	Ramkeli(Near Bholanathpur)	24.8894	88.1294	Tube Well	55	Confined	8.51	-	5.37	2.43
WBMD21A	Malda	Harischandrapur II	Bhaluka Bazar	25.281	87.8772	Tube Well	60	Confined	5.42	-	4.98	5.87
WBMD23D	Malda	Habibpur	Bulbulchandi	24.979	88.2439	Tube Well	50	Confined	13.07	-	13.23	13.21
WBMD37C	Malda	Ratua I	Debipur (Terrasia)	25.2238	87.9035	Mark-II TW	160	Confined	6.83	11	4.97	5.09
WBMD08B	Malda	Kaliachak-I	Kaliachak College	24.8551	87.9958	Tube Well	235	Confined	3.82	1.82	2.01	2.37
WBMD16B	Malda	Gazole	Pandua A.K. High School	25.1317	88.1542	PZ	160	Confined	28.14	26.1	20.03	21.98
WBMD20A	Malda	Bamangola	Bamangola High School	25.165	88.3408	PZ	127	Confined	20.17	-	17.21	17.33

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBMD28 A	Malda	Old Malda	Maligram (Gani Khan Chowdhury Institute)	25.0526	88.1662	PZ	60	Confined	18.25	-	10.15	10.19
WBMD43 B	Malda	Chanchal II	Malatipur	25.3307	88.0198	Mark-II TW	55	Confined	13.07	11.15	4.97	8.87
WBMD46 B	Malda	Kaliachak-III	Dariapur	24.8253	87.9911	Tube Well	50	Confined	4.37	3.45	1.28	3.02
WBMD53 A	Malda	Ratua I	Bhado	25.2408	87.9599	Mark-II TW	160	Confined	10.88	5.33	2.93	4.27
WBMD54 A	Malda	Harishchandrapur I	Harishchandrapur	25.4145	87.882	Mark-II TW	160	Confined	8.42	10.64	4.74	4.93
WBMD55	Malda	Gazole	Gazole	25.220833	88.194725	PZ	#N/A	Confined	22.81	18.5	16.12	18.72
WBMD57 A	Malda	English Bazar	Dakshin Jadupur	24.9706	88.1277	Tube Well	55	Confined	10.53	4.8	5.34	5.84
WBMD92 A	Malda	English Bazar	Phulbaria	25.0473	88.0286	Tube Well	55	Confined	8.14	6.07	6.14	-
WBMD96 A	Malda	Harishchandrapur I	Tulsihata-2	25.4608	87.9129	Tube Well	50	Confined	-	4.61	3.79	4.08
WBMD40	Malda	Harischandrapur I	Tulsihata	25.4548	87.9093	Tube Well	-	Confined	-	-	3.92	4.12
WBMD41	Malda	Harischandrapur II	Baroduari	25.4167	87.8543	Sub TW	-	Confined	-	5.65	4.54	4.73
WBMD42 A	Maldah	Ratua-I	Ratua	25.197	87.928	Tube Well	-	Confined	7.37	3.13	0.82	0.44
WBMD47	Malda	Kaliachak III	17 Mile	24.8255	87.97	Tube Well	39.624	Confined	10.15	3.41	1.94	-
WBMD48	Malda	Kaliachak III	Mahajantala	24.844	87.98	Tube Well	39	Confined	4.36	3.59	3.74	4.31
WBMD49	Malda	Kaliachak III	16 Mile	24.8416	87.9829	Tube Well	39	Confined	5.36	4.16	3.69	4.32
WBMD61 A	Malda	Kaliachak II	Puratan Pataldanga	24.9214	88.0411	Tube Well	60	Confined	4.87	3.62	2.96	4.25
WBMD77 A	Maldah	Habibpur	Habibpur	25.023	88.286	Sub TW	-	Confined	25.11	24.98	16.022	17.88
WBMD82 B	Malda	Old Malda	Fatepur (Bhabuk Anchal)	25.0894	88.1473	Mark-II TW	160	Confined	18.11	13.64	12.54	14.57
WBMD85 A	Malda	Habibpur	Aiho	24.9602	88.2394	Tube Well	55	Confined	17.57	14.8	13.62	13.96

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBMD89	Malda	Kaliachak II	Pagla Bridge	24.8503	87.9913	Tube Well	50	Confined	-	-	2.84	2.89
WBMD90	Malda	Gajole	Ghaksole	25.1816	88.178	Tube Well	55	Confined	23.77	18.1	23.99	24.48
WBMD91	Malda	Gajole	Matoil	25.2204	88.1494	Tube Well	60	Confined	-	-	8	10.74
WBMD95	Malda	Chachal II	Jalalpur	25.3321	88.0641	PZ	62	Confined	8.01	7.95	7.35	7.07
WBMD100	Malda	Ratua I	Sripur	25.2561	88.045	Mark-II TW	50	Confined	6.07	6.14	5.9	5.31
WBMD101	Malda	Ratua I	Samshi College	25.2875	88.0008	PZ	100	Confined	24.07	19.83	17.56	17.61
WBMD102	Malda	Kaliachak II	Mothabari	24.9296	88.0363	PZ	110	Confined	5.09	5.1	2.45	3.82
WBMD106	Malda	Ratua II	Pukhuriya	25.1179	88.0009	Tube Well	50	Confined	8.34	7.83	4.98	5.66
WBMD108	Malda	Chanchal I	Kanua	25.4124	87.9745	Tube Well	50	Confined	9.6	9.67	5.5	5.94
WBMD109	Malda	English Bazar	Milki Hospital	25.0344	87.9922	PZ	60	Confined	6.24	4.02	4.9	5.1
WBMD110	Malda	Chanchal I	Kharba(Dighi)	25.4236	88.0836	Tube Well	55	Confined	11.29	10.65	4.98	5.31
WBMD111	Malda	Chanchal I	Chanchal(Hat Khola)	25.3969	88.0046	Mark-II TW	160	Confined	11.12	10.2	6.93	7.07
WBJL57A	Alipurduar	Alipurduar I	Birpara	26.48588	89.50287	Tube Well	160	Confined	3	-	-	2.94
WBDL06B	Darjeeling	Phasidewa	Muraligachh	26.46553	88.23612	Sub TW	90	Confined	-	-	3.15	3.75
WBDL19	Darjeeling	Matigara	Methibari	26.76923	88.37924	PZ	10.5	Confined	2.95	1.39	-	2.18
WBDL21	Darjeeling	Naxalbari	Naxalbari	26.68635	88.21176	Deep TW	132	Confined	4.42	2.17	3.29	4.02
WBDL49	Darjeeling	Kalimpong I	Mongpong	26.88242	88.48904	Bore Well	170	Confined	27.12	22.36	25.2	26.11
WBDL50	Darjeeling	Gorubathan	Gorubathan Fores (Meenglas Tea Estate)	26.92634	88.70181	Mark-II TW	200	Confined	23.7	14.57	17.36	21.6
WBKB02B	Cooch Bihar	Dinhata-I	Dihnata	26.13188	89.46365	Deep TW	168	Confined	-	10.4	-	5.81
WBKB09A	Cooch Bihar	Mathabhanga-I	Angarkata Paradubi	26.39023	89.22558	Sub TW	5.53	Confined	2.94	1.1	2.04	2.56
WBKB24B	Cooch Bihar	Sitalkuchi	Bara Pinjarir Jhar	26.22341	89.19586	Tube Well	170	Confined	2.43	0.55	1.37	1.78
WBJL45A	Jalpaiguri	Moynaguri	Moynaguri	26.56478	88.8408	Tube Well	50	Confined	4.06	1.92	3.08	3.88

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WBJL65A	Jalpaiguri	Rajganj	Radhabari	26.55577	88.47332	Sub TW	100	Confined	2.75	1.82	3.55	2.81
WBWD35 A	Dakshin Dinajpur	Hili	Hili P.S.	25.2775	88.9965	Mark-II TW	30	Confined	8.72	5.08	4.84	5.56
WBWD51 A	Dakshin Dinajpur	Bansihari	Joredighi	25.4415	88.4026	Mark-II TW	50	Confined	9.36	8.41	5.64	5.59
WBWD52	Dakshin Dinajpur	Kushmundi	Kushmundi	25.5206	88.3687	Tube Well	27.432	Confined	12.92	8.79	3.44	4.82
WBWD53	Dakshin Dinajpur	Balurghat	Balurghat	25.2324	88.792	Mark-II TW	33.528	Confined	6.67	5.14	4.21	-
WBWD55	Dakshin Dinajpur	Gangarampur	Nayabazar	25.3642	88.5235	Tube Well	27.432	Confined	12.92	9.38	7.37	7.57
WBWD56	Dakshin Dinajpur	Hilli	Teore	25.2593	88.8885	Tube Well	24.336	Confined	6.97	4.62	1.12	4.67
WBWD60 A	Dakshin Dinajpur	Bansihari	Buniadpur	25.3926	88.3959	Mark-II TW	160	Confined	14.63	8.2	7.21	7.07
WBWD63 A	Dakshin Dinajpur	Hilli	Trimohini (Lalpur)	25.2869	88.9421	Sub TW	100	Confined	8.02	4.75	4.05	4.85
WBWD64 A	Dakshin Dinajpur	Gangarampur	Kaliamora(Aminpur)	25.483612	88.3874969	Tube Well	-	Confined	-	3.63	3.73	6.03
WBWD75 A	Dakshin Dinajpur	Tapan	Bharila	25.222	88.6695	Mark-II TW	160	Confined	9.67	8.35	2.12	4.92
WBWD80 A	Dakshin Dinajpur	Gangarampur	Thengapara	25.4093	88.4699	Mark-II TW	160	Confined	13.83	11.3	7.51	7.89
WBWD85	Dakshin Dinajpur	Gangarampur	Madhabpur	25.4963	88.5907	Tube Well	91	Confined	10.75	5.13	4.78	4.72
WBWD97	Dakshin Dinajpur	Gangarampur	Durgapur	25.4066	88.476	Tube Well	60	Confined	9.74	8.53	-	-
WBWD98	Dakshin Dinajpur	Tapan	Dhelpir	25.3271	88.561	Tube Well		Confined	13.98	10.84	6.97	9.06
WBWD10 4	Dakshin Dinajpur	Bansihari	Joredighi	25.4473	88.4044	OW/PZ	240	Confined	-	8	2.05	2.52
WBWD10 5	Dakshin Dinajpur	Tapan	Tapan	25.2972	88.567	OW	250	Confined	20.52	19.6	18.09	18.83
WBWD10 7A	Dakshin Dinajpur	Balurghat	Amrail	25.2147	88.896	Mark-II TW	-	Confined	7.93	5.55	4.78	5.86

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WBWD109A	Dakshin Dinajpur	Kumarganj	Gobindapur	25.3638	88.7785	Mark-II TW	-	Confined	7	4.69	4.59	5.69
WBWD115	Dakshin Dinajpur	Kusmundi	Chausa	25.5558	88.4733	Mark-II TW	160	Confined	9.17	4.37	3.57	4.92
WBWD116	Dakshin Dinajpur	Gangarampur	Lalchandrapur	25.4892	88.6058	Mark-II TW	160	Confined	8.28	7.74	2.36	4.84
WBWD119	Dakshin Dinajpur	Kushmandi	Nahit	25.5365	88.4072	Mark-II TW	160	Confined	7.08	5.52	2.96	5.11
WBWD120	Dakshin Dinajpur	Gangarampur	Zafarpur	25.4787	88.5209	Mark-II TW	160	Confined	8.01	5.21	4.09	4.17
WBWD07A	Dakshin Dinajpur	Balurghat	Mahinagar (Balurghat ATC)	25.2624	88.7804	Sub TW	100	Confined	4.77	5.62	4.35	4.41
WBWD34	Dakshin Dinajpur	Tapan	Tapan	25.307501	88.5650024	PZ	#N/A	Confined	-	28.48	21.92	17.45
WBWD61A	Dakshin Dinajpur	Tapan	Laskarhat (Autina)	25.2204	88.578	Sub TW	100	Confined	15.36	13.5	9.73	10.88
WBWD102A	Dakshin Dinajpur	Kushmundi	Dikul	25.5016	88.4992	Mark-II TW	150	Confined	11.77	5.25	4.28	4.91
WBWD106	Dakshin Dinajpur	Balurghat	Balurghat	25.4053	88.7833	PZ	-	Confined	-	4.86	4.92	2.99
WBWD121	Dakshin Dinajpur	Gangarampur	Shankarpur	25.4193	88.6037	Mark-II TW	160	Confined	-	-	5.02	5.88
WBWD122	Dakshin Dinajpur	Kumarganj	Samjhia	25.5174	88.7622	Mark-II TW	160	Confined	5.25	6.08	5.67	6.04
WBWD123	Dakshin Dinajpur	Balurghat	Durlabhpur	25.512679	88.185932	Tube Well	-	Confined	8.47	6.24	5.73	4.38
WBWD127	Dakshin Dinajpur	Harirampur	Kismat Kasba	25.312	88.3145	Mark-II TW	150	Confined	19.7	14.86	10.78	11.59
WBWD23A	Uttar Dinajpur	Itahar	Itahar (Uttarpara)	25.4556	88.1799	Mark-II TW	200	Confined	9.89	7.71	2.34	3.26
WBWD29A	Uttar Dinajpur	Chopra	Chopra (Dalua)	26.3595	88.3067	Tube Well	18	Confined	5.28	5.3	5.08	5.46
WBWD40C	Uttar Dinajpur	Raiganj	Burakamat	25.6555	88.1005	Tube Well	60	Confined	3.2	4.27	3.66	3.33
WBWD65A	Uttar Dinajpur	Itahar	Baidara	25.3194	88.1636	Sub TW	58	Confined	-	9.6	9.38	12.58

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBWD66	Uttar Dinajpur	Itahar	Patirajpur	25.47011	88.24264	Mark-II TW	54.94	Confined	11.55	5.07	3.26	4.22
WBWD67	Uttar Dinajpur	Itahar	Durgapur	25.5309	88.1505	PZ	56.65	Confined	4.72	-	3.22	3.51
WBWD69 A	Uttar Dinajpur	Raiganj	Karnojora (Raiganj)	25.6561	88.1492	Mark-II TW	56.8	Confined	8.1	8.05	5.87	6.17
WBWD70 A	Uttar Dinajpur	Kaliaganj	Baghon (madanpur)	25.6436	88.2953	Mark-II TW	50.69	Confined	-	2.08	3.61	3.97
WBWD87	Uttar Dinajpur	Raiganj	Lahanda	25.6811	88.1133	Mark-II TW	137	Confined	5.67	5.43	4.24	4.58
WBWD88	Uttar Dinajpur	Raiganj	Lohagara	25.7079	88.1171	Mark-II TW	102	Confined	6.63	5.32	5.08	4.5
WBWD90	Uttar Dinajpur	Raiganj	Koiiadongi	25.7877	88.1893	Mark-II TW	76	Confined	6.78	5.72	5.24	5.22
WBWD91	Uttar Dinajpur	Raiganj MC	Subhasganj	25.6211	88.1084	Mark-II TW	91	Confined	5.67	4.95	4.24	4.74
WBWD93 A	Uttar Dinajpur	Kaliaganj	Kunore Hospitl	25.5789	88.2727	Mark-II TW	160	Confined	11.84	5.36	5.14	4.49
WBWD110	Uttar Dinajpur	Kaliaganj	Mustafa Nagar	25.5845	88.2917	Mark-II TW	160	Confined	9.73	6.58	4.53	5.13
WBWD111	Uttar Dinajpur	Kaliaganj	Dhankoil	25.6312	88.3508	Mark-II TW	160	Confined	5.35	2.91	2.05	2.88
WBWD112	Uttar Dinajpur	Hemtabad	Hemtabad	25.6789	88.2164	Mark-II TW	160	Confined	7.56	6.64	5.48	5.26
WBWD113	Uttar Dinajpur	Islampur	Islampur OW	26.2505	88.1773	OW	230	Confined	4	1.96	2.56	4.11
WBWD114	Uttar Dinajpur	Islampur	Gunjaria	26.2173	88.1324	Mark-II TW	160	Confined	6.3	3.62	4.05	1.09
WBWD117	Uttar Dinajpur	Karandighi	Rasakhowa	25.8476	88.0441	Mark-II TW	160	Confined	5.34	4.8	3.81	3.42
WBWD118	Uttar Dinajpur	Raiganj	Kamalabari (G.P Office)	25.6553	88.1562	Sub TW	67	Confined	7.93	6.56	-	5.87
WBWD28 A	Uttar Dinajpur	Islampur	Islampur Krishak Bazar	26.2505	88.1777	Sub TW	57	Confined	3.28	2.43	1.78	5.37
WBWD72	Uttar Dinajpur	Kaliaganj	Dhankal	25.630556	88.3502808	PZ	#N/A	Confined	-	5.13	2.37	2.75
WBWD124	Uttar Dinajpur	Kaliaganj	Tarangapur (Kaliaganj)	25.622	88.3159	Mark-II TW	180	Confined	6.85	11.96	3.75	5.67
WBWD125	Uttar Dinajpur	Goalpohkar I	Biprit	26.087	88.0793	Mark-II TW	200	Confined	4.59	3.56	2.88	3.33
WBWD126	Uttar Dinajpur	Goalpohkar I	Goagaon	25.9371	88.0458	Mark-II TW	200	Confined	4.41	3.28	2.3	2.94

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBMB73	Murshidabad	Beldanga-I	Mirzapur	24.408	88.069	Tube Well	45	Confined	5.37	2.5	3.5	3.85
WBMB79	Murshidabad	Murshidabad Jiaganj	Ranjitpara	24.165	88.314	Tube Well	23	Confined	5.98	6.25	6.4	6.95
WBMB92A	Murshidabad	Beldanga-II	Resjinagar (bikalnagar)	23.908	88.236	CGWB PZ	22	Confined	6.8	4.55	6.35	5.4
WBMB93	Murshidabad	Bharatpur-I	Kanchan Garia	23.885	88.137	Tube Well	40	Confined	-	12.05	14.25	14.85
WBMB96	Murshidabad	Kandi	Jibanti	24.086	88.17	Tube Well	40	Confined	14.9	13.9	13.85	14.3
WBMB156	Murshidabad	Kandi	Gobarhati	24.025	88.14	Tube Well	76.2	Confined	27	25.02	25.17	24.92
WBMB116	Murshidabad	Burwan	Talwan	23.965833	87.87722222	Bore Well	-	Confined	23.4	26.8	22.95	24.8
WBMB135	Murshidabad	Berhampore	Madhupur	24.026	88.178	PZ	47.4	Confined	17.63	-	-	-
WBMB05B	Murshidabad	Beldanga	RAMNAGAR PZ	23.80325	88.21931	PZ	60	Confined	6.33	4.53	4.65	4.75
WBMB09	Murshidabad	Bharatpur	BHARATPUR PZ-2	23.894198	88.080225	PZ	-	Confined	22.2	-	-	-
WBMB20A	Murshidabad	Domkol	DOMKOL	24.11767	88.5574	Mark-II TW	200	Confined	6.85	5.95	6.32	6.41
WBMB21A	Murshidabad	Tikorbaria	TIKORBARIA	24.12252	88.60251	Mark-II TW	200	Confined	5.61	3.65	4.75	4.95
WBMB24A	Murshidabad	Lalgola	LALGOLA	24.40996	88.25135	Sub TW	54.85	Confined	6.4	5.37	5.4	7.3
WBMB37A	Murshidabad	Nabagram	POLSANDA	24.18601	88.1531	Mark-II TW	200	Confined	32.15	30.4	31.8	30.9
WBMB38	Murshidabad	Barwan	KULI PZ	23.97544	87.9633	PZ	46.17	Confined	27.6	27.28	27.74	27.34
WBMB39	Murshidabad	Sutii I	AURANGABAD PZ	24.62484	88.0099	PZ	49.46	Confined	9.13	4.36	4.31	4.81
WBMB41C	Murshidabad	Bharatpurii	SALAR	23.77578	88.11031	Sub TW	40	Confined	26.4	20.45	19.75	20.5
WBMB45	Murshidabad	Raninagar I	GOAS PZ	24.170621	88.496035	PZ	-	Confined	7.45	-	-	-
WBMB61B	Murshidabad	Farakka	JORPUKURIA	24.75242	87.90135	Bore Well	45	Confined	5.5	2.99	4.05	4.51
WBMB72B	Murshidabad	Khargram	KHARGRAM	24.02905	87.98054	Sub TW	60	Confined	26.97	26.99	24.2	24.9
WBMB74	Murshidabad	Noada	PIPRAKHALI	23.9838	88.45608	Tube Well	37	Confined	7.2	6.1	6.14	6.5

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBMB78A	Murshidabad	Baharampur	PAKAMATI	24.01889	88.18762	Sub TW	22	Confined	11.25	6.85	7	6.98
WBMB80A	Murshidabad	Lalgola	PANDITPUR	24.43743	88.19326	PZ	35.05	Confined	11	4.15	7.71	9.8
WBMB83	Murshidabad	Raninagar-i	BEIKIBAGAN (hurshi)	24.26595	88.46261	Mark-II TW	160	Confined	7.6	5.08	5.2	5.5
WBMB86A	Murshidabad	Suti-i	RAMAKANTAPUR	24.55435	88.06565	Mark-II TW	200	Confined	6.6	3.5	3.9	4.3
WBMB89A	Murshidabad	Raghunathganj-ii	TEHGHARI-RAMPURA (Rajput Tegari)	24.45145	88.13583	Mark-II TW	22	Confined	8.5	6.15	5.9	6.53
WBMB97A	Murshidabad	Kandi	PURANDARPUR	23.99641	88.07282	Tube Well	49.5	Confined	27.75	24.16	23.93	23.55
WBMB98A	Murshidabad	Khargram	SHERPUR(Mother Danda)	24.13693	88.01089	Mark-II TW	40	Confined	26.92	22.73	23.68	24.73
WBMB99B	Murshidabad	Nabagram	PANCHGRAM(Nabagram)	24.19771	88.01017	Sub TW	42.67	Confined	26.65	25.6	26.55	26.85
WBMB100	Murshidabad	Nabagram	MAHADIPUR	24.42724	88.00994	Tube Well	50	Confined	14.05	11.36	12.16	13.12
WBMB101A	Murshidabad	Raghunathganj-i	Barala	24.42578	88.00781	Mark-II TW	40	Confined	-	20.38	20.05	20.3
WBMB102B	Murshidabad	Sagardighi	Manigram	24.34359	88.10844	Sub TW	65	Confined	26.3	26.98	29.1	30.45
WBMB103A	Murshidabad	Barwan	Andi	23.99018	87.91161	Mark-II TW	30.5	Confined	24.7	25.5	22.95	24.45
WBMB104	Murshidabad	Barwan	Narayanpur	23.88771	87.91471	PZ	47	Confined	22.99	22.17	22	22
WBMB120A	Murshidabad	Bharatpur-II	Gulhatia	23.82714	88.07619	Mark-II TW	200	Confined	19.1	19.33	19.6	19.8
WBMB125A	Murshidabad	Domkal	Bhagirathpur	24.08943	88.49394	Mark-II TW	200	Confined	-	6.65	7.25	7.04
WBMB132A	Murshidabad	Bharatpur - II	Salar	23.77506	88.10295	Mark-II TW	200	Confined	-	21.6	20.7	22.4
WBMB136A	Murshidabad	Kandi	Udaichand pur	24.08665	88.1803	Mark-II TW	200	Confined	-	13.53	14	14.2
WBMB142A	Murshidabad	Nabagram	Amatpur	24.16444	88.16862	Sub TW	55	Confined	-	25.6	22.98	24
WBMB148A	Murshidabad	Raghunathpur-I	Barala	24.42795	88.008	Sub TW	56	Confined	-	20.95	20.6	20.5

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBMB150	Murshidabad	Beldanga II	Saktipur	23.86202	88.19609	Mark-II TW	180	Confined	9.32	5.82	7.47	7.07
WBMB153	Murshidabad	Baharampur	Daulatabad	24.14279	88.3755	Mark-II TW	180	Confined	6.69	3.6	4.06	4.35
WBMB155	Murshidabad	Kandi	Ranagram	24.0158	88.09329	Mark-II TW	60.96	Confined	23.1	25.45	25.58	26.05
WBMB157	Murshidabad	Kandi	Gokarna	24.03422	88.11107	Mark-II TW	60.96	Confined	23.7	23.4	23.25	23.35
WBMB158	Murshidabad	Kandi	Manoharpur	23.97767	88.05699	Mark-II TW	54.86	Confined	23.15	22.55	23.03	22.95
WBMB160	Murshidabad	Bharatpur-II	Dakshin Khandagram	23.751	88.07423	Mark-II TW	54.86	Confined	21.5	24.96	24.7	25.48
WBMB163	Murshidabad	Beldanga-II	Bazar Sou	23.8758	88.18606	Mark-II TW	45	Confined	7.5	2.66	4.9	4.82
WBMB164	Murshidabad	Bharatpur-I	Lohadaha	23.88571	88.17705	Mark-II TW	49	Confined	9.77	8.78	9.8	9.73
WBMB165	Murshidabad	Nowada	Amtala	23.93014	88.45704	Mark-II TW	45	Confined	7.4	5.5	5.73	6.18
WBMB166A	Murshidabad	Bhagawangola-II	Kashipur	24.31753	88.32411	Mark-II TW	30	Confined	5.3	4.6	4.9	5.17
WBMB167	Murshidabad	Bahgawangola-II	Nasipur	24.30785	88.38197	Mark-II TW	30	Confined	8.1	5.77	4.77	6.02
WBMB168A	Murshidabad	Berhampur	Sialmara	24.10091	88.21833	Mark-II TW	200	Confined	11.1	12.45	9.47	9.7
WBMB169	Murshidabad	Bahgawangola-I	Kalokhali	24.29435	88.28343	Mark-II TW	45	Confined	5.9	5.52	4.31	4.37
WBMB170	Murshidabad	Raninagar-I	Islampur	24.15004	88.47083	Mark-II TW	200	Confined	7.9	4.35	6.25	6.45
WBMB171	Murshidabad	Raninagar-II	Nabipur	24.25313	88.60501	Tube Well	55	Confined	6.2	4.3	9.7	9.2
WBMB172	Murshidabad	Raninagar-II	Kaharpara	24.2832	88.55901	PZ	48	Confined	6.76	6.1	6.15	6.38
WBMB173	Murshidabad	Harirpura	Tartipur	24.08683	88.46424	Mark-II TW	200	Confined	9.4	6.9	7.05	7.25
WBMB174	Murshidabad	Hariharpur	Kholilabad	24.04518	88.45089	Mark-II TW	200	Confined	6.24	3.98	4.8	4.93
WBMB176	Murshidabad	Sagardighi	Sagar Dighi	24.29194	88.08993	Mark-II TW	200	Confined	24.5	28.54	28.4	29
WBMB17	Murshidabad	Hariharpur	Nasipur	24.03194	88.4125	Mark-II TW	200	Confined	6.67	4.93	5.7	5.87

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
8												
WBMB179A	Murshidabad	Jiaganj	Lalbagh	24.17013	88.28417	CYL TW	60	Confined	5.7	3.7	3.2	3.85
WBMB180	Murshidabad	Hariharpara	Baruipara	24.05386	88.3496	Mark-II TW	200	Confined	5.4	2.3	3.85	4.1
WBMB106A	Murshidabad	Khargram	Matai	24.13079	87.97531	Mark-II TW	200	Confined	26.9	25.35	24.98	24.52
WBMB107A	Murshidabad	Khargram	Parulia	24.08242	87.90774	Mark-II TW	200	Confined	23.6	22.26	22.95	22.44
WBMB109A	Murshidabad	Khargram	Jhilli	24.17844	87.96634	Mark-II TW	200	Confined	22.3	21.86	21.22	22.85
WBMB110A	Murshidabad	Kandi	Gantla	24.07988	88.08921	Mark-II TW	200	Confined	28.1	25.43	26.6	27.1
WBMB111A	Murshidabad	Nabagram	Gurah - Pashla	24.20063	88.06639	Mark-II TW	200	Confined	25.35	29.2	27.5	27.85
WBMB113	Murshidabad	Sagardighi	Megha - Sihara	24.27955	88.04394	PZ	49.4	Confined	25.1	24.6	27.08	24.6
WBMB114	Murshidabad	Burwan	Panchthupi	23.891255	87.991868	PZ	-	Confined	21.19	-	-	-
WBMB115A	Murshidabad	Burwan	Kurunn arun	23.87682	87.91053	Sub TW	60	Confined	25.01	25.55	25.65	25.9
WBMB119	Murshidabad	Bharatpur-II	Tenya	23.82808	88.152574	PZ	-	Confined	14.1	-	-	-
WBMB122	Murshidabad	Harihar-para	Swaruppur	24.0647	88.48625	PZ	49.9	Confined	9.35	6.6	7.9	10.1
WBMB123	Murshidabad	Nowada	Amtala	23.937847	88.457553	PZ	-	Confined	7.5	5.02	5.96	6.11
WBMB126	Murshidabad	Domkal	Dubapara	24.008	88.518	Tube Well	49.4	Confined	7.61	4.7	4.6	4.75
WBMB127	Murshidabad	Beldanga - I	Bhabta	23.991107	88.24067	PZ	-	Confined	-	5.29	5.53	5.63
WBMB128A	Murshidabad	Beldanga - II	Kashipur	23.85522	88.30119	Mark-II TW	200	Confined	7.78	4.85	5.25	5.05
WBMB130	Murshidabad	Bharatpur - II	Simulia	23.764518	88.048741	PZ	-	Confined	25.08	-	-	-
WBMB131A	Murshidabad	Bharatpur - II	Sonarundi	23.72872	88.06191	Mark-II TW	200	Confined	20.65	20.8	21.3	21.5
WBMB133	Murshidabad	Kandi	Rasorah	23.93257	88.05107	PZ	46.2	Confined	27.38	23.92	25	25.25

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBMB134	Murshidabad	Kandi	Purandarpur	23.99633	88.07288	PZ	48.4	Confined	28.17	22.48	23.7	22.65
WBMB138A	Murshidabad	Beldanga - II	Manikyahar	23.823207	88.2078	Mark-II TW	-	Confined	8.2	6.14	7.85	7.6
WBMB140	Murshidabad	Lalgola	Pustampur	24.430039	88.215206	PZ	-	Confined	-	4.6	5.91	7.55
WBMB141A	Murshidabad	Domkol	Domkal	24.12195	88.5514	Mark-II TW	200	Confined	6.8	5.6	6.4	6.42
WBMB143	Murshidabad	Nabagram	Polsonda	24.182229	88.150987	PZ	-	Confined	27.07	-	-	-
WBMB144	Murshidabad	Berhampur (Sadar)	Daulatabad	24.142222	88.430277	PZ	-	Confined	6.17	-	4.55	4.55
WBMB145A	Murshidabad	Berhampur (Sadar)	Chhaigari	24.15035	88.41629	Mark-II TW	200	Confined	6.98	5.77	5.87	5.95
WBMB146	Murshidabad	Nabagram	Daffarpur	24.129097	88.205359	PZ	-	Confined	15.3	14.15	11.05	11.08
WBMB147A	Murshidabad	Suti -I	Harowa	24.52083	87.98252	Mark-II TW	200	Confined	12.23	10.41	11.67	11.75
WBMB149	Murshidabad	Berhampur	Nagrajol	24.083866	88.31579	PZ	-	Confined	5.67	-	-	-
WBNT03A	N-24 Parganas	Basirhat I	Basirhat	22.68131	88.83144	PZ	46.63	Confined	9.6	8.7	8.6	-
WBNT08A	N-24 Parganas	Bagda	Helencha P.s.	23.19	88.86	Tube Well	35	Confined	4.9	-	-	-
WBNT08B	N-24 Parganas	Bagdah	Helencha P.s.	23.18598	88.85586	PZ	35	Confined	-	4.95	4.5	-
WBNT13A	N-24 Parganas	Sandeshkhali I	Dakshin Akartala	22.44767	88.85283	Mark-II TW	176.45	Confined	10.52	1.06	11.83	11.95
WBNT14A	N-24 Parganas	Sandeshkhali II	Sandeshkhali.f	22.3574	88.87415	Mark-II TW	160	Confined	1.84	2.46	3.03	4.5
WBNT16A	N-24 Parganas	Deganga	Berachampa	22.69345	88.67781	Sub TW	160	Confined	7.38	6.58	5.23	6.48
WBNT18	N-24 Parganas	Baduria	Baduria	22.726	88.788	Tube Well	65	Confined	5.79	3.78	-	-
WBNT19	N-24 Parganas	Baduria	Jadurhati	22.73497	88.73652	Mark-II TW	70.71	Confined	7.04	4.38	7.23	-
WBNT22A	N-24 Parganas	Gaighata	Sabirpur More	22.95437	88.84219	Tube Well	42.36	Confined	5.9	4.64	5.22	3.9
WBNT26	N-24 Parganas	Minakhan	Minakhan Battala	22.50635	88.73393	Mark-II TW	137	Confined	6.18	4.13	6.63	7.5

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
A												
WBNT28	N-24 Parganas	Habra I	Habra	22.85227	88.66647	Mark-II TW	38.5	Confined	7.16	5.95	5.62	5.45
WBNT29	N-24 Parganas	Barasat I	Bokanda	22.70033	88.58275	Tube Well	42.16	Confined	7.27	5.69	7.26	7.09
WBNT31 B	N-24 Parganas	Basirhat I	Raharhati	22.67876	88.80027	Sub TW	90	Confined	9.02	7.69	7.96	8.23
WBNT32	N-24 Parganas	Sandeshkhali	Bayermary	22.4601	88.8514	Mark-II TW	174.46	Confined	10.51	8.11	12.11	12.69
WBNT35	N-24 Parganas	Hasnabad	Bhebia	22.553	88.821	Tube Well	270	Confined	6.5	-	-	-
WBNT36	N-24 Parganas	Hingalganj	Bankra	22.44102	88.98334	Mark-II TW	204.96	Confined	15.18	14.06	12.15	16.02
WBNT39	N-24 Parganas	Haroa	Haroa	22.6046	88.68207	Mark-II TW	120	Confined	6.7	4.73	4.67	-
WBNT42 B	N-24 Parganas	Habra-II	Kochua Pz	22.836	88.612	PZ	54	Confined	7.48	8	-	6.85
WBNT43 A	N-24 Parganas	Barasat I	Duttapukur	22.76185	88.54563	Tube Well	150	Confined	10.5	10.8	6.28	10.2
WBNT44 A	N-24 Parganas	Hingalganj	13 No. Sandeler Beel	22.418	88.968	Tube Well	-	Confined	12.2	5.08	12.76	10
WBNT47 A	N-24 Parganas	Barasat-II	Bagaband	22.669	88.531	Tube Well	-	Confined	7.35	8.23	3.17	5.05
WBNT48 C	N-24 Parganas	Basirhat I	Ghusighata	22.52206	88.68866	Tube Well	60	Confined	3.21	2.11	3.9	4.15
WBNT49 A	N-24 Parganas	Habra I	Berghoom Pz	22.86825	88.70914	Mark-II TW	200	Confined	5.39	2.7	3.01	3.25
WBNT52	N-24 Parganas	Gaighata	Chandpara Pz	22.97619	88.78344	PZ	34	Confined	5.56	7.12	3.16	3.2
WBNT56	N-24 Parganas	Barasat-I	Baidyapur	22.698	88.598	Tube Well	35	Confined	-	6.48	-	-
WBNT57	N-24 Parganas	Barasat II	Aminpur Bazar	22.67181	88.57943	Tube Well	25	Confined	4.93	2.7	4.89	-
WBNT58	N-24 Parganas	Krishnachandrapur	Bagdah	23.15222	88.829170	Tube Well	150	Confined	5.37	2.93	-	-
WBNT59	N-24 Parganas	Bongaon	Gobrapur	23.129	88.813	Tube Well	200	Confined	-	4.92	-	-
WBNT60 A	N-24 Parganas	Rajarhat	Bishnupur Ghoshpara	22.61674	88.50673	Sub TW	160	Confined	9.9	-	8.21	3.6
WBNT61	N-24 Parganas	Haroa	Khalisadi More	22.60065	88.63219	PZ	150	Confined	8.7	6.47	5.08	6.8
WBNT62	N-24 Parganas	Barrackpur I	Bidyadharpur	22.83864	88.39493	PZ	186	Confined	14.64	14.58	11.98	14
WBNT63	N-24 Parganas	Baduria	Chatra,dantar Khana More	22.841	88.768	Tube Well	20	Confined	-	4.29	3.21	-

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBNT64A	N-24 Parganas	Swarupnagar	Swarupnagar	22.81768	88.85753	Tube Well	45	Confined	6.1	3.98	5.06	4.5
WBNT65	N-24 Parganas	Swarupnagar	Tentulia	22.770001	88.860006	Tube Well	-	Confined	9.41	5.73	8.28	4.93
WBNT66	N-24 Parganas	Basirhat II	Kochua	22.6801	88.7241	Tube Well	35	Confined	4.54	4.95	4.91	4.2
WBNT69	N-24 Parganas	Habra II	Guma	22.80353	88.59627	Tube Well	200	Confined	11.3	8.28	7.54	7
WBNT71A	N-24 Parganas	Andanga	Santoshpur	22.77389	88.497642	Tube Well	0	Confined	10.35	10.35	7.71	11.85
WBNT72	N-24 Parganas	Barrackpur II	Ichapur Nababga	22.79878	88.35781	Tube Well	60	Confined	11.64	13.62	10.6	12.74
WBNT73	N-24 Parganas	Barrackpur I	Kanchrapara Ow1	22.94425	88.45209	PZ	152	Confined	2.48	1.47	2.08	3.56
WBNT79	N-24 Parganas	Bongaon	Nahata OW	22.99607	88.70809	PZ	206	Confined	-	0.95	3.32	-
WBNT81	N-24 Parganas	Gaighata	Berigopalpur CGWB EW	22.89709	88.87873	PZ	103	Confined	12	2.88	7.12	11.04
WBNT86	N-24 Parganas	BarrackpurI	Panpur	22.86005	88.42888	Sub TW	57.44	Confined	13.63	17.99	11.13	12.75
WBNT88A	N-24 Parganas	Barrackpur-I	Kuliagarh	22.880833	88.458852	Tube Well	-	Confined	11.98	15.26	9.24	10.88
WBNT89A	N-24 Parganas	BarrackpurI	Halisahar (Nanha)	22.91737	88.44083	Mark-II TW	200	Confined	14.54	-	13.29	-
WBNT91A	N-24 Parganas	Habra I	Raotara	22.77717	88.59186	Sub TW	70	Confined	11.15	9.61	7.41	9.45
WBNT92	N-24 Parganas	Habra II	Sabdalpur (Iswarighacha)	22.84526	88.56542	PZ	117.95	Confined	11.2	8.3	8.91	9
WBNT93	N-24 Parganas	Habra II	Nurpur	22.90376	88.57623	PZ	24.98	Confined	6.31	6.89	5.51	5.6
WBNT96A	N-24 Parganas	Rajarhat	Chandpur(Atbele)	22.59786	88.5327	Mark-II TW	200	Confined	6.86	0.72	4.9	-
WBNT97A	N-24 Parganas	Deganga	Berachampa	22.68478	88.68691	Tube Well	60	Confined	7	-	5.28	5.5
WBNT98A	N-24 Parganas	Deganga	Amulia (Bargachia)	22.74378	88.65575	Mark-II TW	160	Confined	7.69	5.5	6.82	6.76
WBNT99B	N-24 Parganas	BasirhatII	Srinagar Matia	22.68144	88.77865	Mark-II TW	160	Confined	7.23	3.88	6.29	6.3
WBNT100	N-24 Parganas	Basirhat	Taki	22.58637	88.92075	Tube Well	40	Confined	3.42	2.58	2.95	3.55
WBNT101B	N-24 Parganas	Gaighata	Thakurnagar	22.928	88.775	Tube Well	72.89	Confined	5.2	3.5	3.69	3.18
WBNT10	N-24 Parganas	Bagdah	Netaji Palli (Nama-	23.19907	88.91658	Mark-II TW	100	Confined	9.81	4.31	3.08	-

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
2			Baghni)									
WBNT103A	N-24 Parganas	Gaighata	Dharampur	22.68138	88.831666	Tube Well		Confined	9.85	3.64	-	4.25
WBNT104	N-24 Parganas	Amdanga	Rafipur	22.819	88.514	PZ	40.24	Confined	13.05	14.34	11.37	10.74
WBNT105A	N-24 Parganas	Amdanga	Moricha (Gadamara Hat)	22.90141	88.53951	Sub TW	100	Confined	9.59	7.75	3.66	14.25
WBNT106A	N-24 Parganas	Amdanga	Sirasini More (Jirat Market)	22.85972	88.5379	Mark-II TW	160	Confined	13.28	15.3	11.14	12.9
WBNT108	N-24 Parganas	Baduria	Ramchandrapur	22.79315	88.83421	Mark-II TW	40	Confined	6.39	2.31	3.89	4.6
WBNT110	N-24 Parganas	Rajarhat	Gopalpur (Bablatala - Uda	22.637222	88.4550018	Tube Well	-	Confined	15.21	9.7	6.85	12.2
WBNT111	N-24 Parganas	Barasat-I	Kadambagachi	22.708611	88.5416641	Tube Well	-	Confined	12.45	12.2	12.16	15.63
WBNT109A	N-24 Parganas	Bongaon	Palla	23.06888	88.7412	Sub TW	100	Confined	5.18	6.5	5.8	8.6
WBNT112	N-24 Parganas	Habra II	Bathania-Baruipara	22.79558	88.55986	Mark-II TW	162	Confined	12.25	14.27	-	11.35
WBNT113	N-24 Parganas	Gaighata	Gobardanga	22.87342	88.75056	CYL TW	84	Confined	5.55	3.15	4.61	2.85
WBNT114	N-24 Parganas	Baduria	Chandipur	22.82118	88.79247	Mark-II TW	168	Confined	5.96	3.05	3.52	3.3
WBNT115	N-24 Parganas	Barasat II	Digberia	22.69369	88.49192	Mark-II TW	168	Confined	11.25	10.87	7.71	8.05
WBNT116	N-24 Parganas	Habra II	Sendanga	22.88498	88.60791	CYL TW	198	Confined	5.99	4.69	3.46	3.69
WBNT117	N-24 Parganas	Gaighata	Rajapur	22.961945	88.7338867	Tube Well	-	Confined	3.39	2.39	4.05	2
WBNT118A	N-24 Parganas	Bongaon	Jayantipur Bazar (Petrapole)	23.03813	88.87348	Sub TW	80	Confined	10.55	6.05	5	5.99
WBNT119	N-24 Parganas	Bongaon	Bongaon (Kuthibari)	23.05344	88.83186	Mark-II TW	156	Confined	4.72	3.48	4.6	6.4
WBNT120A	N-24 Parganas	Bagdah	Boyra	23.20363	88.96331	Mark-II TW	160	Confined	6.94	4.37	3.94	-
WBNT121A	N-24 Parganas	Habra II	Tengra	22.80545	88.53538	Sub TW	100	Confined	13.43	17.99	11.95	12.55

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBNT124	N-24 Parganas	Amdanga	Rangmahal	22.815	88.525	Tube Well	80	Confined	-	12.55	8.88	11.7
WBNT125	N-24 Parganas	Habra I	Pratibha	22.78817	88.64352	PZ	112.49	Confined	7.65	6.96	5.21	5.78
WBNT126	N-24 Parganas	Habra-I	Banipur	22.822222	88.6555557	Tube Well	-	Confined	7.48	8.63	13.46	5.64
WBNT127	N-24 Parganas	Habra II	Suria	22.85409	88.54966	Mark-II TW	210	Confined	15.3	11.25	12.93	8.9
WBNT128A	N-24 Parganas	Bongaon	Chauberia	22.978037	88.671218	Tube Well	0	Confined	5.89	5.39	5.36	5.48
WBNT129	N-24 Parganas	Gaighata	Ramchandrapur	22.93104	88.81433	Mark-II TW	50	Confined	3.94	4.14	2.8	2.2
WBNT130A	N-24 Parganas	Gaighata	Sutia	22.91113	88.82342	Tube Well	60	Confined	-	3.3	3.78	8.1
WBNT131	N-24 Parganas	Bongaon	Kalupur Dakshinpara	23.01052	88.8062	Mark-II TW	45	Confined	3.22	1.86	2.94	-
WBNT132	N-24 Parganas	Bongaon	Kansona	23.06812	88.72354	Mark-II TW	70	Confined	4.95	4.48	4.96	10.89
WBNT133	N-24 Parganas	Bongaon	Gopalnagar	23.06241	88.75491	Mark-II TW	50	Confined	4.35	3.48	3.63	10.82
WBNT134	N-24 Parganas	Bongaon	Bhandarkola	23.01311	88.7226	Mark-II TW	70	Confined	-	4.25	-	4.65
WBNT135	N-24 Parganas	Bongaon	Kundipur	23.14461	88.8205	Mark-II TW	70	Confined	5.87	4.95	4.82	-
WBNT136A	N-24 Parganas	Bagdah	Helencha	23.18824	88.85901	Mark-II TW	220	Confined	-	3.34	3.93	-
WBNT137A	N-24 Parganas	Bongaon	Dharampukur	23.08503	88.81507	Mark-II TW	50	Confined	4.87	3.95	3.22	-
WBNT139	N-24 Parganas	Haroa	Khas Balanda	22.59045	88.68835	CGWB EW	208	Confined	1.1	-	3.69	1.7
WBNT140	N-24 Parganas	Barasat II	Pakdah	22.67903	88.57367	CGWB OW	180	Confined	6.67	-	6.7	-
WBNT142B	N-24 Parganas	Barasat I	Sadarpur	22.74846	88.44733	Mark-II TW	160	Confined	12.65	-	6.73	12.3
WBNT145	N-24 Parganas	Barasat	Barasat	22.71547	88.49232	Tube Well	60	Confined	8.33	7.02	-	-
WBNT146	N-24 Parganas	Deganga I	Mirja nagar	22.70704	88.68931	Tube Well	60	Confined	8.43	4.81	6.58	-
WBNT14	N-24 Parganas	Basirhat-II	Jafarpur	22.67361	88.793333	PZ	-	Confined	6.41	-	-	-

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
7				1	33							
WBNT148	N-24 Parganas	Bashirhat II	Jafarpur	22.67367	88.79328	IEW	110	Confined	-	3.09	-	5.09
WBNT20B	N-24 Parganas	Gaighata	Gaighata	22.933526	88.734831	Mark-II TW	90	Confined	6.57	4.88	-	4.75
WBNT56B	N-24 Parganas	Barasat II	Baidyapur	22.698662	88.59461	Mark-II TW	90	Confined	8.88	6.48	8.3	-
WBNT163	N-24 Parganas	Hingalganj	Hingalganj	22.468157	88.993478	Mark-II TW	90	Confined	5.02	1.26	3.96	-
WBNT149	N-24 Parganas	Bashirhat II	Jafarpur	22.67365	88.79329	DEW	162	Confined	-	4.68	4.84	5.58
WBNT150	N-24 Parganas	Minakhan	Nimichi	22.54595	88.80003	Mark-II TW	160	Confined	16.08	9.98	13.4	14.64
WBNT151	N-24 Parganas	Barrackpur	Bidhyadharpur	22.83488	88.40942	Mark-II TW	160	Confined	13.48	14.22	10.83	12.5
WBNT153	N-24 Parganas	Sandeshkhali I	Dakshin Ankratala	22.49815	88.83714	Mark-II TW	160	Confined	4.72	4.57	9.43	11.22
WBNT154	N-24 Parganas	Barasat I	Bonkunda	22.70181	88.59092	DEW	284	Confined	-	5.52	5.29	-
WBNT155	N-24 Parganas	Barasat I	Bonkunda	22.70181	88.59087	IEW	166	Confined	-	0.12	-	-
WBNT157	N-24 Parganas	Barasat II	Chowmoha	22.64928	88.55022	Mark-II TW	160	Confined	5.73	4.75	3.65	-
WBNT159A	N-24 Parganas	Bagdah	Bagdah	23.207819	88.887254	Sub TW	100	Confined	4.67	4.79	4.32	-
WBNT160A	N-24 Parganas	Hasnabad	Rajapur-Uttarpara	22.59123	88.8418	Mark-II TW	160	Confined	2.06	1.05	2.97	6.65
WBNT161	N-24 Parganas	Baduria	Baduria CGWB Pz	22.735946	88.784075	PZ	-	Confined	-	-	6.23	-
WBNT162	N-24 Parganas	Baduria	Baduria Cgwb Pz	22.736	88.784	PZ	-	Confined	5.65	-	-	-
WBBB03A	Birbhum	Nanur	Kirnahar	23.76726	87.868047	Sub TW	-	Confined	11.9	-	-	-
WBBB22B	Birbhum	Mayureshwar II	Kotasur	23.95805	87.74496	Mark-II TW	22.75	Confined	13.78	12.45	10.07	12.36
WBBB29A	Birbhum	Mayureshwar-I	Mollarpur	24.075	87.71743	Sub TW	21.34	Confined	-	10.83	8.74	11.62
WBBB33	Birbhum	Bolpur	Bahari	23.64727	87.76603	Sub TW	58.11	Confined	28.47	22.89	-	29.62

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
A												
WBBB40	Birbhum	Md.bazar	Duecha Pz	23.03692	87.59056	PZ	14.52	Confined	4.85	-	-	-
WBBB43	Birbhum	Rampurhat II	Tarapur Pz	24.10265	87.80953	PZ	42.65	Confined	18.27	23.7	23.77	23.73
WBBB44	Birbhum	Bolpur	Sriniketan	23.668611	87.66	PZ	-	Confined	9.55	-	-	13.43
WBBB45 A	Birbhum	Nanoor	Nanoor	23.701769	87.871235	Sub TW	-	Confined	25.47	19.37	26.09	28.05
WBBB88 A	Birbhum	Rampurhat I	Nischintapur pz	24.18051	87.76762	Sub TW	70	Confined	14.38	14.55	13.05	14.07
WBBB89	Birbhum	Murarai I	Chatra	24.37564	87.85117	PZ	48.83	Confined	25.48	25.57	21.73	25.78
WBBB91	Birbhum	Nalhati I	Nidhia	24.24852	88.01119	PZ	75.98	Confined	-	20.91	20	20.63
WBBB93 A	Birbhum	Rampurhat II	Chandpara	24.18712	87.90742	CGWB PZ	57.51	Confined	23.07	20.44	20.54	22.07
WBBB100	Birbhum	Dubrajpur	Gopalpur	23.75247	87.40892	Mark-II TW	30	Confined	7.98	6.46	7.38	6.77
WBBB102	Birbhum	Sainthia	Ahmedpur	23.83084	87.68725	Mark-II TW	52.44	Confined	17.5	14.87	16.75	-
WBBB103	Birbhum	Bolpur	Biswabharti, Shantiniketan	23.6802	87.68867	PZ	50	Confined	10.29	2.37	3.43	5.68
WBBB104	Birbhum	Bolpur	Biswabharti, Shantiniketan	23.68049	87.68849	PZ	50	Confined	10.14	3.25	3.52	3.43
WBBB105	Birbhum	Bolpur	Biswabharti, Shantiniketan	23.68039	87.6891	PZ	67.01	Confined	10.65	3.35	2.37	6.44
WBBB106	Birbhum	Rampurhat II	Margram	24.15198	87.83485	CGWB OW	225.3	Confined	19.27	20.7	20.87	20.94
WBBB108	Birbhum	Illambazar	Ramnagar	23.64	87.6108333	PZ	-	Confined	18.55	-	-	10.28
WBBB111	Birbhum	Sainthia	Gargaria	23.799444	87.6027778	PZ	-	Confined	11.17	-	-	-
WBBB114	Birbhum	Illambazar	Illambazar	23.624167	87.5388889	PZ	-	Confined	24.09	-	-	-
WBBB115	Birbhum	Sainthia	Paikpara	23.854167	87.6969444	PZ	-	Confined	15.2	-	-	-
WBBB120	Birbhum	Rampurhat-I	Rampurhat	24.198889	87.7975	PZ	-	Confined	18.52	-	-	-
WBBB122	Birbhum	Mayureshwar-II	Mayureshwar	23.980556	87.7616667	PZ	39.4	Confined	18.35	17.58	19.25	-

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBBB125	Birbhum	Nalhati I	Kurumgram	24.24598	87.87329	PZ	49.4	Confined	24.58	22.84	-	24.52
WBBB126	Birbhum	Murarai-I	Murarai	24.444778	87.84916667	PZ	48.9	Confined	25.17	-	-	-
WBBB129	Birbhum	Illambazar	Ruppur PZ	23.668056	87.60916667	PZ	58.11	Confined	-	11.66	12.06	11.733
WBBB131 A	Birbhum	Mayureswar II	Kotasur	23.9559	87.7405	Mark-II TW	180	Confined	13.72	12.09	13.25	11.82
WBBB132	Birbhum	Bolpur	Bergram	23.73174	87.62783	PZ	30.54	Confined	-	-	11.79	11.53
WBBB133	Birbhum	Illambazar	Kustigiri	23.75937	87.5359	PZ	50.12	Confined	-	-	13.41	14.563
WBBB138	Birbhum	Nalhati-I	Shardha	24.242222	87.90166667	PZ	27.18	Confined	24.68	23.2	-	-
WBBB143 A	Birbhum	Suri II	Imadpur	23.80958	87.58503	Mark-II TW	45.72	Confined	14.75	15.07	15.13	14.68
WBBB147	Birbhum	Nanoor	Kakunia	23.60586	87.92943	Tube Well	36.58	Confined	-	19.57	18.73	19.06
WBBB152	Birbhum	Sainthia	Paikpara	23.85422	87.69708	Tube Well	30.48	Confined	17.05	11.77	12.17	17.96
WBBB189 A	Birbhum	Sriniketan	Mahidapur	23.65001	87.64061	Sub TW	70	Confined	13.99	7.89	8.07	8.51
WBBB201	Birbhum	Nanoor	Gopdihi	23.63872	87.89159	Tube Well	36.58	Confined	22.25	10.85	18.35	20.26
WBBB16 B	Birbhum	Murarai	Mitrapur	24.41998	87.961905	Tube Well	180	Confined	-	-	16.44	2.75
WBBB202	Birbhum	Illumbazar	Golte	23.6664	87.6086	Tube Well	-	Confined	9.79	11.83	8.57	9.43
WBBB97 A	Birbhum	Mayureswar II	Talwan	24.061574	87.77802	Tube Well	180	Confined	19.7	22.47	-	-
WBBB99	Birbhum	Sainthia	Narayanghati	23.9525	87.72805556	Tube Well	21.34	Confined	9.14	7.27	9.3	8.95
WBST01D	S- 24 Parganas	Kakdwip	Dholerhat	21.8758	88.1858	Tube Well	-	Confined	-	16.8	16.38	-
WBST03B	S- 24 Parganas	Namkhana	Namkhana	21.78684	88.22823	Mark-II TW	200	Confined	13.16	15.1	14.18	10.57
WBST04A	S- 24 Parganas	Baruipur	Baruipur	22.35948	88.43365	Mark-II TW	200	Confined	11.35	3.23	11.01	11.87
WBST05A	S- 24 Parganas	Mathurapur	Raidighi	21.9954	88.44283	Mark-II TW	293	Confined	13.04	10.5	8.04	13.54
WBST09A	S- 24 Parganas	Kulpi	Kulpi	22.08294	88.2454	PZ	136.52	Confined	12.4	10.28	14.76	13.71
WBST11	S- 24 Parganas	Bhangar	Bhangar	22.51498	88.61061	Tube Well	60	Confined	4.86	5.5	4.28	5.95
WBST15A	S- 24 Parganas	Joynagar	Jaynagar	22.17324	88.4186	Tube Well	50	Confined	-	12.1	11.17	-
WBST17	S- 24 Parganas	Baruipur	Ramdhari	22.344	88.571	Tube Well	243.84	Confined	6.03	5.55	4.79	8.79

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBST19A	S- 24 Parganas	Joynagar	Dhoserhat	22.25274	88.53965	Tube Well	55	Confined	16.23	7.1	2.6	14.96
WBST20A	S- 24 Parganas	Kultali	Ambikanagar	22.13713	88.59768	Tube Well	55	Confined	7.41	13.13	7.46	10.81
WBST21	S- 24 Parganas	Joynagar I	Dakshin Barasat	22.22645	88.44705	Tube Well	304.8	Confined	10.63	12.58	8.62	12.8
WBST22	S- 24 Parganas	Mathurapur-I	Radhakantapur	22.053611	88.42833333	Tube Well	350.52	Confined	-	14.1	13.85	13.85
WBST30	S- 24 Parganas	Bhangar	Kashipur	22.5668	88.59305	Tube Well	91	Confined	3.81	5.85	4.77	6.8
WBST32A	S- 24 Parganas	Sonarpur	Langalberia	22.38521	88.4045	Tube Well	245	Confined	12.81	13.73	12.79	12.38
WBST38	S- 24 Parganas	Baruipur	Ramnagar	22.33604	88.47715	Tube Well	243.4	Confined	9.08	12.55	8.39	-
WBST42A	S- 24 Parganas	Bhangar	Katalia	22.52203	88.36111	Tube Well	50	Confined	8.55	4.88	4.02	6.26
WBST43	S- 24 Parganas	Bhangar	Chandipur	22.51387	88.64707	Tube Well	20.11	Confined	1.73	3.77	4.15	5.69
WBST44A	S- 24 Parganas	Canning	Athaarobanki	22.34436	88.75825	Mark-II TW	200	Confined	7.54	6.55	3.39	8.18
WBST47A	S- 24 Parganas	Bhangar	Bhojerhat	22.50416	88.53959	Tube Well	45.72	Confined	2.09	1.15	0.73	1.01
WBST53B	S- 24 Parganas	Sonarpur	Srirampur Tw	22.39329	88.40359	Tube Well	342	Confined	9.06	14.4	12.72	12.98
WBST55A	S- 24 Parganas	Sonarpur	Rajpur	22.42683	88.41246	Tube Well	76	Confined	16.28	15.8	10.21	11.87
WBST57B	S- 24 Parganas	Sonarpur	Noabad(8/97)	22.46781	88.44636	Tube Well	255	Confined	16.36	11.5	10	12.07
WBST60	S- 24 Parganas	Baruipur	Dhopagachi	22.36857	88.40058	Tube Well	305	Confined	9.42	13.59	12.46	12.29
WBST61A	S- 24 Parganas	Joynagar	Burarghat	22.16574	88.42829	Mark-II TW	200	Confined	10.4	13.69	11.85	11.72
WBST66A	S- 24 Parganas	Mathurapur I	Mathurapur (Ramnagar)	22.12151	88.38662	Tube Well	305	Confined	13.97	13.7	12.92	12.83
WBST67	S- 24 Parganas	Mandirbazar	Mandir Bazar	22.15268	88.32417	Tube Well	320	Confined	14.5	13.89	13.54	13.3
WBST73A	S- 24 Parganas	Mandirbazar	Anchna Pz-ii	22.14147	88.31957	Mark-II TW	374	Confined	16.18	11.21	13.2	13.38
WBST83	S- 24 Parganas	Basanti	Sonakhali.c	22.2183	88.70373	Tube Well	351.36	Confined	12.49	9.72	7.87	14.29
WBST85A	S- 24 Parganas	Basanti	Panikhali Bazar	22.27864	88.74593	Tube Well	289.56	Confined	7.68	6.3	5.49	8.62
WBST88	S- 24 Parganas	Kultali	Jamtala Hat	22.10739	88.57465	Tube Well	381.09	Confined	19.38	12.35	11.08	20.02
WBST89	S- 24 Parganas	Namkhana	Budhakhali ashram More	21.83944	88.21528	Tube Well	256.09	Confined	15.75	15.6	15.34	15.03
WBST90A	S- 24 Parganas	Sagar	Kochuberia rc jetty ghat	21.85976	88.14249	Tube Well	55	Confined	14.28	17.04	18.7	19.44
WBST91	S- 24 Parganas	Sagar	Digambari (rudranagar)	21.72914	88.10524	Tube Well	259.15	Confined	12.8	17.5	14.23	13.68

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBST92A	S- 24 Parganas	Gosaba	Jotirampur Ferryghat	22.16566	88.79909	Tube Well	250	Confined	7.74	5.1	-	2.28
WBST94	S- 24 Parganas	Pathar pratima	Gurudaspur	21.927	88.368	Tube Well	259.15	Confined	9.31	8.4	14.38	15.24
WBST98	S- 24 Parganas	Namkhana	Rajnagar	21.67148	88.25175	Tube Well	385.85	Confined	10.75	12.1	15.6	11.21
WBST99	S- 24 Parganas	Namkhana	Bakkhali	21.56087	88.26676	Tube Well	390	Confined	9.1	11.9	10.81	9.95
WBST175	S- 24 Parganas	Canning-II	Rampadha More	22.321	88.632	Mark-II TW	-	Confined	-	13.15	4.97	9.61
WBST46	S- 24 Parganas	Bhangar-I	Nalmuri	22.498	88.601	Tube Well	299	Confined	3.71	7.06	3.58	5.41
WBST65A	S- 24 Parganas	Canning-II	P-narayanpur	22.415833	88.535	Tube Well	-	Confined	-	12.06	9.84	11.91
WBST104	S- 24 Parganas	Budge Budge	Pujali	22.46837	88.15568	PZ	209.69	Confined	16.96	18.2	17.42	16.87
WBST105	S- 24 Parganas	Budge Budge	Dongaria	22.39739	88.16986	PZ	95.16	Confined	6.27	6.2	5.72	8.4
WBST106	S- 24 Parganas	Baruipur	Surjapur-Hut	22.30051	88.4643	Tube Well	37	Confined	4.28	2.98	2.31	9.8
WBST108	S- 24 Parganas	Bishnupur I	Amtala	22.36571	88.27209	Tube Well	50	Confined	9.72	17.1	15.22	14.92
WBST109	S- 24 Parganas	Diamond Harbour I	Uttar Hajipur (Diamond Harbour)	22.301	88.464	Tube Well	-	Confined	18.88	12.3	11.74	16.78
WBST112	S- 24 Parganas	Bhangar II	Kulti	22.5211	88.46081	CYL TW	40	Confined	6.91	11.92	10.15	11.64
WBST113	S- 24 Parganas	Canning-II	Akratala	22.49	88.666	Tube Well	18	Confined	3.54	4.5	-	5.72
WBST114	S- 24 Parganas	Canning-II	Jaikhali	22.444	88.701	Tube Well	18	Confined	7.17	6.5	4.63	6.09
WBST115 A	S- 24 Parganas	Basanti	Purba Bhangankhali	22.28258	88.68831	Tube Well	55	Confined	-	6.14	4.22	9.74
WBST116	S- 24 Parganas	Basanti	Narayantala	22.26406	88.68588	CYL TW	48	Confined	9.31	7.39	5.32	11.27
WBST117	S- 24 Parganas	Sonarpur	Kadalia	22.41028	88.42028	Tube Well	24	Confined	-	14.5	13.42	9.53
WBST118	S- 24 Parganas	Sonarpur	Gobindapur	22.38944	88.41663	Tube Well	24	Confined	9	11.5	12.12	12.88
WBST120	S- 24 Parganas	Canning I	Nalia Khali	22.24112	88.60568	Mark-II TW	24	Confined	-	6.57	8.03	19.77
WBST121	S- 24 Parganas	Canning I	Paranikkheko	22.27966	88.6368	Mark-II TW	24	Confined	-	6.94	4.9	12.29
WBST122	S- 24 Parganas	Canning I	Canning	22.313889	88.660277 78	CYL TW	-	Confined	7.51	6.5	4.89	12.02
WBST123	S- 24 Parganas	Budge Budge I	Gobarjuri	22.44779	88.17108	Mark-II TW	54	Confined	17.86	18.25	16	12.59
WBST125	S- 24 Parganas	Baruipur	Sarberia	22.27332	88.44707	Mark-II TW	54	Confined	3.83	11.3	9.84	10.67
WBST126	S- 24 Parganas	Mathurapur II	Khanrapara	22.07068	88.43229	CYL TW	40	Confined	10.57	12.9	11.98	13.7
WBST127	S- 24 Parganas	Mathurapur II	Companitthek	22.04066	88.42687	CYL TW	40	Confined	17.86	13.1	12.66	14.44

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBST128	S- 24 Parganas	Baruipur	Tangtala	22.367	88.38248	Mark-II TW	54	Confined	8.95	12.72	10.98	11.4
WBST129	S- 24 Parganas	Kakdwip I	Kakdwip	21.87472	88.18786	Mark-II TW	54	Confined	-	18.05	16.35	16.31
WBST130	S- 24 Parganas	Baruipur	Champahati	22.39849	88.48918	Mark-II TW	274	Confined	7.61	10.5	7	6.27
WBST132	S- 24 Parganas	Bhangar II	Polerhut	22.58152	88.56995	CYL TW	305	Confined	5.8	6.1	5.71	8.17
WBST133	S- 24 Parganas	Kulpi I	Nischintapur	21.98922	88.21727	Mark-II TW	239.89	Confined	11.95	17.35	16.69	-
WBST134	S- 24 Parganas	Kakdwip	Kakdwip	21.880278	88.19361111	Mark-II TW	305	Confined	-	15.5	18.19	16.82
WBST135	S- 24 Parganas	Kmc	Dhapa	22.53442	88.43465	CYL TW	101	Confined	-	17.63	16.17	13.88
WBST136	S- 24 Parganas	Thakurpukur-Maheshtala	Joka	22.45599	88.30265	CYL TW	60	Confined	25.81	19.55	17.6	17.51
WBST137	S- 24 Parganas	Baruipur	Phultala	22.33996	88.45602	SEW	98	Confined	9.92	1.49	-	-
WBST138	S- 24 Parganas	Baruipur	Naridana	22.38493	88.48151	Tube Well	55	Confined	5.96	8.33	6.47	4.68
WBST139	S- 24 Parganas	JAYNAGAR II	Natunhat Bakultala	22.14405	88.49116	Tube Well	60	Confined	9.88	12.3	10.73	12.43
WBST140 A	S- 24 Parganas	Baruipur	Piyali	22.33997	88.456	PZ	150	Confined	3.78	9.76	-	-
WBST141	S- 24 Parganas	Baruipur	Ramnagar	22.33576	88.47701	Mark-II TW	200	Confined	7.84	12.7	8.52	10.18
WBST142	S- 24 Parganas	Baruipur	Padma Jola	22.31987	88.46952	Mark-II TW	200	Confined	8.45	9.62	7.96	9.32
WBST143	S- 24 Parganas	Baruipur	Dhapadhapi	22.31765	88.47517	Mark-II TW	200	Confined	8.73	10.85	10.19	10.62
WBST144	S- 24 Parganas	Canning I	Canning	22.31311	88.66208	EW	223	Confined	8.73	8.47	9.89	10.92
WBST145	S- 24 Parganas	Sonarpur	Noabad	22.46781	88.44636	Mark-II TW	200	Confined	-	11.96	11.46	-
WBST146	S- 24 Parganas	Kultali	Jalabaria	22.12065	88.56584	Mark-II TW	200	Confined	7.02	9.43	7.55	12.5
WBST147	S- 24 Parganas	Bhangar	Harirpur	22.38868	88.4245	Mark-II TW	200	Confined	11.71	13.6	10.86	11.62
WBST148	S- 24 Parganas	Kakdwip	Kumarhat	22.31836	88.45484	Mark-II TW	200	Confined	8.96	10.7	9	9.91
WBST149	S- 24 Parganas	Jayanagar II	Natunhat	22.1438	88.48952	Mark-II TW	200	Confined	-	12.55	10.48	-
WBST150	S- 24 Parganas	Joynagar	Jaynagar	22.17324	88.4186	Mark-II TW	200	Confined	13.29	11.7	11.22	12.99
WBST151	S- 24 Parganas	Mathurapur I	Kabandighi	22.10942	88.42654	Mark-II TW	200	Confined	11.82	13.33	12.1	12.92
WBST153	S- 24 Parganas	Namkhana	Budhakhali	21.84055	88.21401	Mark-II TW	200	Confined	15.2	16.9	15.72	14.62
WBST154	S- 24 Parganas	Budge Budge	Dongaria	22.39739	88.16986	PZ	68	Confined	-	6.2	6	-
WBST156	S- 24 Parganas	Falta	Sangaria	22.29577	88.17444	Mark-II TW	200	Confined	14.89	15.36	14.14	13.3
WBST157	S- 24 Parganas	Mandirbazar	Anchna	22.14147	88.31957	Mark-II TW	200	Confined	16.17	12.33	11.78	13.56

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBST158 A	S- 24 Parganas	Kakdwip	Dholahat	22.02349	88.3006	Mark-II TW	200	Confined	-	16.5	16.07	14.55
WBST159	S- 24 Parganas	Pathar Pratima	Milan more	22.30281	88.1274	Tube Well	55	Confined	9.22	8.5	14.32	14.81
WBST161	S- 24 Parganas	Baruipur	Sahapara	22.34504	88.44274	Mark-II TW	200	Confined	12.86	10.89	-	-
WBST162	S- 24 Parganas	Sonarpur	Moulahati Jol tank	22.48489	88.454	PZ	138	Confined	9.39	9.5	9.64	10.42
WBST163	S- 24 Parganas	Mandir Bazar	Chota pool(Sarinj Nagar)	22.1605	88.35138	Mark-II TW	200	Confined	13.88	14.1	15.29	12.63
WBST165	S- 24 Parganas	Basanti	Basanti	22.19567	88.71318	Mark-II TW	200	Confined	14.65	10.4	8.16	14.02
WBST166	S- 24 Parganas	Bug Bug II	Achipur	22.461	88.12274	PZ	67	Confined	20.21	19.33	18.29	18.59
WBST167	S- 24 Parganas	Bishnupr I	Panakua Gram Panchyat	22.39949	88.34782	PZ	68	Confined	19.43	13.57	12.99	12.95
WBST168	S- 24 Parganas	Bishnupr I	Amgacia	22.41758	88.30738	Mark-II TW	200	Confined	16.32	15.6	15.22	14.9
WBST169	S- 24 Parganas	Sagar	Ganga Sagar	21.63888	88.07575	Mark-II TW	200	Confined	12.98	12.5	10.01	11.49
WBST170	S- 24 Parganas	Basanti	Nafarganj	22.11642	88.66378	Mark-II TW	200	Confined	13.24	9.8	9.28	18.59
WBST171	S- 24 Parganas	Basanti	Joygopalpur	22.13748	88.68893	Mark-II TW	200	Confined	11.1	10.03	8.49	9.21
WBST172	S- 24 Parganas	Mathurapur II	Tatuntala	22.044	88.408	Mark-II TW	200	Confined	15.51	15.42	13.69	13.26
WBST173	S- 24 Parganas	Basanti	Kalimore	22.18056	88.70876	Mark-II TW	200	Confined	12.03	5.9	8.44	12.82
WBST174	S- 24 Parganas	Bhangar II	Kashipur	22.556	88.597	Mark-II TW	-	Confined	4.92	5.55	3.38	6.8
WBST176	S- 24 Parganas	Canning I	Raibaghini more(Sharatpally more)	22.30596	88.65728	Mark-II TW	200	Confined	-	7.5	7.26	10.68
WBST177	S- 24 Parganas	Baruipur	Dakshin Ramnagar	22.336	88.475	Mark-II TW	200	Confined	-	11.25	8.37	9.78
WBST178	S- 24 Parganas	Basanti	Goiler More	22.17838	88.70985	Mark-II TW	200	Confined	11.57	6.1	8.55	9.07
WBST179	S- 24 Parganas	Basanti	Kalidanga	22.18189	88.71907	Mark-II TW	200	Confined	-	6.5	7.1	21.02
WBST180	S- 24 Parganas	Budge Budge II	Birla More Nodakhali	22.44027	88.17501	Mark-II TW	215	Confined	18.4	19.08	14.82	16.58
WBST181	S- 24 Parganas	Bishnupur II	Barnali Sangha Khali Mandir	22.36861	88.27501	Mark-II TW	215	Confined	-	16.3	14.48	15.24
WBST182	S- 24 Parganas	Diamond Harbour II	Kolagachia More	22.24027	88.18417	Mark-II TW	215	Confined	13.9	16.95	16.79	14.57
WBST100	S- 24 Parganas	Bhangar II	Bankchua/	22.534722	88.614444	Mark-II TW	-	Confined	-	6.05	4.41	6.66

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WBST131	S- 24 Parganas	Basanti I	Bhawankhali	22.3425	88.75055556	CYL TW	-	Confined	10.27	5.48	7.51	9.67
WBST164	S- 24 Parganas	Dakhin Birimpur	Birimpur	22.017095	88.308987	Mark-II TW	200	Confined	16.53	15.9	14.73	14.65
WBST183	S- 24 Parganas	Magrahat II	Haluberia	22.23597	88.4014	Mark-II TW	215	Confined	11.62	13.05	9.69	11.25
WBST184	S- 24 Parganas	Magrahat I	Gorkhalir More	22.26136	88.30652	Mark-II TW	215	Confined	11.85	12.5	12.21	11.59
WBBB101A	Birbhum	Nalhati-I	Amlai	24.299518	87.798619	Mark-II TW		Confined	17.59	-	15.25	-
WBBB119A	Birbhum	Bolpur-Sriniketan	Uttar Gopinathpur	23.7245	87.6911	Mark-II TW		Confined	12.59	10.06	11.07	11.22
WBBB123	Birbhum	Mayureswar-I	Parulia	23.9975	87.702774	Mark-II TW		Confined	16.22	15.87	-	13.07
WBBB211	Birbhum	Illambazar	Payer Phed	23.6379	87.5201	Mark-II TW		Confined	21.14	-	23.53	21.07
WBBB213	Birbhum	Mohammad Bazar	Panchami (Bharkata)	24.081	87.6137	Mark-II TW		Confined	10.29	7.57	7.42	11.77
WBBB215	Birbhum	Suri-II	Purandarpur PZ	23.8534	87.5879	Sub TW		Confined	17.58	12.27	-	11.06
WBBB217	Birbhum	Mohammad Bazar	Kedarpur Tw	23.9778	87.6022	Mark-II TW		Confined	5.02	7.29	-	3.54
WBBB98	Birbhum	Mayureswar-Ii	Nimpur	23.956389	87.6977768	Mark-II TW		Confined	3.13	5.77	-	-
WBBK120A	Bankura	Sonamukhi	Rautara	23.310624	87.432675	Mark-II TW		Confined	3.6	1.53	-	-
WBBK177	Bankura	Bankura-I	Ghughujan	23.235784	86.98931038	Mark-II TW		Confined	7.6	7.48	4.72	5.75
WBBK179	Bankura	Bankura-Ii	Man Kanali	23.327726	87.03885066	Mark-II TW		Confined	10.39	3.75	4.47	5.06
WBBK181	Bankura	Bankura-Ii	Bhuj Sohar	23.229252	87.11312339	Mark-II TW		Confined	6.31	4.46	5.15	5.85
WBBK183	Bankura	Chhatna	Gailabad	23.456156	86.87774576	Mark-II TW		Confined	4.08	1.58	2.21	2.72
WBBK185	Bankura	Gangajal Ghati	Panktor	23.486069	87.13604972	Mark-II TW		Confined	5.8	4.63	4.11	4.67
WBBK187	Bankura	Hirbandh	Biradihi	23.066032	86.74507783	Mark-II TW		Confined	6.02	3.62	3.58	4.33
WBBK189	Bankura	Hirbandh	Jhapandihi	23.03104	86.759386	Mark-II TW		Confined	10.22	4.76	6.34	6.74

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WBBK190	Bankura	Indpur	Balarampur	23.167741	86.81738583	Mark-II TW		Confined	6.76	5.68	2.82	3.61
WBBK192	Bankura	Indus	Karar Danga	23.11526	87.62371701	Mark-II TW		Confined	13.98	7.08	11.65	10.22
WBBK194	Bankura	Indus	Gopal Nagar	23.184136	87.63173247	Mark-II TW		Confined	16.47	-	-	-
WBBK196	Bankura	Khatra-I	Gorabari 1	22.954344	86.7794459	Mark-II TW		Confined	6.73	2.85	3.18	3.71
WBBK198	Bankura	Kotulpur	Chhota Pagla	23.034072	87.6640819	Mark-II TW		Confined	11.25	7.77	8.61	8.21
WBBK201	Bankura	Patrasayer	Baghdahara	23.123481	87.45207585	Mark-II TW		Confined	12.97	7.43	7.26	7.84
WBBK203	Bankura	Raipur-I	Sara	22.777313	86.83182113	Mark-II TW		Confined	3.8	5.37	5.61	6.37
WBBK205	Bankura	Ranibundh	Paresnath	22.956606	86.74921438	Mark-II TW		Confined	11.04	14.35	9.19	9.61
WBBK207	Bankura	Saltora	Kashihir	23.555766	86.909483	Mark-II TW		Confined	7.09	10.85	11.42	4.86
WBBK209	Bankura	Simlapal	Mamra	22.925957	86.9473205	Mark-II TW		Confined	5.94	2.15	5.78	4.97
WBBK210	Bankura	Simlapal	Jugidangra	22.909012	87.01429128	Mark-II TW		Confined	7.48	3.08	5.06	5.49
WBBK212	Bankura	Sonamukhi	Ichharia	23.245345	87.30709188	Mark-II TW		Confined	13.21	11.95	5.37	5.97
WBBK214	Bankura	Taldangra	Chenchurya	23.037122	87.06178694	Mark-II TW		Confined	8.76	5.72	5.46	7.13
WBBK216	Bankura	Vishnupur	Tala	23.16310	87.394844	Mark-II TW		Confined	13.61	9.01	-	5.34
WBHG35A	Hooghly	Khanakul	Kaknan	22.839	87.889	Sub TW		Confined	17.15	18.8	18.6	17.5
WBHG60	Hooghly	Pursurah	Pursura	22.84005	87.957060	Sub TW		Confined	16.66	20.45	20.55	17
WBMB185	Murshidabad	Burwan	Andi 2	23.99018	87.91161	Mark-II TW		Confined	24.7	24.75	22.9	24.25
WBMB27	Murshidabad	Sagardighi	Sagardighi Pz	24.29200	88.089241	Sub TW		Confined	31.4	31.2	31.1	31.3
WBMP03A	Purba Medinipur	Ramnagar-I	Digha	21.62999	87.50001	Sub TW		Confined	17.69	11.24	15.3	12.54

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBMP113	Purba Medinipur	Patashpur-I	Mangal Maro	22.082	87.641	Mark-II TW		Confined	25	15.34	18.59	23.79
WBHG08	Hooghly	Tarakeswar	Tarakeswar	22.880509	88.0258737	Mark-II TW		Confined	16.4	12.7	12.85	12.65
WBHG12	Hooghly	Arambagh	Arambagh	22.887255	87.7855686	State Govt		Confined	14.15	12.98	12.98	12.58
WBMD52	Malda	Kaliachak II	Muthabari			PZ		Confined	4.26	-	-	-
WBMP179	Purba Medinipur	Nandigram-Ii	Uttar Boyal	22.08614	87.95685	Mark-II TW		Confined	24.85	15.34	18.52	20.45
WBST158	-	-	-	-	-	-		Confined	16.32	-	-	-
WBST86	South 24 Parganas	Kak Dwip	Kamarhat	21.93	88.1999969	Mark-II TW		Confined	19.16	17.6	15.58	15.99
WBBB109	Birbhum	Bolpur-Sriniketan	Rautara	23.7415	87.7534	Mark-II TW		Confined	14.68	-	-	-
WBBB127A	Birbhum	Murarai-I	Ratanpur	24.481798	87.861509	CGWB PZ		Confined	24.12	-	19.81	-
WBBB153A	Birbhum	Sainthia	Sainthia (canal Irrigatio	23.944166	87.6705551 1	Sub TW		Confined	23.28	23.6	18.98	20.24
WBBB210	Birbhum	Illambazar	Nanasole PHED	87.5447	23.6339	DTW		Confined	-	-	23.46	23.24
WBBB214	Birbhum	Rajnagar	Rajnagar Tw	23.9934	87.3098	Mark-II TW		Confined	7.73	6.67	4.67	6.68
WBBB216	Birbhum	Suri-I	Sirsitta Pz	23.7856	87.5444	State Govt		Confined	11.56	11.43	11.66	-
WBBB29	-	-	-	-	-	-		Confined	4.51	-	-	-
WBBB35	Birbhum	Dubrajpur	Khagra PZ	0	0	PZ		Confined	18.59	-	-	-
WBBK176	Bankura	Bankura-I	Syampur	23.166912	86.9982378 4	Mark-II TW		Confined	5.96	7.85	3.35	3.69
WBBK178	Bankura	Bankura-I	Aralbanshi	23.216926	87.0532850 4	Mark-II TW		Confined	10.33	8.82	7.39	7.82
WBBK180	Bankura	Bankura-Ii	Barakalajharia	23.295649	87.0156837 2	Mark-II TW		Confined	4.55	6.02	6.17	6.89
WBBK182	Bankura	Barjora	Harishpur	23.298483	87.2565426 9	Mark-II TW		Confined	5.67	3.73	5.93	5.68
WBBK184	Bankura	Chhatna	Musibdihi	23.306383	86.9085739 7	Mark-II TW		Confined	5.96	2.64	3.97	4.64
WBBK186	Bankura	Gangajal Ghati	Charadihi	23.36939	87.188752	Mark-II TW		Confined	8.13	15.42	-	-

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
				5	65							
WBBK188	Bankura	Hirbandh	Malian	23.109845	86.80946707	Mark-II TW		Confined	6.07	4.25	2.92	3.79
WBBK191	Bankura	Indpur	Petardi	23.171882	86.81237076	Mark-II TW		Confined	8.02	6.4	4.69	5.34
WBBK193	Bankura	Indus	Ausnara	23.140412	87.598285	Mark-II TW		Confined	19.06	14.53	17.85	17.92
WBBK195	Bankura	Jaypur	Dighpar	23.029522	87.47739838	Mark-II TW		Confined	13.13	3.87	4.36	7.86
WBBK197	Bankura	Kotulpur	Hasandanga	23.038158	87.63079512	Mark-II TW		Confined	11.13	9.98	-	9.26
WBBK199	Bankura	Onda	Mathura	23.095408	87.29304187	Mark-II TW		Confined	19.29	13.08	12.45	12.68
WBBK200	Bankura	Onda	Gopalpur	23.131327	87.16489869	Mark-II TW		Confined	13.66	9.55	8.05	8.55
WBBK202	Bankura	Raipur-I	Dundar	22.856619	86.88595096	Mark-II TW		Confined	7.94	2.61	4.28	5.92
WBBK204	Bankura	Ranibundh	Purna Pani	22.901717	86.85370798	Mark-II TW		Confined	2.35	5.56	0.78	1.42
WBBK206	Bankura	Saltora	Kalakundi	23.596333	86.8954004	Mark-II TW		Confined	13.63	9.64	10.07	8.9
WBBK208	Bankura	Sarenga	Karbhanga	22.742164	87.07459963	Mark-II TW		Confined	11.74	6.01	6.99	8.12
WBBK211	Bankura	Sonamukhi	Karachmani Khayarsol	23.2438	87.4028	Mark-II TW		Confined	11.5	-	3.62	5.43
WBBK213	Bankura	Taldangra	Lodda	23.035525	86.98531304	Mark-II TW		Confined	5.68	7.59	3.06	3.93
WBBK215	Bankura	Vishnupur	Banshkopa	23.174378	87.31166229	Mark-II TW		Confined	15.32	10.71	9.38	10.66
WBBM066	Purba Bardhaman	Memari-1	Pallaroad	23.175278	88.00749969	Mark-II TW		Confined	8.96	8.25	8.28	8.03
WBBM071	Paschim Bardhaman	Barabani	Kalyaneswari	23.776667	86.82917023	State Govt		Confined	1.44	5.25	4.94	4.99
WBHA26	Howrah	Udaynarayanpur	Singti	22.689	87.974	Sub TW		Confined	17.66	18.2	17.7	17.5
WBHG26	Hooghly	Pursurah	Srirampur	22.82581	87.95467	Sub TW		Confined	17.14	22.3	18.69	18.36

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
A				7								
WBHG32	Hoogly	Goghat-II	Kamarpukur	22.913	87.649	PZ		Confined	11.6	8.1	8.05	9.1
WBHG52	Hooghly	Chanditala-Ii	Garalgacha	22.686471	88.2702831	Mark-II TW		Confined	17.7	17.8	16.75	16.5
WBHG59A	Hooghly	Pursurah	Jangalpara	22.861564	87.956467	Mark-II TW		Confined	15.37	15.3	15.17	14.82
WBHG75	Hooghly	Goghat-Ii	Kumarganj	22.979823	87.7375933	Mark-II TW		Confined	19.87	13.6	14.1	13.25
WBHG85	Hooghly	Goghat-Ii	Hazaipur	22.826139	87.6394889	Sub TW		Confined	18.59	19.65	20.95	20.5
WBMB112	Murshidabad	Nabagram	Hizrole	24.164894	88.103329	Sub TW		Confined	31.62	31.6	32.3	32.9
WBMB124	Murshidabad	Raninagar -I	Islampur	0	0	Pz		Confined	8.15	-	6.3	6.6
WBND85	Nadia	Nakashipara	Bethuadahari	23.622223	88.41944122	Mark-II TW		Confined	8.35	5.02	6.58	6.69
WBND92	Nadia	Karimpur I	Madhya-Gopalpur	0	0	Pz		Confined	6.06	-	-	4.81
WBBB137	Birbhum	Rampurhat-I	Soansa	24.10972	87.716392	State Govt		Confined	-	11	7.11	9.48
WBBB195	Birbhum	Labpur	Bhatrakaji Para	23.80982	87.875928	State Govt		Confined	-	17.51	15.29	14.89
WBBM054A	Purba Bardhaman	Memari-Ii	Bohar(swid Pz)	23.263611	88.19721985	State Govt		Confined	-	24.22	25.97	25.99
WBBM145	Purba Bardhaman	Ketugram-Ii	Ketugram	23.698889	88.0455551	Sub TW		Confined	-	20.84	20.53	17.34
WBMB117	Murshidabad	Bharatpur-I	Alugram	23.904396	88.1005274	Mark-II TW		Confined	-	21.8	21.85	22.65
WBMB129	Murshidabad	Bharatpur-I	Geetgram	23.836067	88.0180025	Mark-II TW		Confined	-	17.1	18.15	18.15
WBBM204	Purba Bardhaman	Kalna II	Purba Sasapur	23.20419	88.375037	CGWB OW		Confined	-	12.87	-	-
WBHG04A	Hooghly	Sirampur-Uttarpara	Baidyabati	22.789476	88.325759	Mark-II TW		Confined	-	15.7	16.8	16.1
WBHG72	Hooghly	Pandua	Pandua	23.07892	88.2782933	Mark-II TW		Confined	-	15	15.3	14.65
WBHG82	Hooghly	Chanditala-I	Krishnarampur	22.730633	88.2083239	Mark-II TW		Confined	-	15.35	16.4	16.05

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBHG84	Hooghly	Pursurah	Masinan	22.842656	87.9290782	Mark-II TW		Confined	-	16.45	16.4	16.15
WBKB22A	Cooch Bihar	Sitai	Sitai	26.08746	89.32284	Sub TW		Confined		2.5	3.84	4.75
WBMB46	Murshidabad	Bhagabangola-Ii	Nasipur Pz	24.307417	88.3820274	Mark-II TW		Confined		5.6	4.7	5.9
WBMB67A	Murshidabad	Farakka	Arjunpur	24.71779	87.932864	Sub TW		Confined	-	5.9	7.58	9.6
WBMB71	Murshidabad	Bharatpur-Ii	Salinda –Nabapalli	23.83956	88.098348	Mark-II TW		Confined	-	17.17	17.47	17.92
WBMP122	Purba Medinipur	Nandakumar	Bagdoba (Narghat)	22.13889	87.89111	CGWB PZ		Confined	-	21.3	17.24	17.16
WBND39	Nadia	Tehatta-I	Betai Pz	23.801667	88.55944444	Sub TW		Confined		6.87	4.94	6.16
WBST110	North 24 Parganas	Minakhan	Malancha	22.50805	88.77	Mark-II TW		Confined		5.91	-	-
WBST68	South 24 Parganas	Mathurapur I	Krishnakali More	22.116373	88.38651	Mark-II TW		Confined	-	13.75	12.7	-
WBST97A	South 24 Parganas	Diamond Harbour-I	76 Bus Stand	22.175368	88.201423	Mark-II TW		Confined	-	15.02	17.93	15.24
WBWD101	Uttar Dinajpur	Goalpokhar II	Kanki 1	26.00906	87.8584	Mark-II TW		Confined		4.38	2.89	3.16
WBND90	Nadia	Kaliganj	Pacha Chandpur	23.66633	88.31967	Mark-II TW		Confined	-	3.39	8.67	8.79
WBST160	South 24 Parganas	Baruipur	Phultola 3 No Gate More	22.342765	88.4563	Mark-II TW		Confined	-	12.85	10.58	10.27
WBWD18	Uttar Dinajpur	Hemtabad	Hemtabad Pz	25.669705	88.229866	Mark-II TW		Confined		5.6	4.43	3.86
WBWD30	Dakshin Dinajpur	Kushmandi	Kushmandi1	25.536861	88.361869	Mark-II TW		Confined		4.72	2.44	3.63
WBBB58B	Birbhum	Suri-I	Panuria	23.854444	87.501238	Sub TW		Confined		3.15	-	-
WBBM055	Purba Bardhaman	Burdwan-Ii	Barsul Mak-ii	23.183611	87.961113	State Govt		Confined	-	14.23	5.08	5.6
WBMB121	Murshidabad	Bharatpur-Ii	Kagram	23.753442	88.1485065	Mark-II TW		Confined	-	16.35	19.55	19.87
WBMB12A	Murshidabad	Raninagar-I	Hurshi	24.265618	88.4658382	Mark-II TW		Confined		5.65	5	5.38

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBMB137	Murshidabad	Beldanga-Ii	Kamnagar	23.919274	88.1919066	Mark-II TW		Confined		3.75	5.55	6.08
WBMB139	Murshidabad	Berhampore	Andhar Manik	24.085001	88.227342	Mark-II TW		Confined	-	6.3	6.7	7.62
WBMD45A	Malda	Kaliachak-Ii	Kuriatar	24.93981	88.03234	-		Confined		3.85	-	-
WBMD56	Malda	Kaliachak-Iii	Birnagar	24.831926	87.954594	Mark-II TW		Confined		4.02	2.85	3.18
WBHG33	Hooghly	Goghat-Ii	HARADITYA (Shyamnagar)	22.839462	87.888958	Sub TW		Confined	-	13.3	14	14.95
WBHG66	Hooghly	Khanakul-I	Ramnagar	22.714963	87.8478317	Mark-II TW		Confined	-	14.85	15.05	14.8
WBHG83	Hooghly	Tarakeswar	Gobarhanra	22.80604	88.0271755	Mark-II TW		Confined	-	14.65	15.05	14.3
WBKB50	Cooch Behar	Sitai	Silduar	26.116453	89.335195	Sub TW		Confined		1.35	2.71	3.098
WBND167	Nadia	Hanskhali	Huda Chapra	23.385693	88.640399	CGWB OW		Confined		4.68	3.91	3.88
WBND41	Nadia	Krishnaganj	Banpur 1	23.45	88.77	State Govt		Confined		8.27	-	-
WBWD100	Uttar Dinajpur	Karandighi	Rashkhowa	25.847395	88.044408	Mark-II TW		Confined		4.62	4.12	3.57
WBST101	South 24 Parganas	Kolkata	Behala(Barisha)	22.488775	88.314175	CGWB PZ		Confined		4	5.81	7.28
WBWD54A	Dakshin Dinajpur	Gangarampur	Gangarampur	25.400585	88.553769	Mark-II TW		Confined	-	8.92	6.44	7.57
WBWD71	Uttar Dinajpur	Kaliaganj	Koonar	25.578888	88.273056	Sub TW		Confined		5.85	5.99	5.23
WBHG34	Hooghly	Goghat-I	Goghat I	22.887465	87.7135134	Mark-II TW		Confined	-	-	16.3	15.45
WBMD112	Malda	Manikchak	Begamganj	25.1308	87.9141	Mark-II TW		Confined			3.19	4.08
WBWD99	Uttar Dinajpur	Islampur	Gunjaria	26.22192	88.13268	State Govt		Confined			2.67	2.64
WBST186	South 24 Parganas	Namkhana	Budhakhali (Zone-I)	21.81586	88.224769	Mark-II TW		Confined	-	-	11.5	1.6
WBWD129	Uttar Dinajpur	Raiganj	Rupahar	25.5709	88.13415	Mark-II TW		Confined			3.2	3.12

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth (m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBWD131	Uttar Dinajpur	Goalpokhar II	Chakulia Rural Hospital	26.02754	87.94408	Mark-II TW		Confined			3.07	3.44
WBWD133	Uttar Dinajpur	Chopra	Bhagabati (Mandalpara)	26.39175	88.30984	Mark-II TW		Confined			3.68	4.08
WBWD135	Uttar Dinajpur	Karandighi	Bhulki Jame Masjid	25.86161	87.94127	Mark-II TW		Confined			3.87	4.61
WBWD137	Dakshin Dinajpur	Tapan	Madnahar	25.2463	88.5837	Mark-II TW		Confined	-	-	11.8	13.66
WBMD113	Malda	Old Malda	Malda City	25.0164	88.1478	Sub TW		Confined	-	-	16.1	8.02
WBBM228	Purba Bardhaman	Purbasthali-I	Chandpur	23.413129	88.333212	Mark-II TW		Confined	-	-	26.35	7.56
WBMB40A	Murshidabad	Raghunathganj-I	Janjipur	24.460085	88.062844	Sub TW		Confined	-	-	9.35	9.55
WBMD97	Malda	Old Malda	Muchia	24.9654	88.2268	Mark-II TW		Confined	-	-	12.13	12.46
WBND174	Nadia	Nakasipara	Nakasipara	-	-	Pz CGWB		Confined			6.16	-
WBND177	Nadia	Karimpur-1	Madhya Gopalpur	23.974567	88.614302	CGWB EW		Confined			4.71	4.81
WBST187	S-24 Parganas	Mathurapur I	Payla Bhagabanpur	22.01203	88.334622	Mark-II TW		Confined	-	-	19.77	-
WBWD130	Uttar Dinajpur	Karandighi	Bilaspur	25.70874	88.03361	Mark-II TW		Confined			3.48	4.3
WBWD132	Uttar Dinajpur	Goalpokhar-I	Sahapur Jr. High School	26.00031	88.06917	Mark-II TW		Confined			2.59	2.46
WBWD134	Uttar Dinajpur	Karandighi	Karandighi High School	25.81295	87.91744	Sub TW		Confined			3.48	3.68
WBWD136	Uttar Dinajpur	Karandighi	Dalkhola Satsang Vihar	25.87338	87.85979	Mark-II TW		Confined			2.06	2.92

Annexure-XVIII

Details of Ground Water Monitoring Wells (Shallow Aquifers) of West Bengal with Depth to Water Level in m bgl

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBBK01	Bankura	Barjora	Barjora	23.425	87.284	Dug Well	17.62	Unconfined	1.72	1.21	1.52	1.66
WBBK02B	Bankura	Bishnupur	Radhanagar	23.4	86.974	Dug Well	9.94	Unconfined	2.35	1.36	1.53	1.49
WBBK04D	Bankura	Mejia	Mejia	23.57	87.0929	Dug Well	7.05	Unconfined	4.4	4.35	3.87	4.71
WBBK05	Bankura	Saltora	Saltora	23.5237	86.9388	Dug Well	11.23	Unconfined	3.68	1.43	1.8	2.2
WBBK06	Bankura	Bankura II	Bankura	23.2286	87.0654	Dug Well	12.68	Unconfined	9.58	2.11	3.42	3.74
WBBK07	Bankura	Chhatna	Chatna	23.3074	86.969	Dug Well	7.2	Unconfined	2.89	1.61	1.65	3.03
WBBK08A	Bankura	Ranibandh	Ranibandh	22.8662	86.7852	Dug Well	12.45	Unconfined	12.68	7.16	7.42	8.72
WBBK10	Bankura	Simlapal	Simlapal	22.926	87.0757	Dug Well	14.73	Unconfined	9.88	1.86	5.98	7.25
WBBK13	Bankura	Patrasayer	Patrasayar(Station)	23.217	87.537	Dug Well	10.6	Unconfined	3.37	1.78	1.33	2.51
WBBK16	Bankura	Ranibandh	Jhilimili	22.817	86.638	Dug Well	14.2	Unconfined	11.85	8.96	7.33	7.96
WBBK17	Bankura	Raipur I	Raipur	22.8089	86.9322	Dug Well	9.54	Unconfined	6.97	4.47	3.7	4.38
WBBK19	Bankura	Onda	Ratanpur	23.1051	87.0738	Dug Well	12.3	Unconfined	4.63	1.02	1.64	2.45
WBBK20	Bankura	Joypur	Joypur Dug well	23.0558	87.4401	Dug Well	9.4	Unconfined	4.56	0.74	1.21	1.59
WBBK24A	Bankura	Gangajalhati	Gangajal-Ghati	23.4288	87.1117	Dug Well	9.5	Unconfined	7.9	1.23	4.16	5.43
WBBK27	Bankura	Onda	Gholkunda	23.0904	87.0501	Dug Well	8.81	Unconfined	6.05	2.01	3.07	3.59
WBBK31	Bankura	Bankura I	Benajira	23.1767	87.0678	Dug Well	9.32	Unconfined	3.99	1.34	2.87	3.16
WBBK32	Bankura	Chhatna	Dhaban	23.468	86.902	Dug Well	-	Unconfined	3.16	1.91	-	3.7
WBBK37A	Bankura	Barjora	Hatasuria	23.3958	87.3013	Dug Well	10.5	Unconfined	1.44	0.82	1.13	1.59
WBBK38A	Bankura	Gangajalhati	Kusthalia	23.4784	87.0475	Dug Well	11.7	Unconfined	6.85	2.01	3.66	4.37
WBBK39	Bankura	Saltora	Murulu	23.519	86.9016	Dug Well	7.61	Unconfined	8.74	2.44	3.11	4.47
WBBK43	Bankura	Barjora	Tarasingh-Bridge	23.443	87.2916	Dug Well	11.1	Unconfined	8.08	6.47	7.46	7.66
WBBK44B	Bankura	Chatna	Susunia	23.4	86.974	Dug Well	6.5	Unconfined	6.99	3.11	3.2	4.84
WBBK45A	Bankura	Bankura I	Kenjakura	23.2692	86.9254	Dug Well	9.85	Unconfined	4.56	2.39	3.62	3.71
WBBK46	Bankura	Chatna	Gouripur	23.2859	86.9941	Dug Well	13.76	Unconfined	5.11	3.86	2.95	3.55
WBBK48B	Bankura	Saltora	Lakhanpur	23.4424	87.0083	Dug Well	5	Unconfined	7.07	2.15	2.02	3.26

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBBK50B	Bankura	Barjora	Sahabdi	23.4013	87.2841	Dug Well	10.9	Unconfined	5.04	2.1	3.3	3.85
WBBK54	Bankura	Joypur	Jadavnagar	22.9464	87.4833	Dug Well	22.98	Unconfined	5.34	0.83	2.32	4.02
WBBK55	Bankura	Joypur	Aima	22.9953	87.4542	Dug Well	6	Unconfined	3.02	2.52	-	-
WBBK57	Bankura	Chhatna	Kamalpur	23.3017	86.8532	Dug Well	10.95	Unconfined	6.16	2.22	2.56	3.92
WBBK58	Bankura	Barjora	Chunpara	23.452	87.2948	Dug Well	9.35	Unconfined	5.58	3.94	4.91	5.62
WBBK61A	Bankura	Sonamukhi	Pokhana	23.4082	87.3775	Dug Well	6.5	Unconfined	5.49	3.47	4.57	5.31
WBBK65A	Bankura	Sonamukhi	Nafardanga	23.318	87.419	Dug Well	5.8	Unconfined	2.69	2.24	2.45	2.61
WBBK67A	Bankura	Sonamukhi	Gangani Danga	23.2964	87.4254	Dug Well	11.1	Unconfined	6.49	3.52	4.28	4.7
WBBK72	Bankura	Taldanga	Hazrasol	23.0145	87.2682	Dug Well	18.8	Unconfined	-	3.95	4.03	5.66
WBBK73	Bankura	Taldanga	Moyra	23.0201	87.2352	Dug Well	18.01	Unconfined	7.79	2.68	3.41	7.06
WBBK74A	Bankura	Taldanga	Tantirbandh	23.0175	87.2237	Dug Well	8.23	Unconfined	10.61	1.4	1.77	8.15
WBBK76	Bankura	Taldanga	Tuldaria	23.0553	87.1278	Dug Well	18.9	Unconfined	8.66	1.68	2.45	4
WBBK79A	Bankura	Bishnupur	Basudevpurcamp(No.1)	23.0208	87.3347	Dug Well	10.94	Unconfined	5.31	1.96	3.36	2.68
WBBK80	Bankura	Bishnupur	Basudevpur, Anchal	23.0416	87.37	Dug Well	16.13	Unconfined	17.01	13.46	14.75	17.35
WBBK81A	Bankura	Bishnupur	Belsula	23.0283	87.4039	Dug Well	12.03	Unconfined	3.86	0.82	0.92	1.32
WBBK82	Bankura	Vishnupur	Bangele	23.012	87.407	Dug Well	19.38	Unconfined	-	-	6.61	7.47
WBBK84	Bankura	Joypur	Prasadpur	23.0649	87.4908	Dug Well	10.49	Unconfined	3.3	-	-	-
WBBK85A	Bankura	Joypur	Padampur	23.07	87.4407	Dug Well	15.5	Unconfined	3.16	0.66	1.66	1.52
WBBK90A	Bankura	Sonamukhi	Sonamukhi Dug well	23.3018	87.4111	Dug Well	12.2	Unconfined	11.33	8.43	7.91	7.59
WBBK94	Bankura	Saltora	Kashtora	23.5627	87.0228	Dug Well	12.52	Unconfined	3.75	1.86	3.44	3.83
WBBK97	Bankura	Bankura I	Bhagabanpur	23.1994	87.0003	Dug Well	9.73	Unconfined	8.9	6.64	5.91	6.12
WBBK98	Bankura	Bankura II	Makurgram	23.2726	87.1414	Dug Well	8.99	Unconfined	5.93	3.42	1.81	2.76
WBBK99	Bankura	Bankura II	Shalbani	23.25607	87.0185	Dug Well	6.58	Unconfined	4.51	1.98	2.01	2.1
WBBK101	Bankura	Khatra II	Peripathar	22.9647	86.8005	Dug Well	9.74	Unconfined	3.04	1	1.84	2.1
WBBK102A	Bankura	Khatra II	Hatirampur	23.0627	86.8786	Dug Well	11.5	Unconfined	5.28	2.44	2.83	3.29
WBBK103A	Bankura	Indpur	Indpur	23.1616	86.9355	Dug Well	9.8	Unconfined	8.32	5.67	4.47	4.86
WBBK105	Bankura	Raipur I	Pairaguri	22.8195	87.0091	Dug Well	9.45	Unconfined	6.87	1.35	3.16	3.53

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBBK106A	Bankura	Raipur II	Sukhadali	22.7698	87.0243	Dug Well	10.45	Unconfined	7.76	2.89	3.28	5.01
WBBK107	Bankura	Raipur II	Sarenga	22.769	87.024	Dug Well	12.73	Unconfined	5.52	1.92	2.18	3.11
WBBK111	Bankura	Mejia	Nandanpur	23.508	87.1366	Dug Well	9.65	Unconfined	5.77	4.08	2.63	3.41
WBBK113	Bankura	Taldangra	Taldangra	23.0201	87.0995	Dug Well	18.28	Unconfined	4.08	1.23	2.01	2.87
WBBK114	Bankura	Khatra I	Khatra	22.9811	86.8483	Dug Well	9.5	Unconfined	5.95	2.19	4.76	5.21
WBBK115	Bankura	Bankura II	Beliatore	23.318	87.2202	Dug Well	16.6	Unconfined	10.33	2.34	3.42	5.12
WBBK116A	Bankura	Bishnupur	Radheshyam Temple	23.23169	87.0725	Dug Well	8	Unconfined	7.57	3.32	5.43	4.83
WBBK119A	Bankura	Taldangra	Dhobajore	22.97154	87.14435	Dug Well	7	Unconfined	2.4	0.92	1.67	2.85
WBBK121	Bankura	Gangajalghati	Rangamati	23.3686	87.1127	Dug Well	11.2	Unconfined	8.68	2.73	4.53	5.38
WBBK48B	Bankura	Saltora	Lakhanpur	23.442	87.001	Dug Well	5	Unconfined	7.07	2.15	2.02	3.26
WBBK123	Bankura	Bishnupur	Hereparlat Forest Beat Office	23.073	87.3497	Dug Well	17	Unconfined	6.07	2.7	3.83	5.07
WBBK124	Bankura	Bishnupur	Siromonipur	23.0532	87.3471	Dug Well	10.2	Unconfined	5.47	1.61	3.08	2.9
WBBK126	Bankura	Bishnupur	Bishnupur	23.0656	87.3152	Dug Well	15.8	Unconfined	11.47	2.67	5.13	5.64
WBBK128	Bankura	Bishnupur	Bishnupur Kalindi Bandh	23.0807	87.308	Dug Well	24.39	Unconfined	5.04	3.87	3.21	3.25
WBBK129A	Bankura	Joypur	Habib Pushkarni	23.154	87.4647	Dug Well	5	Unconfined	0.87	0.6	0.8	0.7
WBBK131	Bankura	Sonamukhi	Sonamukhi	23.3018	87.4111	Dug Well	16	Unconfined	10.77	7.49	-	-
WBBK132	Bankura	Bishnupur	Jayrampur	23.1796	87.3396	Dug Well	10.1	Unconfined	3.84	0.98	1.97	2.51
WBBK134	Bankura	Onda	Gorabari	23.1984	87.067	Dug Well	10.3	Unconfined	5.96	4.08	2.38	3.32
WBBK135	Bankura	Onda	Natungram	23.159	87.069	Dug Well	8.57	Unconfined	3.61	0.98	2.28	2.92
WBBK136	Bankura	Simlapal	Dakshin sole	23.0046	87.1334	Dug Well	14.1	Unconfined	5.75	3.36	4.34	5.2
WBBK137	Bankura	Onda	Jagadalla	23.2035	87.0643	Dug Well	13.4	Unconfined	4.57	1.72	2	2.65
WBBK138	Bankura	Indpur	Bankata	23.0925	86.9061	Dug Well	11.2	Unconfined	8.67	4.78	3.74	5.22
WBBK139	Bankura	Hirbandh	Baharamuri	23.0653	86.8904	Dug Well	11	Unconfined	2.93	1.01	1.43	1.69
WBBK140	Bankura	Ranibandh	Majherigora	22.953	86.844	Dug Well	10.75	Unconfined	5.55	1.11	2.38	3.17
WBBK141	Bankura	Ranibandh	Ledhapakor	22.8481	86.7401	Dug Well	11.1	Unconfined	8.91	4.58	4.17	4.73
WBBK142	Bankura	Ranibandh	Khejuria	22.8536	86.6762	Dug Well	10.3	Unconfined	8.2	4.43	5.16	5.49
WBBK143	Bankura	Borjora	Dejuri	23.4134	87.2764	Dug Well	8.5	Unconfined	5.91	2.25	3.37	3.66

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBBK144	Bankura	Borjora	Bandhakona	23.3693	87.252	Dug Well	11.1	Unconfined	3.38	1.17	1.27	1.4
WBBK145	Bankura	Borjora	Brindabanpur	23.311	87.2791	Dug Well	8	Unconfined	3.73	0.83	1.25	1.48
WBBK147	Bankura	Sonamukhi	Rampur	23.3227	87.3692	Dug Well	12	Unconfined	6.07	1.21	0.96	2.58
WBBK149	Bankura	Bankura II	Bikna	23.2538	87.0903	Dug Well	10.55	Unconfined	8.45	1.7	1.68	4.91
WBBK150	Bankura	Gangajalghati	Khanta	23.3396	87.0958	Dug Well	11.25	Unconfined	9.61	2.63	4.88	5.72
WBBK151	Bankura	Gangajalghati	Amarkanan	23.3931	87.1094	Dug Well	12	Unconfined	9.21	1.54	7.17	7.36
WBBK152	Bankura	Gangajalghati	Deuli More	23.4369	87.1129	Dug Well	12.85	Unconfined	10.49	10.74	9.62	9.71
WBBK153	Bankura	Saltora	Tentultikri	23.5534	87.0032	Dug Well	8.5	Unconfined	3.98	3.06	2.39	2.69
WBBK154	Bankura	Saltora	Shyampur	23.5022	86.9705	Dug Well	10.66	Unconfined	4.38	1.82	1.83	1.32
WBBK155	Bankura	Onda	Punisole	23.1448	87.0713	Dug Well	7	Unconfined	5.48	1.87	3.16	4
WBBK156	Bankura	Simlipal	Karakanali	22.984	87.086	Dug Well	6	Unconfined	3.76	0.67	1.23	1.88
WBBK159	Bankura	Ranibandh	Akhuta More	22.9195	86.8208	Dug Well	4	Unconfined	1.81	0.04	0.82	0.93
WBBK160	Bankura	Chatna	Babupara	23.30005	86.9581	Dug Well	8	Unconfined	6.72	5.53	3.12	4.26
WBBK161	Bankura	Chatna	Koroasole	23.348	86.9222	Dug Well	9	Unconfined	8.01	2.1	3.52	4.51
WBBK162	Bankura	Saltora	Ledhapalash	23.5075	86.948	Dug Well	6	Unconfined	4.88	2.51	2.48	2.86
WBBK163	Bankura	Mijia	Jamua	23.5633	87.0657	Dug Well	7	Unconfined	6.39	2.21	2.95	4.24
WBBK164	Bankura	Bankura II	Kadahghati	23.2624	87.1017	Dug Well	5	Unconfined	3.02	1.67	1.91	1.9
WBBK165	Bankura	Sonamukhi	Krishna Bati	23.2251	87.3642	Dug Well	4	Unconfined	2.07	0.87	1.93	1.81
WBBK166A	Bankura	Joypur	Magru	23.04146	87.45245	Dug Well	9	Unconfined	3.92	0.93	1.44	3.06
WBBK167A	Bankura	Bishnupur	Kharkasuli	23.03465	87.31852	Dug Well	8	Unconfined	5.66	1.38	3.56	4.43
WBBK168	Bankura	Sonamukhi	Parasia	23.252	87.482	Dug Well	-	Unconfined	1.23	0.33	0.69	0.43
WBBK170	Bankura	Taldangra	Kashiboni	23.0227	87.1195	Dug Well	6	Unconfined	3.92	1.56	2.24	3.31
WBBK171	Bankura	Khatra	Supur	23.0196	86.8584	Dug Well	7	Unconfined	6.58	1.68	2.98	3.12
WBBK87A	Bankura	Joypur	Rautkhanda(Barasat)	23.28944	87.16745	Dug Well	5	Unconfined	1.86	0.93	1.62	-
WBBK127A	Bankura	Bishnupur	Bishnupur	23.0733	87.327	Dug Well	8	Unconfined	-	4.04	4.98	6.32
WBBK148A	Bankura	Bankura I	Lokepur	23.2301	87.05	Dug Well	8	Unconfined	2.5	-	-	-
WBBK158A	Bankura	Indpur	Gunnath	23.091	86.9543	Dug Well	5	Unconfined	3.92	2.12	2.65	3.33
WBBK173A	Bankura	Bishnupur	Tribanka	23.0388	87.39088	Dug Well	5	Unconfined	2.11	1.44	1.81	1.73

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBBK175A	Bankura	Bankura II	Belboni	23.28944	87.16745	Dug Well	12	Unconfined	11.93	9.65	4.78	5.21
WBPL01	Purulia	Manbazar I	Manbazar	23.05936	86.65914	Dug Well	17.81	Unconfined	7.81	1.78	2.42	3.94
WBPL03	Purulia	Hura	Hura	23.30112	86.66274	Dug Well	-	Unconfined	11.31	-	4.37	4.69
WBPL05	Purulia	Para	Anara	23.4913	86.56469	Dug Well	14	Unconfined	5.93	1.55	3.54	4.22
WBPL04	Purulia	Purulia-I	Purulia	23.322	86.343	Dug Well	11.45	Unconfined	7.84	-	-	-
WBPL064	Purulia	Hura	Katagora	23.294445	86.6308365	Dug Well	-	Unconfined	7.5	1.26	2.22	2.68
WBPL066	Purulia	Purulia-I	Imundi	23.392778	86.2763901	Dug Well	-	Unconfined	4.57	0.25	1.96	2.42
WBPL067	Purulia	Barabazar	Bamundiha	23.11389	86.3655548	Dug Well	-	Unconfined	8.82	1.16	3.21	3.48
WBPL070	Purulia	Kashipur	Rangani	23.483334	86.6713867	Dug Well	-	Unconfined	6.17	1.48	3.46	4.28
WBPL098	Purulia	Balarampur	Dava	23.104166	86.1391678	Dug Well	-	Unconfined	6.32	1.27	1.6	2.11
WBPL101	Purulia	Bundwan	Banduan	22.88139	86.5061111	Dug Well	-	Unconfined	7.61	1.85	2.12	3.12
WBPL24	Purulia	Kashipur	Indrabil	23.411	86.782	Dug Well	12	Unconfined	5.49	1.15	0.98	1.38
WBPL48	Purulia	Barabazar	Barabazar	23.025555	86.3661118	Dug Well	-	Unconfined	5.27	1.43	2.02	2.17
WBPL07A	Purulia	Jhalda II	Kotshila	23.40429	86.07146	Dug Well	12.86	Unconfined	6.27	1.6	1.57	2.03
WBPL09	Purulia	Bagmundi	Baghmundi	23.195	86.048	Dug Well	9.44	Unconfined	-	1.82	-	-
WBPL12B	Purulia	Jhalda I	Tulin	23.3798	85.89064	Dug Well	8.6	Unconfined	5.9	1.56	2.07	2.51
WBPL13	Purulia	Raghunathpur II	Raghunathpur	23.54541	86.67456	Dug Well	18.3	Unconfined	10.1	5.92	4.2	-
WBPL14B	Purulia	Kashipur	Gaurandih	23.43432	86.76726	Dug Well	10	Unconfined	3.97	0.94	1.96	1.97
WBPL15A	Purulia	Puncha	Kenda	23.1925	86.52056	Dug Well	9	Unconfined	5.17	0.91	2.62	3.14
WBPL17A	Purulia	Barabazar	Tokariya	23.15984	86.34815	Dug Well	10.2	Unconfined	5.25	1.92	2.66	3.24
WBPL18	Purulia	Barabazar	Sindri	23.04361	86.49401	Dug Well	14	Unconfined	5.84	1.92	3	3.43
WBPL19A	Purulia	Manbazar II	Dangardi	22.9484	86.60019	Dug Well	11.4	Unconfined	7.59	1.04	1.57	1.35
WBPL20	Purulia	Puncha	Bagda	23.19597	86.68473	Dug Well	12	Unconfined	4.05	3.22	2.47	3.54
WBPL21	Purulia	Jaypur	Narayanpur	23.41113	86.21105	Dug Well	12	Unconfined	3.55	0.06	2.18	2.22
WBPL22A	Purulia	Jhalda I	Jhalda	23.36438	85.96096	Dug Well	10.1	Unconfined	5.96	2.46	2.97	3.33
WBPL23	Purulia	Jhalda I	Jhargo	23.30823	85.89469	Dug Well	12	Unconfined	7.03	4.89	4.74	5.31

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBPL25	Purulia	Hura	Keshargarh	23.26909	86.55694	Dug Well	7.5	Unconfined	5.58	1.36	2.22	2.52
WBPL26	Purulia	Balarampur	Baraurma	23.16417	86.2627	Dug Well	8.15	Unconfined	2.81	0.38	2.21	3.02
WBPL27A	Purulia	Hura	Ludurka	23.35129	86.52323	Dug Well	11	Unconfined	3.55	-	1.15	2.05
WBPL28	Purulia	Purulia I	Tamna	23.27364	86.35096	Dug Well	5	Unconfined	4.6	2.09	2.26	3.49
WBPL29	Purulia	Arsha	Kantadihi	23.21736	86.29897	Dug Well	12.63	Unconfined	8.27	4.31	5.31	5.34
WBPL30	Purulia	Santuri	Leadson	23.51992	86.82893	Dug Well	9.43	Unconfined	5.56	2.58	3.18	3.86
WBPL31A	Purulia	Raghunathpur I	Bero	23.5259	86.75415	Dug Well	10	Unconfined	5.61	1.47	2.51	2.98
WBPL32	Purulia	Puruliya II	Kustar	23.4048	86.45316	Dug Well	-	Unconfined	4	-	1.94	4.73
WBPL33A	Purulia	Para	Para	23.51053	86.51508	Dug Well	12.96	Unconfined	5.75	3.53	3.67	4.47
WBPL34	Purulia	Para	Dubra	23.54347	86.51804	Dug Well	13.09	Unconfined	9.91	5.56	4.42	4.87
WBPL37	Purulia	Baghmundi	Mathbura	23.11954	86.07584	Dug Well	14	Unconfined	11.74	3.24	4.36	3.36
WBPL38A	Purulia	Joypur	Joypur	23.41723	86.14301	Dug Well	11	Unconfined	7.55	2.33	3	4.25
WBPL39	Purulia	Hura	Bishpuria	23.2827	86.74153	Dug Well	9.7	Unconfined	6.35	0.91	2.69	3.27
WBPL40	Purulia	Kashipur	Simla	23.38027	86.64698	Dug Well	11.39	Unconfined	7.12	2.69	2.8	5.08
WBPL41	Purulia	Baghmundi	Korenge	23.23657	85.98511	Dug Well	9	Unconfined	5.12	2.94	2.73	3.58
WBPL42	Purulia	Santuri	Balitora	23.6293	86.85585	Dug Well	13.8	Unconfined	3.77	1.06	1.93	2.03
WBPL43	Purulia	Arsha	Aharrah	23.29433	86.20071	Dug Well	5.61	Unconfined	4.74	2.88	3.19	3.32
WBPL44B	Purulia	Arsha	Sirkabad	23.27403	86.1956	Dug Well	8.65	Unconfined	6.01	4.03	3.36	3.97
WBPL45	Purulia	Puruliya I	Chakaltore	23.23624	86.3592	Dug Well	12.5	Unconfined	4.17	0.14	1.94	2.02
WBPL46	Purulia	Para	Jhapra	23.47035	86.51334	Dug Well	10.2	Unconfined	4.69	1.13	2.86	3.38
WBPL47	Purulia	Raghunathpur-I	Naduara	23.52	86.678	Dug Well	12.14	Unconfined	9.4	1.67	3.22	4.29
WBPL49	Purulia	Raghunathpur I	Chinpina	23.535	86.696	Dug Well	7.13	Unconfined	4.67	0.95	2.15	2.77
WBPL50	Purulia	Puruliya II	Podalaroad	23.36951	86.40016	Dug Well	9.22	Unconfined	7.8	1.43	2.46	3.2
WBPL52	Purulia	Raghunathpur I	Babugram	23.53613	86.60302	Dug Well	10.3	Unconfined	5.37	1.21	2.44	2.7
WBPL53B	Purulia	Kashipur	Kapasitha	23.43485	86.72364	Dug Well	13.1	Unconfined	6.57	4.35	3.26	4.46
WBPL54	Purulia	Kashipur	Napara	23.43037	86.66278	Dug Well	9.61	Unconfined	5.7	1.86	2.37	2.57
WBPL55A	Purulia	Para	Deuli	23.56329	86.46819	Dug Well	10	Unconfined	8.88	4.76	5.81	6.37
WBPL56	Purulia	Neturia	Sarbori	23.64964	86.81425	Dug Well	12.74	Unconfined	3.47	0.49	1.74	1.77
WBPL58	Purulia	Neturia	Gobag	23.59195	86.76273	Dug Well	8.6	Unconfined	7.68	1.44	3.3	4.25

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBPL61	Purulia	Bundwan	Dhabani	22.92685	86.44618	Dug Well	11.37	Unconfined	9.64	3.88	5.19	5.57
WBPL63	Purulia	Nituria	Nituria	23.66203	86.82467	Dug Well	11.42	Unconfined	4.81	0.62	1.94	1.93
WBPL65A	Purulia	Hura	Raheradhi	22.9496	86.4981	Dug Well	6	Unconfined	-	2.12	2.22	7.41
WBPL071	Purulia	Puncha	Panipathar	23.21013	86.48716	Dug Well	8.81	Unconfined	8.12	1.32	1.63	2.67
WBPL73	Purulia	Jhalda I	Jhalda	23.36347	86.96147	Dug Well	6.1	Unconfined	5.16	2.09	2.95	3.78
WBPL074	Purulia	Hura	Lalpur	23.302	86.631	Dug Well	9.25	Unconfined	5.77	1.36	2.41	2.46
WBPL075	Purulia	Hura	Katagora	23.294	86.631	Dug Well	8.46	Unconfined	-	-	1.88	-
WBPL076	Purulia	Hura	Napara	23.22844	86.64594	Dug Well	8.87	Unconfined	8.57	0.64	4.89	4.99
WBPL077	Purulia	Puncha	Chakgopalpur/Napara	23.22812	86.64704	Dug Well	10.45	Unconfined	8.28	0.77	2.92	3.1
WBPL079	Purulia	Hura	Puncha	23.328	86.587	Dug Well	10.9	Unconfined	6.1	2.52	4.03	4.63
WBPL080	Purulia	Hura	Kulgara	23.322	86.585	Dug Well	9.4	Unconfined	6.89	2.9	2.69	3.29
WBPL082	Purulia	Banduan	Likimore	22.8755	86.5054	Dug Well	-	Unconfined	6.46	-	-	-
WBPL083	Purulia	Para	Kashiberia	23.5441	86.54911	Dug Well	10.25	Unconfined	6.61	2.64	2.99	3.76
WBPL084	Purulia	Hura	Duriakata	23.29774	86.68871	Dug Well	10	Unconfined	7.49	0.96	4.82	5.22
WBPL085	Purulia	Puncha	Puncha	23.164	86.655	Dug Well	11	Unconfined	6.63	5.91	4.52	4.89
WBPL086	Purulia	Barabazar	Purihasa	23.06736	86.36393	Dug Well	10	Unconfined	7.09	1.15	2.34	2.47
WBPL087	Purulia	Manbazar	Gopalnagar	23.13713	86.5854	Dug Well	5.1	Unconfined	2.98	0.82	0.84	1.56
WBPL088	Purulia	Jhalda II	Durgu	23.38537	86.01271	Dug Well	10.5	Unconfined	9.26	4.28	4.36	5.03
WBPL089	Purulia	Puncha	Damodarpur	23.20732	86.66642	Dug Well	7	Unconfined	6.09	2.69	2.64	3.18
WBPL090	Purulia	Puncha	Loulara	23.17395	86.66955	Dug Well	8	Unconfined	7.81	5.87	5.21	5.64
WBPL091	Purulia	Hura	Kulabahal	23.30313	86.54183	Dug Well	7	Unconfined	7.27	0.99	4	4.88
WBPL092	Purulia	Joypur	Joypur Forest More	23.41183	86.18957	Dug Well	5	Unconfined	4.96	-	2.09	2.58
WBPL093	Purulia	Kotshila	Nowahatu	23.4274	86.05457	Dug Well	9	Unconfined	7.15	-	5.47	5.08
WBPL094	Purulia	Kotshila	Ukma	23.42312	86.03776	Dug Well	6	Unconfined	6.34	-	2.82	3.57
WBPL095	Purulia	Purulia I	Pandrama	23.26894	86.32711	Dug Well	8	Unconfined	5.33	0.67	3.66	6.27
WBPL096	Purulia	Arsha	Hansla More	23.27944	86.25995	Dug Well	10	Unconfined	7.15	2.49	3.3	5.01
WBPL097	Purulia	Balarampur	Namsole	23.1307	86.24547	Dug Well	7	Unconfined	5.19	1.21	2.24	2.21
WBPL099	Purulia	Barabazar	Aga Jhore	23.04445	86.44233	Dug Well	8	Unconfined	6.5	1.38	2.93	3.59

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBPL100	Purulia	Purulia	Sankhari	23.05608	86.36046	Dug Well	9	Unconfined	7.79	1.07	3.09	3.65
WBPL102	Purulia	Manbazar I	Sindurpur	23.12197	86.60979	Dug Well	8	Unconfined	7.38	0.78	2.59	3.39
WBPL103	Purulia	Puncha	Matha	23.15805	86.54566	Dug Well	6	Unconfined	9.88	1.16	3.08	3.6
WBPL104	Purulia	Kashipur	Palash Kola	23.49069	86.67004	Dug Well	7	Unconfined	7.38	5.02	2.55	5.8
WBPL105	Purulia	Santuri	Santuri	23.52431	86.85658	Dug Well	8	Unconfined	4.82	1.04	1.67	2.53
WBPL106	Purulia	Purulia I	Dhobakata	23.33343	86.37749	Dug Well	5	Unconfined	5.75	1.77	2.93	2.93
WBPL107	Purulia	Puncha	Taltal	23.21142	86.43319	Dug Well	8	Unconfined	5.43	2.28	2.46	4.03
WBPL108	Purulia	Hura	Kumardihi	23.28687	86.72019	Dug Well	8	Unconfined	7.52	3.9	4.02	4.88
WBPL109	Purulia	Tuncha	Damodarpur	23.20156	86.66883	Dug Well	8	Unconfined	8.73	3.93	4.97	6.02
WBPL110	Purulia	Puncha	Dadki	23.17794	86.67714	Dug Well	8	Unconfined	6.36	3.36	3.38	4.04
WBPL111	Purulia	Hura	Mongalpur	23.31491	86.61096	Dug Well	8	Unconfined	4.51	0.92	2.41	3.17
WBPL112	Purulia	Hura	Asanboni	23.30803	86.58167	Dug Well	8	Unconfined	6.52	0.95	2.58	2.93
WBPL113	Purulia	Hura	Gurda More	23.34302	86.5579	Dug Well	6	Unconfined	3.81	0.6	1.34	2.57
WBPL114	Purulia	Balarampur	Balarampur	23.10399	86.2282	Dug Well	6	Unconfined	7.67	2.73	-	2.73
WBPL115	Purulia	Manbazar I	Budpur	23.10883	86.66023	Dug Well	8	Unconfined	-	0.7	2.06	2.72
WBPL116	Purulia	Hura	Khairapihira	23.3762	86.5947	Dug Well	6	Unconfined	4.54	0.67	2.49	3.24
WBHA02	Howrah	Jagatballavpur	Jagatballavpur	22.679	88.121	Dug Well	6.35	Unconfined	1.76	1.68	1.15	0.75
WBHA03B	Howrah	Amta-I	Amta	22.679	88.121	Dug Well	-	Unconfined	2.7	1.85	1.55	2.1
WBHA05A	Howrah	Howrah	Howrah Town	22.98	88.33111	Dug Well	4.6	Unconfined	2.78	0.58	0.53	0.54
WBHA06A	Haora	Uluberia-II	Uluberia Dug	22.469	88.114	Dug Well	9	Unconfined	1.52	0.52	0.52	0.67
WBHA07A	Howrah	Sankrail	Bauria(11/89)	23.946111	87.67083333	Dug Well	-	Unconfined	0.43	0.25	0.2	0.2
WBHA14	Howrah	Shyampur I	Baganda	22.39278	88.08417	Dug Well	8.6	Unconfined	3.67	0.9	1.15	0.78
WBHA20B	Howrah	Udaynarayanpur	Kumirmora	22.68944	87.975	Dug Well	18	Unconfined	-	2.7	2.2	2
WBHA21A	Haora	Amta-II	Sehagori	22.5917	87.9219	Dug Well	8.33	Unconfined	2.15	1.1	0.55	0.4
WBHA29	Howrah	Panchla	Panchla	22.534	88.063	Dug Well	3	Unconfined	3.35	0.9	0.52	1.57
WBHA30	Howrah	Jagatvallavpur	Goalpota	22.681	88.109	Dug Well	5.45	Unconfined	3.08	2.25	2.15	1.95
WBHA31	Howrah	Amta II	Bhategori	22.595	87.956	Dug Well	13.4	Unconfined	3.08	2.28	1.3	1.08
WBHA33	Haora	Shyampur-I	Shipbur (Gadiara)	22.226	88.03	Dug Well	-	Unconfined	1.56	-	-	-

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBHA33A	Howrah	Shyampur I	Shibpur (Gadiara)	22.22611	88.03972	Dug Well	3	Unconfined	-	0.95	1.1	1.52
WBHA35	Howrah	Shyampur I	Shyampur	22.3	88.025	Dug Well	14.44	Unconfined	1.71	1.17	0.91	0.96
WBHA36	Howrah	Domjur	Ramrajatala	22.589	88.297	Dug Well	6.9	Unconfined	1.57	1.37	1.72	1.62
WBHA37	Howrah	Jagacha	Jagacha	22.589	88.297	Dug Well	22.4	Unconfined	1.4	1.05	1.83	1.6
WBHA38	Howrah	Domjur	Ramrajatala	22.589	88.297	Dug Well	6.96	Unconfined	1.41	0.91	1.31	1.81
WBHA39	Howrah	Bauria	Burikhali	22.589	88.297	Dug Well	3	Unconfined	0.47	0.27	0.32	0.42
WBHA40A	Howrah	Uluberia	Kalinagar	22.447	88.106	Dug Well	4	Unconfined	2.26	0.51	0.61	0.9
WBHA42	Howrah	Jagatballavpur	Ichapur	22.633	88.111	Dug Well	4	Unconfined	3.15	1.25	1.4	0.93
WBHA43	Howrah	Uluberia	Jagadispur	22.454	88.108	Dug Well	3	Unconfined	2.22	0.1	0.3	0.2
WBHA44	Howrah	Shyampur II	Gobindapur	22.297	88.007	Dug Well	4	Unconfined	2.9	1.2	1.2	1.37
WBHA45	Howrah	Shyampur I	Shibpur	22.226	88.03	Dug Well	4	Unconfined	1.39	0.79	0.89	2.49
WBHG01A	Hugli	Pandua	Deyparamandloi	23.10229	88.33006	Dug Well	5	Unconfined	3.77	0.82	0.87	0.75
WBHG02	Hugli	Balagarh	Balagarh	23.12528	88.465	Dug Well	10.4	Unconfined	1.4	4.7	4.75	4.6
WBHG03B	Hugli	Srirampur	Uttarpara	22.667	88.347	Dug Well	3	Unconfined	0.6	0.3	0.4	0.3
WBHG05	Hugli	Chinsura	Mogra	22.897	88.376	Dug Well	6.08	Unconfined	1.355	0.95	1.5	1.4
WBHG07	Hugli	Tarakeswar	Tarakeswar	22.88	88.025	Dug Well	7.75	Unconfined	-	3.8	1.25	4.58
WBHG16	Hugli	Haripal	Nalikul	22.817	88.11	Dug Well	7.1	Unconfined	2.82	0.47	1.45	0.92
WBHG20B	Hugli	Srirampur	Bhadreswar	22.83389	88.35944	Dug Well	7.1	Unconfined	-	2.8	3.05	3.1
WBHG21B	Hugli	Polba	Polba	22.95833	88.30694	Dug Well	6.85	Unconfined	1.5	2.4	1.85	1.65
WBHG27A	Hugli	Balagarh	Inchura	23.13504	88.39777	Dug Well	10.67	Unconfined	2.5	4.5	4.75	4.45
WBHG28	Hugli	Balagarh	Karolamore	23.129	88.439	Dug Well	8	Unconfined	2.98	3.2	3.5	3.75
WBHG78A	Hugli	Srirampur	Uttarpara (Goshpara)	22.68563	88.35469	Dug Well	4	Unconfined	1.1	1.01	0.91	0.86
WBHG92A	Hugli	Jirat	Jirat	22.843	87.979	Dug Well	6.3	Unconfined	1.77	0.45	0.85	0.67
WBHG95	Hugli	Polba-Dodpur	Rajhat	22.937	88.354	Dug Well	4.57	Unconfined	2.34	1.6	2.05	1.85
WBHG101A	Hugli	Balagarh	Dwarpara	23.0946	88.41988	Dug Well	6	Unconfined	4	3	2.95	2.5
WBHG107	Hugli	Pandua	Champta	23.0725	88.34027778	Dug Well	-	Unconfined	2.35	1.75	1.75	1.86
WBHG113	Hugli	Polba - Dodpur	Barbigha	23.00639	88.27778	Dug Well	4	Unconfined	3.43	1.08	1.33	1.5
WBHG120	Hugli	Chuchura	Bandel	22.91972	88.395	Dug Well	4	Unconfined	2.45	2.4	1.35	1.23

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBHG121	Hugli	Balagarh	Bahira (Fulpukur)	23.08361	88.42778	Dug Well	5	Unconfined	2.32	1.72	1.22	1.92
WBHG122	Hugli	Balagarh	Tentulia	23.12528	88.45861	Dug Well	4	Unconfined	2.37	1.3	2.15	1.75
WBHG125	Hugli	Pandua	Deypara	23.10889	88.49556	Dug Well	4	Unconfined	1.93	1.18	1.08	0.58
WBHG126	Hugli	Balagarh	Bakipur Hat tala	23.14722	88.43139	Dug Well	5	Unconfined	3.46	2.75	3.05	2.6
WBHG127	Hugli	Balagarh	Mashra (Ghoshpara)	23.13028	88.41222	Dug Well	5	Unconfined	3.72	1.6	1.8	1.9
WBHG128	Hugli	Balagarh	Dwarpara	23.0975	88.41583	Dug Well	6	Unconfined	3.65	1.86	1.96	1.46
WBHG129A	Hugli	Magra	Jhapa	22.95413	88.36456	Dug Well	4	Unconfined	4.7	5.1	4.85	4.25
WBHG130	Hugli	Sherpur	Jirat	23.02111	88.415	Dug Well	6	Unconfined	1.02	4.4	4.7	4.54
WBHG132A	Hugli	Balagarh	Saranda	23.10528	88.41139	Dug Well	4	Unconfined	1.8	1	1.1	1.08
WBHG133	Hugli	Balagarh	Rukeshpur	23.075	88.46111	Dug Well	4	Unconfined	1.71	0.21	1.11	1.05
WBHG14	Hugli	Pandua	Pandua	23.081	88.283	Dug Well	9.6	Unconfined	2.905	0.25	1.9	1.6
WBMP12	Jhargram	Jhargram	Rashmandal	22.49022	87.08618	Dug Well	7.86	Unconfined	7.59	5.84	5.29	5.81
WBMP13	Jhargram	Jamboni	Chichira	22.30629	86.88526	Dug Well	15	Unconfined	9.71	2.51	5.84	9.85
WBMP14	Jhargram	Gopiballavpur	Gopiballavpur	22.2105	86.89506	Dug Well	10.7	Unconfined	-	6.4	4.95	4.71
WBMP29B	Jhargram	Binpur II	Silda	22.61401	86.81517	Dug Well	6	Unconfined	3.55	6.5	3.02	4.08
WBMP46A	Jhargram	Binpur II	Binpur	22.58517	86.9171	Dug Well	13	Unconfined	-	9.78	8.22	10.44
WBMP47	Jhargram	Jamboni	Gidhni	22.48803	86.85274	Dug Well	7.8	Unconfined	3.04	0.1	0.96	1.77
WBMP52	Jhargram	Binpur I	Dahijuri	22.50395	86.99265	Dug Well	11.95	Unconfined	7.54	1.92	4.82	7.12
WBMP92C	Jhargram	Gopiballavpur II	Beliaberia	22.27231	86.95198	Dug Well	14	Unconfined	9.28	4.69	0.83	0.95
WBMP93	Jhargram	Sankrail	Kultikri	22.17504	87.15811	Dug Well	18.2	Unconfined	8.9	0.7	3.47	2.87
WBMP94	Jhargram	Sankrail	Sankrail	22.20316	87.13757	Dug Well	14.95	Unconfined	15.21	8.45	10.21	14.19
WBMP127 A	Jhargram	Binpur I	Harda	22.61205	86.94373	Dug Well	14	Unconfined	9.32	7.1	8.67	9.93
WBMP133 A	Jhargram	Jhargram	Raghunathpur	22.44196	86.99547	Dug Well	15	Unconfined	12.45	7.95	9.58	11.11
WBMP137	Jhargram	Gopiballavpur II	Topsia	22.25152	86.91349	Dug Well	10.75	Unconfined	-	10.01	10.11	10.04
WBMP150	Jhargram	Jamboni	Parihati (Hat tala)	22.51892	86.84895	Dug Well	10.56	Unconfined	4.2	1.4	1.77	2.4
WBMP159	Jhargram	Binpur II	Belpahari	22.63159	87.76603	Dug Well	12.4	Unconfined	4.6	4.7	5.58	4.57
WBMP160	Jhargram	Jamboni	Kalidaspur	22.51641	86.81779	Dug Well	11.7	Unconfined	6.15	2.5	3.46	3.93

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBMP185	Jhargram	Jamboni	Tulibarh	22.38299	86.899	Dug Well	14	Unconfined	12.03	5.75	4.77	6.5
WBMP186	Jhargram	Jamboni	Hijli	22.40557	86.85415	Dug Well	9	Unconfined	6.05	1.1	2.43	3.43
WBMP187	Jhargram	Jamboni	Kapgari	22.52187	86.874	Dug Well	14	Unconfined	-	1.05	1.25	2.5
WBMP189	Jhargram	Binpur II	Malabati	22.59852	86.86784	Dug Well	6	Unconfined	1.9	1.25	1.62	3.67
WBMP190	Jhargram	Jharagram	Balivasa	22.34539	87.11793	Dug Well	12	Unconfined	16.11	9.13	6.78	10.23
WBMP193	Jhargram	Jharagram	Jharagram	22.45366	87.00197	Dug Well	5	Unconfined	3.24	1.22	2.22	1.42
WBMP196	Jhargram	Jhargram	Sevayatan	22.47172	87.01794	Dug Well	13	Unconfined	10.58	4	6.36	8.32
WBMP197	Jhargram	Binpur II	Belpahari	22.63159	86.76603	Dug Well	8	Unconfined	4.93	2.88	5.69	5.7
WBMP198	Jhargram	Jamboni	Nunia	22.49745	86.84551	Dug Well	8	Unconfined	8	1.7	3.3	5.53
WBMP206	Jhargram	Jharagram	Lodhasuli	22.33506	87.04678	Dug Well	9	Unconfined	8.12	5.57	4.92	7.24
WBMP207	Jhargram	Binpur-Ii	Khurchiboni	22.61012	86.79449	Dug Well	6	Unconfined	10.38	1.13	3.2	5.25
WBMP211	Jhargram	Jumboni	Guthia	22.32583	86.88346	Dug Well	5	Unconfined	1.44	1.49	2.08	2.41
WBMP212	Jhargram	Jomboni	Kapcita	22.518	86.84305	Dug Well	10	Unconfined	8.82	2.42	5.24	6.15
WBMP225	Jhargram	Jamboni	Dharsa	22.51648	86.81779	Dug Well	7	Unconfined	5.67	1.1	3.36	3.93
WBMP08	West Mednipur	Garhbeta-i	Garhbeta	22.85543	87.3516	Dug Well	5.78	Unconfined	8.57	2.82	5.87	5.55
WBMP11	Paschim Medinipur	Dherua	Midnapore sadar	22.48889	87.0969467	Dug Well	-	Unconfined	-	-	-	9.06
WBMP11A	West Mednipur	Medinipur	Dherua	22.48959	87.09639	Dug Well	11.71	Unconfined	10	9.3	8.8	-
WBMP15	West Mednipur	Medinipur	Medinipur	22.42152	87.30882	Dug Well	10.56	Unconfined	4.99	2.49	1.69	2.34
WBMP33	West Mednipur	Kharagpur-i	Kanthra	22.26594	87.28146	Dug Well	6.1	Unconfined	5.95	1.05	2.53	3.21
WBMP40A	West Mednipur	Keshpur	Keshpur	22.55597	87.4611	Dug Well	12	Unconfined	3.06	1.35	3.33	3.14
WBMP41	West Mednipur	Salboni	Godapiasal	22.53712	87.3278	Dug Well	12.32	Unconfined	10.85	1.6	4.3	6.28
WBMP44	West Mednipur	Garbeta-ii	Chandrakona Rd.	22.73431	87.34004	Dug Well	18.9	Unconfined	5.6	2.9	1.06	8.52
WBMP45A	West Mednipur	Garbrta-ii	Raskunda (Purba Nerakopa)	22.78681	87.45221	Dug Well	24.38	Unconfined	5.62	0.26	0.58	1.63
WBMP48	West Mednipur	Keshiary	Keshiary	22.12775	87.23058	Dug Well	12.4	Unconfined	2.74	3.24	2.09	2.76

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBMP109	West Mednipur	Narayangarh	Makrampur	22.21857	87.39115	Dug Well	21.33	Unconfined	2.92	0.42	0.29	1.42
WBMP128	West Mednipur	Chandrakona-I	Chandrakona (Dharampur)	22.73053	87.49388	Dug Well	7.62	Unconfined	1.63	0.13	1.04	0.85
WBMP136	West Mednipur	Silda	Muohi Bundh	22.60498	86.80772	Dug Well	12.4	Unconfined	3.72	0.55	0.73	1.8
WBMP158	West Mednipur	Medinipur	Shaldanga	22.42674	87.26949	Dug Well	15.1	Unconfined	8.66	0.26	2.06	2.43
WBMP161	West Mednipur	Kharagpur-I	Sahachak	22.35193	87.2747	Dug Well	13.55	Unconfined	1.95	0.85	4.72	5.36
WBMP162	West Mednipur	Kharagpur-I	Khemasuli	22.33899	87.17999	Dug Well	14.2	Unconfined	6.72	1.4	4.9	6.92
WBMP163	West Mednipur	Kharagpur-I	Bagra Chak	22.28402	87.15235	Dug Well	11.7	Unconfined	8.55	1.8	1.72	2.53
WBMP164	West Mednipur	Kharagpur-I	Chota Tangra	22.32734	87.31356	Dug Well	40	Unconfined	1.5	0.65	2.15	2.18
WBMP165	West Mednipur	Medinipur	Jamir Ara	22.45932	87.39085	Dug Well	67.93	Unconfined	0.7	0.2	1.05	0.65
WBMP166	West Mednipur	Kharagpur i	Koushalya	22.33333	87.3372	Dug Well	14.92	Unconfined	0.57	0.15	0.9	0.93
WBMP167	West Mednipur	Garbeta-II	Raskunda	22.78719	87.45207	Dug Well	12.37	Unconfined	4.26	0.85	2.6	3.37
WBMP168	West Mednipur	Garbeta-III	Shamnagar (Radhakrishnapur)	22.7408	87.51096	Dug Well	15.1	Unconfined	2.77	0.56	1.04	1.16
WBMP169	West Mednipur	Garbeta-III	Andhar Nayan	22.73544	87.45123	Dug Well	21.13	Unconfined	4.33	1.67	3.1	3.39
WBMP170	West Mednipur	Medinipur	Chilgora	22.46824	87.14124	Dug Well	12.65	Unconfined	2.6	1.08	1.67	2.13
WBMP171	West Mednipur	Kharagpur-I	Hilji	22.32323	87.3111	Dug Well	14.98	Unconfined	1.26	2.56	6.24	6.29
WBMP172	West Mednipur	Keshiyari	Lenga Mara	22.1841	87.25348	Dug Well	8.46	Unconfined	2.16	0.76	0.94	1.12
WBMP173	West Mednipur	Keshiyari	Patharhuri	22.16148	87.21145	Dug Well	8.77	Unconfined	7.48	1.13	3.47	6.38
WBMP174	West Mednipur	Keshiyari	Hathigeria	22.17014	87.24819	Dug Well	10.45	Unconfined	-	1.36	4.46	6.36
WBMP184	West Mednipur	Belpahari	Muransol	22.62902	86.76915	Dug Well	5	Unconfined	3.36	0.78	2.76	4.39
WBMP191	West Mednipur	Binpur II	Panchiar	22.10303	87.28666	Dug Well	6	Unconfined	-	5.05	-	1.75

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBMP194	West Mednipur	Narayangarh	Nekursini	21.9753	87.28746	Dug Well	12	Unconfined	19.45	-	-	-
WBMP199	West Mednipur	Garbeta II	Guiya Daha	22.73978	87.40347	Dug Well	6	Unconfined	2.91	1.4	1.45	2.57
WBMP200	West Mednipur	Salboni	Gobru	22.50968	87.32653	Dug Well	6	Unconfined	5.9	1.2	3.7	4.16
WBMP208	West Mednipur	MEDINIPUR	MANIDAH	22.43217	87.2017	Dug Well	6	Unconfined	5.82	1.32	2.81	2.87
WBMP209	West Mednipur	MEDINIPUR	BELLIA	22.45322	87.16852	Dug Well	5	Unconfined	8.05	1.95	2.75	2.79
WBMP210	West Mednipur	KHRAGPUR-I	TUNGNADUWA	22.3249	87.15521	Dug Well	9	Unconfined	-	2.03	5.07	6.3
WBMP213	West Mednipur	GARBETA-II	DHABONI	22.82374	87.36584	Dug Well	5	Unconfined	3.76	1.95	2.1	3.13
WBMP214	West Mednipur	KHARAGPUR-I	SARANGA	22.32305	87.23409	Dug Well	21	Unconfined	11.28	1.89	7.52	11.22
WBMP216	West Mednipur	ROHINI	NAIKANSOLE COLONY	22.27401	87.14861	Dug Well	9	Unconfined	9.04	1.44	3.99	5.91
WBMP217	West Mednipur	KESHIYARI	KHAJARA	22.21043	87.25946	Dug Well	6	Unconfined	4.16	1.01	3.09	4.05
WBMP06	East Mednipur	Panskura	Kolaghat	22.44359	87.87558	Dug Well	11.7	Unconfined	1.83	1.32	1.92	1.55
WBMP16A	Paschim Medinipur	Narayangarh	Bakhrabad	22.122223	87.3697205	Dug Well	-	Unconfined	6.7	0.3	1.91	7.23
WBMP175	Purba Medinipur	Sutahata	Horkhali	22.125	88.282	Dug Well	13.62	Unconfined	2.8	1.12	1.21	1.41
WBMP205	East Mednipur	Panskura	Diglabad	22.42065	87.78544	Dug Well	5	Unconfined	-	1.78	2.42	3.66
WBMP223	East Mednipur	Sutahata I	Haldia	22.09283	88.06105	Dug Well	3	Unconfined	0.66	0.37	0.27	0.34
WBND01	Nadia	Kaliaganj	Palassey	23.77814	88.29389	Dug Well	6.36	Unconfined	4.3	4	4.13	4.11
WBND03	Nadia	Karimpur I	Karimpur	23.98246	88.6284	Dug Well	8.32	Unconfined	5.17	6.91	-	-
WBND07	Nadia	Nabadwip	Nabadwipghat	23.41237	88.38419	Dug Well	11	Unconfined	4.14	3.42	3.77	4.01
WBND08	Nadia	Nabadwip	Nabadwiptown	23.41344	88.37157	Dug Well	9.8	Unconfined	4.87	4.02	4.49	4.81
WBND09	Nadia	Nakashipara	Mayapur	23.41581	88.38349	Dug Well	7.87	Unconfined	1.71	1.43	2.11	2.22
WBND10A	Nadia	Kaliaganj	Katwaghat	23.65058	88.14681	Dug Well	10.66	Unconfined	4.91	4.26	3.96	5.11
WBND12	Nadia	Krishnanagar II	Bahadurpur	23.43921	88.46257	Dug Well	12.2	Unconfined	7.87	4.93	6.99	2.08
WBND22	Nadia	Karimpur II	Utr Kechuadanga	23.98734	88.70834	Dug Well	8	Unconfined	4.55	4.2	4.1	4.58

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBND31A	Nadia	Karimpur II	Mahisabathan	23.94496	88.61546	Dug Well	9.14	Unconfined	5.45	3.58	3.64	4.17
WBND35	Nadia	Hanskhali	Badkulla	23.29842	88.53477	Dug Well	8.8	Unconfined	7.13	6.93	6.57	6.88
WBND36	Nadia	Krishnanagar I	Dignagar	23.31871	88.45303	Dug Well	6	Unconfined	2.98	3.28	3.46	3.45
WBND154	Nadia	Krishnanagar-I	Bhatjangla	23.378	88.486	Dug Well	-	Unconfined	-	6.7	-	-
WBND155	Nadia	Krishnaganj	Bhajanghat	23.38524	88.74327	Dug Well	10	Unconfined	9.98	9.13	-	-
WBND170	Nadia	Tehatta	Shyamnagar	23.79291	88.48747	Dug Well	8	Unconfined	-	7	6.61	6.64
WBBM004	Purba Barddhaman	Barddhaman Sadar	Burdwan Dug well	23.2329	87.86528	Dug Well	10.31	Unconfined	2.43	8.03	1.95	1.94
WBBM017 A	Purba Barddhaman	Jamalpur	Ajahpur	23.14035	88.05345	Dug Well	9.5	Unconfined	3.09	3.35	3.94	3.48
WBBM031	Purba Barddhaman	Jamalpur	Gopalpur	23.090984	88.099088	Dug Well	-	Unconfined	2.21	10.96	1.66	1.65
WBBM039 A	Purba Barddhaman	Ausgram I	AUSGRAM	23.52695	87.63238	Dug Well	7.5	Unconfined	8.11	5.41	5.38	6.17
WBBM059	Purba Barddhaman	Bhatar	Orgram	23.44088	87.77068	Dug Well	10.5	Unconfined	8.87	2.55	3.82	4.62
WBBM081 A	Purba Barddhaman	Bardhaman	AMRA (Mandirtala)	23.20835	87.94847	Dug Well	8.8	Unconfined	4.48	1.11	5.28	4.63
WBBM084 A	Purba Barddhaman	Memari I	Pallaroad	23.16765	87.98996	Dug Well	5.1	Unconfined	3.43	2.81	2.26	2.12
WBBM105	Purba Barddhaman	Memari I	Dakshin Radhakantapur	23.18525	88.09087	Dug Well	8.5	Unconfined	-	0.43	0.39	0.98
WBBM107	Purba Barddhaman	Kalna-II	Singarkone	23.1625	88.273056	Dug Well	14.8	Unconfined	1.47	0.87	0.87	1.15
WBBM109	Purba Barddhaman	Katwa II	Dainhat	23.60691	88.17107	Dug Well	8.5	Unconfined	1.7	3.68	0.99	1.12
WBBM154 A	Purba Barddhaman	Jamalpur	Haibatpur	23.14732	88.00319	Dug Well	5	Unconfined	3.19	5.59	2.68	2.52
WBBM155	Purba Barddhaman	Jamalpur	Berugram (Moralpara)	23.09656	87.99033	Dug Well	10.5	Unconfined	4.69	6.43	2.71	2.69
WBBM156	Purba Barddhaman	Kalna ?	Raipur	23.23871	87.95827	Dug Well	8.85	Unconfined	3.96	2.34	2.22	2.58
WBBM161	Purba Barddhaman	Ausgram	Chak-Radha mohanpur	23.48547	87.64269	Dug Well	24.5	Unconfined	6.23	2.45	1.97	2.39
WBBM180	Purba Barddhaman	Ausgram II	Chora	23.56732	87.60258	Dug Well	14	Unconfined	6.63	0.89	1.47	2.22
WBBM185	Paschim Barddhaman	Durgapur-Faridpur	North Avenue	23.590657	87.285038	Dug Well	-	Unconfined	1.33	0.59	0.62	0.77

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBBM186	Paschim Barddhaman	Durgapur-Faridpur	Gamon Colony	23.566843	87.240151	Dug Well	-	Unconfined	6.06	1.6	1.77	2.48
WBBM187	Paschim Barddhaman	Durgapur-Faridpur	Lal Maidan	23.575579	87.28775	Dug Well	-	Unconfined	2.25	0.57	1.79	2.1
WBBM188	Paschim Barddhaman	Durgapur-Faridpur	Banagram	23.57129	87.235954	Dug Well	-	Unconfined	1.36	1.15	1.04	1.12
WBBM213	Purba Barddhaman	Kalna I	Dhatrigram	23.26829	88.3245	Dug Well	3	Unconfined	0.73	0.54	-	0.68
WBBM214	Purba Barddhaman	Kalna I	Purba Sahapur	23.20448	88.37795	Dug Well	5	Unconfined	1.06	0.52	-	0.66
WBBM002	Paschim Barddhaman	Durgapur	Piala Dug well	23.528	87.30328	Dug Well	10.52	Unconfined	2.86	1.19	1.88	2.18
WBBM003	Paschim Barddhaman	Kanksa	Kanksa Dug well	23.47816	87.45149	Dug Well	10.78	Unconfined	9.82	3.94	6.11	8.26
WBBM012	Paschim Barddhaman	Salanpur	Ethora Dug well	23.74613	86.921	Dug Well	10.97	Unconfined	2.91	1.18	1.53	1.35
WBBM032	Paschim Barddhaman	Andal	Andal	23.58157	87.19871	Dug Well	11.5	Unconfined	1.37	2.63	1.86	0.89
WBBM033B	Paschim Barddhaman	Asansol	Asansol B	23.68497	86.9774	Dug Well	15	Unconfined	1.37	1.93	1.5	1.49
WBBM034	Paschim Barddhaman	Baraboni	Gourandih	23.81567	86.99416	Dug Well	5.48	Unconfined	2.65	1.66	1.59	1.73
WBBM036B	Paschim Barddhaman	Kulti	Neamatpur A	23.71703	86.88078	Dug Well	9	Unconfined	1.34	0.99	1.04	0.65
WBBM037	Paschim Barddhaman	Jamuria II	Pandabeswar	23.71186	87.27676	Dug Well	8.5	Unconfined	4.46	1.35	2.91	2.45
WBBM038	Paschim Barddhaman	Durgapur	Bhiringi	23.55258	87.27194	Dug Well	5.45	Unconfined	2.99	1.42	1.64	1.87
WBBM046	Paschim Barddhaman	Kulti	Barakar	23.74501	86.81464	Dug Well	7.8	Unconfined	2.01	1.43	1.64	1.88
WBBM047	Paschim Barddhaman	Salanpur	Salanpur	23.76197	86.87581	Dug Well	15.8	Unconfined	3.87	1.62	3.59	3.1
WBBM048	Paschim Barddhaman	Salanpur	Rupnarayanpur	23.81486	86.8851	Dug Well	9.5	Unconfined	-	5.19	-	5.44
WBBM069	Paschim Barddhaman	Kulti	Kultora	23.72012	86.86966	Dug Well	11.16	Unconfined	1.51	0.97	0.69	0.63
WBBM074	Paschim Barddhaman	Durgapur	DESHBANDHU Nagar	23.48391	87.33512	Dug Well	8.3	Unconfined	8.92	3.05	7.36	4.98
WBBM102	Paschim Barddhaman	Durgapur	DURGAPUR Barrage	23.48183	87.30869	Dug Well	6	Unconfined	4.2	2.2	3.48	2.72

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBBM104 B	Paschim Barddhaman	Kanksa	Silampur (New)	23.41548	87.43209	Dug Well	8	Unconfined	4.77	3.53	3.97	4.47
WBBM110	Paschim Barddhaman	Andal	Dakshin Khanda	23.61553	87.21762	Dug Well	14.8	Unconfined	8.39	2.61	2.9	3.85
WBBM111 A	Paschim Barddhaman	Raniganj	Bogra	23.66348	87.06074	Dug Well	3.7	Unconfined	2.46	1.38	1.9	1.94
WBBM112	Paschim Barddhaman	Hirapur	Hirapur	23.66157	86.93676	Dug Well	8.95	Unconfined	1.42	1.06	1.17	1.41
WBBM113	Paschim Barddhaman	Jamuria I	Mondalpur	23.68877	87.0854	Dug Well	18	Unconfined	9.41	2.72	3.24	3.79
WBBM114	Paschim Barddhaman	Barabani	Domohani Bazar	23.75639	87.02348	Dug Well	14.95	Unconfined	5.24	1.11	2.06	2.28
WBBM115	Paschim Barddhaman	Jamuria II	Ikra	23.6969	87.11218	Dug Well	18.9	Unconfined	2.32	1.55	1.26	1.8
WBBM116	Paschim Barddhaman	Jamuria II	DOBRANA (New kenda)	23.67759	87.17407	Dug Well	16	Unconfined	4.69	3.38	4.44	7.77
WBBM121	Paschim Barddhaman	Assansol	Kalla	23.70597	86.99678	Dug Well	11.5	Unconfined	5.12	1.58	2	1.69
WBBM122	Paschim Barddhaman	Jamuria I	Damodarpur	23.69881	87.07917	Dug Well	37	Unconfined	13.36	11	12.21	12
WBBM157	Paschim Barddhaman	Kanksa	Kuldiha	23.54354	87.40665	Dug Well	6.8	Unconfined	1.67	0.71	0.6	0.88
WBBM158	Paschim Barddhaman	Jamuria	Satgram	23.65701	87.07944	Dug Well	5.3	Unconfined	3.08	1.88	2.5	3.68
WBBM167	Paschim Barddhaman	Baraboni	Lalganj	23.76771	86.94497	Dug Well	36	Unconfined	3.52	2.67	2.2	2.53
WBBM169 A	Paschim Barddhaman	Assansol	Assansol	23.69258	86.96637	Dug Well	5	Unconfined	4.59	1.66	0.77	0.83
WBBM170	Paschim Barddhaman	Assansol	Kanyapur	23.72746	86.94761	Dug Well	10	Unconfined	3.88	1.5	1.64	1.69
WBBM171 A	Paschim Barddhaman	Assansol	Dadkha	23.7072	86.97785	Dug Well	15	Unconfined	8.9	1.74	1.67	1.79
WBBM172	Paschim Barddhaman	Kulti	Kulti	23.72639	86.85144	Dug Well	10	Unconfined	1.06	0.15	0.09	0.18
WBBM173	Paschim Barddhaman	Assansol	Burnpur	23.6729	86.94619	Dug Well	10	Unconfined	2.26	1.96	1.84	1.89
WBBM174	Paschim Barddhaman	Andal	Babuisal	23.59601	87.16346	Dug Well	12	Unconfined	4.51	3.09	4.32	4.4
WBBM175	Paschim Barddhaman	Raniganj	Raniganj	23.61379	87.11354	Dug Well	10	Unconfined	1.25	1.02	0.85	1.13

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBBM176	Paschim Barddhaman	Jamuria II	Pandaveswar	23.71132	87.26694	Dug Well	14	Unconfined	2.06	0.94	1.74	3.01
WBBM177	Paschim Barddhaman	Jamuria II	Gaighata	23.67962	87.20213	Dug Well	14	Unconfined	5.33	3.29	4.65	5.37
WBBM178	Paschim Barddhaman	Andal	Andal Gram	23.58156	87.21707	Dug Well	18	Unconfined	7.33	2.61	2.56	5.32
WBBM179	Paschim Barddhaman	Durgapur	Gopalmath	23.57337	87.23063	Dug Well	20	Unconfined	7.13	1.85	2.72	4.05
WBBM181	Paschim Barddhaman	KANKSA	Domra	23.52041	87.45394	Dug Well	15	Unconfined	2.32	1.13	0.89	1.15
WBBM182	Paschim Barddhaman	KANKSA	Kanksa	23.47827	87.45134	Dug Well	20	Unconfined	11.5	4.39	3.9	5.77
WBBM184	Paschim Barddhaman	KANKSA	Kanksa	23.48997	87.45765	Dug Well	16	Unconfined	4.87	3.78	3.38	3.96
WBBM189	Paschim Barddhaman	Andal	Dignata Andal	23.58596	87.19743	Dug Well	10	Unconfined	3.09	1.59	2.58	2.71
WBBM190	Paschim Barddhaman	SALANPUR	Dendua More	23.78137	86.86872	Dug Well	18	Unconfined	1.77	1.48	1.49	1.5
WBBM191	Paschim Barddhaman	SALANPUR	Chittaranjan	23.82817	86.90061	Dug Well	6	Unconfined	1.07	2.73	4.25	4.78
WBBM192	Paschim Barddhaman	SALANPUR	Samdi	23.7833	86.91931	Dug Well	15	Unconfined	4.09	1.5	2.04	2.71
WBBM197	Paschim Barddhaman	Kanksa	Piariganj	23.53867	87.46975	Dug Well	6	Unconfined	2.73	1.9	2.23	3.11
WBBM199	Paschim Barddhaman	Andal	Andal	23.58282	87.19281	Dug Well	5	Unconfined	5.21	1.76	2.25	3.11
WBBM200	Paschim Barddhaman	Andal	Ukhra	23.65323	87.23589	Dug Well	4	Unconfined	3.67	0.95	1.52	1.89
WBBM201	Paschim Barddhaman	Andal	Bankola	23.6637	87.23867	Dug Well	7	Unconfined	9.81	5.7	8.65	8.84
WBBM202	Paschim Barddhaman	Kulti	Barakar	23.74211	86.81479	Dug Well	7	Unconfined	5.98	3.17	7.78	3.92
WBBM215	Paschim Barddhaman	Jamuria I	Jammuria	23.70405	87.08403	Dug Well	5	Unconfined	4.63	2.92	2.27	2.79
WBBM216	Paschim Barddhaman	Kulti	Sanasitala	23.73274	86.83347	Dug Well	4	Unconfined	0.74	0.73	0.98	1.3
WBBM185	Paschim Barddhaman	Durgapur-Faridpur	North Avenue	23.590657	87.285038	Dug Well	-	Unconfined	1.33	0.59	0.62	0.77
WBBM186	Paschim Barddhaman	Durgapur-Faridpur	Gamon Colony	23.566843	87.240151	Dug Well	-	Unconfined	6.06	1.6	1.77	2.48

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBBM187	Paschim Barddhaman	Durgapur-Faridpur	Lal Maidan	23.575579	87.28775	Dug Well	-	Unconfined	2.25	0.57	1.79	2.1
WBBM188	Paschim Barddhaman	Durgapur-Faridpur	Banagram	23.57129	87.235954	Dug Well	-	Unconfined	1.36	1.15	1.04	1.12
WBBM203	Paschim Barddhaman	Kanska	Arrahgram	23.52204	87.37092	Dug Well	6	Unconfined	3.73	1.44	2.39	2.83
WBMD04	Malda	Habibpur	Habibpur	25.023	88.2857	Dug Well	12.32	Unconfined	2.85	0.4	1.4	2.14
WBMD06	Maldah	Gazole	Deotala	24.855	88.008	Dug Well	8.45	Unconfined	3.22	1.34	1.98	-
WBMD06A	Malda	Gazole	Deotala	25.2841	88.2919	Dug Well	5	Unconfined	-	-	-	1.84
WBMD07C	Malda	Bamangola	Bamangola	25.166	88.3418	Dug Well	15.54	Confined	8	3.55	4.38	4.57
WBMD11	Malda	Old Malda	Mochia	24.9636	88.2235	Dug Well	10.43	Unconfined	5.24	4.13	3.13	3.58
WBMD14	Malda	Malda	Malda Town	25.0029	88.1355	Dug Well	16.2	Unconfined	8.89	1.44	2.89	3.37
WBMD15	Malda	Gazole	Masaldighi	25.2445	88.1689	Dug Well	16.54	Unconfined	11.96	-	4.19	6.53
WBMD22	Malda	Gazolel	Gajol(Rangavita)	25.2208	88.1949	Dug Well	55	Unconfined	-	-	1.8	2.77
WBMD24A	Malda	Gazole	Agampur	25.1841	88.2628	Dug Well	6	Unconfined	10.53	-	3.89	4.41
WBMD27	Malda	Bamangola	Makuli	25.1154	88.3667	Dug Well	16.4	Unconfined	3.55	-	1.93	3.8
WBMD29	Malda	English Bazar	Milki (Krishnanagar)	25.0346	88.0214	Dug Well	8.94	Unconfined	6.64	-	2.18	5.09
WBMD31B	Malda	Manikchak	Begamganj (Nazirpur)	25.1339	87.9183	Dug Well	16.4	Unconfined	9.43	-	3.7	4.62
WBMD26B	Malda	Bamangola	Thinagar (Pakua)	25.13312	88.37007	Dug Well	10	Unconfined	-	-	-	2.73
WBMD32A	Malda	Ratua I	Shamsi	25.28361	88.01083	Dug Well	9.75	Unconfined	-	-	2.82	2.91
WBMD58	Malda	Kaliachak III	Birnagar(1)	24.8361	87.952	Dug Well	50	Unconfined	2.86	1.9	2.12	2.37
WBMD60	Malda	Kaliachak I	Khaschandpur (Makku Sahutala)	24.8529	88.011	Dug Well	55	Unconfined	5.02	3.8	3.92	4.09
WBMD62	Malda	English Bazar	Choto Mohanpara (1)	25.0258	88.0483	Dug Well	50	Unconfined	6.77	5.38	5.06	5.66
WBMD63	Malda	English Bazar	Choto Mohanpara (2)	25.0255	88.0472	Dug Well	10.23	Unconfined	8.23	6.8	4.95	5.51
WBMD66	Malda	Manikchak	Mohana (1)	25.087	87.9216	Dug Well	8.2	Unconfined	6.16	2.4	3.2	4.13
WBMD67	Malda	Manikchak	Mohana (2)	25.0874	87.9223	Dug Well	8.2	Unconfined	8.21	3.17	3.35	4.33
WBMD71	Malda	Ratua I	Ratanpur Hat (Samshi)	25.2874	88.0006	Dug Well	9.7	Unconfined	1.73	0.26	0.58	1.06
WBMD73	Malda	GaZole	Matoil	25.2205	88.1495	Dug Well	15.3	Unconfined	8.84	6.4	3.32	4.36

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBMD75	Malda	Gazole	Pandua 1	25.1286	88.1535	Dug Well	29.7	Unconfined	-	2.47	7.41	10.38
WBMD76	Maldah	Ratua-II	Pirgai	25.128333	88.03638889	Dug Well	-	Unconfined	-	4.45	5.22	7.55
WBMD79	Malda	Habibpur	Tajpur	25.0062	88.2657	Dug Well	15.96	Unconfined	6.88	2.29	2.44	3.86
WBMD80	Malda	Gazole	Ghaksole	25.1816	88.178	Dug Well	16.8	Unconfined	9.21	1.9	2.21	2.74
WBMD86	Malda	Bamongola	Paikpara	25.1636	88.3761	Dug Well	50	Unconfined	8.22	0.18	2.5	2.89
WBMD87	Malda	Bamongola	Charakdanga	25.224	88.4064	Dug Well	55	Unconfined	3.2	3.13	3.51	3.02
WBMD88	Malda	Bamongola	Nalagola	25.2601	88.422	Dug Well	60	Unconfined	5.16	1.08	1.92	2.56
WBMD93	Malda	Gazole	Gazole(Kadubari)	25.213	88.1832	Dug Well	60	Unconfined	8.03	0.3	1.25	1.61
WBMD95A	Malda	Kaliachak I	Jalalpur	24.8944	88.0739	Dug Well	5	Unconfined	3.36	-	2.27	2.98
WBMD98	Malda	Gazole	Panchamukhi	25.247	88.244	Dug Well	60	Unconfined	-	6.65	4.44	9.15
WBMD107	Malda	English Bazar	Mangalbari (Behula Bridge)	25.0249	88.1602	Dug Well	60	Unconfined	9.45	4.3	4.16	5.28
WBJL01	Alipurduar	Kumargram	Kumargram	26.61593	89.82878	Dug Well	3.4	Unconfined	3.07	2.72	3.39	2.98
WBJL02B	Alipurduar	Kalchini	HASIMARA	26.72475	89.34975	Dug Well	10	Unconfined	7.53	3.5	5.08	6.74
WBJL03	Alipurduar	Madarihat	Madarihat	26.69452	89.26176	Dug Well	5.39	Unconfined	2.75	1.85	2.25	2.57
WBJL04	Alipurduar	Falakata	Falakata	26.51474	89.19953	Dug Well	5.3	Unconfined	5.4	4.46	4.95	5.4
WBJL13A	Alipurduar	Kalchini	Jaigaon	26.83947	89.38029	Dug Well	21.78	Unconfined	21	13.7	18.75	21.7
WBJL24	Alipurduar	Alipurduar-II	Bhatibari	26.444166	89.625	Dug Well	5.77	Unconfined	-	2.47	3.44	4.03
WBJL25A	Alipurduar	Kumargram	Barovisa More	26.4731	89.79895	Dug Well	9	Unconfined	4.15	1.77	3.34	4.19
WBJL26C	Alipurduar	Alipurduar I	Alipurduar	26.49722	89.52406	Dug Well	8	Unconfined	3.73	2.61	3.45	3.86
WBJL29B	Alipurduar	Falakata	Jateswar	26.61531	89.14734	Dug Well	8.53	Unconfined	2.34	1.58	2.15	2.46
WBJL37B	Alipurduar	Madarihat	UTTAR SHISHUBARI	26.68852	89.17064	Dug Well	5	Unconfined	3.79	2.57	2.91	3.15
WBJL38	Alipurduar	Alipurduar I	Gharagharia	26.46679	89.42959	Dug Well	-	Unconfined	-	2.45	4.19	5.17
WBJL39	Alipurduar	Alipurduar II	Salsalabari	26.48764	89.59029	Dug Well	6.5	Unconfined	4.26	2.09	3.61	4.33
WBJL47	Alipurduar	Kumargram	Kamekshaguri (Shantinagar)	26.46125	89.72002	Dug Well	21	Unconfined	3.74	1.02	2.39	3.44
WBJL48	Alipurduar	Kumargram	Hemaguri	26.5603	89.82348	Dug Well	4.7	Unconfined	2.55	2	2.51	2.6
WBJL49	Alipurduar	Kalchini	Dabri	26.68818	89.40527	Dug Well	18	Unconfined	3.26	2.03	2.02	2.4
WBJL56	Alipurduar	Falakata	Bengkandi	26.63399	89.14578	Dug Well	7.46	Unconfined	4.84	4.18	4.54	4.86

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBJL58	Alipurduar	Kalchini	Millpara Pampu Basti	26.60951	89.52908	Dug Well	10.24	Unconfined	2.4	1.79	1.94	2.24
WBJL73	Alipurduar	Kumargram	Madhya Kamekshaguri	26.45147	89.71938	Dug Well	8	Unconfined	3.24	1.58	2.4	3.09
WBJL74	Alipurduar	Kumargram	Telipara	26.47607	89.76711	Dug Well	7	Unconfined	-	0.31	2.6	3.54
WBJL76	Alipurduar	Kalchini	Raja Bhat Khawa	26.61464	89.53039	Dug Well	9	Unconfined	2.6	2.07	2.11	2.48
WBJL87	Alipurduar	Kumargram	Ghoramara	26.54847	89.82097	Dug Well	5	Unconfined	3.23	2.65	3.17	3.37
WBJL88	Alipurduar	Kumargram	Ghoksapara	26.53445	89.82036	Dug Well	5	Unconfined	2.83	2.29	2.91	2.89
WBJL89A	Alipurduar	Kumargram	Radhanagar	26.49972	89.81139	Dug Well	-	Unconfined	4.22	2.08	3.92	4.29
WBJL93	Alipurduar	MADARIHAT	Madhya Ragali Bajna	26.684	89.216	Dug Well	4	Unconfined	1.76	1.49	1.54	1.74
WBDL01A	Darjeeling	Kurseong	Sukna	26.79109	88.36259	Dug Well	11	Unconfined	8.5	2.83	4.06	8.05
WBDL02A	Darjeeling	Siliguri	Siliguri	26.72268	88.41589	Dug Well	4	Unconfined	2.32	0.36	1.58	1.18
WBDL04A	Darjeeling	Naxalbari	Naxalbari	26.68483	88.20224	Dug Well	3.8	Unconfined	3.5979	2.0179	3.3279	3.43
WBDL05	Darjeeling	Kurseong	Sevoke	26.88066	88.47256	Dug Well	3.63	Unconfined	5.52	4	4.73	5.39
WBDL07	Darjeeling	Kharibari	Kharibari	26.55574	88.19235	Dug Well	7.95	Unconfined	4.87	1.34	2.5	3.88
WBDL08	Darjeeling	Naxalbari	Trihana	26.76737	88.26017	Dug Well	8.42	Unconfined	10.29	2.82	6.96	8.16
WBDL09A	Darjeeling	Kharibari	Batasi	26.60235	88.1795	Dug Well	9	Unconfined	5.46	3.85	5.09	5.42
WBDL10A	Darjeeling	Kharibari	Galgalia	26.52656	88.14424	Dug Well	5.98	Unconfined	4.07	1.59	2.79	3.6
WBDL11	Darjeeling	Naxalbari	Bagdogra	26.69743	88.31733	Dug Well	8.9	Unconfined	6.42	3.25	4.56	5.75
WBDL12B	Darjeeling	Phasidewa	Ambarimore	26.57363	88.27923	Dug Well	12	Unconfined	3.82	0.9	1.85	2.65
WBDL13A	Darjeeling	Phasidewa	Phansidewa	26.58867	88.36565	Dug Well	11.26	Unconfined	3.52	1.32	2.74	2.6
WBDL14	Darjeeling	Siliguri	Siliguri	26.70495	88.42662	Dug Well	10	Unconfined	8.33	2.85	5.09	6.13
WBDL15	Darjeeling	Matigara	Matigara	26.7203	88.3831	Dug Well	9	Unconfined	7.79	1.64	6.62	7.71
WBDL16	Darjeeling	Matigara	Tumbajote	26.713612	88.3952789	Dug Well	-	Unconfined	5.33	1.09	3.24	5.62
WBDL18	Darjeeling	Phasidewa	Gayaganga Kanthi Vita	26.58814	88.31997	Dug Well	7.1	Unconfined	6.18	3.09	4.03	4.93
WBDL20	Darjeeling	Naxalbari	Kamalpur	26.712	88.30755	Dug Well	4.3	Unconfined	2.86	2.09	2.59	2.77
WBDL22	Darjeeling	Kharibari	Chakkar Mari	26.52382	88.14377	Dug Well	5.7	Unconfined	1.81	0.49	1.28	3.34
WBDL23A	Darjeeling	Kharibari	Kharibari	26.55481	88.19081	Dug Well	6	Unconfined	5.13	1.73	3.35	4.3
WBDL24	Darjeeling	Phansidewa	Ghosh Pukur	26.587223	88.27471	Dug Well	-	Unconfined	5.4	1.8	4.89	5.32

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
					92							
WBDL25A	Darjeeling	Naxalbari	Prasadjyote	26.65758	88.18225	Dug Well	6	Unconfined	2.31	0.66	1.77	1.77
WBDL26	Darjeeling	Kharibari	Demra Vita	26.57512	88.17504	Dug Well	5.71	Unconfined	3.34	0.82	1.85	2.73
WBDL27	Darjeeling	Kharibari	Kadamani	26.55955	88.12047	Dug Well	6.09	Unconfined	3.25	1.34	2.27	2.97
WBDL28	Darjeeling	Kharibari	Sonachandi	26.56946	88.23416	Dug Well	8.38	Unconfined	2.89	1.87	2.41	2.87
WBDL29	Darjeeling	Phasidewa	Tuta Pakri Basti (Bakuline)	26.58763	88.3137	Dug Well	8.05	Unconfined	5.05	1.96	2.95	3.8
WBDL30	Darjeeling	Phasidewa	Leusi Pakuri	26.63131	88.37584	Dug Well	7.35	Unconfined	3.36	0.84	2.67	3.37
WBDL31	Darjeeling	Kharibari	Kochaiyote	26.54792	88.16618	Dug Well	8	Unconfined	2.27	0.49	1.55	2.28
WBDL32	Darjeeling	Phasidewa	Madati	26.54647	88.25716	Dug Well	8	Unconfined	4.86	2.41	3.28	3.28
WBDL34A	Darjeeling	Phasidwea	Rangapani	26.64615	88.36983	Dug Well	4	Unconfined	2.34	1.33	2.1	2.44
WBDL35	Darjeeling	Naxalbari	Panighata	26.75626	88.24007	Dug Well	9	Unconfined	6.77	3.5	4.35	5.96
WBDL36	Darjeeling	Naxalbari	Jabra More	26.74041	88.22175	Dug Well	9	Unconfined	9.56	2.38	3.88	3.88
WBDL37	Darjeeling	Naxalbari	Lalpur	26.70542	88.21319	Dug Well	8	Unconfined	0.95	0.42	0.92	0.94
WBDL38A	Darjeeling	Kharibari	Dulaljote	26.6282	88.17156	Dug Well	11	Unconfined	7.45	2.85	4.75	6.14
WBDL39	Darjeeling	Kharibari	Gurudayal Jote	26.5506	88.17784	Dug Well	9	Unconfined	3.3	1.85	2.73	2.73
WBDL40	Darjeeling	Phasidwea	Gangaram Tea Garden	26.63174	88.30832	Dug Well	8	Unconfined	7.73	2.1	3.29	5.52
WBDL41	Darjeeling	Phasidwea	Madati	26.54259	88.2508	Dug Well	8	Unconfined	-	1.84	2.62	3.45
WBDL42	Darjeeling	Phasidwea	Baneswar	26.60398	88.37971	Dug Well	5	Unconfined	2.68	0.38	1.82	1.82
WBDL43	Darjeeling	Phansidewa	Kalaram Ghosh Para	26.5894	88.2772	Dug Well	-	Unconfined	-	0.61	2.67	3.75
WBDL44A	Darjeeling	Matigara	Methibari	26.76759	88.38245	Dug Well	6	Unconfined	3.46	1.78	2.99	3.23
WBDL45	Darjeeling	Siliguri	Chanbarjot	26.69716	88.36989	Dug Well	6	Unconfined	3.54	0.55	2.61	1.55
WBDL47	Darjeeling	Naxalbari	Bagdogra	26.70207	88.33373	Dug Well	5	Unconfined	2.95	1.87	2.44	3.15
WBDL48A	Darjeeling	Naxalbari	Prasadiyote	26.6561	88.18168	Dug Well	4	Unconfined	3.94	1.21	3.19	3.19
WBKB01B	Cooch Bihar	KOCHBIHAR	Coochbihar Town/ Nilkutrihat Bazar	26.34288	89.48761	Dug Well	4.41	Unconfined	3.5	0.98	1.86	2.82
WBKB03C	Cooch Bihar	Tufanganj-I	Tufanganj	26.321112	89.6663895	Dug Well	7.62	Unconfined	4.53	2.35	3.5	2.48
WBKB04	Cooch Bihar	Sitalkuchi	Sitalkuchi	26.16738	89.18204	Dug Well	8.16	Unconfined	3.4	1.16	1.75	2.35
WBKB05B	Cooch Bihar	Haldibari	Haldibari	26.33841	88.78173	Dug Well	5.5	Unconfined	2.2	0.68	1.29	1.75

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBKB06	Cooch Bihar	Mekhliganj	Mekhaliganj	26.34616	88.90835	Dug Well	6.03	Unconfined	2.35	1.53	1.99	2.38
WBKB07	Cooch Bihar	Kochbihar	Dewanhat	26.24462	89.48027	Dug Well	5.87	Unconfined	3.45	1.3	1.99	2.87
WBKB08A	Cooch Bihar	Dinhata-II	Gitaldaha	26.03073	89.47302	Dug Well	-	Unconfined	5.29	1.97	2.66	3.89
WBKB10	Cooch Bihar	Mathabhanga-I	Mathabhanga	26.34207	89.21352	Dug Well	5.86	Unconfined	3.79	1.9	3.02	3.59
WBKB11A	Cooch Bihar	Mathabhanga-I	Majherbari	26.43015	89.05795	Dug Well	5.5	Unconfined	4.88	1.31	2.83	3.83
WBKB12	Cooch Bihar	Kochbihar	Dudherkuti	26.29728	89.39378	Dug Well	4.63	Unconfined	5.01	1.96	2.78	3.53
WBKB13A	Cooch Bihar	Mekhliganj	Changra-Bandha	26.42063	88.91786	Dug Well	5.44	Unconfined	4.09	1.87	2.9	3.87
WBKB14A	Cooch Bihar	Tufanganj	Balarampur	26.24376	89.58536	Dug Well	8.6	Unconfined	5.09	1.86	3.21	4.56
WBKB17B	Cooch Bihar	Tufanganj	Chilakhana (Palpara)	26.30692	89.58841	Dug Well	6.15	Unconfined	4.18	1.94	3.27	4.02
WBKB18	Cooch Bihar	Mathabhanga-I	Khasbas Darikamari	26.41424	89.02434	Dug Well	6	Unconfined	3.16	1.16	2.01	2.65
WBKB20A	Cooch Bihar	Haldibari	Dhaprahat	26.27389	88.98611	Dug Well	4	Unconfined	2.62	0.56	1.25	1.89
WBKB21	Cooch Bihar	Dinhata-i	Gosanimari	26.13503	89.36238	Dug Well	6.05	Unconfined	4.65	2.62	3.43	4.1
WBKB22	Cooch Bihar	Sitai	Sitai	26.06323	89.29977	Dug Well	5.75	Unconfined	5.76	-	-	-
WBKB23	Cooch Bihar	Tufanganj-ii	Bakshirhat	26.33309	89.76628	Dug Well	4.75	Unconfined	3.39	1.23	2.1	2.91
WBKB25	Cooch Bihar	Mathabhanga-ii	Ghoksadanga	26.42455	89.276	Dug Well	5.8	Unconfined	4.7	1.91	2.93	4.11
WBKB27A	Cooch Bihar	Tufanganj-ii	Bochamari	26.40828	89.71811	Dug Well	4	Unconfined	3.3	1.47	2.23	2.89
WBKB31	Cooch Bihar	Coochbihar-I	Coochbihar	26.328	89.45223	Dug Well	8	Unconfined	1.25	0.66	1.05	1.22
WBKB32A	Cooch Bihar	CoochbiharII-I	Baneshwar	26.39891	89.49609	Dug Well	5.55	Unconfined	4.24	1.52	2.87	3.87
WBKB34	Cooch Bihar	Haldibari	Kesiabari	26.381	88.76265	Dug Well	6	Unconfined	2.01	0.96	1.38	1.71
WBKB37A	Cooch Bihar	Mekhliganj	Merigipur	26.34528	88.9241	Dug Well	5	Unconfined	2.75	1.06	1.62	2.22
WBKB38A	Cooch Bihar	Mekhliganj	Vot Bari	26.38137	88.9054	Dug Well	5	Unconfined	3.28	2.26	2.89	3.31
WBKB39B	Cooch Bihar	Mathabhanga- I	Ratanpur	26.43366	88.99175	Dug Well	5	Unconfined	3.56	2.04	2.46	3.1
WBKB40	Cooch Bihar	Mathabhanga- I	Bhogramguri	26.42691	89.07101	Dug Well	8	Unconfined	3.44	0.67	3.1	3.09
WBKB41	Cooch Bihar	Sitalkuchi	Gosaier Hat	26.19874	89.19082	Dug Well	8	Unconfined	3	0.6	1.56	2.08
WBKB42A	Cooch Bihar	Sahebgan	Sahebganj	26.11592	89.59559	Dug Well	5	Unconfined	3.52	0.91	1.57	2.51
WBKB43	Cooch Bihar	Coochbehar	Nababganj	26.23497	89.49081	Dug Well	4	Unconfined	2.95	0.97	1.65	2.47
WBKB45A	Cooch Bihar	Mekhliganj	Panishla	26.4418	88.94458	Dug Well	4	Unconfined	3.5	1.22	2.15	2.97
WBKB46	Cooch Bihar	Dinhata	Sahebganj	26.11554	89.54922	Dug Well	4	Unconfined	3.73	1.33	1.62	2.55

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBKB47A	Cooch Bihar	Dinhata II	Nazirhat	26.18479	89.57113	Dug Well	5	Unconfined	3.63	1.28	1.99	2.92
WBKB48A	Cooch Bihar	Dinhata I	Putimari	26.16706	89.46297	Dug Well	5	Unconfined	4.18	1.21	2.39	3.28
WBKB49	Cooch Bihar	Tufanganj II	Bochamari (Rasikbill)	26.41356	89.73177	Dug Well	4	Unconfined	-	-	3	2.96
WBJL05A	Jalpaiguri	Nagrakata	Nagrakata	26.88691	88.91605	Dug Well	13.1	Unconfined	10	4.05	8.39	10.83
WBJL06	Jalpaiguri	Matiali	Chalsa	26.8806	88.80347	Dug Well	5.96	Unconfined	3.51	1.23	2.52	3.89
WBJL08A	Jalpaiguri	Maynaguri	Maynaguri	26.56467	88.81938	Dug Well	5.86	Unconfined	5.08	1.03	2.86	4.07
WBJL09	Jalpaiguri	Jalpaiguri	Jalpaiguri	26.52195	88.7265	Dug Well	4.39	Unconfined	1.33	1.07	1.84	2.08
WBJL10C	Jalpaiguri	RAJGANJ	Salugara	26.76735	88.44543	Dug Well	18	Unconfined	-	6.92	8.15	10.38
WBJL15	Jalpaiguri	Dhupguri	Gayerkata	26.70287	89.02457	Dug Well	4.23	Unconfined	-	2.62	2.75	3
WBJL16B	Jalpaiguri	Dhupguri	New Salbarihat	26.5442	89.1055	Dug Well	6.24	Unconfined	3.87	0.88	1.9	3.11
WBJL17	Jalpaiguri	Matiali	Lataguri	26.69978	88.76386	Dug Well	5.1	Unconfined	2.76	1.59	2.4	2.89
WBJL18	Jalpaiguri	Rajganj	Rajganj	26.55574	88.515	Dug Well	8.7	Unconfined	7.7	1.8	5.8	8.57
WBJL19B	Jalpaiguri	Rajganj	Jatiakhali More	26.62789	88.43728	Dug Well	4	Unconfined	0.87	0.18	1.35	2.38
WBJL20	Jalpaiguri	Rajganj	Hathi More	26.58218	88.51322	Dug Well	9.85	Unconfined	5.02	1.69	4.27	5.85
WBJL21	Jalpaiguri	Rajganj	Indra More	26.60546	88.58778	Dug Well	12	Unconfined	5.09	0.97	2.12	4.59
WBJL22	Jalpaiguri	Jalpaiguri	Raninagar	26.53758	88.64378	Dug Well	9.6	Unconfined	2.67	1.54	2.55	3.15
WBJL23B	Jalpaiguri	Jalpaiguri	Konpakuri	26.44257	88.69982	Dug Well	4	Unconfined	3.2	0.53	1.06	1.91
WBJL28A	Jalpaiguri	Dhupguri	Karbola	26.7867	89.06446	Dug Well	10.4	Unconfined	6.96	3.85	6.17	6.83
WBJL30B	Jalpaiguri	Rajganj	Gadra	26.55405	88.45252	Dug Well	6	Unconfined	5.09	2.23	3.47	4.31
WBJL31	Jalpaiguri	Jalpaiguri	Berubari	26.41	88.70041	Dug Well	8.25	Unconfined	2.76	0.88	1.68	2.34
WBJL32	Jalpaiguri	Jalpaiguri	Ghugudanga	26.39971	88.7431	Dug Well	4.16	Unconfined	2.31	0.8	1.57	2.52
WBJL33	Jalpaiguri	Jalpaiguri	Purba Kumar Para	26.52021	88.68577	Dug Well	9.49	Unconfined	4.99	0.64	1.52	2.59
WBJL34	Jalpaiguri	Nagrakata	Khairbari	26.84381	88.91217	Dug Well	5.5	Unconfined	3.8	2.58	3.46	4.18
WBJL35C	Jalpaiguri	Mal	Mal Bazar	26.86595	88.73754	Dug Well	5	Unconfined	4.29	1.24	3.04	4.54
WBJL36A	Jalpaiguri	Mal	Baradighi	26.7965	88.74237	Dug Well	7.5	Unconfined	5.21	2.69	4.03	5.22
WBJL41A	Jalpaiguri	Phulwari Debgram	Phulwari Hat	26.65119	88.41808	Dug Well	7	Unconfined	4.97	0.97	2.46	4.19
WBJL42	Jalpaiguri	Mangalghat	Rakhal Devi	26.49002	88.71238	Dug Well	6.2	Unconfined	3.91	1.1	2.54	2.94
WBJL43	Jalpaiguri	Jalpaiguri	Panda Para Kalibari	26.50649	88.7154	Dug Well	47	Unconfined	3.47	-	1.79	3.1

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBJL44B	Jalpaiguri	Moynaguri	Bolbari (Lakhir Hat)	26.61822	88.78047	Dug Well	5	Unconfined	3.5	0.98	2.5	3.22
WBJL46	Jalpaiguri	Moynaguri	Brahmapur Bazar	26.456	88.88798	Dug Well	8.35	Unconfined	3.82	0.46	1.43	2.37
WBJL50A	Jalpaiguri	Dhupguri	Salbari	26.55277	89.0742	Dug Well	5	Unconfined	3.55	1	2.22	3.04
WBJL51A	Jalpaiguri	Dhupguri	Millpara	26.59309	89.00749	Dug Well	20	Unconfined	3.89	0.87	3.27	3.93
WBJL52	Jalpaiguri	Malbazar	Purba Tesimala	26.84171	88.74327	Dug Well	4.2	Unconfined	2.1	1.34	1.92	2.37
WBJL53	Jalpaiguri	Rajganj	Fatapukur	26.57185	88.53999	Dug Well	10.88	Unconfined	5.15	0.75	2.88	4.16
WBJL54	Jalpaiguri	Jalpaiguri	Dus Doroga	26.5472	88.60864	Dug Well	6.74	Unconfined	4.72	0.65	1.5	2.56
WBJL59A	Jalpaiguri	Rajganj	Bandhunagar	26.62174	88.46916	Dug Well	6	Unconfined	3.56	0.59	2.9	4.06
WBJL61B	Jalpaiguri	Rajganj	Kalinagar	26.56094	89.05327	Dug Well	8	Unconfined	6.77	1.78	4.98	6.2
WBJL64	Jalpaiguri	Dhupguri	Khali Gram	26.62397	88.45116	Dug Well	9	Unconfined	4.94	1.79	2.69	3.78
WBJL66	Jalpaiguri	Rajganj	Andgad Gadge	26.57794	88.57513	Dug Well	8	Unconfined	3.54	0.73	1.74	2.93
WBJL67	Jalpaiguri	Rajganj	Kaluwar Bari	26.57921	88.59843	Dug Well	9	Unconfined	7	2.48	4.96	6.33
WBJL68	Jalpaiguri	Rajganj	Belakoba Hospital Para	26.52324	88.67685	Dug Well	7	Unconfined	4.37	0.49	1.95	3.32
WBJL69	Jalpaiguri	Jalpaiguri	Jhabari More	26.55043	88.80715	Dug Well	8	Unconfined	4.64	0.92	2.21	4.36
WBJL70	Jalpaiguri	Maynaguri	Madhaboanga	26.62809	88.77546	Dug Well	7	Unconfined	2.05	0.31	1.18	1.63
WBJL71A	Jalpaiguri	Maynaguri	Boulbari	26.62806	88.77556	Dug Well	5	Unconfined	3.2	1.36	2.78	3.22
WBJL72B	Jalpaiguri	Maynaguri	VotPatty (Barua Para)	26.48571	88.85269	Dug Well	6	Unconfined	4.18	1.71	2.88	3.78
WBJL79	Jalpaiguri	Dhupguri	Gilandi Club Para	26.6143	89.00919	Dug Well	8	Unconfined	4.18	3.21	3.81	5.16
WBJL80	Jalpaiguri	Nagrakata	Nagrakata Club	26.88541	88.91444	Dug Well	9	Unconfined	6.79	2.5	5.12	7.66
WBJL81	Jalpaiguri	Matiali	Mahabari	26.8813	88.81444	Dug Well	9	Unconfined	10.06	2.35	-	9.61
WBJL82	Jalpaiguri	Malbazar	Damdim	26.86986	88.67143	Dug Well	9	Unconfined	5.92	1.58	4.8	6.5
WBJL83	Jalpaiguri	Rajganj	Balaigachh	26.58647	88.50832	Dug Well	9	Unconfined	4.83	0.68	3.54	4.73
WBJL84	Jalpaiguri	Nagrakata	Sulkapara	26.85295	88.91455	Dug Well	9	Unconfined	4.48	2.84	4.27	4.54
WBJL85	Jalpaiguri	Rajganj	Rajganj {Fatapukur}	26.56939	88.53493	Dug Well	5	Unconfined	5.09	0.78	1.71	2.94
WBJL90A	Jalpaiguri	Maynaguri	Madhav Danga	26.54704	88.82633	Dug Well	5	Unconfined	3.9	0.69	1.8	3.36
WBJL91A	Jalpaiguri	Mal	Chakmaulani	26.67195	88.76222	Dug Well	5	Unconfined	2.55	1.46	2.34	2.52
WBJL92	Jalpaiguri	Moynaguri	Daribiza	26.57154	88.80886	Dug Well	5	Unconfined	3.49	2.22	2.92	3.37
WBJL94	Jalpaiguri	MAL	Rangamati	26.86898	88.71138	Dug Well	6	Unconfined	4.7	3.1	4.06	4.68

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
			Overbridge									
WBWD08B	Dakshin Dinajpur	Kumarganj	Sundarpur	25.4739	88.7646	Dug Well	8.7	Unconfined	7.13	4.38	3.42	4.97
WBWD33	Dakshin Dinajpur	Tapan	Jithihar(Near Laskarhat)	25.2206	88.5848	Dug Well	9.84	Unconfined	-	-	5.1	8.69
WBWD58A	Dakshin Dinajpur	Tapan	Madnahar	25.2465	88.5837	Dug Well	11.62	Unconfined	-	6.26	5.72	6.95
WBWD74	Dakshin Dinajpur	Tapan	Balapur 2	25.2265	88.6456	Dug Well	21	Unconfined	3.48	2.08	2.13	2.09
WBWD76	Dakshin Dinajpur	Tapan	Rampur	25.3463	88.6328	Dug Well	4	Unconfined	3.15	0.65	3.08	1.59
WBWD77	Dakshin Dinajpur	Harirampur	Kismat Kasba	25.3119	88.3144	Dug Well	9.83	Unconfined	2.75	1.34	1.72	1.86
WBWD79	Dakshin Dinajpur	Bansihari	Patharghata (Panjuri Para)	25.3594	88.3569	Dug Well	9.87	Unconfined	7.61	2.84	2.9	6.07
WBWD81	Dakshin Dinajpur	Tapan	Dakshin Harsura 1	25.2184	88.6028	Dug Well	19.23	Unconfined	18.03	17.4	10.97	13.23
WBWD83	Dakshin Dinajpur	Tapan	Balapur 1	25.2274	88.6434	Dug Well	20	Unconfined	10.01	1.25	8.19	13.11
WBWD84A	Dakshin Dinajpur	Gangarampur	Shib Bari	25.4178	88.5387	Dug Well	5	Unconfined	3.73	2.43	2.55	2.65
WBWD94	Dakshin Dinajpur	Hili	Hili	25.2755	88.9871	Dug Well	4.3	Unconfined	3.61	2.73	2.09	2.57
WBWD95	Dakshin Dinajpur	Hili	Hili	25.2788	88.9968	Dug Well	6.75	Unconfined	3.49	1.88	2.06	2.35
WBWD128	Uttar Dinajpur	Itahar	Itahar (Uttarpara)	#N/A	#N/A	Dug Well	8	Unconfined	-	-	5.03	4.28
WBWD14	Uttar Dinajpur	Itahar	Amla Para (Durgapur)	25.5337	88.1509	Dug Well	4.79	Unconfined	3.17	2.64	2.53	2.81
WBWD16B	Uttar Dinajpur	Hemtabad	Malon	25.7491	88.3036	Dug Well	6	Unconfined	-	2.54	2.32	2.94
WBWD24	Uttar Dinajpur	Karandighi	Tungidighi	25.7614	87.9583	Dug Well	65	Unconfined	4.6	3.37	2.99	3.51
WBWD26	Uttar Dinajpur	Goalpokhar II	Kanki	26.0088	87.8589	Dug Well	10.4	Unconfined	3.22	1.51	2.03	1.99
WBWD42	Uttar Dinajpur	Kaliaganj	Dalimgaon	25.6421	88.3861	Dug Well	5.92	Unconfined	4.31	-	2.1	2.99
WBWD45B	Uttar Dinajpur	Chopra	Molani	26.4355	88.3675	Dug Well	5	Unconfined	3.27	2.68	2.85	2.46
WBWD73	Uttar Dinajpur	Chopra	Madaripur	26.3092	88.2608	Dug Well	10	Unconfined	5.95	2.13	3.34	3.82
WBWD47A	Uttar Dinajpur	Chopra	Panjipara	26.1418	88.0239	Dug Well	200	Confined	3.49	2.08	2.15	3.56
WBMB50A	Murshidabad	Farakka	Arjunpur (Bolde	24.717778	87.93305	Dug Well	43.69	Unconfined	6.83	0.89	2.02	2.04

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
			Pukur)		556							
WBMB02	Murshidabad	Murjiaganj	JIAGANJ	24.24337	88.258	Dug Well	11.19	Unconfined	7.15	4.1	5.24	5.49
WBMB06A	Murshidabad	Kandi	KANDI Dug well	23.95442	88.04543	Dug Well	8.75	Unconfined	3.47	1.68	2.08	2.15
WBMB11A	Murshidabad	Jalangi	JALANGI	24.12766	88.6797	Dug Well	7.03	Unconfined	7.05	4.75	6.3	5.56
WBMB13C	Murshidabad	Berhampur	DAULATABAD	24.14303	88.3757	Dug Well	8.08	Unconfined	7.45	0.65	3.94	5.05
WBMB15A	Murshidabad	Jalangi	SAGARPARA(kalital a)	24.22399	88.69964	Dug Well	8.08	Unconfined	7.2	4.45	5.05	5.18
WBMB33A	Murshidabad	Beldangai	BEGUNBARI Dug well	23.92102	88.27757	Dug Well	6.2	Unconfined	6.1	1.4	2.42	3.2
WBMB35	Murshidabad	Raninagarii	PARANPUR Dug well	24.26889	88.57164	Dug Well	15.2	Unconfined	7.2	4.8	4.8	4.9
WBMB55	Murshidabad	Samserganj	NATUN MALANCHA	24.67638	87.92289	Dug Well	10.2	Unconfined	5.6	0.37	1.38	3.11
WBMB70B	Murshidabad	Bharatpuri	GANGEDDA	23.92118	88.05386	Dug Well	10.97	Unconfined	5.74	1.65	2.15	2.65
WBMB75A	Murshidabad	Noada	CHANDIPUR	23.88143	88.45973	Dug Well	11	Unconfined	9.18	6.05	6.8	6.9
WBMB77	Murshidabad	Domkal	GOBINDAPUR	24.10937	88.57503	Dug Well	6.31	Unconfined	6.02	4.81	4.96	5.36
WBMB84A	Murshidabad	Raninagar-ii	KUPTALA	24.25753	88.59683	Dug Well	6.74	Unconfined	6.35	4.28	5.83	4.95
WBMB88A	Murshidabad	Raghunathganj-i	MIRZAPUR JAIN colony	24.40898	88.06855	Dug Well	16.49	UnConfined	15.3	14.4	14.82	14.84
WBMB91	Murshidabad	Bhagabangola-ii	SAIDPUR	24.28773	88.37266	Dug Well	9	Unconfined	-	6.8	6.3	6.6
WBMB152	Murshidabad	Jiaganj	Raichandpur	24.24872	88.27497	Dug Well	10.67	Unconfined	5.45	3.38	3.55	3.83
WBMB154	Murshidabad	Beldanga-I	Swarupnagar	23.91928	88.27376	Dug Well	13.72	Unconfined	4.5	2.97	1.97	3.42
WBMB177 A	Murshidabad	Naoda	Patakbari	23.8763	88.46475	Dug Well	9	Unconfined	8.5	6.15	7.07	7.28
WBMB186	Paschim Barddhaman	DURGAPUR FARIDPUR	Gamon Colony	23.56683	87.24018	Dug Well	4	Unconfined	8.73	6.31	5.29	-
WBMB187	Paschim Barddhaman	DURGAPUR FARIDPUR	Lal Maidan	23.57565	87.28773	Dug Well	4	Unconfined	7.4	1	3	5.55
WBNT01	N-24 Parganas	Bongaon	Gopalnagar	23.05993	88.75928	Dug Well	8.1	Unconfined	4.52	4.12	3.42	3.99
WBNT05A	N-24 Parganas	Barrackpur II	Ichapur Nababga	22.79243	88.35482	Dug Well	5.25	Unconfined	1.35	1.09	1.34	1.15
WBNT06B	N-24 Parganas	Barrackpur II	Sodpur	22.69906	88.37437	Dug Well	6.7	Unconfined	1.02	0.26	0.64	0.54
WBNT38	N-24 Parganas	Rajarhat	Rajarhat	22.63672	88.47848	Dug Well	4.2	Unconfined	0.96	0.19	0.56	0.7
WBNT40	N-24 Parganas	Barrackpur I	Halisahar	22.91639	88.44764	Dug Well	5.9	Unconfined	1.35	1.01	2.25	1.05

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBNT123	N-24 Parganas	Amdanga	Rangamahal	22.82227	88.52229	Dug Well	6	Unconfined	1.7	0.71	0.81	1.6
WBBB01	Birbhum	Mohammad Bazar	Ganpur	24.07114	87.67428	Dug Well	13.74	Unconfined	-	9.98	7.95	8.55
WBBB02	Birbhum	Rajnagar	Chandrapur	23.91739	87.39336	Dug Well	12.7	Unconfined	7.38	6.6	5.4	6.49
WBBB04	Birbhum	Nalhati	Nalhati	24.29777	87.82915	Dug Well	10.68	Unconfined	-	7.35	5.72	7.02
WBBB07	Birbhum	Sainthia	Sainthia	23.94616	87.67071	Dug Well	12.53	Unconfined	-	7.66	8.86	10.81
WBBB09	Birbhum	Illambazar	Illambazar	23.61785	87.53741	Dug Well	11.67	Unconfined	4.65	1	2.11	2.88
WBBB10A	Birbhum	Rampurhat I	Narayanpur	24.24115	87.68046	Dug Well	18	Unconfined	15.9	15.21	13.76	15.11
WBBB11A	Birbhum	Md. Bazar	Darsandari	24.05364	87.55868	Dug Well	8	Unconfined	6.64	3.6	3.3	5.7
WBBB12A	Birbhum	Siuri I	Siuri	23.91855	87.52001	Dug Well	8.55	Unconfined	3.69	1.8	1.22	2.55
WBBB13A	Birbhum	Rajnagar	Rajnagar	23.94385	87.32304	Dug Well	10.5	Confined	9	7.2	6.88	7.33
WBBB14	Birbhum	Khyrasol	Khayrasol	23.79111	87.26884	Dug Well	9.7	Unconfined	6.76	4.6	3.01	3.93
WBBB20A	Birbhum	Bolpur	Bolpur	23.6681	87.69101	Dug Well	20	Unconfined	12.54	8.15	9.14	11.21
WBBB21A	Birbhum	Bolpur-sriniketan	Bolpur	23.66378	87.69107	Dug Well	8	Unconfined	9.75	0.65	2.45	3.22
WBBB25	Birbhum	Illambazar	Jaydebkenduli	23.64276	87.43014	Dug Well	8.16	Unconfined	3.85	1.43	2.75	2.46
WBBB26B	Birbhum	Dubrajpur	Hetempur	23.78363	87.38667	Dug Well	15	Unconfined	9.04	7.18	6.38	7.51
WBBB27	Birbhum	Dubrajpur	Bakreshwar	23.88164	87.37477	Dug Well	6.39	Unconfined	2.94	2.22	2.34	2.64
WBBB28A	Birbhum	Mohammad Bazar	Mohamad Bazar	23.98522	87.56797	Dug Well	10.5	Unconfined	8.78	6.95	5.95	6.75
WBBB30	Birbhum	Rampurhat	Tumboni	24.19982	87.69407	Dug Well	13.99	Unconfined	9.97	6.44	6.14	7.51
WBBB36A	Birbhum	Bolpur	Baidyanathpur	23.68268	87.75526	Dug Well	8.4	Unconfined	7.56	2.15	4.45	4.93
WBBB42B	Birbhum	Suri II	Pathar Chapri	23.92479	87.43786	Dug Well	9	Unconfined	4.71	7.98	2.11	1.88
WBBB47	Birbhum	Bolpur	Shyambati	23.69125	87.68416	Dug Well	11.5	Unconfined	6.1	2.71	3.03	3.7
WBBB53B	Birbhum	Dubrajpur	Sahapur	23.79243	87.49648	Dug Well	8.33	Unconfined	4.17	2.2	2.6	3.07
WBBB56	Birbhum	Suri I	Garuijora	23.88217	87.53037	Dug Well	8	Unconfined	2.52	1.47	1.92	2.16
WBBB57	Birbhum	Suri I	Singur	23.87539	87.51881	Dug Well	8.5	Unconfined	-	1.5	2.03	1.87
WBBB58A	Birbhum	Suri II	Panuria	23.85444	87.50124	Dug Well	10.05	Unconfined	6	-	6.95	4.9
WBBB60	Birbhum	Suri II	Bhurkona	23.834	87.49179	Dug Well	5	Unconfined	3.75	1.22	1.95	2.28
WBBB63	Birbhum	Md.bazar	Khayrakuri	23.95568	87.52358	Dug Well	7	Unconfined	3.68	2.49	3.27	3.49
WBBB64	Birbhum	Md.bazar	Sheorakuri	23.97187	87.54364	Dug Well	14	Unconfined	8.93	2.4	3.35	4.63

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBBB66	Birbhum	Md.bazar	Jaypur	23.97355	87.55242	Dug Well	8	Unconfined	8.06	2.65	-	2.75
WBBB67B	Birbhum	Md. bazar	Chaptala	23.92506	87.53874	Dug Well	12.72	Unconfined	9.85	4.98	5.57	8.05
WBBB69B	Birbhum	Md. bazar	Dighalgram	24.0452	87.6415	Dug Well	21.28	Unconfined	-	2.23	2.88	8.08
WBBB70	Birbhum	Md.bazar	Banbataspur	24.04728	87.66005	Dug Well	5	Unconfined	4	0.65	1.56	2.16
WBBB72A	Birbhum	Md.bazar	Ganpur	24.07117	87.67066	Dug Well	12	Unconfined	12.35	9.86	8.34	9.11
WBBB73	Birbhum	Mohammad Bazar	Damra	24.102778	87.671669	Dug Well	9.4	Unconfined	6.45	2.33	3.07	6.55
WBBB74	Birbhum	Mohamad Bazar	Damra	24.1052	87.6689	Dug Well	12	Unconfined	6.66	1.87	1.45	2.52
WBBB75	Birbhum	Rampurhat I	Bartala	24.12028	87.67356	Dug Well	8	Unconfined	5.98	-	-	3.87
WBBB77	Birbhum	Rampurhat I	Barjalbelpahari	24.1549	87.70166	Dug Well	12	Unconfined	2.2	1.85	2.7	3.95
WBBB78	Birbhum	Rampurhat I	Barjalbelpahari	24.15389	87.70263	Dug Well	10	Unconfined	5.08	2.17	2.75	5.03
WBBB79	Birbhum	Rampurhat-I	Dhanmara	24.190278	87.73444444	Dug Well	8.5	Unconfined	6.03	1.57	2.02	3.27
WBBB81	Birbhum	Rampurhat I	Kurukdighi	24.24264	87.72796	Dug Well	15	Unconfined	8.55	4.55	3.9	5.75
WBBB84A	Birbhum	Nalhati	Nasipur	24.29324	87.76056	Dug Well	5.5	Unconfined	1.33	0.52	0.47	0.5
WBBB85	Birbhum	Nalhati	Bhabanandapur	24.28997	87.75422	Dug Well	15	Unconfined	1.73	0.55	1.05	1.42
WBBB90	Birbhum	Murarai I	Abdullapur	24.498	87.86322	Dug Well	5	Unconfined	3.31	0.96	0.31	1.61
WBBB96	Birbhum	Khayasole	Bhaddi	23.85063	87.27473	Dug Well	8	Unconfined	3.86	2.52	2.55	2.76
WBBB128	Birbhum	Bolpur	Ruppur	23.663611	87.60583333	Dug Well	-	Unconfined	7.33	4.54	4.77	5.58
WBBB135	Birbhum	Dubrajpur	Gokrul	23.78538	87.35695	Dug Well	7.62	Unconfined	5.02	0.72	1.55	2.34
WBBB136	Birbhum	Mayureswar I	Dharaninagar	24.08333	87.6917	Dug Well	15.24	Unconfined	-	3.74	3.07	5.05
WBBB140	Birbhum	Bolpur	Ballavpur	23.6862	87.64825	Dug Well	12.19	Unconfined	6.46	4.93	5.32	5.65
WBBB142	Birbhum	Suri II	Bonsanka	23.80018	87.52833	Dug Well	12.19	Unconfined	-	0.27	0.85	0.97
WBBB144	Birbhum	Rampurhat-I	Kastagara	24.12	87.70305556	Dug Well	7.6	Unconfined	4.14	0.5	1.15	2.67
WBBB145A	Birbhum	Bolpur-Sriniketan	Muluk (Gayashpur)	23.65599	87.71158	Dug Well	15	Unconfined	1.75	1.7	3.35	6.74
WBBB146	Birbhum	Bolpur Sriniketan	Muluk	23.6525	87.7208328	Dug Well	-	Unconfined	3.55	1.25	1.9	2.47
WBBB148	Birbhum	Labpur	Labpur	23.81569	87.79676	Dug Well	18.28	Unconfined	4.73	0.72	3.33	6.95
WBBB149	Birbhum	Labpur	Lagata	23.808333	87.81777778	Dug Well	12.8	Unconfined	-	8.73	7.23	8.35

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBBB150	Birbhum	Bolpur-Sriniketan	Bondanga (Prantik)	23.69661	87.69723	Dug Well	7.01	Unconfined	4.38	0.63	1.85	2.73
WBBB151	Birbhum	Sainthia	Kopai	23.75662	87.69008	Dug Well	22.86	Unconfined	8.21	0.23	8.41	9.99
WBBB155	Birbhum	Bolpur-Sriniketan	Santiniketan(Sevapalli)	23.68195	87.6875	Dug Well	12	Unconfined	6.39	3.43	4.23	6.35
WBBB156	Birbhum	Bolpur-Sriniketan	Jamboni	23.66566	87.67431	Dug Well	10.66	Unconfined	4.12	1.85	1.73	2.5
WBBB157	Birbhum	Illambazar	Batikar (Big dia)	23.763056	87.52194444	Dug Well	9.14	Unconfined	7.68	1.74	6.37	6.85
WBBB158	Birbhum	Dubrajpur	Sahapur (Pachim Para)	23.79019	87.49444	Dug Well	27.43	Unconfined	3.22	0.95	1.15	3.45
WBBB159	Birbhum	Dubrajpur	Sahapur (Daspara)	23.7937	87.49336	Dug Well	18.28	Unconfined	3.97	1.35	2.66	1.22
WBBB160	Birbhum	Suri II	Eakdala	23.88355	87.54808	Dug Well	15.24	Unconfined	11.69	4.35	4.27	7.25
WBBB161	Birbhum	Suri II	Hatjanbazar	23.88424	87.53155	Dug Well	10.66	Unconfined	10.08	4.3	4.11	4.66
WBBB162	Birbhum	Suri II	Hatjanbazar	23.88548	87.53251	Dug Well	12.19	Unconfined	-	5.2	4.3	5.5
WBBB163	Birbhum	Suri I	Suri (PHED)	23.92099	87.51892	Dug Well	7	Unconfined	1.73	0.53	0.73	0.43
WBBB164	Birbhum	Suri I	Kariddha (Chora)	23.91272	87.4935	Dug Well	12	Unconfined	6.21	4.75	2.83	5.52
WBBB165A	Birbhum	Bolpur	Ballavpur 1	23.68521	87.65137	Dug Well	6	Unconfined	5.68	2.35	2.93	4.15
WBBB167	Birbhum	Illambazar	Bholagaria 1	23.778	87.5965	Dug Well	13.72	Unconfined	12.12	7.66	7.89	8.38
WBBB168	Birbhum	Rajnagar	Patharchapri	23.92057	87.43991	Dug Well	6.1	Unconfined	5.35	3.42	2.45	3.15
WBBB169	Birbhum	Rajnagar	Patharchapri	23.920278	87.43833333	Dug Well	6.096	Unconfined	-	3.95	3.43	3.82
WBBB170	Birbhum	Mohammad Bazar	Seorakuri	23.973333	87.53527778	Dug Well	9.144	Unconfined	-	-	-	5.15
WBBB171	Birbhum	Md.bazar	Seorakuri 2	23.97276	87.54215	Dug Well	10.0584	Unconfined	8.23	6.7	-	7.24
WBBB172	Birbhum	Md.bazar	Seorakuri 3	23.97192	87.54285	Dug Well	8.5344	Unconfined	8.59	6.06	5.98	6.08
WBBB173	Birbhum	Md.bazar	Joypur 1	23.97804	87.55341	Dug Well	10.668	Unconfined	5.96	5.02	5.76	5.48
WBBB174	Birbhum	Md.bazar	Joypur 2	23.97752	87.55192	Dug Well	10.668	Unconfined	7.05	5.02	4.81	6.12
WBBB175	Birbhum	Md.bazar	Joypur 3	23.97745	87.55173	Dug Well	12.192	Unconfined	7.41	6.35	5.22	6.15
WBBB176	Birbhum	Md.bazar	Md. Bazar 1	23.98453	87.56334	Dug Well	5.7912	Unconfined	4.06	0.92	1.05	1.75
WBBB177	Birbhum	Md.bazar	Md. Bazar 2	23.98485	87.56541	Dug Well	7.62	Unconfined	5.12	1.92	2.76	3.35
WBBB178	Birbhum	Md.bazar	Patel Nagar	23.98168	87.58438	Dug Well	6.7056	Unconfined	3.52	1.65	2.15	3.2
WBBB179	Birbhum	Md.bazar	Kumorpur	23.98174	87.57814	Dug Well	16.764	Unconfined	5.52	3.1	3.7	4.15
WBBB180	Birbhum	Md.bazar	Loha Bazar 1	23.98421	87.57264	Dug Well	9.7536	Unconfined	7.57	2.3	1.4	5.5

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBBB181	Birbhum	Mohammad Bazar	Loha Bazar	23.984167	87.57277778	Dug Well	7.62	Unconfined	9.27	2.3	3.2	4.31
WBBB182	Birbhum	Md.bazar	Loha Bazar	23.98443	87.5724	Dug Well	9.144	Unconfined	9.17	2.45	3.15	5.55
WBBB183	Birbhum	Mohammad Bazar	Sontsal	24.041944	87.60194444	Dug Well	12.192	Unconfined	5.53	3.15	3.55	4.27
WBBB185	Birbhum	Bolpur	Phuldanga	23.69205	87.68062	Dug Well	8	Unconfined	4.03	1.01	1.52	1.92
WBBB188	Birbhum	Bolpur-Sriniketan	Bimuria	23.66778	87.63725	Dug Well	9.14	Unconfined	5.26	0.78	2.1	4.13
WBBB190	Birbhum	Sriniketan	Surul	23.66798	87.66502	Dug Well	4	Unconfined	1.32	0.32	0.89	1.07
WBBB191	Birbhum	Sriniketan	Prantik	23.69341	87.69848	Dug Well	6	Unconfined	7.52	3.57	5.81	8.06
WBBB192	Birbhum	Rampurhat	Piarsala	24.19887	87.70068	Dug Well	7	Unconfined	4.32	2.65	3.05	3.62
WBBB193	Birbhum	Rajnagar	Nakash (Rajnagar)	23.94509	87.314	Dug Well	7	Unconfined	7.09	7.17	4.45	5
WBBB194	Birbhum	Kaayrasol	Lokpur	23.86966	87.28409	Dug Well	7	Unconfined	6.27	2.33	2.95	3.45
WBBB196	Birbhum	Labpur	Chouhatta	23.825278	87.75416667	Dug Well	-	Unconfined	-	4.92	5.03	6.23
WBBB198	Birbhum	Murarai I	Rajgram	24.540278	87.86777778	Dug Well	-	Unconfined	-	-	-	7.95
WBBB200	Birbhum	Sriniketan	Supur	23.6316	87.68455	Dug Well	6.71	Unconfined	5.74	2.05	2.05	2.85
WBBB204	Birbhum	Rampurhat I	Barjal	24.15299	87.70671	Dug Well	6	Unconfined	5.25	1.87	2.72	3.75
WBBB205	Birbhum	Rampurhat I	Kasthogora	24.12421	87.69294	Dug Well	8	Unconfined	7.86	0.88	2.45	4.95
WBBB207	Birbhum	Mayureswar	Mollarpur	24.07686	87.70048	Dug Well	5	Unconfined	-	-	1.3	9.06
WBBB15	Birbhum	Murarai I	Palsa	24.485277	87.8619461	Dug Well	-	Unconfined	2.83	-	2.05	2.55
WBBB19	Birbhum	Dubrajpur	Batikar	23.762777	87.52222	Dug Well	-	Unconfined	7.87	3.79	4.23	9.12
WBBB101	Birbhum	Nalhati	Amlai	24.303197	87.803403	Dug Well	-	Unconfined	-	-	-	15.87
WBBB184	Birbhum	Md.bazar	Dighalgram	24.048889	87.64416	Dug Well	-	Unconfined	9.72	3.07	2.93	4
WBST02B	S-24 Parganas	Kulpi	Hatuganj	22.16894	88.25387	Dug Well	4	Unconfined	2.16	1.07	0.62	2.07
WBST07	S-24 Parganas	Cmc	Budge Budge	22.48	88.2	Dug Well	3.9	Unconfined	1.11	1.55	0.88	0.56
WBST08	S-24 Parganas	Cmc	Barisha	22.46966	88.30998	Dug Well	4.88	Unconfined	-	1.28	0.63	0.2
WBST62C	S-24 Parganas	Maheshtala	Nungi	22.33	88.15	Dug Well	152	Unconfined	25.09	25.3	20.05	21.9
WBST84	S-24 Parganas	Falta II	Dostipur	22.27235	88.21685	Dug Well	11.1	Unconfined	2.26	1.27	1.33	0.53
WBST95	S-24 Parganas	Maheshtala	Goragacha	22.51777	88.31218	Dug Well	13.71	Unconfined	1.28	1.45	1.07	1.07

Well ID	Distrct	Block	Site Name	Latitude	Longitude	Types of Well	Well Depth(m)	Unconfined/ Semi Confined/ Confined	Apr,23	Aug,23	Nov,23	Jan,24
WBST96	S-24 Parganas	Diamond harbour	Uttar Hazipur	22.19712	88.18508	Dug Well	6.5	Unconfined	1.42	1.22	1.02	-
WBST13	S-24 Parganas	Falta	Falta Dw	22.3	88.11	Dug Well	-	Unconfined	2.26	-	-	2.61
WBST152	S-24 Parganas	Bishnupur II	Amtala	22.36512	88.27161	Dug Well	4	Unconfined	-	-	0.2	-
WBST155	S-24 Parganas	Falta	Falta	22.30206	88.1058	Dug Well	5	Unconfined	-	2	2.7	-
WBST185	S-24 Parganas	Gosaba	Arampur Gosaba	22.16533	88.79879	Dug Well	6	Unconfined	1.16	1.42	-	2.73
WBJL55	Alipurduar	Kumargram	Bara Daldali	26.5375	89.808	Dug Well		Unconfined	3.98	3.3	3.94	4.22
WBBB212	Birbhum	Mohammad Bazar	Hinglo	24.0778	87.537	Dug Well		Unconfined	-	1.55	2.13	2.58
WBBB32A	Birbhum	Rampurhat I	Rampurhat	24.178253	87.78285	Dug Well		Unconfined	0.74	0.96	0.75	2.28
WBBM035	Paschim Bardhaman	Salanpur	Chittaranjan	23.82817	86.90061	Dug Well		Unconfined	-	2.67	4.48	4.66
WBKB51	Cooch Behar	Dinhata-Ii	Choto Sakdal	26.161243	89.51928	Dug Well		Unconfined		0.83	2.33	3.42
WBBB206	Birbhum	Mohammad Bazar	Belgoria	23.969999	87.52361	Dug Well		Unconfined		3.85	-	3.95
WBJL60	Jalpaiguri	Rajganj	Gathigadge	26.570833	88.53333	Dug Well		Unconfined		1.22	2.42	4.56

Annexure XIX

Details of GWMWs in Kolkata City along with Monthly Measurements during 2023

Well Code	Location	Types of Well	Latitude	Longitude	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	July-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
WBCT05A	Salt Lake Pz	PZ	22.5765	88.4385	9.75	11.47	10.34	10.25	10.42	6.72	11.45		12.64	12.78	10.29	12.52
WBCT06	Kundghat	Tube Well	22.4895	88.3464	16.98	17.55	16.87	17.88	17.58	17.59	18.60	5.13	17.36	16.4	16.14	
WBCT08	Command Hospital	PZ	22.485	88.2962	16.38	16.59	16.95	17.36	17.58	17.80	18.57	17.56	18.32	17.04	17.1	16.78
WBCT09B	Dum Dum	Tube Well	22.6195	88.3907	19.25	19.09	20.72	21.07	18.92	21.72	21.68	8.79	22.34	20.83	19.67	21.42
WBCT12C	Rajabazar	Tube Well	22.5719	88.3759	18.7	19.89	20.20	18.75	21.57	20.61	21.35	14.39	20.2	23.18	20.91	19.97
WBCT13B	Bagbazar Tw	Tube Well	22.6066	88.3685	20.36	21.09	21.14	21.71	18.52	22.53	23.39	19.46	23.1	22.41		
WBCT14A	Sinthi (Belgachia)	Tube Well	22.6269	88.2962	18.9	19.6	20.82	20.62	20.95	21.58	13.30	12.69	19.39	21.38	20.38	21.2
WBCT17A	Jhautala	Tube Well	22.4849	88.2962	18.45	18.82	19.02	19.42	18.43	21.84	19.33	7.45	19.78	19.67	17.3	19.8
WBCT18	Fort Willam Pz I Deep	PZ	22.5534	88.335	6.98	6.81	7.44	18.44								
WBCT18A	Fort Willam Pz II Intermediat	PZ	22.5534	88.335	18.41	19.06	19.36	19.38								
WBCT18B	Fort William Pz III Shallow	PZ	22.5534	88.335	18.25	19.17	19.45	20.40								
WBCT19	Jadavpur Pz I	PZ	22.4895	88.3713	16.95	17.07	17.48	18.00	18.35	18.47	18.61	19.16	18.05	17.62	19.38	18.65
WBCT19A	Jadavpur Pz II	PZ	22.4895	88.3713	16.89	17.49	17.55	17.84	18.89	18.45	18.90	18.41	19.07	17.12	18.99	18.89
WBCT19B	Jadavpur Pz III	PZ	22.4895	88.3713	16.97	18.16	17.65	18.23	18.43	18.68	20.03	18.13	18.74	17.35	18.53	18.13
WBCT20	Baisnabghata Patuli	PZ	22.4708	88.3823	15.32	16.03	16.47	17.66		17.36	17.02	12.88	16.84	15.51	15.29	19.3
WBCT21	IA Park Salt Lake	CGWB OW	22.5733	88.4119	16.35		Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
WBCT 22	Raj Bhavan	PZ	22.5672	88.3479	19.78							21.08	19.78	20.53	20.36	21.98
WBCT23B	Bantala-Nutanhat	Pz	22.5907	88.4548	12.51	12.67	13.74	13.39	12.71	13.95	13.81	10.7	12.31	11.1	12.31	18.31

Well Code	Location	Types of Well	Latitude	Longitude	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	July-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
WBCT24	Bidhannagar	DW	22.57	88.4134	1.52	1.43	1.37	1.30	1.45	1.04	0.74	0.76	0.68	1.14	0.74	1.15
WBCT25	Beliaghata	DW	22.5597	88.4112	2.85	2.88	2.89	3.03	2.85	2.47	1.80	1.75	1.65	2.01	2.16	2.55
WBCT27	Ballygunge	Tube Well	22.5275	88.3602	16.65	17.5	17.46	18.23	18.70	18.76	18.86	8.3	18.95	18.52	18.66	
WBCT30	Thakurpukur	Tube Well	22.4586	88.3222	15.96	16.38	16.83	18.84	17.60	18.54	18.12	2.24	16.76	16.9	16.48	15.4
WBCT31A	Keorapukur	DW	22.4895	88.3463	0.87	0.92	0.85	0.90	1.02	0.20	0.22	0.31	0.2	0.53	1.02	0.92
WBCT34	Shyambazar	Tube Well	22.5993	88.3743	18.9	19.33	19.72	20.23	19.49	21.51	20.74	20.8	22.16	19.96	19.49	21.5
WBCT35	Maniktala	Tube Well	22.5859	88.3745	18.73	19.19	19.61	20.20	18.65	20.65	21.73	13.73	19.13	24.38	18.1	
WBCT38	Sealdah	TW	22.5323	88.332	18.84	19.70	20.78	21.30	20.5	22.50	20.84	20.57	20.43	22.27	19.06	20.1
WBCT40	Baishnabghata	Tube Well	22.47207	88.37626	16.59	17.36	17.68	10.49	17.10	16.99	18.36	10.3	18.58	17.59	16.5	20.5
WBCT41	Thakurpukur	DW	22.45916	88.32070	1.08	1.07	1.19	0.96	1.05	0.55	0.62	1.65	0.76	0.94	0.95	
WBCT42	Joka	Tube Well	22.44976	88.30025	17.1	17.1	17.62	18.18	19.36	17.22	18.38	16.48	19.33	18.77	19.1	9.1
WBCT43	Taratala	Tube Well	22.50843	88.32126	13.8	14.66						18.98				
WBCT44	I A Park	DW	22.57401	88.41157	1.9	2.40	1.82	1.96	1.80	1.50	1.30	1.02	1.35	1.64	2.02	2.12
WBCT45	Beleghata	Tube Well	22.56197	88.40080	8.86	14.19	15.48	16.80	8.96	19.30	19.12	8	20.44	17.73		15.2
WBCT46	Taltala	Tube Well	22.56056	88.36225	19.35	19.77	20.16	20.45	20.55	21.80	22.38	17.76	20.66	20.23	19.62	
WBCT47	Salt Lake	DW	22.57700	88.43852	2.06	1.87	1.80	1.92	1.91	1.49	1.41	1.48	1.16	1.5	1.81	1.81

SECTION-B

GROUND WATER YEAR BOOK OF ANDAMAN AND NICOBAR ISLANDS (2023-24)

1.0 INTRODUCTION

Groundwater monitoring data form an important input for judicial ground water management & development. Yearly two water level measurements during pre & post monsoon period in the month of April and November respectively are taken in Andaman & Nicobar Islands. Since Andaman & Nicobar Islands experienced heavy rainfall during the month of November, post monsoon water level is generally taken during the month of December. As on date 113 operational network hydrograph stations are monitored in Andaman district in various hydrogeological units and agro-climatic zones two times a year, viz. April and November. In Nicobar district, no network hydrograph stations have been established till date. During April 2023, 111 ground water monitoring wells were monitored and water samples were collected during pre monsoon period. During November, 2023 depth to water level data were collected from 113 ground water monitoring wells(Figure-1).

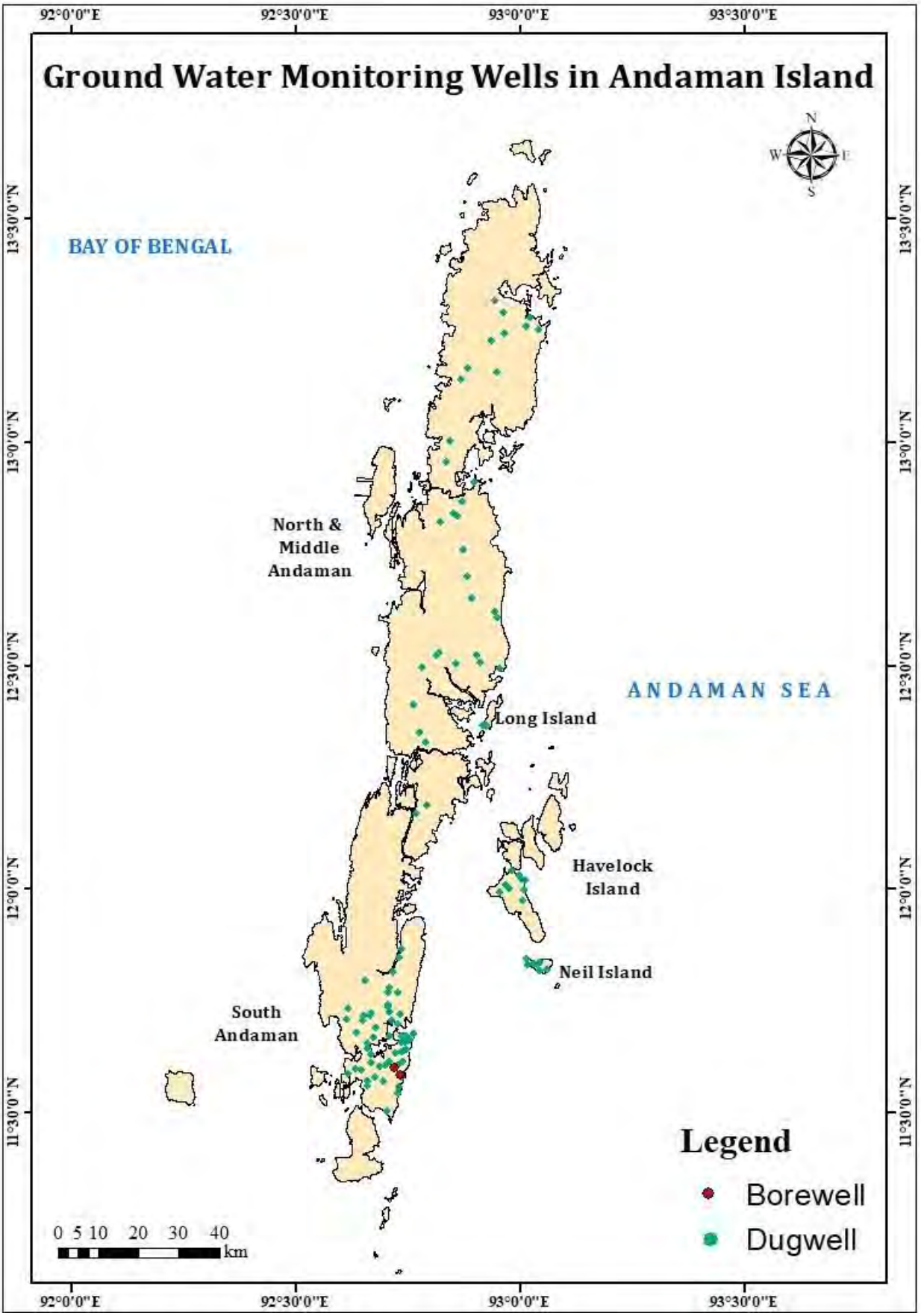


Figure- 1: Location Map of Ground Water Monitoring Wells in Andaman

2.0 GENERAL FEATURES

The Andaman and Nicobar Islands (A & N Islands) is one of the Union Territories of India and are situated as a dissected chain in an arcuate fashion oriented N-S in the Bay of Bengal off the Eastern Coast of India. These Islands are extended between 6° to 14° N and 92° to 94° E in between Mayanmar and Sumatra (Indonesia) over a distance of 780 km. This Union Territory is divided into two districts, i.e. Andaman and Nicobar. The northern group of Islands forms the Andaman district, is further sub- divided into three parts namely, North Andaman, Middle Andaman and South Andaman. The southern group of islands is separated from the northern group by about 140 km deep sea, the 10° channel, forms the Nicobar district.

3.0 TOPOGRAPHY

The islands forming Great Andaman consist of a mass of hills enclosing very narrow valleys, the whole covered by dense tropical jungle. The hills rise, to a considerable elevation, the heights peak being in the North Andaman, Saddle Peak (732m); in the Middle Andaman, Mount Diavolo behind Cuthbert Bay (511m); in the South Andaman, Koiob (459m), Mount Harriet (364m) and the Cholunga range (324m); and in Rutland Island, Ford's Peak (433m). Little Andaman is practically flat. As such there are no rivers, however few perennial streams are present in the islands. Barring a few small Islands in the Nicobar group, all the others have undulating terrain with main ridges running North-South. There are also spurs running East - West in between the main ridges. The submerged valleys form deep inlets and creeks. Flatlands are few and perennial streams non-existent in most of the Islands except in Great Nicobar where there are 5 perennial rivers. Coral reefs surround most of the islands.

4.0 PHYSIOGRAPHY

These Islands are in general characterized by undulating and rugged topography. Physiographically these Islands can be subdivided into three main parts-

I)	Moderate to steep hill ranges
II)	Intermountain narrow valley
III)	Coastal tracts including swamps

The huge ranges generally covered by dense forest.

5.0 HARBOURS

Coasts are deeply indented, giving existence to a number of safe harbours, which are often surrounded by mangrove swamps.

6.0 DRAINAGE

Perennial streams of the status of river are absent in A & N Islands except in Kalpong in the North Andaman. In Great Nicobar, the important perennial streams are Galathea, Jubilee, Dark Anaing, Dark Tayal, Amrit Kaur.

7.0 SOILS

Soils of Andaman and Nicobar Islands have been classified into 3 orders, i.e. Entisols, Inceptisols and Alfisols. The main agricultural soils are found in the valleys and have alluvial and colluvial origin. The coastal areas prone to tidal floods may have acid sulphate soils. On the whole, soils of these Islands are nutritionally poor and their organic matter content is on decline.

8.0 CLIMATE

The climate of Andaman and Nicobar Islands is described as humid Tropical Climate. The Islands are situated in the Hot or Torrid Zone. Nearly 86 percent of total area in these Islands is covered by forest. There are only two seasons viz. Rainy Season and Summer Season and virtually there is no Winter Season. Islands are visited by South -West and North - East monsoons during the period from May to December. Average annual rainfall in these Islands is 3000 mm. The period from January to May is Summer Season. The mean relative humidity is 79% to 82%. The mean maximum temperature is 30.2^{o}C and mean minimum temperature is 23.8^{o}C.

The actual annual rainfall of the state is 3468 mm. North and Middle Andaman Mangan district received 43% (highest) of total rainfall in 2023, while Nicobar district received only 25% (lowest) of total rainfall (Figure-2). District-wise actual monsoon, non-monsoon and annual rainfall is given in the Table-1 and figure-3 & 4.

Table 1: Actual Rainfall Distribution in Andaman and Nicobar-2023

Sl. No.	District	Cumulative Rainfall (mm)		Total Annual RF (mm)
		Non Monsoon (mm)	Monsoon (mm)	
1	Nicobar	1145.2	1457.9	2603.1
2	N and M Andaman	960.1	3492.3	4452.4
3	South Andaman	832.7	2517.7	3350.4

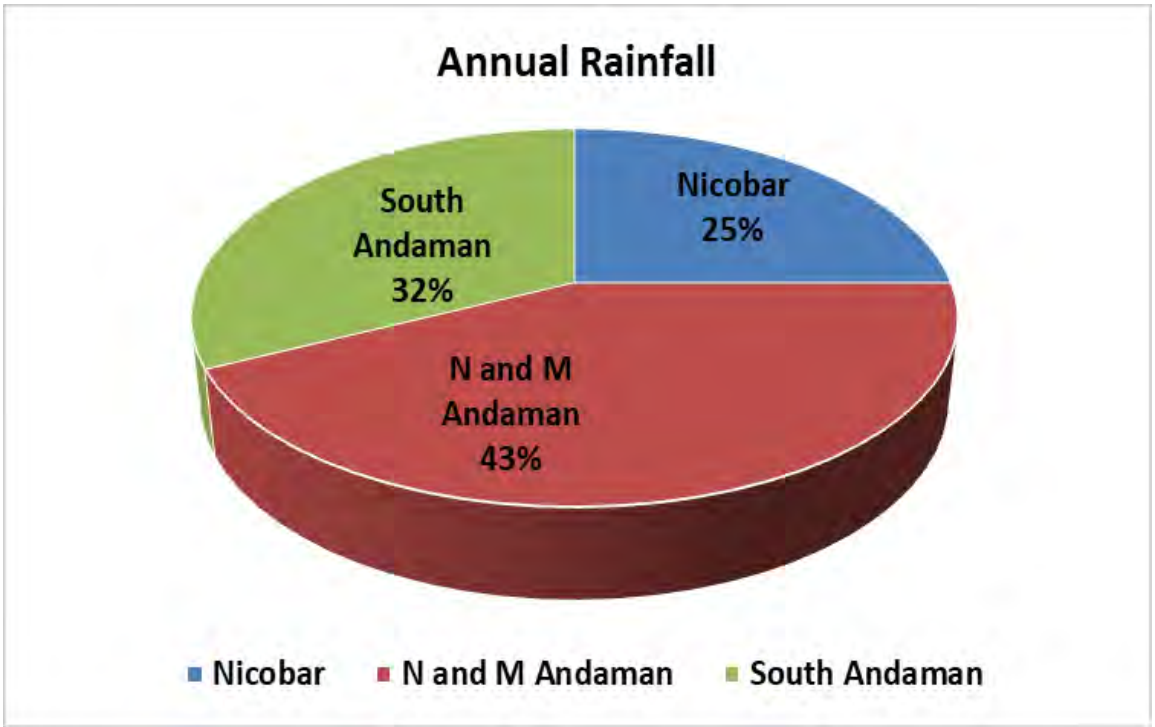


Figure- 2: Pie diagram of rainfall distribution over the Andaman and Nicobar Islands

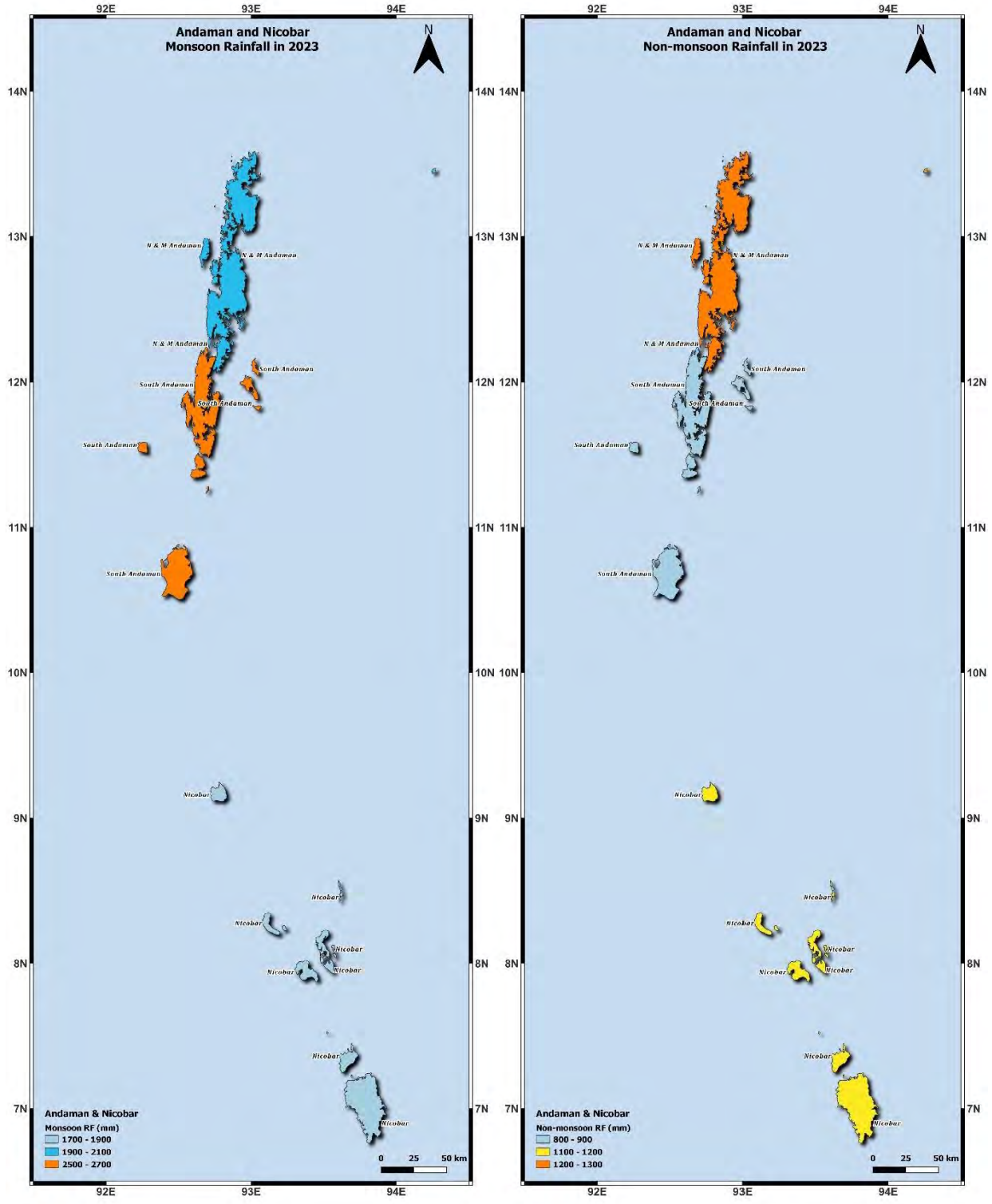


Figure- 3: Cumulative rainfall over Andaman and Nicobar islands during monsoon and non-monsoon season

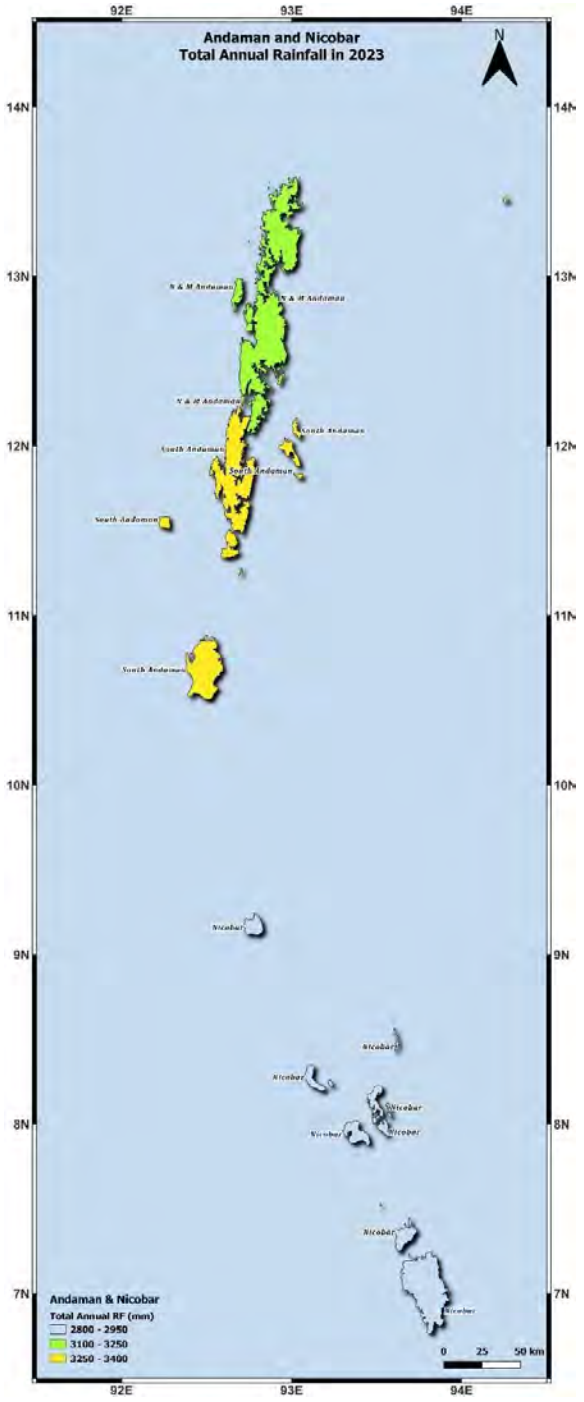


Figure- 4: Annual Cumulative rainfall over Andaman and Nicobar islands during monsoon and non-monsoon season

9.0 GEOLOGY

The Islands are composed mainly of thick Eocene sediments consist of Pre-Tertiary sandstone, siltstone and shale with intrusions of basic and ultra-basic igneous rocks. In the geologically Younger Richie's archipelago, calcareous sand stones are more common.

10.0 HYDROGEOLOGY

The Andaman & Nicobar group of Islands are underlain by Late Cretaceous igneous rocks - the 'Ophiolite Suite', marine sedimentary group of Palaeocene to Oligocene age and Recent to Sub-Recent beach sand, mangrove clay, alluvium and coralline formations. The Ophiolite suite comprises a wide variety of acidic to ultra-basic plutonic rocks and their serpentinised equivalents and essentially basic volcanic rocks occur in South, Middle & North Andaman, in sporadic patches of Little Andaman, Kamorta and Bampooka Islands in Nicobar group. The marine sedimentaries comprise greywakes, graded sandstones, siltstones, black shales and volcanogenic sediments. These fine-grained deep-sea deposits are generally having predominantly clayey particles. The coralline formations are observable in coral islands (atolls) and they also occur in the fringe areas of the sedimentary and igneous formations and form the narrow beaches encircling the islands. The ophiolite and marine sedimentaries have undergone different phases of folding, faulting, and upliftment, which are responsible for the development of fractures and fissures, as a result infiltrated rainwater percolates downwards.

Marine sedimentary rocks are located to an anomalous admixture of sand and clay where clayey residue is predominating since clayey product is poor water yielder, these sedimentary rocks, in majority of the cases, do not form potential aquifer system both in shallow and deeper horizons. Bore wells are not feasible in these formations and the yield of dugwells with a diameter of 4.5 to 5m and 6m depth tapping the weathered mantle varies from 3000 to 5000 lpd. Depth to water level in these formations varies from 0.2 to 4.4 mbgl. All the borehole drilled in these formations were unsuccessful except one borehole at Prothrapore, which is yielding brackish water (5500 EC) having discharge 17000 lph.

The igneous rocks also do not form potential aquifers, however in comparison to the sedimentaries they yield moderately. These rocks form aquifer both in weathered mantle and fractured basement rocks which are generally developed through dug well, ponds and private bore wells. Out of six successful bore wells drilled by CGWB, 5 nos. were constructed in igneous rock. The success may be due to partial clogging of fractures with clayey residue where it is fully sealing the fracture conduits in sedimentaries. The well at Calicut, constructed by CGWB, is now the only supplying well of APWD, A & N Administration. The fracture conduit is conjectured upto 45m depth. The discharge of Calicut well is 45000 lph. The coralline limestone formations also form potential aquifer. They are distributed at shallow horizon and are developed through dug wells in many islands like Car Nicobar,

Katchal, Neil, Havelock etc. Yield of these dugwells (commonly of 5m dia, 6m depth) varies from 15000 to 1 lakh lpd.

Recent studies of CGWB have revealed that the valley-fill alluvial deposits consisting of boulders, pebbles, cobbles and sand, carry lot of water and saturate the near surface aquifer throughout the year. Hence, such valley-fill deposits form potential aquifers in Andaman & Nicobar Islands. CGWB constructed exploratory well at Beadnabad on valley-fill deposit, down to the depth of 17 m, yielded 72000 lph water. This also indicated that Artificial Recharge and Conservation program might be successful in those areas. Pilot scale implementations of such structures by CGWB proved it highly successful.

11.0 SCENARIO OF DEPTH TO WATER LEVELS IN ANDAMAN DURING THE YEAR 2023

There are 113 total GWMS in Andaman including 111 Dugwells and 2 Borewells.

DEPTH TO WATER LEVEL PRE-MONSOON 2023

The depth to water level generally varies, between 0-2m, 2-5m and 5-10m below ground level from 111 measured GWMS.

In Unconfined aquifers, majority of the wells show water level between 2-5 m (50%). Depth to water levels for unconfined aquifers mostly in the range of 0-2 mbgl (45%) followed by 2-5mbgl (50%) and 5-10 mbgl (5%). The minimum water level at 0.13 m bgl at Port Blair in South Andaman and maximum 6.6 m bgl were recorded at Forest Camp in Havelock Island (figure-5).

In Confined/deeper aquifers only 2 wells are being monitored, with depth to water level of 1 well falling in 2-5 mbgl (2.36m bgl) at Beadnabad and other falling 10-20 m bgl category (11.04 m bgl) at Calicut in South Andaman.

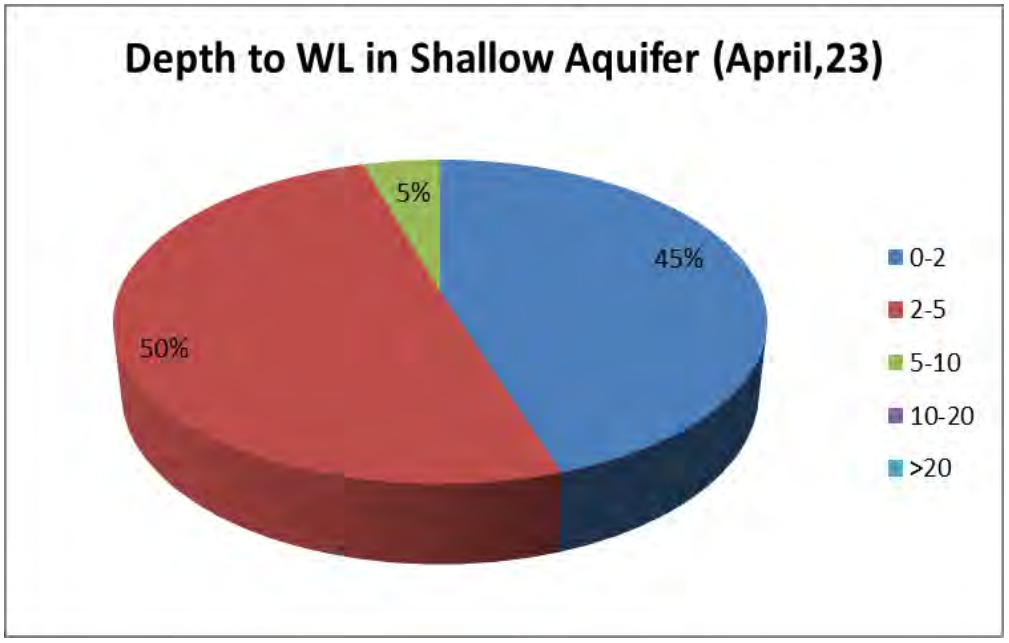


Figure- 5: Percentage of wells in different water level ranges in Unconfined aquifer during April,23

DEPTH TO WATER LEVEL POST-MONSOON 2023

The depth to water level generally varies, between 0-2m, 2-5m and 5-10m below ground level from 113 measured GWMS.

In Unconfined aquifers, majority of the wells show water level between 2-5 m (50%). Depth to water levels for unconfined aquifers mostly in the range of 0-2 mbgl (45%) followed by 2-5mbgl (50%) and 5-10 mbgl (5%). The minimum water level is 0.05 m bgl at Uttara in Middle Andaman and maximum 4.66 m bgl were recorded at Pearl Park Resort in Neil Islands (figure-6).

In Confined/deeper aquifers only 2 wells are being monitored, with depth to water level of 1 well falling in 2-5 mbgl (4.25 m bgl) at Beadnabad and for other falling 5-10 m bgl category (6.15 m bgl) at Calicut in South Andaman.

The distribution of network hydrograph stations during pre-monsoon in different ranges of depth to water level is presented in Annexure-I and Depth to WL in mbgl during post-monsoon is given in Annexure-II.

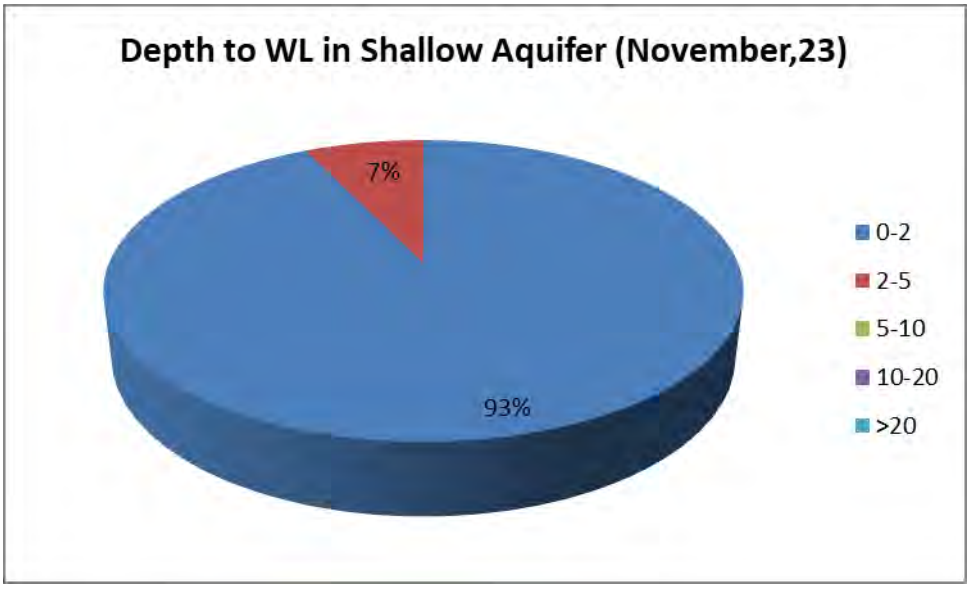


Figure- 6: Percentage of wells in different water level ranges in Unconfined aquifer during November, 23

11.1 FLUCTUATION IN WATER LEVEL IN ANDAMAN DURING GROUND WATER YEAR 2023

The pre-monsoon water levels of April, 2022 have been compared with pre-monsoon water levels of April 2023 and the post-monsoon water levels of November, 2022 have been compared with post-monsoon water levels of November, 2023 to delineate the impact of rainfall as well as ground water development on ground water regime in the state during the above period. Fluctuations in water levels for the periods of April 2023 and November 23 has been analyzed and presented in Annexures III, IV and V respectively.

11.1.1 WATER LEVEL FLUCTUATION BETWEEN APRIL 2022 AND APRIL 2023

The seasonal fluctuation in water level for April 2022 compared with April 2023 has been done and distribution of network hydrograph stations in different ranges of water level fluctuation is presented in Annexure-III. Out of 110 wells analyzed 77 number of wells (70%) shows fall in 0-2 m category and 13 wells (11.8%) of wells shows fall in 2-4 m category and only 1 well fall in >4 m category. However, 19 wells (17.3%) showed rising in 0-2m category.

11.1.2 WATER LEVEL FLUCTUATION BETWEEN NOVEMBER 2022 AND NOVEMBER 2023

Out of 112 wells analyzed 44.6% (50) wells showed fall in 0-2m fluctuation category and 0.9 % (only 1) well shows fall in 2-4m category while 53.6% (60) wells showed rising in 0-2m fluctuation and only 1 well show >4m fluctuation in risisng category. Distribution of network hydrograph stations in different ranges of water level fluctuation is presented in Annexure-IV.

11.1.3 WATER LEVEL FLUCTUATION BETWEEN APRIL 2023 AND NOVEMBER 2023

Out of 111 wells analyzed 7.2% (8)wells showed fall in 0-2m fluctuation category while 73% (81) wells showed rising in 0-2m fluctuation, 17.1% (19) wells showed rise in 2-4m category and 2.7% (3) wells showed rise in >4m category. Distribution of network hydrograph stations in different ranges of water level fluctuation is presented in Annexure-V.

11.1.4 WATER LEVEL FLUCTUATION WITH DECADAL MEAN (PRE-MONSOON 2013- PREMONSOON 2022) TO PREMONSOON 2023

The decadal fluctuation in water level by comparing the water level data for April Mean (2013- 2022) with the depth to water level data of April 2023 indicates the long-term status of ground water condition during the previous and current measurement during Pre- monsoon period. Out of 110 wells analyzed 43% of wells showed fall in 0-2m fluctuation category and 4.5% of wells shows fall in 2-4m category while 41% of wells showed rising in 0-2m fluctuation and only 1 well showed fluctuation in 2-4m and >4 m category each. Decadal fluctuation during Pre-monsoon is shown in Annexure-VI.

11.1.5 WATER LEVEL FLUCTUATION WITH DECADAL MEAN (POST-MONSOON 2013-POST-MONSOON 2022) TO POST-MONSOON 2023

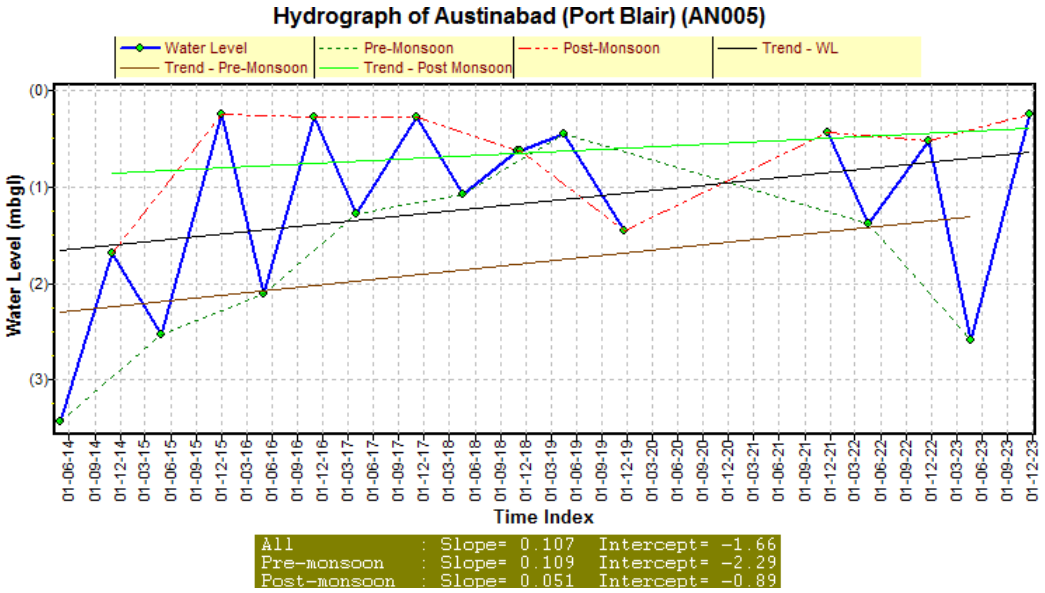
The decadal fluctuation in water level by comparing the water level data for Decadal Mean (2013-2022) with the depth to water level data of November 2023 indicates long-term status of ground water condition during the previous and current measurement during post- monsoon period. Water level fluctuation has been analyzed by comparing the decadal mean water level data (November 2013 - November 2022) with depth to water level data of November, 2023. Out of 112 wells analyzed 34% of wells showed fall in 0-2m fluctuation category while 66% of wells showed rising in 0-2m fluctuation. None of the wells showing >2 m fluctuation. Decadal fluctuation during Post-monsoon is shown in Annexure-VII.

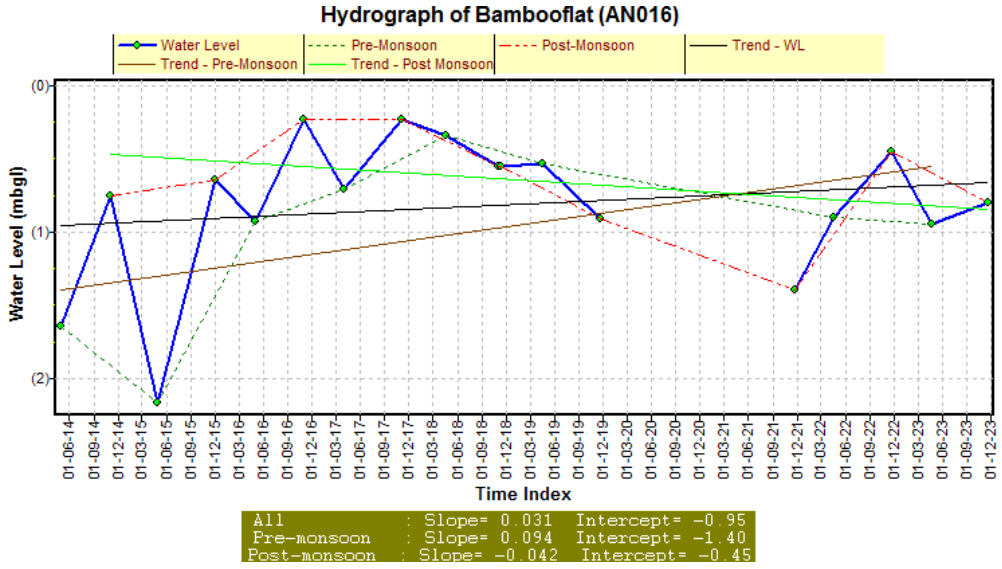
11.2 GROUND WATER LEVEL TREND

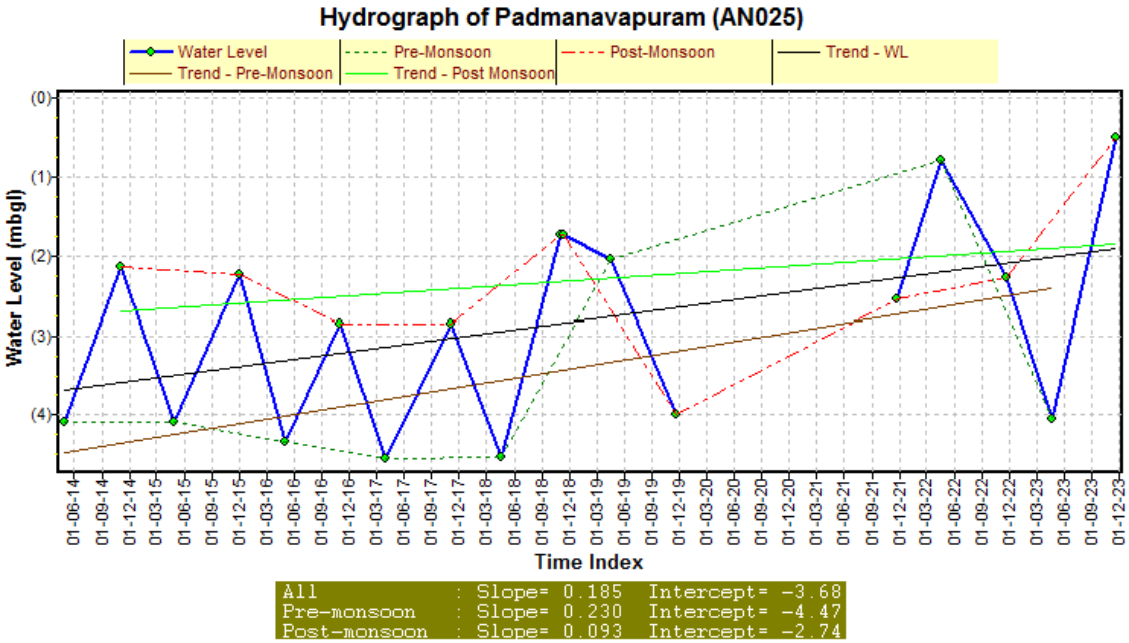
The water level trend has been analyzed for all measurements, which indicates the net status of ground water conditions during 2014 – 2023 and is presented in Annexure-VIII. During Premonsoon, out of 113 analyzed well, 90 wells shows rising trend in water level to the tune of 0.014 to 0.593 m/yr. Rest 23 wells shows falling trend in water level to the tune of 0.005 to 0.36m/yr. During Post- Monsoon, out of 113 wells analyzed, 63 wells shows rising trend to the tune of 0.001-0.53 m/yr and rest 50 wells shows falling trend to the tune of 0.002-0.591 m/yr.

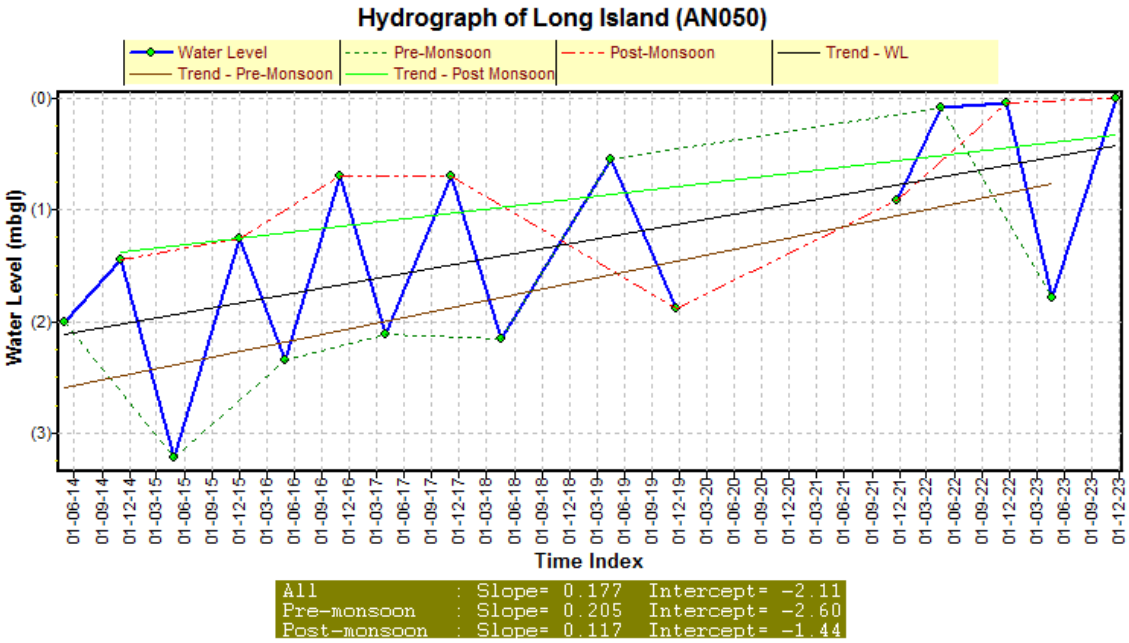
Depth to Water Level (in mbgl) for each well measured during Pre-monsoon and Post-monsoon, 2023 are given in Annexure IX and hydrographs are given in figure-7

Figure- 7: Selected Hydrographs of Andaman

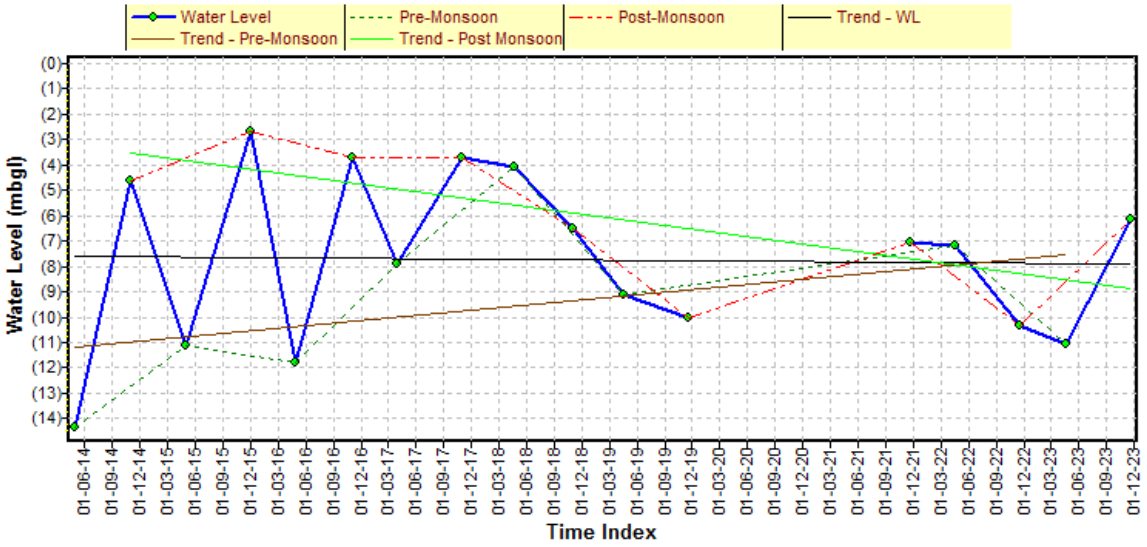





Hydrograph of Padmanavapuram (AN025)
Water Level
Pre-Monsoon
Post-Monsoon
Trend - WL
Trend - Pre-Monsoon
Trend - Post Monsoon
Water Level (mbgl)
Time Index
All : Slope= 0.185 Intercept= -3.68
Pre-monsoon : Slope= 0.230 Intercept= -4.47
Post-monsoon : Slope= 0.093 Intercept= -2.74

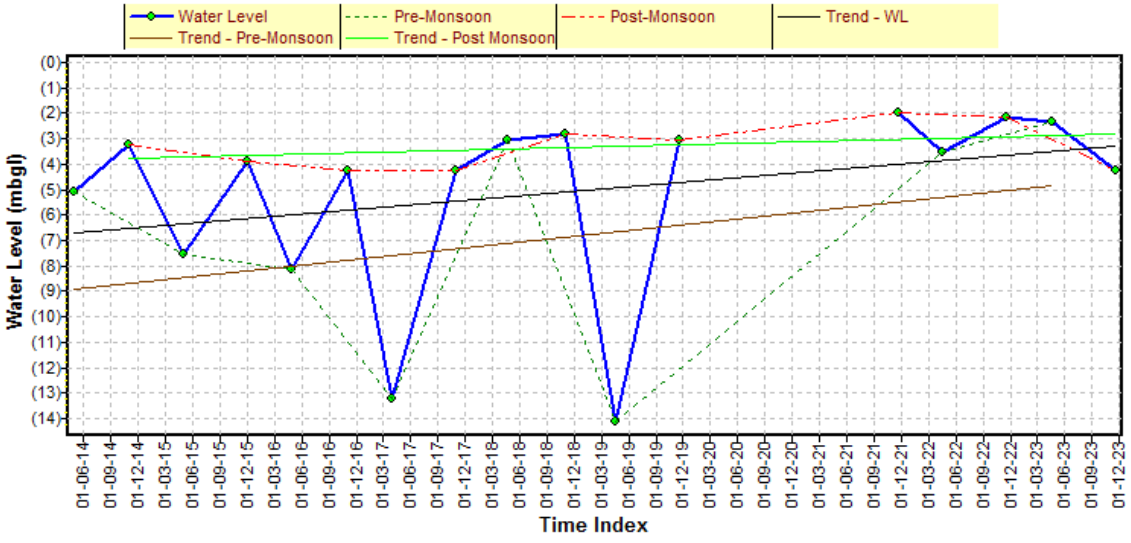

Hydrograph of Long Island (AN050)
Water Level
Pre-Monsoon
Post-Monsoon
Trend - WL
Trend - Pre-Monsoon
Trend - Post Monsoon
Water Level (mbgl)
Time Index
All : Slope= 0.177 Intercept= -2.11
Pre-monsoon : Slope= 0.205 Intercept= -2.60
Post-monsoon : Slope= 0.117 Intercept= -1.44

Hydrograph of Calicut Borewell (AN046)



All	Slope= -0.036	Intercept= -7.57
Pre-monsoon	Slope= 0.402	Intercept= -11.16
Post-monsoon	Slope= -0.589	Intercept= -3.22

Hydrograph of Beadnabad Tubewell (AN047)



All	Slope= 0.356	Intercept= -6.69
Pre-monsoon	Slope= 0.456	Intercept= -8.94
Post-monsoon	Slope= 0.104	Intercept= -3.81

Annexure-I

Districtwise Well Frequency for Different Ranges of Depth to Water Level (Apr-23)

District	Number of wells Measured	DTWL m bgl		0-2 m		2-5m		5-10m		10--20		>20	
		Min	Max	No	%	No	%	No	%	No	%	No	%
South Andaman	58	0.13	11.04	28	48.3	27	46.6	2	3.4	1	1.7	0	0
Ross Island	1	3.7	3.7	0	0	1	100	0	0	0	0	0	0
North Andaman	16	1.15	5.65	5	31.3	10	62.5	1	6.3	0	0	0	0
Neil Island	6	1.95	5.78	1	16.7	3	50	2	33.3	0	0	0	0
Middle Andaman	18	0.07	4.04	9	50	9	50	0	0	0	0	0	0
Long Island	3	1.79	2.04	1	33.3	2	66.7	0	0	0	0	0	0
Havelock Island	7	1.45	6.6	5	71.4	1	14.3	1	14.3	0	0	0	0
Andaman & Nicobar	2	2.25	2.41	0	0	2	100	0	0	0	0	0	0
Total	111			49	44.1	55	49.5	6	5.4	1	0.9	0	0

Annexure-II

Districtwise Well Frequency for Different Ranges of Depth to Water Level (Nov-23)

District	Number of wells Measured	DTWL m bgl		0-2 m		2-5m		5-10m		10--20		>20	
		Min	Max	No	%	No	%	No	%	No	%	No	%
South Andaman	60	0	6.15	54	90	5	8.3	1	1.7	0	0	0	0
Ross Island	1	1.7	1.7	1	100	0	0	0	0	0	0	0	0
North Andaman	16	0	1.55	16	100	0	0	0	0	0	0	0	0
Neil Island	6	1.15	4.66	4	66.7	2	33.3	0	0	0	0	0	0
Middle Andaman	18	0.05	2.4	16	88.9	2	11.1	0	0	0	0	0	0
Long Island	3	0	1.3	3	100	0	0	0	0	0	0	0	0
Havelock Island	7	0.15	1.8	7	100	0	0	0	0	0	0	0	0
Andaman & Nicobar	2	1.47	1.71	2	100	0	0	0	0	0	0	0	0
Total	113			103	91.2	9	8	1	0.9	0	0	0	0

Annexure-III

Districtwise Categorisation of Water Level Fluctuation (April-22 to April-23)

District	Number of wells Measured	Fall						Rise					
		0-2 m	%	2--4 m	%	>4	%	0-2 m	%	2--4 m	%	>4 m	%
Andaman & Nicobar	1	0	0	0	0	0	0	1	100	0	0	0	0
Havelock Island	7	6	85.7	0	0	1	14.3	0	0	0	0	0	0
Long Island	3	3	100	0	0	0	0	0	0	0	0	0	0
Middle Andaman	18	11	61.1	5	27.8	0	0	2	11.1	0	0	0	0
Neil Island	6	5	83.3	0	0	0	0	1	16.7	0	0	0	0
North Andaman	16	11	68.8	5	31.3	0	0	0	0	0	0	0	0
Ross Island	1	1	100	0	0	0	0	0	0	0	0	0	0
South Andaman	58	40	69	3	5.2	0	0	15	25.9	0	0	0	0
Total	110	77	70	13	11.8	1	0.9	19	17.3	0	0	0	0

Annexure-IV

Districtwise Categorisation of Water Level Fluctuation (November-22 to November-23)

District	Number of wells Measured	Fall						Rise					
		0-2 m	%	2--4 m	%	>4	%	0-2 m	%	2--4 m	%	>4 m	%
Andaman & Nicobar	2	0	0	0	0	0	0	2	100	0	0	0	0
Havelock Island	7	3	42.9	0	0	0	0	4	57.1	0	0	0	0
Long Island	3	0	0	0	0	0	0	3	100	0	0	0	0
Middle Andaman	18	5	27.8	0	0	0	0	13	72.2	0	0	0	0
Neil Island	6	2	33.3	0	0	0	0	4	66.7	0	0	0	0
North Andaman	15	9	60	0	0	0	0	6	40	0	0	0	0
Ross Island	1	0	0	0	0	0	0	1	100	0	0	0	0
South Andaman	60	31	51.7	1	1.7	0	0	27	45	0	0	1	1.7
Total	112	50	44.6	1	0.9	0	0	60	53.6	0	0	1	0.9

Annexure-V

Districtwise Categorisation of Seasonal Water Level Fluctuation (April-23 to November-23)

District	Number of wells Measured	Fall						Rise					
		0-2 m	%	2--4 m	%	>4	%	0-2 m	%	2--4 m	%	>4 m	%
Andaman & Nicobar	2	0	0	0	0	0	0	2	100	0	0	0	0
Havelock Island	7	1	14.3	0	0	0	0	5	71.4	0	0	1	14.3
Long Island	3	0	0	0	0	0	0	3	100	0	0	0	0
Middle Andaman	18	2	11.1	0	0	0	0	13	72.2	3	16.7	0	0
Neil Island	6	0	0	0	0	0	0	4	66.7	2	33.3	0	0
North Andaman	16	0	0	0	0	0	0	10	62.5	5	31.3	1	6.3
Ross Island	1	0	0	0	0	0	0	1	100	0	0	0	0
South Andaman	58	5	8.6	0	0	0	0	43	74.1	9	15.5	1	1.7
Total	111	8	7.2	0	0	0	0	81	73	19	17.1	3	2.7

Annexure-VI

Decadal Fluctuation in Water Level 10 Yrs Mean (Apr-13-Apr-22)-Apr-23

District	No. of Wells	Range of Fluctuation (m)				No. of Wells/Percentage Showing Fluctuation											
		Rise		Fall		Rise						Fall					
		Min	Max	Min	Max	0 -2	%	2-4	%	>4	%	0 - 2	%	2-4	%	>4	%
Andaman & Nicobar	1	0.13	0.13	0	0	0	0	0	0	1	100	0	0	0	0		
Havelock Island	7	0.04	1.07	0.13	2.27	5	71.4	0	0	0	0	1	14.3	1	14.3	0	0
Long Island	3	0.08	0.96	0.01	0.01	2	66.7	0	0	0	0	1	33.3	0	0	0	0
Middle Andaman	18	0.11	1.2	0.11	2.49	9	50	0	0	0	0	7	38.9	2	11.1	0	0
Neil Island	6	0.02	0.39	0.04	0.04	5	83.3	0	0	0	0	1	16.7	0	0	0	0
North Andaman	16	0.64	3.01	0.53	3.21	1	6.3	1	6.3	0	0	13	81.3	1	6.3	0	0
Ross Island	1	0.37	0.37	0	0	0	0	0	0	1	100	0	0	0	0		
South Andaman	58	0	5.44	0	2.02	23	39.7	0	0	1	1.7	33	56.9	1	1.7	0	0
Total	110					45	40.9	1	0.9	1	0.9	58	52.7	5	4.5	0	0

Annexure-VII

Decadal Fluctuation in Water Level 10 Yrs Mean (Nov-13- Nov -22)- Nov-23

District	No. of Wells	Range of Fluctuation (m)				No. of Wells/Percentage Showing Fluctuation											
		Rise		Fall		Rise						Fall					
		Min	Max	Min	Max	0 -2	%	2-4	%	>4	%	0 - 2	%	2-4	%	>4	%
Andaman & Nicobar	1	0.49	0.49	1	100	0	0	0	0	0	0	0	0	0	0		
Havelock Island	7	0.29	1.31	0.63	0.63	6	85.7	0	0	0	0	1	14.3	0	0	0	0
Long Island	3	0.52	1.22	3	100	0	0	0	0	0	0	0	0	0	0		
Middle Andaman	18	0.05	1.8	0.16	0.69	14	77.8	0	0	0	0	4	22.2	0	0	0	0
Neil Island	6	0.23	0.93	0.35	0.35	5	83.3	0	0	0	0	1	16.7	0	0	0	0
North Andaman	16	0.05	1.04	0.04	0.3	12	75	0	0	0	0	4	25	0	0	0	0
Ross Island	1	0.29	0.29	1	100	0	0	0	0	0	0	0	0	0	0		
South Andaman	60	0.02	0.78	0.04	1.34	32	53.3	0	0	0	0	28	46.7	0	0	0	0
Total	112					74	66.1	0	0	0	0	38	33.9	0	0	0	0

Annexure-VIII

Ground Water Trend in Andaman and Nicobar Island (2014 to 2023)

Location	Well No.	Pre monsoon			Post monsoon		
		Rise (m/yr)	Falll (m/yr)	Intercept	Rise (m/yr)	Fall (m/yr)	Intercept
District: Andaman & Nicobar							
Long Island	AN113	-	0.067	1.656	0.215	-	3.796
South Point	AN002A				0.53	-	6.683
District: Havelock Island							
6½ No. Forest Camp	AN108	0.123	-	5.337	0.002	-	2.975
Dolphin Yatri Nivas	AN055	0.096	-	2.486	0.043	-	1.39
Govindanagar Vill No - 1	AN053	0.246	-	3.128	0.016	-	1.079
Govindanagar Vill No - 3	AN054	0.197	-	3.222	0.028	-	1.255
Havelock Island Jetty	AN105	0.085	-	2.791	0.03	-	2.137
Radhanagar	AN056	0.216	-	2.54	-	0.031	0.378
Vijaynagar	AN106	0.402	-	4.362	0.176	-	2.408
District: Long Island							
Long Island	AN050	0.204	-	2.652	0.118	-	1.483
Long Island (Forest	AN051	0.368	-	4.412	0.088	-	2.302
Long Island (Sec.	AN052	0.15	-	2.749	0.081	-	1.86
District: Middle Andaman							
Bakultala	AN022	0.056	-	1.404	-	0.004	0.723
Baratang (Nilambur)	AN029	0.218	-	2.674	-	0.051	0.08
Betapur	AN104	0.301	-	2.858	0.053	-	1.085
Joypur	AN103	-	0.026	1.333	-	0.025	0.513
Kadamtala	AN031	0.116	-	2.072	-	0.046	0.164
Kausalyanagar	AN024	0.423	-	3.659	-	0.033	0.109
Kishorinagar	AN097	0.107	-	2.62	0.016	-	1.793
Nimbutala	AN023	-	0.045	1.7	0.015	-	1.123
Padmanavapuram	AN025	0.228	-	4.532	0.096	-	2.848

Location	Well No.	Pre monsoon			Post monsoon		
		Rise (m/yr)	Falll (m/yr)	Intercept	Rise (m/yr)	Fall (m/yr)	Intercept
Pahalgaon	AN102	0.076	-	2.427	-	0.079	1.632
Parnashala	AN044	0.223	-	2.182	0.077	-	0.909
Phooltala Basti	AN096	0.304	-	3.604	0.061	-	1.18
Porlobjig - 15	AN032	0.067	-	2.46	-	0.006	1.902
Rangat	AN021	0.037	-	0.881	0.014	-	0.71
South Creek	AN095	0.088	-	2.052	-	0.076	0.54
Swadeshnagar	AN058	0.11	-	1.79	0.05	-	1.468
Tikadera	AN033	0.193	-	3.833	-	0.026	2.066
Uttara	AN030	0.203	-	2.092	0.015	-	0.428
District: Neil Island							
Bharatpur - 1	AN060	0.023	-	3.499	0.115	-	2.268
Bharatpur - 2	AN061	0.069	-	3.556	-	0.01	2.304
Laxmanpur	AN063	0.181	-	2.927	0.055	-	1.646
Neil Kendra	AN110	0.052	-	5.896	-	0.003	3.894
Pearl Park Resort	AN111	-	0.197	4.968	-	0.105	4.324
Sitanagar	AN062	0.063	-	3.806	0.112	-	2.896
District: North Andaman							
Basantipur	AN043	0.112	-	2.337	-	0.014	0.753
Durgapur	AN038	-	0.101	0.453	-	0.071	0.207
Haribeck	AN041	-	0.055	1.25	-	0.002	0.661
Keralapuram	AN100	-	0.148	2.24	0.017	-	2.528
Laxmipur	AN039	0.212	-	2.857	0.021	-	0.61
Mayabunder	AN027	-	0.114	0.024	-	0.024	0.593
Milangram	AN098	0.221	-	2.873	0.022	-	0.728
Mohanpur	AN034	0.108	-	3.297	0.05	-	1.193
Nabagram	AN036	0.143	-	2.019	0.064	-	1.019
On ATR After Mohanpur	AN035	0.047	-	2.159	-	0.053	1.125
Rest Camp	AN026	0.158	-	2.503	0.003	-	0.564
Shibpur	AN099	0.093	-	1.822	0.037	-	0.916
Sitanagar	AN037	0.252	-	2.995	0.05	-	0.952

Location	Well No.	Pre monsoon			Post monsoon		
		Rise (m/yr)	Falll (m/yr)	Intercept	Rise (m/yr)	Fall (m/yr)	Intercept
Subhasgram	AN040	0.028	-	1.529	0.035	-	0.937
Tugapur No. 8	AN042	0.118	-	1.992	-	0.044	0.283
Webi (Debipur)	AN101	0.593	-	6.267	0.074	-	0.878
District: Ross Island							
Ross Island	AN064	0.104	-	3.972	-	0.056	1.385
District: South Andaman							
Annikat	AN048	0.123	-	2.456	-	0.005	1.423
Austinabad (Port Blair)	AN005	0.11	-	2.323	0.052	-	0.909
Bambooflat	AN016	0.094	-	1.424	-	0.041	0.448
Beadnabad Tubewell	AN047	0.449	-	9.032	0.104	-	3.842
Bindraban	AN075	0.128	-	2.9	0.062	-	1.53
Brichganj	AN007	0.086	-	2.455	-	0.021	1.235
Brookshabad (Port Blair)	AN013	0.215	-	2.531	0.164	-	1.74
Burmanala	AN012	0.093	-	2.819	0.022	-	1.353
Calicut	AN017	-	0.032	1.645	0.007	-	1.53
Calicut Borewell	AN046	0.404	-	11.283	-	0.591	3.031
Chidiyatapur	AN015	0.014	-	2.461	-	0.262	-0.277
Chouldari	AN069	0.09	-	2.46	-	0.053	0.989
Corbyn's Cove(Port	AN003	0.105	-	3.418	0.001	-	0.698
Dandas Point	AN019	0.033	-	5.497	0.023	-	4.398
Dhannikhari	AN068	-	0.021	2.016	-	0.104	0.411
Dollyganj Chawk	AN091	0.114	-	2.195	-	0.041	1.172
Ferrarganj	AN074	0.304	-	3.424	0.013	-	0.586
Garacharma	AN011	0.06	-	2.375	-	0.047	0.86
Gupta Para	AN028	0.083	-	2.611	-	0.087	1.938
Haddo	AN093	-	0.031	1.105	0.016	-	1.139
Hasmatabad	AN014	0.168	-	2.309	0.01	-	0.628
Herbertabad	AN072	0.119	-	2.695	-	0.011	0.76
Hope Town (Marmon	AN084	-	0.04	1.708	-	0.07	1.163
Junglighat (VIP Road)	AN020	0.038	-	0.811	-	0.011	0.3

Location	Well No.	Pre monsoon			Post monsoon		
		Rise (m/yr)	Falll (m/yr)	Intercept	Rise (m/yr)	Fall (m/yr)	Intercept
Kalapathar	AN107	0.296	-	3.774	-	0.098	0.792
Knoppuram	AN081	-	0.36	-0.371	0.055	-	0.76
Kodiaghat	AN004A	0.068	-	2.214	-	0.006	0.989
Krishnanagar	AN109	0.2	-	2.623	0.074	-	1.605
Lamba Line	AN092	0.085	-	1.106	0.015	-	0.536
Light House	AN059	0.018	-	1.835	-	0.026	0.852
Mamyo	AN089	0.196	-	3.287	-	0.056	0.756
Manglutan	AN087	0.308	-	3.535	0.067	-	1.307
Manjeri	AN088	0.237	-	2.742	0.009	-	1.8
Mannar Ghat	AN076	-	0.008	1.718	-	0.013	1.519
Marina Park	AN045	-	0.064	1.051	-	0.021	0.753
Mile Tilak	AN083	-	0.005	1.276	0.011	-	1.09
Mithakhari	AN085	-	0.033	1.497	-	0.057	0.789
Mount Harriyat	AN094	-	0.024	5.72	-	0.044	2.858
Namunagar	AN049	0.259	-	2.719	0.01	-	0.764
Nayasahar	AN086	0.097	-	2.234	-	0	0.888
New Bimlinton	AN067	-	0.144	1.5	-	0.075	1.007
Ograbraj	AN010	0.235	-	2.747	0.058	-	1.092
Port Blair	AN001	0.097	-	0.93	0.022	-	0.412
Port Blair (Dobhi Well)	AN057	0.06	-	2.182	-	0.01	1.308
Port Mout	AN070	0.085	-	2.202	0.022	-	1.44
Ramnagar	AN112	0.181	-	3.625	0.111	-	1.804
Rangachang	AN065	0.125	-	2.376	0.079	-	0.891
Saitankhari	AN018	0.245	-	3.706	-	0.039	0.585
Shadipur (Port Blair)	AN008	-	0.263	0.892	-	0.1	0.466
Shoal Bay - 12 No.	AN079	0.043	-	1.394	-	0.048	0.293
Shoal Bay - 15 No.	AN080	-	0.039	0.414	-	0.027	0.161
Shoal Bay - 8 No.	AN078	0.07	-	1.581	0.054	-	1.078
Sippighat	AN006	0.154	-	1.646	0.029	-	0.673
South Point (Port Blair)	AN002	0.128	-	1.259			

Location	Well No.	Pre monsoon			Post monsoon		
		Rise (m/yr)	Falll (m/yr)	Intercept	Rise (m/yr)	Fall (m/yr)	Intercept
Stuwartganj	AN082	0.113	-	1.747	0.015	-	0.487
Teylarabad	AN066	0.061	-	1.859	0.034	-	1.33
Tirur	AN073	0.07	-	1.832	0.029	-	1.413
Tushnabad	AN071	0.329	-	3.723	0.115	-	1.378
Wandur	AN090	0.167	-	1.798	0.061	-	1.377
Wimberleyganj	AN009	-	0.02	0.55	-	0.141	-0.171
Wrightmyo	AN077	-	0.065	2.133	-	0.11	1.291

Annexure-IX

Depth to Water Level Data during the Ground Water Year 2023 of GWMW in Andaman

Well No	Block	Village	Latitude	Longitude	Well Type	Depth (m)	Diameter (m)	MP (m)	April_23 (m bgl)	Nov_23 (m bgl)
AN001	South	Portblair	11.6706	92.7440	Dug Well	10.56	3.17	0.67	0.13	0.06
AN002	South	South Point (port Blair)	11.6641	92.7538	Dug Well	5.85	1.03	0.49	2.41	1.47
AN003	South	Corbyn's Cove (port Blair)	11.6425	92.7460	Dug Well	4.4	2.46	0.68	2.07	0.3
AN004A	South	Kodiaghat	11.5452	92.7277	Dug Well	4.37	1.92	1	2.05	1
AN005	South	Austinabad(port Blair)	11.6351	92.7347	Dug Well	5.5	2.03	0.67	2.58	0.25
AN006	South	Sippighat	11.6032	92.6857	Dug Well	3.84	2.9	0.85	0.65	0.4
AN007	South	Brichganj	11.6150	92.7377	Dug Well	4.5	-	0.55	2.05	1.4
AN008	South	Shadipur(port Blair)	11.6565	92.7435	Dug Well	7.57	1.85	0.6	3.75	1.21
AN009	South	Wimberleyganj	11.7403	92.7072	Dug Well	6	6	0.8		1.68
AN010	South	Ograbraj	11.6555	92.6612	Dug Well	6	2.6	1.04	0.66	0.9
AN011	South	Garacharma	11.6137	92.7095	Dug Well	6	2.6	0.92	2.43	1.45
AN012	South	Burmanala	11.5580	92.7294	Dug Well	5	1.2x1.2	0.4	2.3	1.3
AN013	South	Brookshabad (Port Blair)	11.6380	92.7404	Dug Well	3	3.8x4	0.4	0.7	0.2
AN014	South	Hasmatabad	11.5944	92.6455	Dug Well	5.5	1	1.22	0.93	0.85
AN015	South	Chidiyatapu	11.5033	92.7019	Dug Well	12	3.1	0.45	3.37	2.2
AN016	South	Bambooflat	11.7055	92.7150	Dug Well	4.5	1.8	0.65	0.95	0.8
AN017	South	Calicut	11.6074	92.7264	Dug Well	5.5	2.1	0.58	3.22	1.3
AN018	South	Saitankhari	11.7172	92.6661	Dug Well	5	2	0.6	2.8	1.02
AN019	South	Dandaspoint	11.6704	92.7074	Dug Well	3.5	2	0.85	6.45	3.85
AN020	South	Junglighat (V I P Road)	11.6576	92.7352	Dug Well	3.8	2.8x2.9	0.88	0.62	0.45
AN021	Middle	Rangat	12.5057	92.9108	Dug Well	8.2	2.3	0.85	0.8	0.45
AN022	Middle	Bakultala	12.5043	92.8577	Dug Well	6.6	2	0.49	1.56	0.09

Well No	Block	Village	Latitude	Longitude	Well Type	Depth (m)	Diameter (m)	MP (m)	April_23 (m bgl)	Nov_23 (m bgl)
AN023	Middle	Nimbutala	12.4946	92.9542	Dug Well	5	2.2	0.71	3.94	0.78
AN024	Middle	Kausalyanagar	12.5284	92.8189	Dug Well	5	2.5	1.74	0.81	0.75
AN025	Middle	Padmanavapuram	12.6063	92.9492	Dug Well	3.7	1	1.41	4.04	0.5
AN026	North	Rest Camp	12.8328	92.8593	Dug Well	5	1.9	0.57	2.53	0.2
AN027	North	Dhobidera (Mayabunder)	12.9099	92.8992	Dug Well	3	1.7	1.27	1.39	0.8
AN028	South	Gupta Para	11.5598	92.6587	Dug Well	4	1	0.92	1.68	3.1
AN029	Middle	Baratang (Nilambur)	12.1683	92.7670	Dug Well	7.2	2	0.66	1.29	0.46
AN030	Middle	Uttara	12.3280	92.7901	Dug Well	4.1	0.8	0.81	1.04	0.05
AN031	Middle	Kadamtala	12.3488	92.7750	Dug Well	8	2	0.62	1.06	0.15
AN032	Middle	Porlobjig-15	12.4960	92.7813	Dug Well	8	2.2	0.74	2.26	1.8
AN033	Middle	Tikadera	12.5228	92.8140	Dug Well	3.5	1.3	1.08	2.73	2.16
AN034	North	Mohanpur	12.9546	92.8357	Dug Well	4.2	2	0.95	4.55	0.93
AN035	North	Srinagar	13.1399	92.8688	Dug Well	5.29	1.98	0.96	2.64	1.55
AN036	North	Nabagram	13.1555	92.9491	Dug Well	4.5	1.57	0.88	2.14	0.6
AN037	North	Sitanagar	13.2261	92.9359	Dug Well	4.21	1.98	0.78	2.67	0.55
AN038	North	Durgapur	13.2765	93.0236	Dug Well	3.57	2.12	0.97	1.93	0.65
AN039	North	Laxmipur	13.2873	92.9640	Dug Well	4.92	2	0.95	2.42	0.42
AN040	North	Subhasgram	13.2432	92.9662	Dug Well	6.94	2	1.37	2.73	0.65
AN041	North	Haribay	13.0022	92.8442	Dug Well	4.93	1.97	1.49	2.81	0.9
AN042	North	Tugapur No. 8	12.8196	92.8224	Dug Well	5.3	1.39	1.01	2.14	0.3
AN043	North	Basantipur	12.7579	92.8737	Dug Well	5.6	1.52	1.04	3.06	0.5
AN044	Middle	Parnashala	12.5244	92.9043	Dug Well	5.5	1.57	1.32	-0.07	0.1
AN045	South	Marina Park	11.6711	92.7463	Dug Well	3.3	1.06	0.56	1.49	0.65
AN046	South	Calicut Borewell	11.6001	92.7195	Bore Well	35	0.203	0.36	11.04	6.15
AN047	South	Beadnabad Tubewell	11.5856	92.7339	Tube Well	103	0.203	0.64	2.36	4.25
AN048	South	Annikat	11.7075	92.6482	Dug Well	3.59	2.34	0.57	1.03	1.2

Well No	Block	Village	Latitude	Longitude	Well Type	Depth (m)	Diameter (m)	MP (m)	April_23 (m bgl)	Nov_23 (m bgl)
AN049	South	Namunagar	11.6905	92.6802	Dug Well	6	1.54	0.24	0.96	0.88
AN050	Long	Long Island	12.3644	92.9237	Dug Well	3.85	1.82	0.76	1.79	0.06
AN051	Long	Long Island (forest Area)	12.3667	92.9231	Dug Well	10.8	1	0.84	2.01	1.3
AN052	Long	Long Island (secon.school	12.3671	92.9176	Dug Well	3.87	1.54	0.6	2.04	0.32
AN053	Havelock	Govindanagar Vill No - 1	12.0301	92.9972	Dug Well	4.07	0.9	0.83	1.52	0.35
AN054	Havelock	Govindanagar Vill No - 3	12.0232	93.0036	Dug Well	6.41	1.84	1.55	1.45	1.62
AN055	Havelock	Dolphin Yatri Nivas	12.0189	93.0112	Dug Well	3.87	2.52	1.23	1.87	0.89
AN056	Havelock	Radhanagar	11.9918	92.9536	Dug Well	4.78	0.87	0.9	1.55	0.15
AN057	South	Port Blair (Dobhi Well)	11.6710	92.7349	Dug Well	3.85	2.34	0.61	1.84	1.4
AN058	Middle	Swadeshnagar	12.6508	92.8924	Dug Well	5.49	0.8	0.81	2.36	0.56
AN059	South	Light House	11.6681	92.7378	Dug Well	4.74	3.17	0.25	1.65	1.05
AN060	Neil	Bharatpur	11.8303	93.0384	Dug Well	6	2	0.9	3.32	1.15
AN061	Neil	Bharatpur	11.8362	93.0447	Dug Well	3.9	1.2	0.5	3.25	1.95
AN062	Neil	Sitapur	11.8201	93.0608	Dug Well	5.4	1.24	1.06	3.39	1.44
AN063	Neil	Laxamanpur	11.8319	93.0171	Dug Well	4.37	0.82	1.05	1.95	1.6
AN064	Ross	Ross Island	11.6758	92.7638	Dug Well	6	1.65	1	3.7	1.7
AN065	South	Rangachang	11.5793	92.7370	Dugwell	5.33	2.35	0.92		0.5
AN066	South	Teylarabad	11.6073	92.7009	Dugwell	4.81	2.53	0.81	1.89	1
AN067	South	New Bimliton	11.5713	92.6963	Dugwell	3.98	2	0.8	3.2	0.9
AN068	South	Dhannikhari	11.6126	92.6671	Dugwell	3.41	1.46	0.76	3.04	0.72
AN069	South	Chouldari 1	11.6312	92.6670	Dugwell	3.39	2.49	0.87	2.22	1.35
AN070	South	Port Mout	11.6433	92.6599	Dugwell	4.9	2	0.98	1.67	1.48
AN071	South	Tushnabad	11.6791	92.6361	Dugwell	5.28	2.51	0.75	1.28	0.4
AN072	South	Herbertabad	11.7082	92.6151	Dugwell	5.66	2.55	0.82	2.09	0.65

Well No	Block	Village	Latitude	Longitude	Well Type	Depth (m)	Diameter (m)	MP (m)	April_23 (m bgl)	Nov_23 (m bgl)
AN073	South	Tirur	11.7338	92.6155	Dugwell	2.57	1.98	0.91	1.77	0.9
AN074	South	Ferrarganj	11.7175	92.6531	Dugwell	5.16	2.58	0.66	2.04	0.4
AN075	South	Bindraban	11.7220	92.6674	Dugwell	4.98	1.91	0.84	3.68	0.6
AN076	South	Mannarghat	11.7685	92.7061	Dugwell	5.02	2.03	0.84	1.86	1.65
AN077	South	Wrightmyo	11.7793	92.7087	Dugwell	4.8	2	0.91	3.51	1.68
AN078	South	Shoal Bay – 8 No.	11.8133	92.7172	Dugwell	3.52	2.51	0.83	1.51	0.55
AN079	South	Shoal Bay– 12 No.	11.8472	92.7303	Dugwell	4.35	2.31	0.97	0.67	0.38
AN080	South	Shoal Bay– 15 No.	11.8656	92.7364	Dugwell	3.35	1.5	0.75	0.63	0.55
AN081	South	Knoppuram	11.7367	92.7069	Dugwell	5.11	1.94	0.98	2.84	0.55
AN082	South	Stuwartganj	11.7242	92.7097	Dugwell	3.83	1.86	0.75	1.4	0.59
AN083	South	Mile Tilak	11.7947	92.6557	Dugwell	5.5	1	0.7	2.4	0.6
AN084	South	Hope Town (Maremon Temple)	11.6981	92.7272	Dugwell	4.31	1.96	0.91	2.16	1.55
AN085	South	Mithakhari	11.6681	92.6734	Dugwell	3.29	2.35	0.84	2.51	0.6
AN086	South	Nayashahar	11.5790	92.6767	Dugwell	5.44	2	0.91	2.69	1.05
AN087	South	Manglutan	11.5714	92.6602	Dugwell	4.7	1.48	0.86	1.79	1.15
AN088	South	Manjeri	11.5393	92.6481	Dugwell	5.31	2.51	0.95	1.55	1.65
AN089	South	Mamyo	11.5979	92.6330	Dugwell	4.27	2.03	0.71	2.24	1.09
AN090	South	Wandur – 2	11.5877	92.6166	Dugwell	3.91	2	0.65	5.15	1.3
AN091	South	Dollyganj Chowk (Old Pahargaon)	11.6342	92.7228	Dugwell	4.83	2.52	0.52	1.53	0.8
AN092	South	Lamba Line	11.6593	92.7495	Dugwell	4.47	1.3	0.74	0.46	0.3
AN093	South	Haddo – 2	11.7685	92.7279	Dugwell	3.71	1.23	0.78	1.52	0.95
AN094	South	Mount Harriyat	11.7194	92.7326	Dugwell	12	3.1	0.4	6.2	2.7
AN095	Middle	South Creek (Sundergarh)	12.1869	92.7919	Dugwell	4.6	1.95	1	2.95	1.55
AN096	Middle	Phooltala Basti	12.4118	92.7629	Dugwell	5.5	2.1	0.9	1.5	0.25
AN097	Middle	Kishorinagar (Parangara)	13.1630	92.8839	Dugwell	5	2	0.7	2.75	0.8

Well No	Block	Village	Latitude	Longitude	Well Type	Depth (m)	Diameter (m)	MP (m)	April_23 (m bgl)	Nov_23 (m bgl)
AN098	North	Milangram	13.3148	92.9431	Dugwell	3.5	2	0.7	1.35	0.36
AN099	North	Shibpur	0.0000	0.0000	Dugwell	-	-	0.9	1.85	0.48
AN100	North	Keralapuram	13.2588	93.0135	Dugwell	8.2	2.3	0.9	5.65	1.52
AN101	North	Webi (Debipur)	12.8669	92.8720	Dugwell	6.6	2	0.7	1.15	0
AN102	Middle	Pahalgaon	12.8393	92.8531	Dugwell	5	2.2	0.8	2.32	2.4
AN103	Middle	Joypur	12.6982	92.8809	Dugwell	5	2.5	0.8	3.25	0.52
AN104	Middle	Betapur	12.6191	92.9434	Dugwell	3.7	1	0.8	0.95	0.36
AN105	Havelock	Havelock Island Jetty	12.0413	92.9810	Dugwell	5	1.9	0.7	2.45	1.62
AN106	Havelock	Vijaynagar	11.9992	93.0093	Dugwell	3	1.7	0.8	1.5	1.07
AN107	Havelock	Kalapathar	11.9749	93.0059	Dugwell	4	1	0.6	2.78	1.99
AN108	Havelock	6½ No. Forest Camp	12.0080	92.9671	Dugwell	7.2	2	0.7	6.6	1.8
AN109	Havelock	Krishnanagar	12.0018	92.9766	Dugwell	4.1	0.8	0.6	2.3	1
AN110	Neil	Neil Kendra	11.8332	93.0293	Dugwell	8	2	0.8	5.4	3.38
AN111	Neil	Pearl Park Resort	11.8454	93.0144	Dugwell	8	2.2	0.4	5.78	4.66
AN112	Neil	Ramnagar	11.8172	93.0453	Dugwell	3.5	1.3	0.8	2.2	0.58
AN113	Middle	Long Island	12.3653	92.9248	Dugwell	4.2	2	1.05	2.25	1.71

SECTION-C

GROUND WATER YEAR BOOK OF SIKKIM (2023-24)

1.0 INTRODUCTION

Groundwater yearbook is prepared by Central Ground Water Board (CGWB) depicting changes in groundwater regime of the country through different seasons. It is an effort to obtain information on groundwater levels through representative monitoring wells. The important attributes of groundwater regime monitoring are groundwater level.

Groundwater levels are being measured by CGWB, ER every month in Sikkim state through Participatory monitoring since June, 2024.

2.0 GENERAL FEATURES

The Eastern Region of Central Ground Water Board has jurisdiction over the State of Sikkim having an area of about 7096 sq.km.

The state of Sikkim is located in the North Eastern part of the Country and lies between 27° 04' - 28° 08' N latitude 88° 00' to 88° 54' E longitudes covering an area of 7096 sq. Km; divided into 06 districts namely, Gangtok and Pakyong (East Districts), Gyalshing and Soreng (West Districts) Mangan (North District), Namchi (South District). Sikkim with a vertical strip of rugged mountainous terrain of roughly 65 to 100 kms broad and 170 kms deep has the second highest peak of the world, the mountain Kanchendzonga.

The attitude varies from 300 meters in low areas to 8500 metres in highland. The plain area is very small, limited to the intermontane valley. Two-third of the state consist largely snow clad high hills with deep ravines/gorges. About 30% of the state is forest covered.

Sikkim falls within high rainfall zone and especially in Monsoon the state receives a high precipitation and its annual rainfall exceeds 4000 mm. Sikkim has got two important rivers i.e., Teesta and Rangit. Other major Rivers are Rongnichu, Rorochu, Rolepchu in East, Bakachu, Rateychhu, Rangrangchu, Rimbichu, Kalejkhola and Ramamchhu in west.

These are numerous perennial springs with different magnitudes. Ground Water Exploration in parts of Namchi District and Gangtok District is done by Central Ground Water Board and about 40% well has yielded good discharge. Proper utilization of spring water, natural nala and khola water will help to increase the agricultural production and to mitigate the drinking water problems particularly in the rural areas where there is scarcity of water during lean periods.

3.0 GEOLOGY

Sikkim is characterized by rugged topography with series of ridges and valleys, generally aligned in NE – SW direction with altitude varying between 230 and 8598 meter amsl. The state can be categorized into nine physiographic divisions i.e. a) Summit & Ridge, b) Escarpment, c) Very steep slope (>50%), d) Steep slope (30 – 50%), e) Moderately Steep slope (20 - 30 %), f) Valleys, g) Cliff & Precipitous slope (20 - 30 %), h) Glacial drifts/ Moraines/Boulders, i) High mountains with perpetual snow. Perennial Tista and Rangit rivers along with their tributaries mainly control drainage. Drainages are of six orders in nature. Sub- parallel, rectangular, trellis and radial drainage patterns are most conspicuous. Snow and numerous glaciers characterize high mountain ranges in Sikkim Himalaya particularly the North district. These glaciers are the perennial source of water and regulate the run off in all major rivers of Sikkim. The glaciers of Sikkim may be grouped into seven glacier complexes: namely Chhombo, Yumthang, Lamgpo, Zemu, Talung, Rathang and Rel glacier complexes. These complexes cover about 17% of Sikkim. General geological map of Sikkim is given in figure-1.

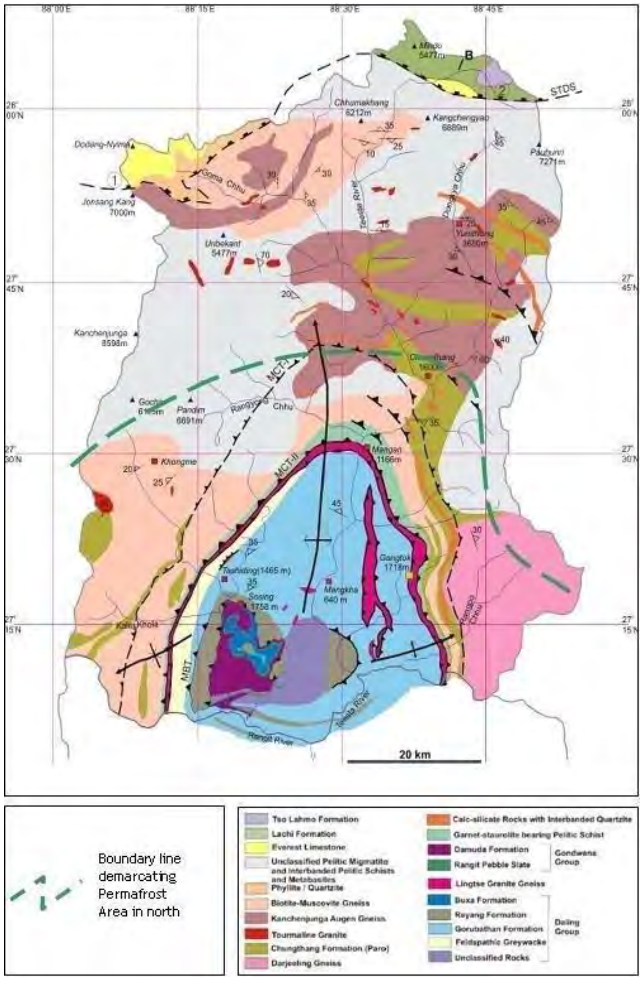


Figure-1: Geology of Sikkim

The stratigraphic sequence of the rock of the area is as follows (after G.S.I.)

NORTH SIKKIM
(Comprising of Mangan District)

Group	Formation	Rock Type	Age
Tso Lhamo	Tso Lhamo Formation	Dark Limestones and shales, quartzites and sandstones.	Middle Triassic
Lachhi	Lachhi Series	Pebble beds, lime stones and shales, quartzitessilts and shales	Carboniferous-Permain
Mt. Everest Peletic group		Phyllites, Quartzite, Quart-Biotite schist with granite	Late Permain-Lr. Palaeozoic

CENTRAL AND SOUTH SIKKIM
(Comprising of Gangtok,Pakyaong, Jorethang, Soreng and Namchi Districts)

Group	Formation	Rock Type	Age
Quaternary		Alluvium, terrace deposits etc	Recent
~~ ***Unconformity*** ~~~~~~~~~~~~~~~~			
Upper Gondwanas	Danuda	Fine to coarse grained sandstone Carbonaceous Shale	Permian Late Palaezoic
Lower Gondwana Group	Rangit Pebble Slate	Shale and coal pebbly cum boulder Slate	Upper Carboniferous to Permian
^^^^^^^^^^^^^^^^^^ ***Thrust Contact*** ^^^^^^^^^^^^^^^^^^			
Buxa	Buxa	Greyish coloured dolomite with purple coloured quartziteand Phyllites, some black Slates	Early Palaeozoic
Daling Group	Reyang and Garubathan	Purple coloured phyllite and variegated slates massive grey quartzite and sericite schists	Proterozoic
^^^^^^^^^^^^^^^^^^ ***Thrust Contact*** ^^^^^^^^^^^^^^^^^^			
Lingtse Group	Granite Gneiss	Highly sheared porphyroblastic granite Gneiss	Pre Cambrian
^^^^^^^^^^^^^^^^^^ ***Thrust Contact*** ^^^^^^^^^^^^^^^^^^			
Chungthang Group		Biotite Muscovite gneiss, quartzites, marbles, graphitic schist	Early Pre Cambrian
Darjeeling Group		Migmatitic Gneisses with Calc Silicates lenses	Early Pre Cambrian
Kanchenjunga Group		Augen Gneisses, Quartzite, Amphibolites and Migmatitic Gneisses	Early Pre Cambrian

4.0 CLIMATE

Sikkim is one of the rainiest regions in India. Most parts of the place experience torrential rains during summers. This happens because of the fact that the proximity of Sikkim to the Bay of Bengal and also the mountains of the State come directly in the path of the monsoon clouds. So much so that evens a small depression over the Bay of Bengal triggers off a downpour in Sikkim. Even during spring and autumn moisture laden clouds formed due to local evaporation. And these eventually continue to batter a greater part of Sikkim. It is only during October to March that there is hardly any rain and the weather remains more or less clear. Rainfall however varies considerably from place to place because of the fill features. The northern border of Sikkim experiences comparatively low rainfall because the monsoon clouds dry out by the time they hit the northern barrier. For the sake of comparison, Gangtok registers an average of 325 cm rainfall per annum whereas Muguthang in the extreme north experiences an average rainfall of only 60 cm per annum. Most of Sikkim does not experience high intensity of winds. However, at many hill tops and passes, winds and blizzards are having considerably high speeds.

The actual annual rainfall of the state is 2842 mm. Mangan district received 23% (highest) of total rainfall in 2023. While Soreng district received only 12% (lowest) of total rainfall (Figure-2).

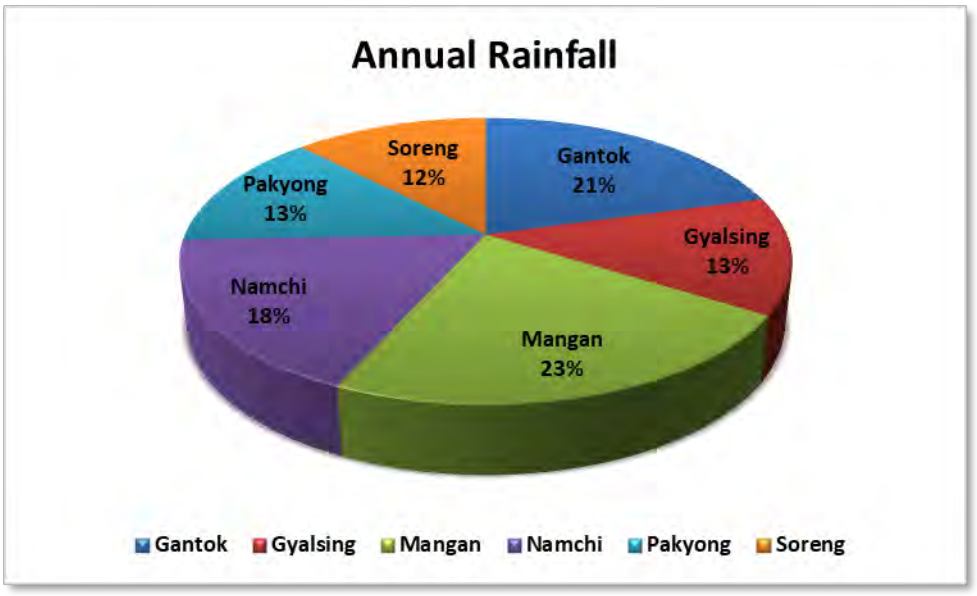


Figure 2: Pie diagram of rainfall distribution over the Sikkim state

District-wise actual monsoon and non-monsoon rainfall is given in the Table-1. The rainfall contour and interpolation map for monsoon, non-monsoon and annual rainfall is depicted in Figure-3, 4, 5.

Table-1 Actual Rainfall Distribution in Sikkim-2023

District	Cumulative Rainfall (mm)		Total Annual RF (mm)
	Non Monsoon	Monsoon	
Gantok	1353.2	2171.9	3525.1
Gyalsing	643.3	1615.7	2259
Mangan	1656.7	2236.8	3893.5
Namchi	661	2352.9	3013.9
Pakyong	758.1	1513.6	2271.7
Soreng	489.3	1605	2094.3

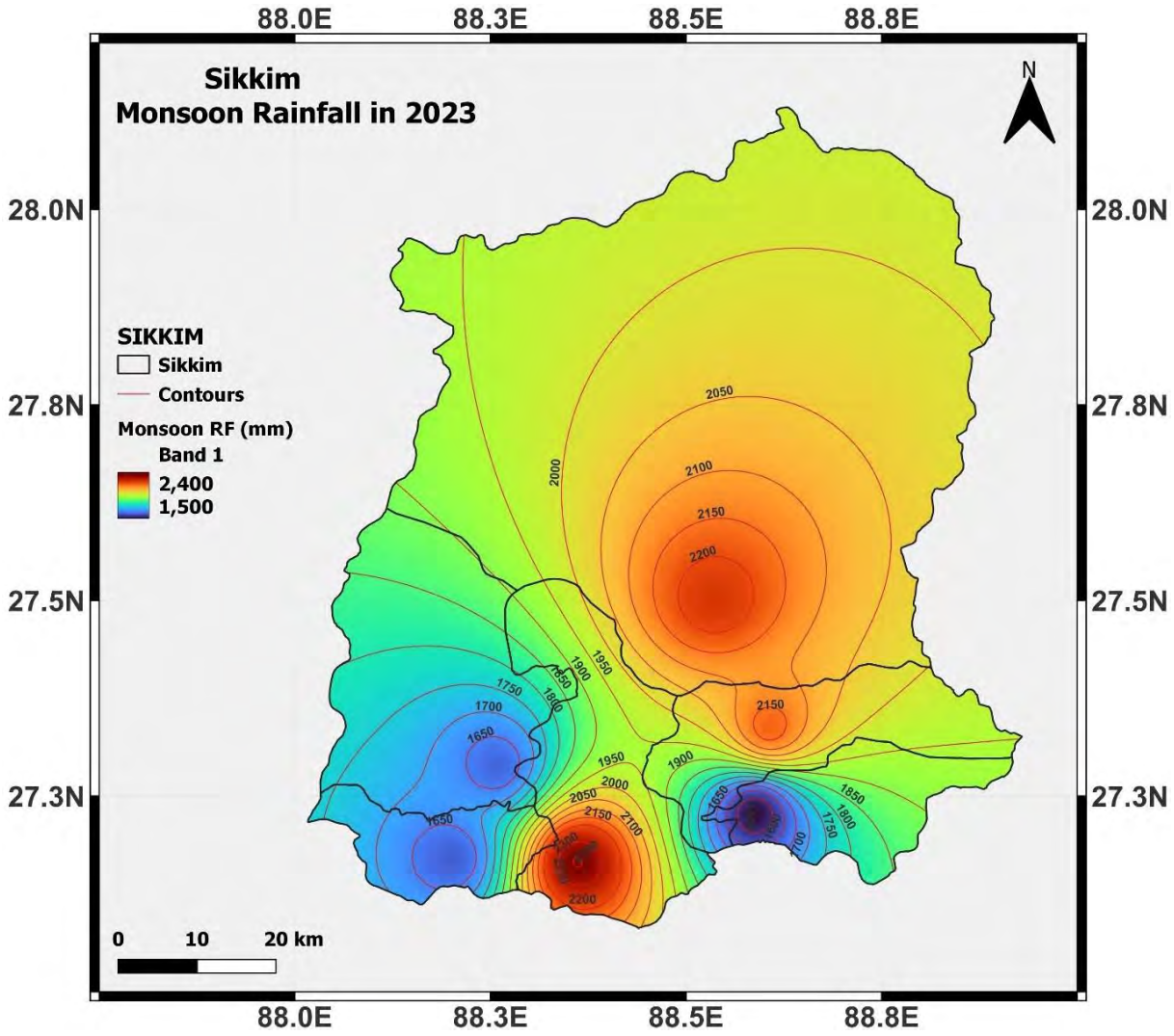


Figure 3: Rainfall contour and interpolation maps during monsoon season for Sikkim state

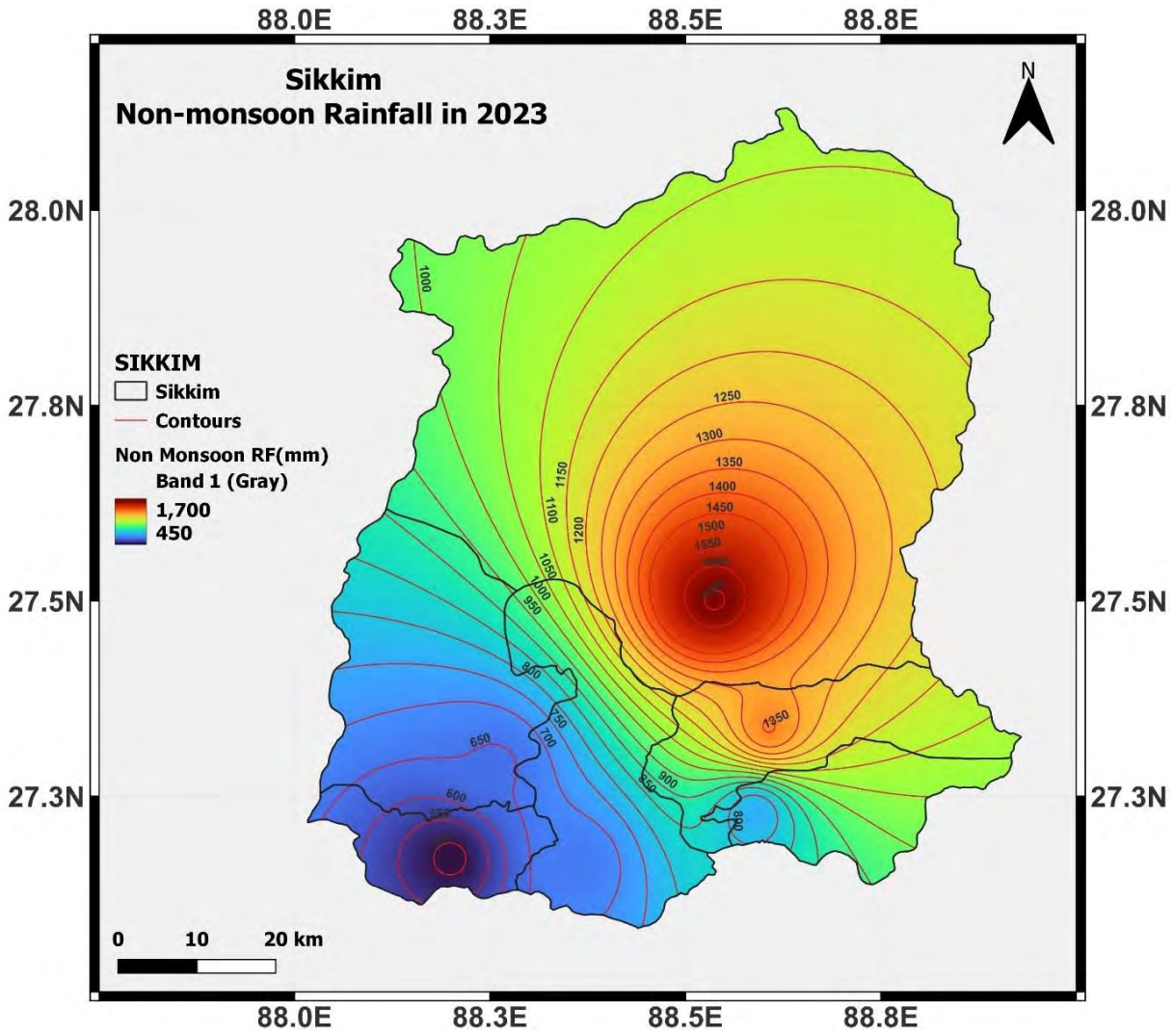


Figure 4: Rainfall contour and interpolation maps during non-monsoon season for Sikkim state

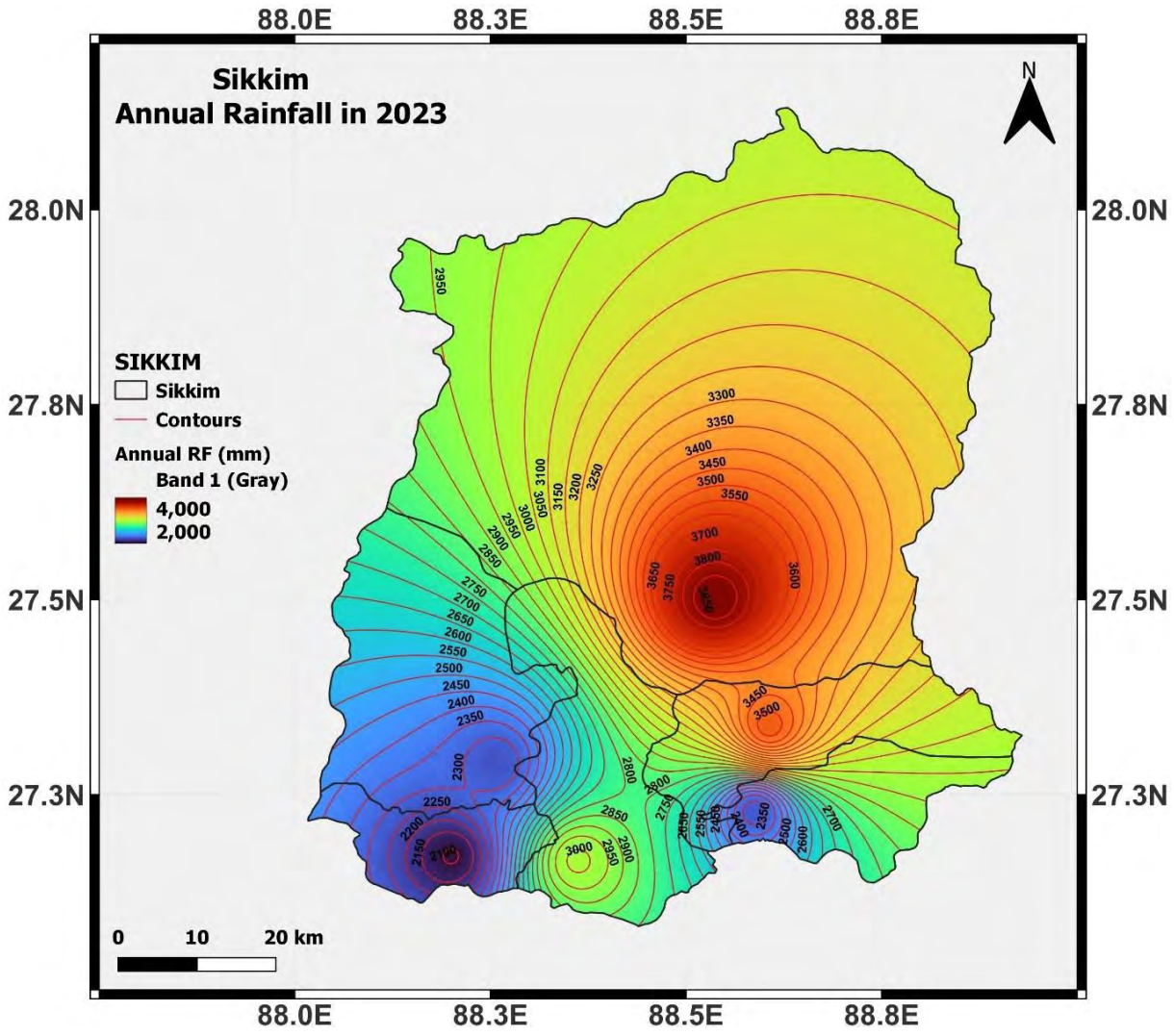


Figure 5: Rainfall contour and interpolation maps during 2023 season for Sikkim state

5.0 HYDROGEOLOGY

In general, Hydrogeologically or in other words ground water occurrences of the State can be divided in two groups as ground water in (1) Non-permafrost area; and (2) Permafrost area

i. <u>Ground Water condition in non-permafrost area:</u>

Ground water occurs in this area in largely disconnected localized bodies under favourable geological conditions, such as Jointed, fractured zones in the various lithological units, weathered zones in the Phyllite, Schist, Gneisses, Quartzite etc. Due to higher relief of the area and steeper gradient, ground water comes out as seepages and springs whenever the land surface intersects local ground water body. Ground water exploration has been undertaken by Central Ground Water Board to explore the

possibility of ground water occurrences & its potentiality in the hilly terrain of Sikkim. In total 29 no of exploratory wells (27 in South Sikkim and 2 in East Sikkim) and 9 nos. observation wells have been constructed at 25 placesdown to depth of 27 and 101 m bgl. Six sets of fractures have been identified in the depth of 10 – 70 m bgl. It is observed that discharge of the wells are at relatively high rate (89 to1608 lpm) in 8 nos. of well, at a medium to low rate (7.5 to 60 lpm) in 8 no of wells and at a very low rate (<7.5 lpm) in 10 no of wells. It is also observed that the fractures below 45 m bgl are regionally persistent and productive in nature. Transmissivity of the fractured aquifers ranges from 5.32 m^2/day to 316.43 m^2/day in Gondwana Formation and 16.14 m^2/day to 199.90 m^2/day in Daling Formation.

ii. <u>Ground water condition in Permafrost area:</u>

In general Glaciers are restricted in West and North Sikkim. They are grouped under seven glacier complexes; namely Chhombo, Yumthang, Lamgpo, Zemu, Talung, Rathang and Rel glacier complexes Water in these area (both ground water & surface water) is under frozen condition throughout the year.

5.0 GROUND WATER LEVEL MONITORING STATIONS

Central Ground Water Board, Eastern Region, has set up 04 Ground Water Monitoring Stations (GWMS) (04 PZ) in Sikkim State as on 31-03-2024 (figure-6).

The district-wise breakup of the water level monitoring stations is given in Table-2.

Table 2: District-wise distribution of water level monitoring stations in Sikkim

Sl. No	Name of the District	Number of GW Monitoring Stations				
		Dug Well	Piezometer	Handpump	Spring	Total
Sikkim						
1	Namchi	0	1	0	0	1
2	Pakyong	0	3	0	0	3
	Total	**0**	**4**	**0**	**0**	**4**

Figure 6: Map showing locations of monitoring stations (GWMS) in Sikkim

6.0 SCENARIO OF DEPTH TO WATER LEVELS IN SIKKIM DURING THE YEAR 2023

During April-2023, 04 nos. of Piezometers (PZ) has been established for monitoring purpose in Sikkim State for the first time. In the year 2023, the water level has been monitored for Pre & Post-Monsoon 2023. The wells have been taken for participatory monitoring every month since June, 2024 for strengthening of monitoring Network in the State.

During Pre-monsoon 2023, the maximum WL was reported at Daring block of Namchi district (22.29 m bgl) and minimum WL found at Pakyong Block of Pakyong district (3.27m bgl).

During Post-monsoon 2023, the maximum WL was reported at Daring block of Namchi district (20.9 m bgl) and minimum WL found at Pakyong Block of Pakyong district (3.8 m bgl).

Depth to water levels for the periods of April 2023 and November 23 has been analyzed and given in Annexure-I.

Annexure-I

Depth to Water Level Data during the Ground Water Year 2023 of GWMW in Sikkim

Site Name	District	Taluka	Village	Latitude	Longitude	Type of Well	April, 23	Nov,23
Mankind Pharma Ltd.	Namchi	Daring	Bermiok Elaka	27.2462	88.4517	PZ	22.29	20.9
Cipla Pharmaceuticals Ltd. (Unit-I)	Pakyong	Rangpo	Kumrek	27.1843	88.5502	PZ	19.3	18.88
Cipla Pharmaceuticals Ltd. (Unit-II)	Pakyong	Pakyong	Rorathang	27.1951	88.6129	PZ	3.27	3.8
M/S Macleods Pharmaceuticals Ltd.	Pakyong	Pakyong	Aho-Yangtam	27.2725	88.5911	PZ	6.92	6.5

CONSERVE WATER FOR FUTURE

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