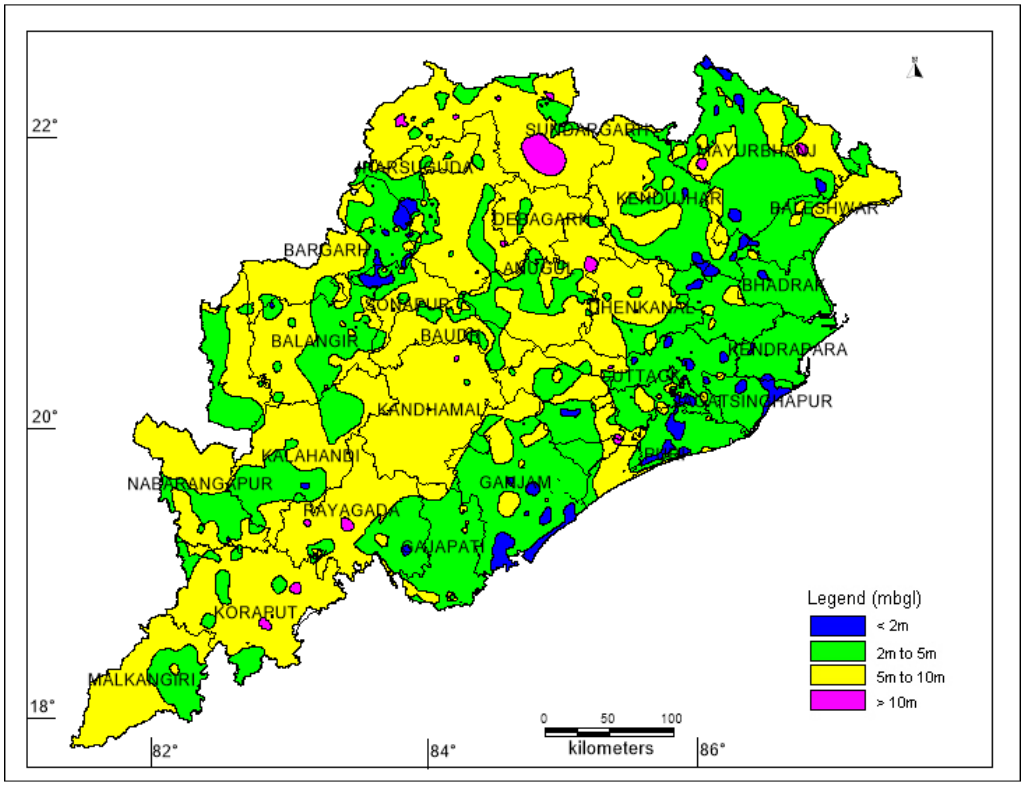
Govt. of India
Ministry of Jal Shakti
Department of Water Resources,
River Development & Ganga Rejuvenation

CENTRAL GROUND WATER BOARD

GROUND WATER YEAR BOOK
2019-2020



South Eastern Region
Bhubaneswar
September 2020

F O R E W O R D

Groundwater is a major natural replenishable resource to meet the water requirement for irrigation, domestic and industrial needs. It plays a key role in the agrarian economy of the state. Though richly endowed with various natural resources, the state of Odisha has a long way to go before it can call itself developed. Being heavily dependent on rain fed agriculture; the state is very often exposed to vagaries of monsoon like flood and drought. The importance of groundwater in mitigating the intermittent drought condition of a rain-fed economy cannot be overemphasized.

To monitor the effect caused by indiscriminate use of this precious resource on groundwater regime, Central Ground Water Board, South Eastern Region, Bhubaneswar has established about 1600 National Hydrograph Network Stations (NHNS) (open / dug wells) and piezometres in the state of Odisha. The water levels are being monitored four times a year. Besides, to study the change in chemical quality of groundwater in time and space, the water samples from these NHNS are being collected once a year (Pre-monsoon) and analysed in the Water Quality Laboratory of the Region. The data of both water level and chemical analysis are being stored in computers using industry standard Relational Database Management System (RDBMS) like Oracle and MS SQL Server. This is very essential for easy retrieval and long-term sustainability of data.

Dissemination of technical information in a way that is very useful to the user agencies is an important aspect that plays a vital role in the safe and optimal development of groundwater resources of our country. As an effort in this direction, Central Ground Water Board is bringing out “Groundwater Year Book” each year. The present report contains the observations and results of water levels in the state of Odisha for the year 2019 (April) - 2020 (January). It is sincerely hoped that this report will be immensely useful to various user agencies, Engineers, Scientists, Administrators, Planners and others involved in groundwater planning, development and management.

The present compilation is outcome of commendable efforts put in by **Smt. Sandhya Mohapatra Scientist-D and Ms Purba Bera, Scientist-B.**The maps included in the reports have been computer generated by them using sophisticated GIS software like MapInfo Professional and dedicated software GEMS. Water level monitoring and water sampling was carried out by the officers of the Region. The analysis of the water sample was done by Sh B.B Sahoo, Scientist D, Sh B N Dehury, Asst Chemist and Sh Yogesh M R, STA (Chemical) , following the standard operating procedures and Ground Water quality for the state of Odisha has been compiled by **Sh B N Dehury, Asst Chemist**. Their efforts are also thankfully acknowledged.

Bhubaneswar

(P K MOHAPATRA)
REGIONAL DIRECTOR

EXECUTIVE SUMMARY

The State of Odisha spreading over an area of 1,55,707 sq. Km is bounded between North latitude $17^0$49' to $22^0$34' and East longitude $81^0$24' to $87^0$29'. Success of agricultural operations and consequent economy of the state are related to the availability of water and its optimal utilization.

The average annual rainfall of the state is 1482 mm. Nearly 86% of the annual rainfall is contributed by the southwest monsoon. From the departure data it is discerned that from 1980 to 2019, negative departures is seen in most of the years.

The state is underlain by diversified rock types which range in age from Precambrian to the Cenozoic age. The Precambrians occupy nearly 80% of the total geological area of the state.

A total number of 1600 Hydrograph Network Stations have so far been established and are being monitored in the state.

During April 2019, the water level (meter below ground level) in the state varies from minimum of 0.11 mbgl in Anugul district to a maximum of 15.60 mbgl in Koraput district and water levels mostly range from 2 to 10 mbgl. Some wells in the hilly districts recorded water level in 10-20 m range.

During August 2019, the depth to water level ranges from 0.02 mgbl in Bhadrak district to10.70in mbglin koraput district and in majority (73.84%) of NHS wells level was in the range of 0-2 m below ground level and 22.31% of wells in 2-5 m below ground level.

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During November 2019, the depth to water level ranges from 0.01mbgl in Nayagarh district to12.00 mbgl in Anugul district and in majority (42.23%) of NHS wells level was in the range of 0-2 m below ground level and 48.73% of wells in 2-5 m below ground level. In general the water level in the state during November 2019 monitoring is found in the range of 0-2 m bgl especially in the coastal stretch and in parts of the hilly terrain, whereas 2-5 m bgl water level is found in the coastal and hard rock terrain.

During January 2020, the depth to water level ranges from 0.06 to 12.90 mbgl and in majority (58.96%) of NHS wells level was in the range of 2-5 m below ground level and 23.78% of wells in 0-2 m below ground level. In general the water level in the state during January 2020 monitoring is found in the range of 2-5 m bgl , whereas 0-2 m bgl water level is found in the coastal and command areas in the state.

The comparison of April 2019 water level with that of the same period of the previous year shows that 49.25%, 5.32% and 2.09% of the total NHS wells recorded rise in water level in the range of 0-2, 2-4 and more than 4m respectively. Similarly, 35.54%, 4.97%, 1.04% recorded fall in water level in the range of 0-2, 2-4 and more than 4m respectively.

The comparison of August 2019 water level with that of the same period of the previous year shows 43.43%, 2.70%, 0.67% of the total NHS wells recorded rise in water level in the range of 0-2, 2-4 and more than 4m

respectively. Similarly, 47.41%, 0.26% recorded fall in water level in the range of 0-2, 2-4 respectively and 0.67%recorded more than 4m.

The comparison of November 2019 water level with that of the same period of the previous year shows that 56.79%, 5.99%, 1.43%of the total NHS wells recorded rise in water level in the range of 0-2, 2-4 and more than 4m respectively. Similarly, 31.64%, 2.27%, 0.42%recorded fall in water level in the range of 0-2, 2-4 and more than 4m respectively.

The comparison of January 2020 water level with that of the same period of the previous year shows that 60.74%, 5.37%, 1.23%of the total NHS wells recorded rise in water level in the range of 0-2, 2-4 and more than 4m respectively. Similarly, 28.42%, 1.90%, 0.33% recorded fall in water level in the range of 0-2, 2-4 and more than 4m respectively.

A comparison of August 2019 water level with that of April 2019 shows that 31.02%, 36.21%, 30.16 % of the total NHS wells recorded rise in water level in the range of 0-2, 2-4 and more than 4m respectively. Similarly only 2.07%, 0.17% and 0% recorded fall in water level in the range of 0-2, 2-4 and more than 4m respectively.

A comparison of November 2019 water level with that of April 2019 shows that 43.49 %, 33.39 %, 13.62 % of the total NHS wells recorded rise in water level in the range of 0-2, 2-4 and more than 4m respectively. Similarly only 8.43 % , 0.61 % and 0.08 % recorded fall in water level in the range of 0-2, 2-4 and more than 4m respectively.

A comparison of January 2020 water level with that of April 2019 shows that 52.52%, 24.56%, 4.52 % of the total NHS wells recorded rise in water level in the range of 0-2, 2-4 and more than 4m respectively. Similarly only 15.41%, 1.21% and 0.17% recorded fall in water level in the range of 0-2, 2-4 and more than 4m respectively.

The comparison of April 2019 water level with that of the decadal mean of the corresponding period shows that 54.25%, 10.06% and 2.29% of the total NHS wells recorded rise in water level in the range of 0-2, 2-4 and more than 4m respectively. Similarly, 30.27%, 2.78% and 0.32% recorded fall in water level in the range of 0-2, 2-4 and more than 4m respectively. Similarly, 30.27%, 2.78% and 0.32% recorded fall in water level in the range of 0-2, 2-4 and more than 4m respectively.

The comparison of August 2019 water level with that of the decadal mean of the corresponding period shows that 69.0%, 5.36% and 1.1% of the total NHS wells recorded rise in water level in the range of 0-2, 2-4 and more than 4m respectively. Similarly,23.18%, 0.86% and 0.23% recorded fall in water level in the range of 0-2, 2-4 and more than 4m respectively.

The comparison of November 2019 water level with that of the decadal mean of the corresponding period shows that 59.32%, 4.26% and 0.16 % of the total NHS wells recorded rise in water level in the range of 0-2, 2-4 and more than 4m respectively. Similarly, 34.08%, 2.09 % and 0.08% recorded fall in water level in the range of 0-2, 2-4 and more than 4m respectively.

The comparison of January 2020 water level with that of the decadal mean of the corresponding period shows that 68.06%, 5.84% and 0.47% of the total NHS wells recorded rise in water level in the range of 0-2, 2-4 and

more than 4m respectively. Similarly, 24.11%, 1.26% and 0.16% recorded fall in water level in the range of 0-2, 2-4 and more than 4m respectively.

The shallow aquifers of inland zone of the state are mostly fresh and dominated by Ca-Mg-HCO_3 and mixed types of water. In the coastal plain where most of the wells are located in alluvium, the water is relatively saline. The shallow aquifers of the coastal plain are of $NaHCO_3$ type with some isolated patches of NaCl and Ca-Mg-HCO_3 types, which may be due to Base Exchange process and also due to the vicinity of the sea. These aquifers, at places, are of high Electrical Conductivity and high Chloride, Nitrate, and Fluoride content.

GROUND WATER YEAR BOOK 2019 – 2020

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GROUND WATER YEAR BOOK
(2019 - 2020)

1.0 INTRODUCTION

The State of Odisha with a geographical area of 1,55,707 sq. km is bounded between North latitudes 17^0 49' and 22^0 34' and East longitudes 81^0 24' and 87^0 29'. The State comprises of 3 revenue divisions, 30 districts, 58 subdivisions and 314 community development blocks. The state's population largely depends on agriculture. Success of agricultural operations and the consequent agrarian economy of the state are dependent on the availability of water and its optimal utilization. The total population of the state as per 2011 census is 419.73 lakhs, out of which the rural population is 349.70 lakhs and the urban population is 70.03 lakhs. The rural population is almost dependent on agriculture for their livelihood and the agriculture on availability of water. A consistent ground water database is inevitable for planning of judicious and optimal utilization of ground water through an efficient resource management system for which the prerequisite is a reliable monitoring system.

Keeping this perspective in view, Central Ground Water Board carries out the ground water monitoring through a network of observation wells - the National Hydrograph Network Stations. The National Hydrograph stations set-up is a system of spatially distributed observation points for ground water regime monitoring at which periodic monitoring is carried out viz. recording of water levels, temperature and collection of water samples for chemical quality analysis for building a robust database to cater to multitude of needs for ground water management.

Groundwater monitoring data so collected forms an important input for water management. One of the main objectives is the prediction of future conditions or future scenarios, based on background samples of historical data, which may consist of repeated measurements from a single monitoring well. Also the monitoring is being carried out with a view to observe the rise or fall of the ground water levels and change in quality of water with changing stress conditions.

The studies include periodic measurement of water levels, temperature, and collection of water samples for determination of chemical constituents. Apart from evaluation of groundwater resources from time to time for developmental planning, this also helps in forecasting groundwater regime behaviour with progressive development of groundwater or effects of other recharge or discharge conditions, which helps in adopting remedial measures when necessitated.

For achieving these objectives 1600 nos. of observation wells have so far been established all over the state by CGWB, to serve as permanent Hydrograph Network Stations for the purpose of monitoring of groundwater

regime. In selecting hydrograph stations due consideration has been given to the hydrogeological, hydrochemical aspects and their location in river Basin/ Sub basin/ Watershed etc.

To strengthen the water level monitoring network and to avoid the possibility of dug wells used as NHNS being filled up due to extraneous activities, some purpose built piezometer have been constructed by the Central Ground Water Board under its normal activities as well as under World Bank Aided Hydrology Project. In course of time it is proposed to replace all the dug wells used as observation wells with piezometers for better monitoring.

2.0 PHYSIOGRAPHIC FEATURES

The State presents varied and picturesque landforms. The Southern and Central parts of the State in Rayagada, Kalahandi, Kandhamal and Gajapati districts present a rugged hilly tract. Plateau occupies the Northern districts of Sundergarh, Keonjhar and Mayurbhanj and parts of Nawarangpur district in the Southwest. Undulating plains characterizes the major river valleys. A narrow coastal plain borders the Bay of Bengal.

Physiographically the state can be divided into five distinct units, namely (i) Coastal plains, (ii) Northern uplands, (iii) The erosional plains of Mahanadi and other river valleys (iv) South Western hilly region and (v) Subdued plateaus. Physiography of the state has been presented in **Plate:-2.1**

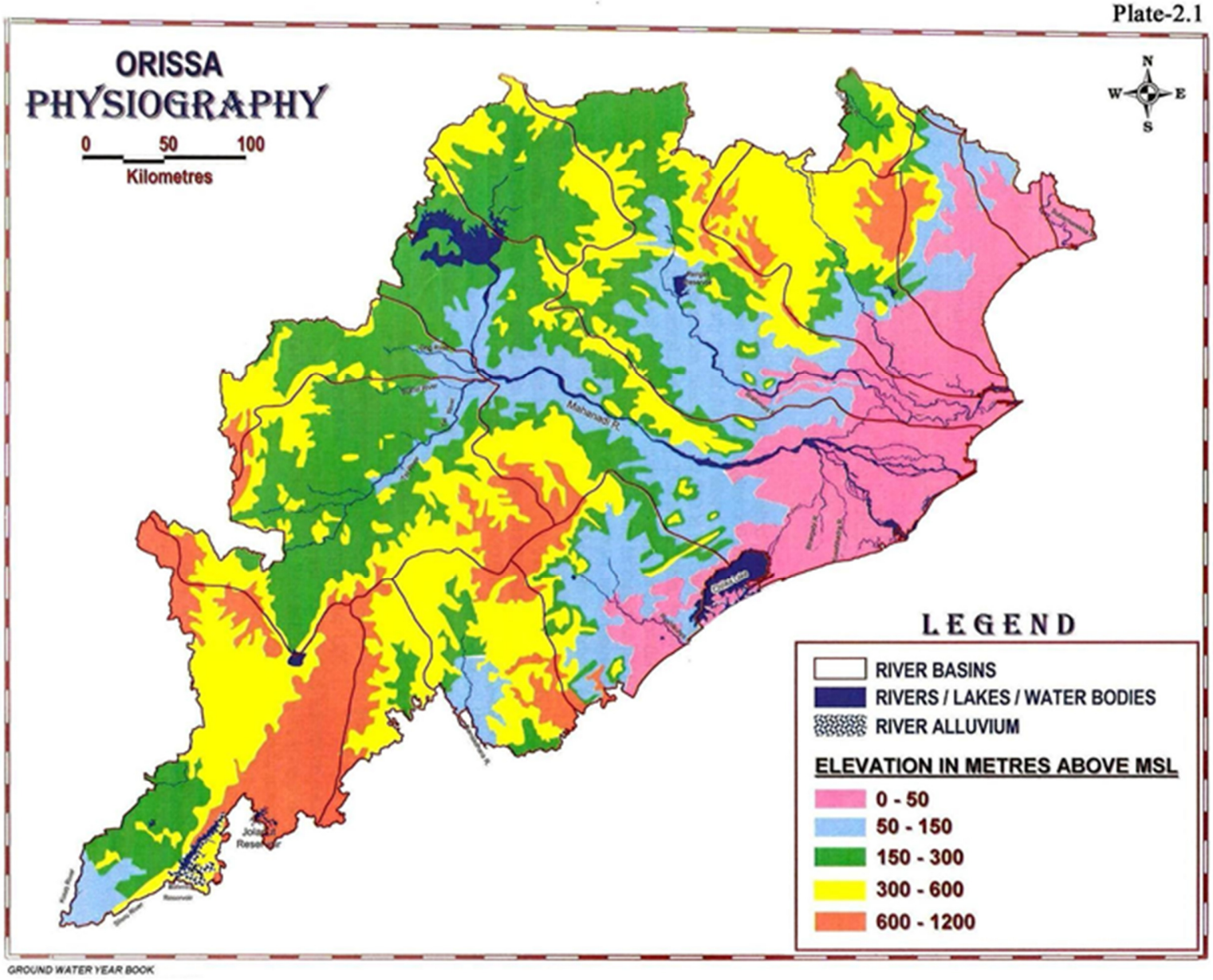
The coastal plains covering parts of Ganjam, Puri, Cuttack and Balasore districts from south to north form an extensive flat alluvial tract between the hills in the west and the coast in the east. It presents a flat topography gently sloping towards east with insignificant elevation difference. The general elevation of coastal plains varies from 1 to 10m above mean sea level (amsl).

Northern uplands covering Mayurbhanj, Keonjhar and Sundergarh districts and Pallahara subdivision of Dhenkanal district are undulating, frequently intersected by hill ranges with general slope from north to south. The elevation in the central part of the upland generally varies between 300 to 600 m and forms watersheds of Baitarani and Brahmani river systems. The erosional plains of Mahanadi river basin lie between the northern uplands and southern hilly region of the Eastern Ghats. The tract covers major parts of undivided districts of Sambalpur, Bolangir, Dhenkanal and northern parts of Kandhamal (Khandamal) and Western part of Puri districts. The altitude of this tract lies between 150 to 300 m above mean sea level (amsl).

Southwestern hilly region lies to the south and southwest of Mahanadi valley region stretching through Kandhamal, Ganjam districts and part of Koraput district. Major part of this region has an elevation over 600m, acting as the watershed of the two sets of rivers, one set flowing directly to the Bay of Bengal, namely Rushikulya, Nagavali and Vamsadhara and the others feeding the Godavari and Mahanadi river systems.

The plateaus extend throughout the western parts of Kalahandi, Nawapara, Koraput, Malkangiri , Rayagada and Nawarangpur districts with an average elevation varying from 300 to 600m above mean sea level (amsl).

Plate-2.1


ORISSA
PHYSIOGRAPHY
0 50 100
Kilometres
N
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E
S
LEGEND
RIVER BASINS
RIVERS / LAKES / WATER BODIES
RIVER ALLUVIUM
ELEVATION IN METRES ABOVE MSL
0 - 50
50 - 150
150 - 300
300 - 600
600 - 1200
Mahanadi R.
Cuttack
Hirakud Reservoir
GROUND WATER YEAR BOOK

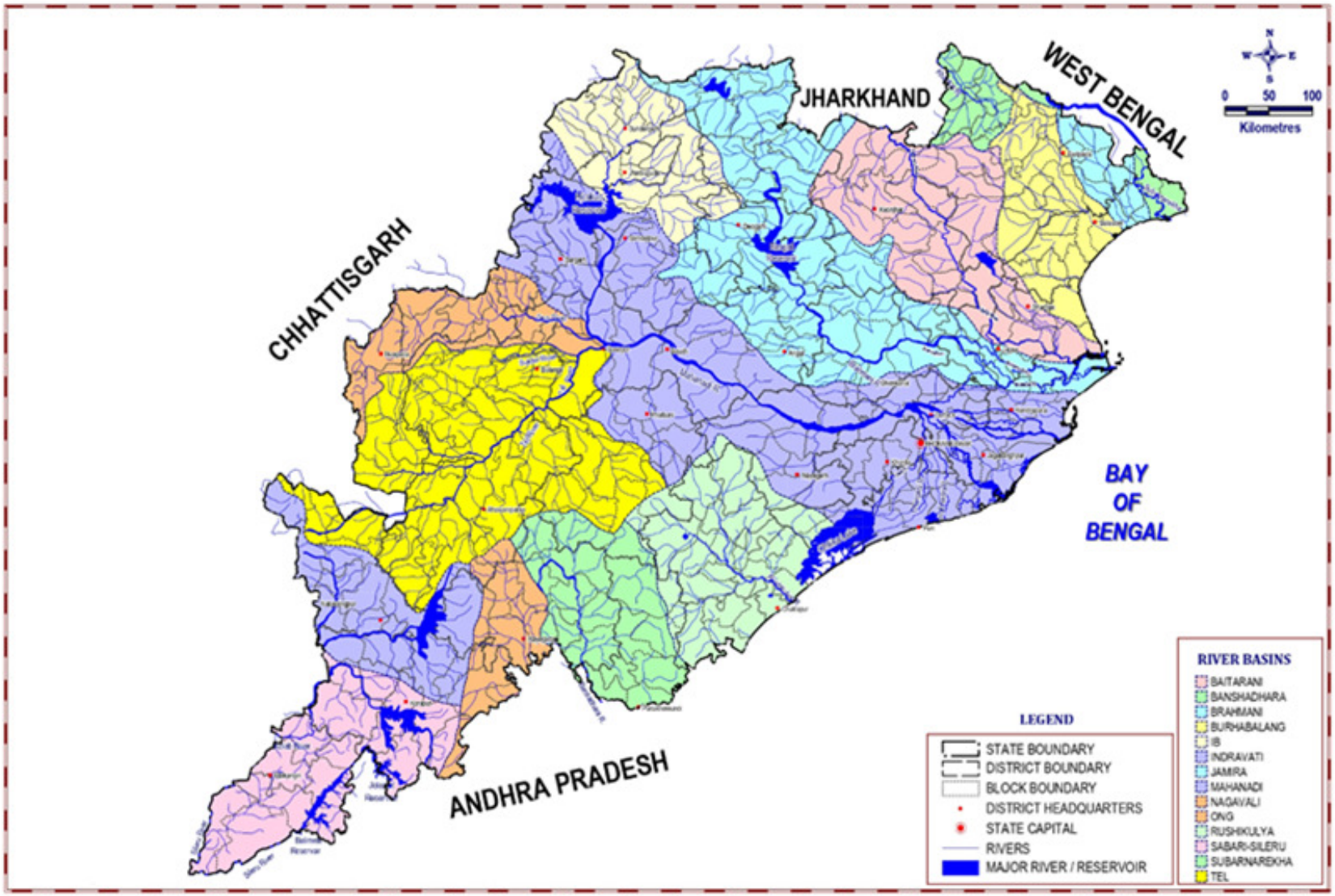
3.0 DRAINAGE

There are eleven principal rivers traversing the entire state that can be grouped under eight major river basins within the state, whereas the Indravati, Kolab, Machkund sub-basins in the south forms part of Godavari river basin. Most of the major rivers flow in easterly and southeasterly direction with gentle gradient. Generally the rivers are effluent in nature. In general the drainage pattern is of both dendritic and radial types. The river basin map of Odisha is presented in **Plate 3.1**. The salient features of the major river basins are given in **Table 3.1**.

SALIENT FEATURES OF MAJOR RIVER BASINS TABLE 3.1

River	Total Catchment Area (Sq Km)	Catchment Area In Odisha (Sq km)
Mahanadi	1,41,134	65,628
Brahmani	39,116	22,516
Baitarani	14,218	13482
Subarnarekha	19,277	2,983
Budhabalang	6,691	6354
Rusikulya	8,963	8963
Vamsadhara	11,377	8960
Nagavali	9,275	4500
Indravati	41,700	7,400
Kolab	20,427	10300
Bahuda	1118	890

RIVER BASIN MAP OF ODISHA **PLATE:3.1**



4.0 CLIMATE AND RAINFALL

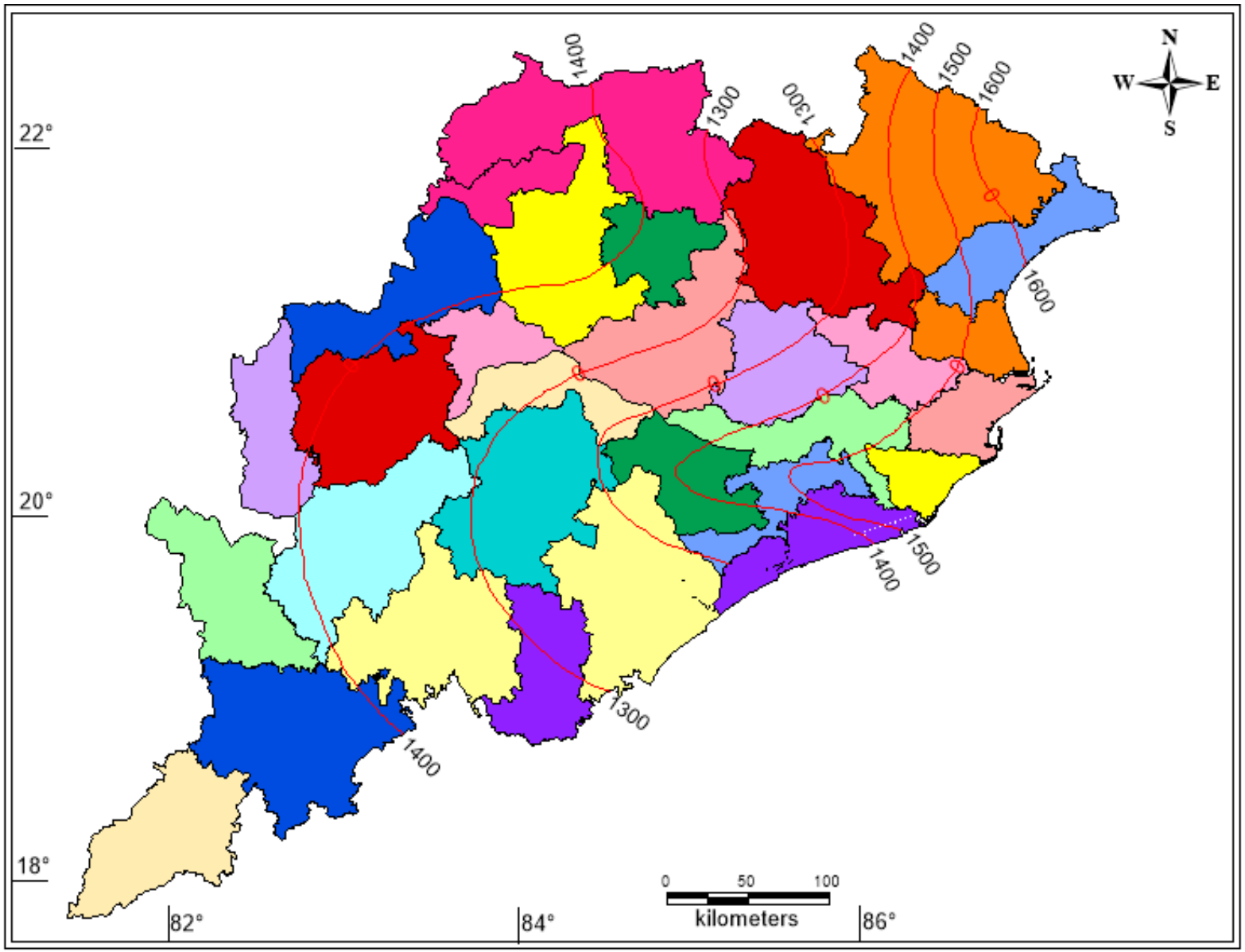
The state enjoys a sub-tropical climate with three distinct seasons i.e. summer, monsoon and winter. The southwest monsoon rain starts from mid of June and continues till mid of October. Summer season extends from March to early part of June and winter season spreads from November to February.

The normal average rainfall of the state is 1482.2mm . Nearly 86% of the annual rainfall is contributed by the southwest monsoon. The spatial distribution of the rainfall in the State is uneven and erratic. A perusal of the Isohyetal map of the normal rainfall for the period (**Plate –4.1**) shows that the rainfall is highest in the northern part of coastal tract, which ranges from 1520.32 to 1697.87 mm. The rainfall reduces westwards, from 1487.02 to 1211.08 mm in Kandhamal, Angul, Keonjhar districts and also southwards to 1221.14 mm around Gopalpur in Ganjam district.

The rainfall ranges from 1331.85 mm to 1491.89 mm in Koraput, Kalahandi, Bolangir, Sambalpur and Sundergarh districts. The IMD rainfall data for ten years **(2010-2019)** has been given in **Table 4.1**. From the rainfall departure data, it can be observed that the year 1990, 1995 and 2003 indicate excess rainfall in the major part of the state. **Table 4.2** presents the drought, flood and cyclone years in the state from **1980 to 2019**. A perusal of the table indicates that every alternate year, the state experiences a natural calamity in the way of drought or flood or cyclone. This has created a most unpredictable climate for any agricultural activity in the state.

The state experiences hot summer with temperatures shooting up to 45°C in the east to 50°C in the west. During winter season mornings and nights are cool. However the mean monthly winter temperature varies from 18°C to 22°C in different parts of the state. The mean monthly summer temperature is 37°C in western parts and 28°C in southern parts. Humidity ranges from 70% to about 100% in the state. During monsoon period the humidity is very high in the eastern parts and during summer it is dry in the western part of the state.

ISOHYTAL MAP OF ODISHA **PLATE:- 4.1**



RAINFALL DATA OF IMD FOR LAST 10 YEARS (IMD DATA) TABLE- 4.1

YEARS / DISTRICT	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
ANGUL	983.1	1322.6	1385.5	1684.6	990.3	1004.5	1125.5	989.4	1373.4	1258.5
BALASORE	1412.7	1535.9	1129.6	2189.9	1706.6	1260.6	1565.6	1599.1	1838.6	1661.8
BARAGARH	1153.8	1295.3	1471	1022.4	1612.6	991.9	1034.8	949.9	1357.0	1584.1
BHADRAK	1247.4	1395.1	1041.3	1576.3	738.6	1113.8	1526	1218.2	1775.6	1506.2
BOLANGIR	1219.1	1208.4	1129.9	1307.3	1463.7	941.3	1006.9	862.3	1128.1	1565.6
BOUDH	1091.4	1131.2	1245.6	988.3	391.3	1072.5	1133.8	1154.1	1621.9	1532.1
CUTTACK	1557.7	1465.9	1803.8	1658.6	1718.7	1133.7	1334.5	1458.3	1841.5	1880.2
DEOGARH	951.8	1303.2	1349.1	1440.8	383.7	1133.7	1334.5	1501.6	1477.5	1411.3
DHENKANAL	2956.2	1545.6	1524.5	1620	877.0	1097.4	1238.4	1156.7	1620.1	1463.9
GAJAPATI	1473.5	1226.6	1180.5	1696.4	1117.1	1100.4	1294.4	1431.5	1685.6	1520.5
GANJAM	1557.4	936.9	1301.3	1821.3	2359.5	1016.1	1068.3	1363.3	1373.1	1574.6
JAGATSINGHPUR	1488.9	1113.8	1137.8	1280	912.2	1178.1	1686.2	1623.2	1838.8	1647.9
JAJPUR	1282.7	1683	1185.7	1690.9	1264.3	1177.3	1427	1322.7	2091.6	1750.0
JHARSUGUDA	1068.6	1287.1	1770.5	1283.8	554.0	1463.5	1110.1	1332.1	1359.7	1823.8
KALAHANDI	1450.1	1232.4	1295.3	1577.7	1693.7	1181.1	1274.4	1357.9	1996.5	1694.4
KENDRAPARA	1178.9	1576.1	1115.7	1656	1028.6	1182	1652	1520.4	1885.8	1583.1
KEONJHAR	1196.6	1634.6	1377.7	1694.9	1366.3	1049	1273.1	1377.8	1666.0	1494.7
KHURDA	1279.7	2071.4	1216.7	1730.4	1063.9	923.1	1017.4	1363.5	1810.6	1816.3
KORAPUT	1645.7	1005.5	1565.3	1640.6	1892.7	1536.1	1692	1566.6	1794.0	2105.1
MALKANGIRI	1912.8	874.1	2056.5	1751.9	851.3	2191	1456.4	2100.8	2260.0	2104.2
MAYURBHANJ	1023.4	1607.3	1352.3	2273.9	3154.8	1342.4	1424.6	1504.1	1654.3	1682.6
NAWAPARA	901.4	1141.2	935.6	1446.4	602.2	1147.5	1047.3	956.3	1192.8	1167.4
NAWARANGPUR	2305.7	1395.5	1697.2	1974.8	1554.5	1666.6	1486.1	1467.6	1382.7	1695.3
NAYAGARH	1726.7	1197.5	1754.1	2029.4	889.3	1127	1148.2	1195	1400.8	1713.6
PHULBANI	-	-	-	1704.3	1488.3	933.8	1105.4	-	1826.4	1671.7
PURI	1576	1054	1275.1	1540.6	1324.8	1057.2	1328.2	1582.4	1936.0	1858.9
RAYAGADA	1451.9	913.5	1227.8	1459.5	1313.6	1149.9	1138.6	1419.5	1514.5	1407.6
SAMBALPUR	887.4	1473.2	1964.7	1410.7	1283.4	1272.4	1143.4	1300.1	1660.4	1529.3
SONAPUR	933.1	894.7	1438.3	1312.5	1800.3	956	1048	1322.4	1624.5	1724.1
SUNDARGARH	970.5	1620.3	1518.2	1504.2	908.7	1250.2	1105.6	1064.3	1312.3	1404.9

RAINFALL IN ODISHA **TABLE-4.2**

YEAR	NORMAL RAINFALL (mm)	ACTIVE RAINFALL (mm)	DEVIATION FROM NORMAL RAINFALL		NATURAL CALAMITIES
			In (mm)	In Percentage	
1980	1502.5	1321.7	-180.8	-12.03	Flood, Drought
1981	1502.5	1187.4	-315.1	-20.97	Flood, Drought
1982	1502.5	1179.9	-322.6	-21.47	Severe Flood, Drought, cyclone
1983	1502.5	1374.1	-128.4	-8.55	
1984	1502.5	1302.8	-199.7	-13.29	Drought
1985	1502.5	1606.8	104.3	-6.94	Flood
1986	1502.5	1566.1	63.6	4.23	
1987	1502.5	1040.8	-461.7	-30.73	Severe Drought
1988	1502.5	1270.5	-232	-15.44	
1989	1502.5	1283.9	-218.6	-14.55	Flood
1990	1502.5	1865.8	363.3	24.18	
1991	1502.5	1465.7	-36.8	-2.45	Flood and Drought
1992	1502.5	1344.1	-158.4	-10.54	
1993	1502.5	1421.6	-80.9	-5.38	Flood
1994	1502.5	1774.1	271.6	18.08	Flood
1995	1502.5	1726.9	224.4	14.94	Drought
1996	1502.5	1034.4	-468.1	-31.15	
1997	1502.5	1463.3	-39.2	-2.61	
1998	1502.5	1279.8	-222.7	-14.82	
1999	1502.5	1433.8	-68.7	-4.57	
2000	1482.2	1034	-448.2	-31.18	Drought
2001	1482.2	1616	133.8	9.03	
2002	1482.2	1008	-474.2	-31.99	Drought
2003	1482.2	1664	181.8	12.27	
2004	1482.2	1274	-208.2	-14.05	
2005	1482.2	1272	-210.2	-14.18	
2006	1482.2	3203.8	1721.6	116.15	Flood
2007	1482.2	1647.5	165.3	11.15	
2008	1482.2	1604.7	122.5	8.26	
2009	1482.2	1390.06	-92.14	-5.58	
2010	1482.2	1330.85	-151.35	-10.21	
2011	1482.2	1283.64	-198.56	-13.39	
2012	1482.2	1394.71	-87.49	-5.9	
2013	1482.2	1598.94	116.74	7.87	
2014	1482.2	1276.87	-205.32	-13.85	cyclone
2015	1482.2	1274.22	-207.98	-14.04	
2016	1482.2	1274.2	-208	-14.03	
2017	1482.2	1302	-180.2	-12.15	
2018	1482.2	1665	182.8	12.29	cyclone
2019	1482.2	1627.8	145.6	9.82	cyclone

5.0 HYDROGEOLOGICAL CONDITION

Geological setting, climate and topography plays a vital role in occurrence and movement of groundwater. The state is underlain by diverse rock types, which range in age from Precambrian to Cenozoic. The Precambrians occupy nearly 80% of the total geographical area of the state. The Tertiary and the Quaternary formations are restricted mainly to the narrow coastal tracts. The Gondwana group of rocks belonging to Paleozoic and Mesozoic age occur in isolated patches in different parts of the state. These formations occur in Talcher area of Angul district and Ib river valley area of Sambalpur and Sundergarh districts. Hydrogeologically, the state can broadly be divided into 3 distinct geological units. The aquifer system of the state has been depicted in **Plate 5.1**.

Area with Precambrian Consolidated Formations –

Sundergarh, Keonjhar, Mayurbhanj, Subarnapur, Bolangir, Kandhamal, Boudh, Gajapati, Nuapara, Kalahandi and parts of Nayagarh, Khurda, Balasore, Cuttack, Ganjam, Koraput, Kalahandi, Angul, Dhenkanal, Sambalpur and Bargarh districts.

Area with Semi-consolidated Gondwana & Tertiary Formations –

Parts of Sundergarh, Mayurbhanj, Angul, Dhenkanal, Khurda, Sambalpur, Kandhamal and Bolangir districts.

Area with Unconsolidated Quaternary Formations –

Coastal tracts of Puri, Khurda, Cuttack, Jagatsinghpur, Jajpur, Kendrapara, Balasore, Bhadrak, Ganjam districts and inland river valleys.

5.1 CONSOLIDATED FORMATIONS

The consolidated formations include the hard crystalline and partly metamorphosed compact sedimentary formations belonging to Pre-Cambrian. The rock types are mainly granites, granite gneisses, schistose rocks, khondalites, charnockites, quartzites, calcsilicates, shale, phyllite, sandstone, limestone, marble etc. These rocks are devoid of primary porosity. The ground water occurs in secondary porosity resulting from weathering fracturing and jointing. The hard rock aquifers exhibit considerable variation laterally as also in depth. The weathered mantle is composed of loose regolith with intergranular porosity, which facilitates free circulation of ground water through deeper fractures and forms potential repository of ground water. In general the average thickness of weathered residuum varies from 15 to 20 m. Ground water occurs under phreatic condition. The water bearing fracture zones generally occur within 100m depth but deeper potential fractures have also been encountered in some of the bore holes drilled by the Central Ground Water Board.

5.2 SEMI CONSOLIDATED FORMATIONS

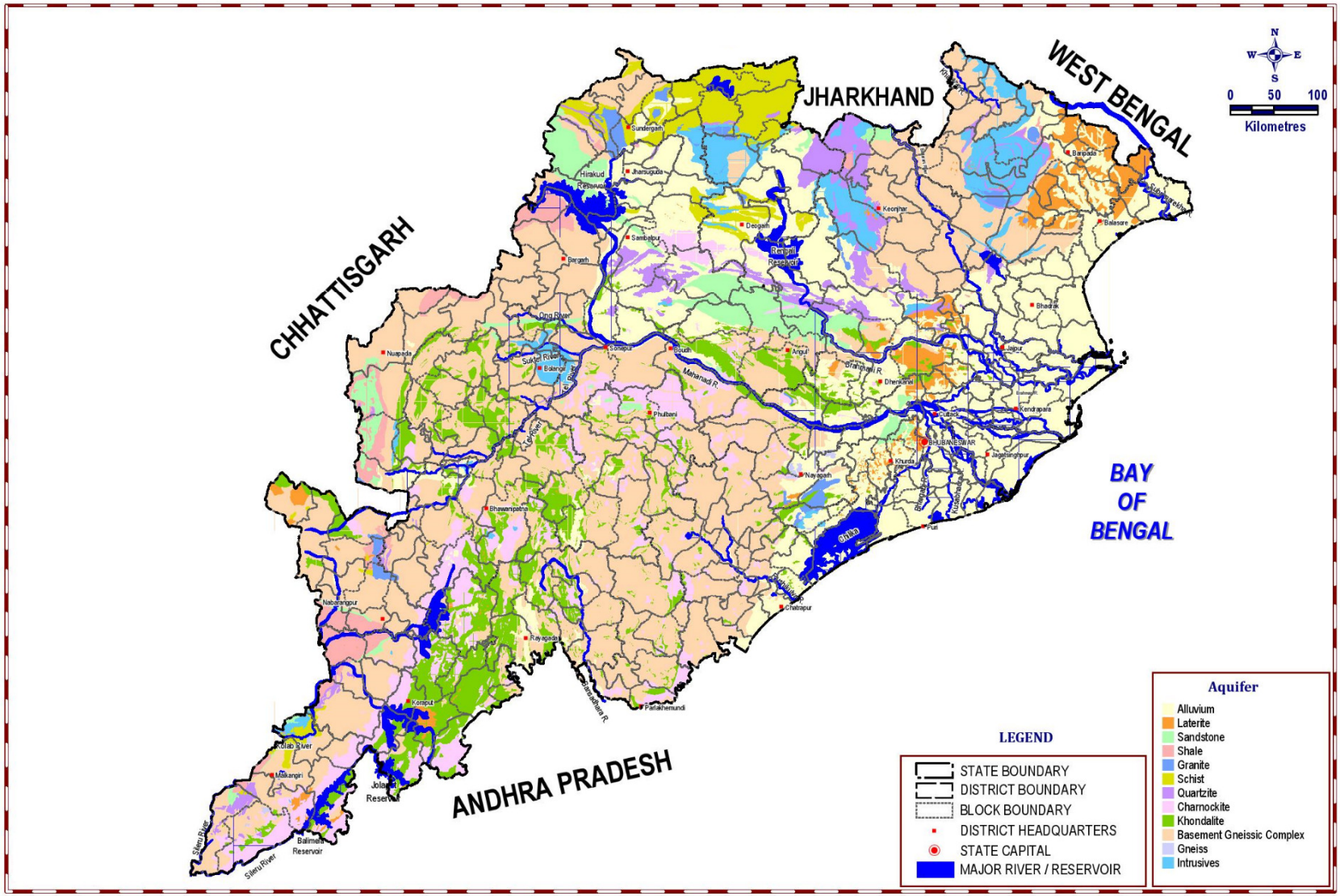
The semi-consolidated formations include Gondwana sedimentaries ranging in age from Upper Carboniferous to Cretaceous and the Baripada beds of Middle-Pliocene age. The Gondwanas include sandstones, shales, siltstones and conglomeratic beds, while the Baripada beds consist of fossiliferous limestones, stratified semi-consolidated sand beds with intercalated shales. The coarse to medium grained, weathered, fractured and friable Gondwana sandstones and the semi-consolidated sand beds of Baripada formation form the aquifers. The ground water occurs under water table condition in the shallow aquifers and under semi-confined to confined conditions in the deeper aquifers. The depth of weathering in Gondwanas generally extends to a depth of 15m.

5.3 UNCONSOLIDATED FORMATIONS

The unconsolidated sediments include Pleistocene and Recent alluvium. The older alluvium, which forms conspicuous and significant horizon, is generally overlain by laterites. The laterites are vesicular, essentially ferruginous and form the shallow aquifer. Maximum development of alluvial formations occurs along the coastal tract, with a maximum thickness of about 600m. Alluvium also occurs as discontinuous patches adjoining the river courses, where the thickness is limited to about 45m. The sand and gravel layers act as good repository of ground water. Groundwater occurs under unconfined condition in the shallow zone and under semi-confined to confined condition in the deeper zone. The coastal tract holds potential for large- scale ground water development as the sand zone forms prolific aquifers. But the coastal tract is beset with salinity problems both in shallow as well as deeper aquifers at different locales at different levels.

AQUIFER SYSTEM OF ODISHA

PLATE :- 5.1



6.0 GROUND WATER REGIME MONITORING

Ground water monitoring is carried out by CGWB through a network of observation wells (dug wells and piezometers) spread all over the state. These wells serve as permanent National Hydrograph Stations (NHS). The existing network provides an optimal spatial distribution of observation stations in the region, through which necessary information on ground water regime is available with a fair degree of accuracy. Through interpolation between data sets at different stations, it is possible to determine the characteristics of elements at any point in the region. Under normal circumstances, the water level of the observation wells are being measured four times in a year during fixed period of time as given below –

April – 20th to 30th of the month	Represents water level situation in Pre-monsoon period
August – 20th to 30th of the month	Represents peak water level of monsoon period.
November – 1st to 10th of the month	Represents situation of water level in Post-monsoon period.
January – 1st to 10th of the month	Represents water level during irrigation period.

Water samples were collected from each of the network stations only during April (Pre-monsoon) every year, to assess the chemical quality of ground water.

6.1 DISTRIBUTION OF NATIONAL HYDROGRAPH STATIONS

A total number of 1600 Hydrograph Network Stations have so far been established and are being monitored in the state. Out of 1600 network hydrograph stations, open/dug wells are 1511 in numbers and 89 are Piezometers in hard rock and coastal tract (including piezoemters under Hydrology Project) and are being monitored manually. The district wise NHS wells monitored in different season is furnished in **Table 6.1**. Locations of hydrograph network stations are shown in **Plate-6.1** and the general details of hydrograph network stations are given in Annexure-1.

6.2 ANALYSIS OF DATA

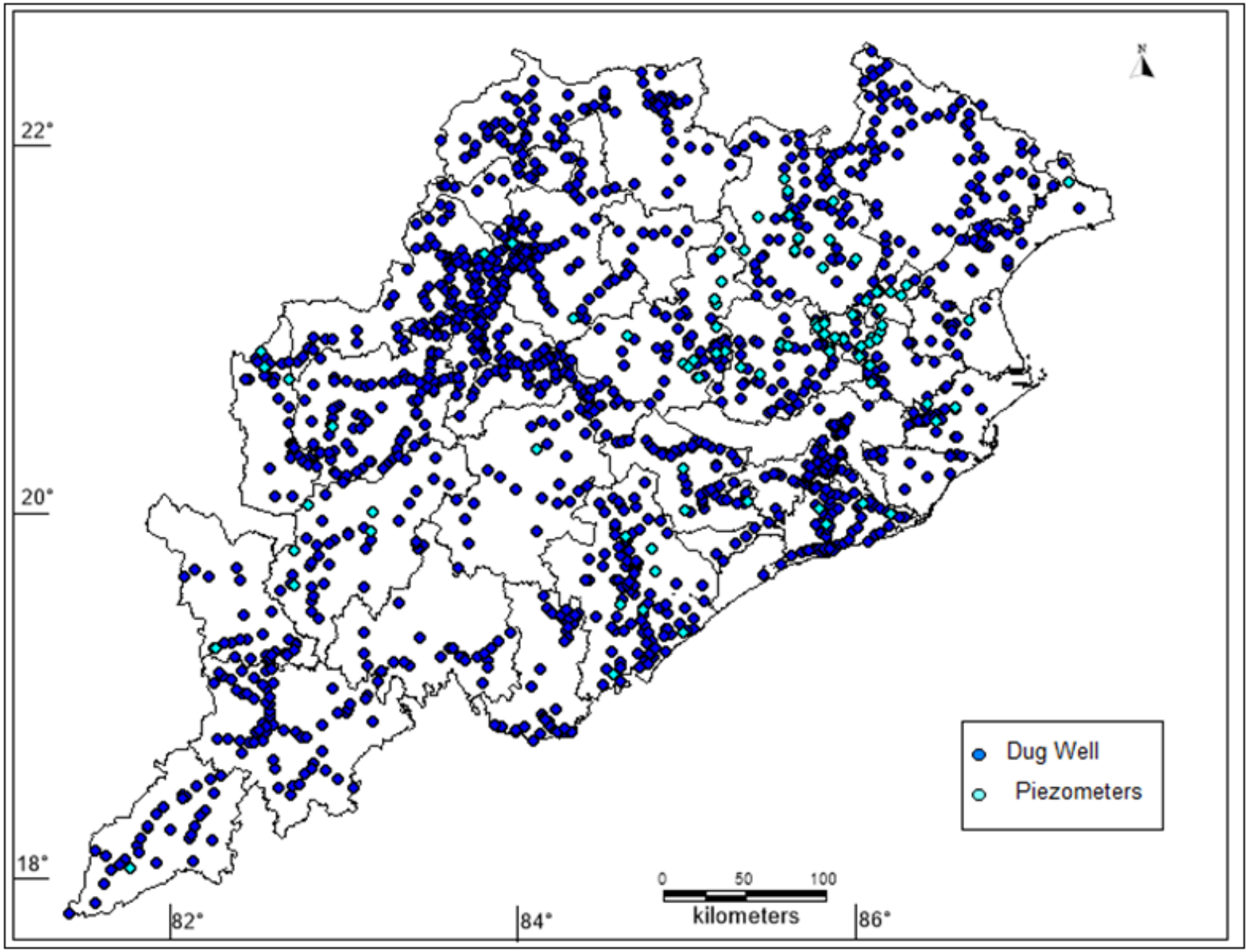
The water levels reflect the cumulative effect of natural recharge discharge conditions and ground water draft on the ground water regime. Where the draft exceeds the recharge, its manifestation is reflected by distinct decline in normal water level and where recharge is more than the draft rising trend is seen in water levels. The hydrographs given in **Plate 6.2**show the periods of recharge and discharge.Water level data collected four times a year is subjected to analysis for inferring the change in water levels i.e. rise/ fall and trend in water levels with reference to time and space.

NATIONAL HYDROGRAPH STATIONS MONITORED DURING 2019-2020

TABLE-6.1

Sl. NO	Districts	April - 2019	August - 2019	November -2019	January – 2020
1	ANUGUL	57	59	59	59
2	BALANGIR	68	73	72	75
3	BALESHWAR	26	18	24	25
4	BARGARH	55	67	62	64
5	BAUDH	48	45	44	45
6	BHADRAK	16	14	14	13
7	CUTTACK	63	63	61	66
8	DEBAGARH	7	9	9	9
9	DHENKANAL	41	43	44	44
10	GAJAPATI	27	29	30	35
11	GANJAM	70	77	78	82
12	JAGATSINGHAPUR	12	10	13	12
13	JAJAPUR	27	25	29	31
14	JHARSUGUDA	16	14	13	15
15	KALAHANDI	34	35	33	32
16	KANDHAMAL	16	16	16	24
17	KENDRAPARA	19	16	21	22
18	KENDUJHAR	63	61	59	65
19	KHORDHA	57	64	64	64
20	KORAPUT	57	62	54	59
21	MALKANGIRI	19	21	19	18
22	MAYURBHANJ	74	72	72	90
23	NABARANGAPUR	25	26	25	25
24	NAYAGARH	33	38	37	38
25	NUAPADA	21	22	17	22
26	PURI	73	75	77	79
27	RAYAGADA	22	22	17	18
28	SAMBALPUR	69	71	71	74
29	SONAPUR	48	50	48	49
30	SUNDARGARH	70	80	80	79

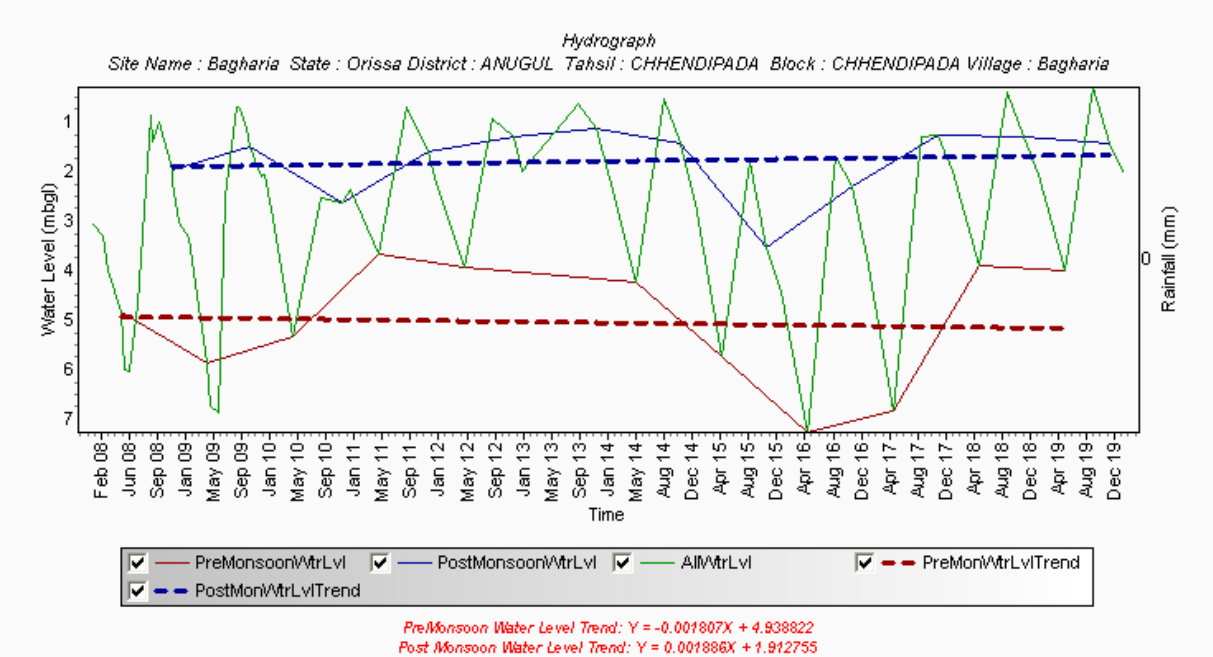
LOCATIONS OF NATIONAL HYDROGRAPH NETWORK STATIONS IN ODISHA **PLATE 6.1**

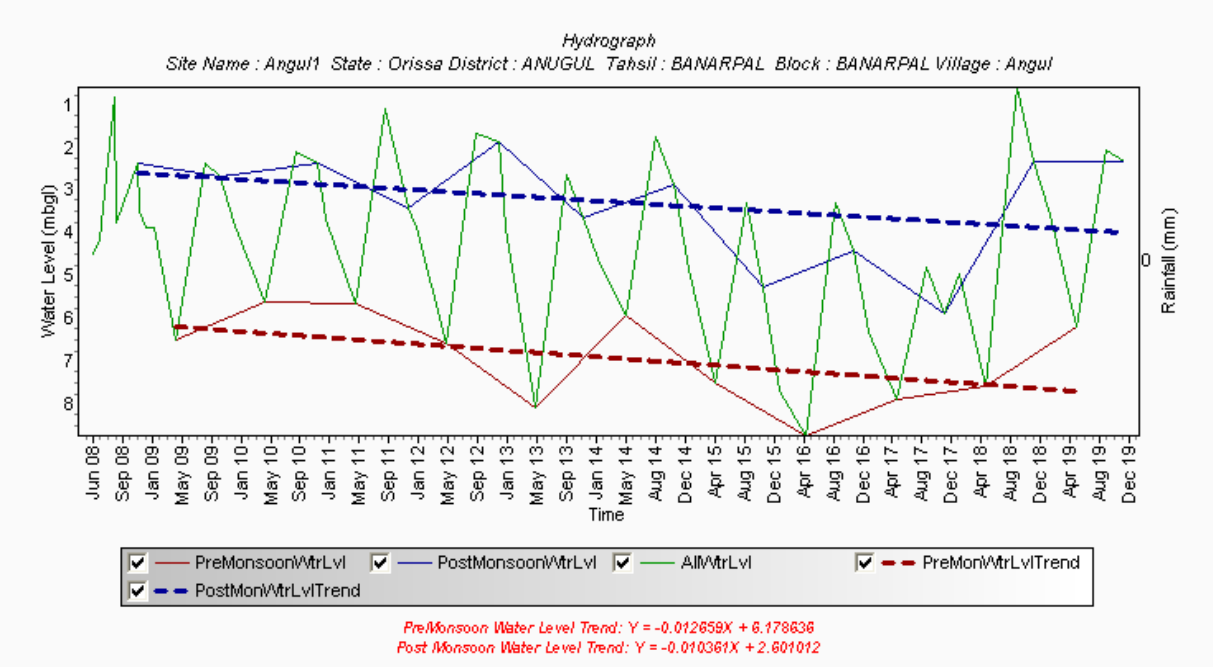


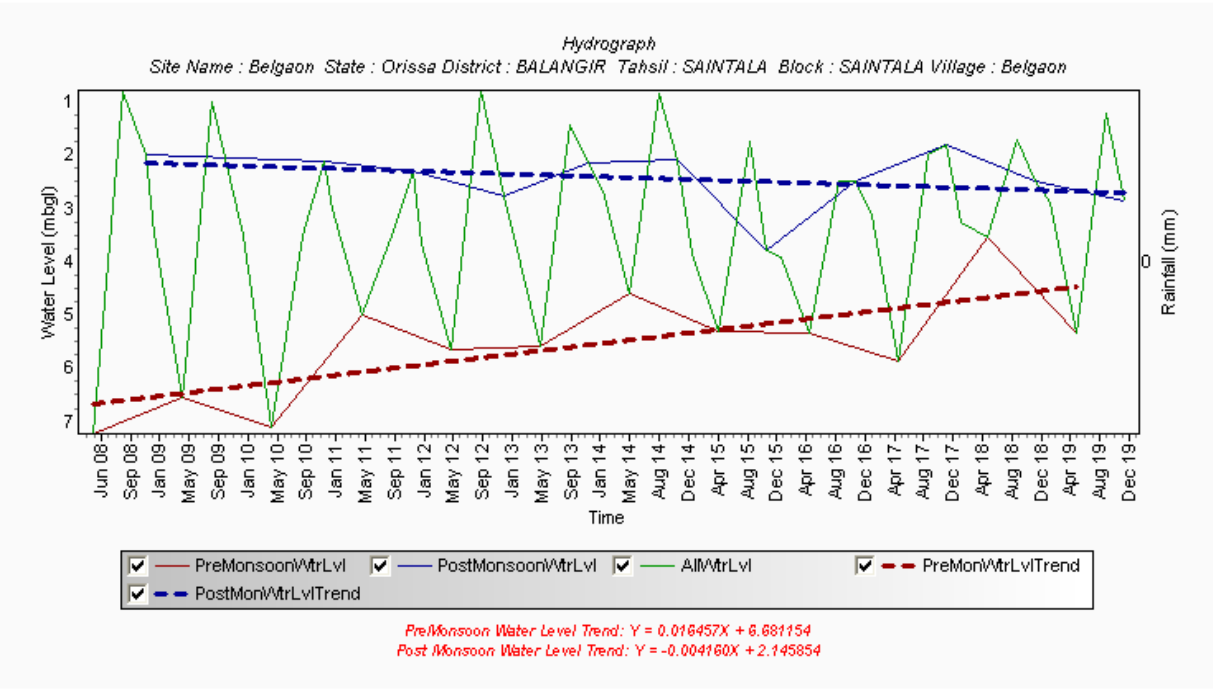
6.2 HYDROGRAPH ANALYSIS

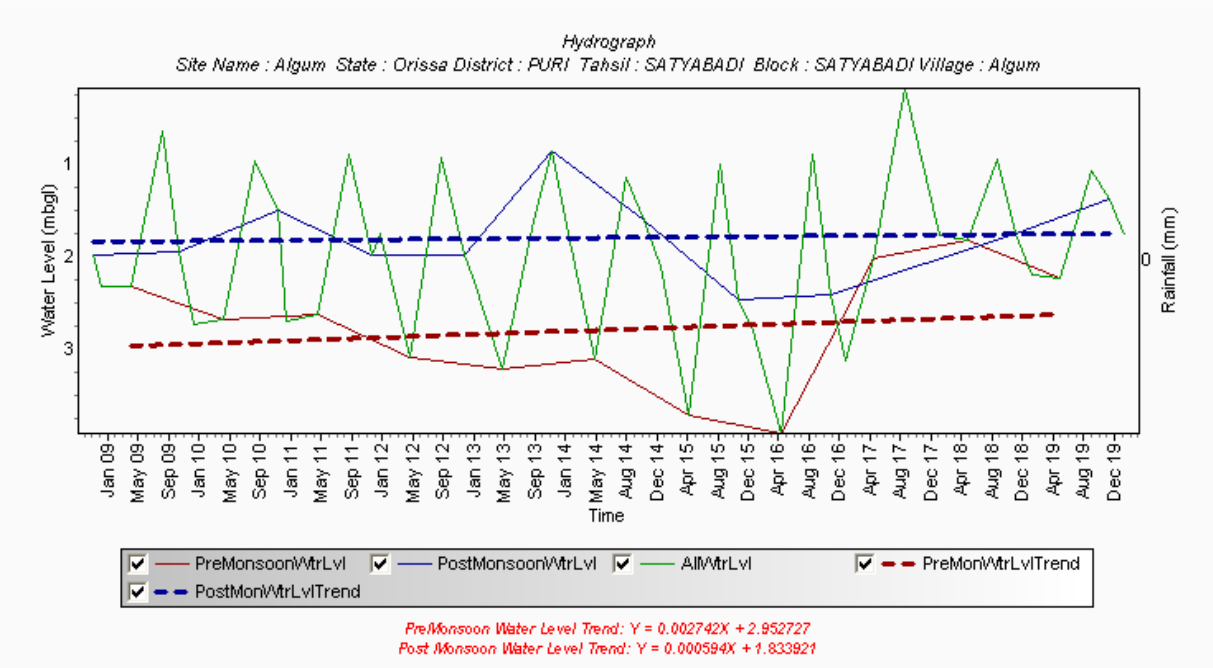
Long Term Water Level Trend Analysis

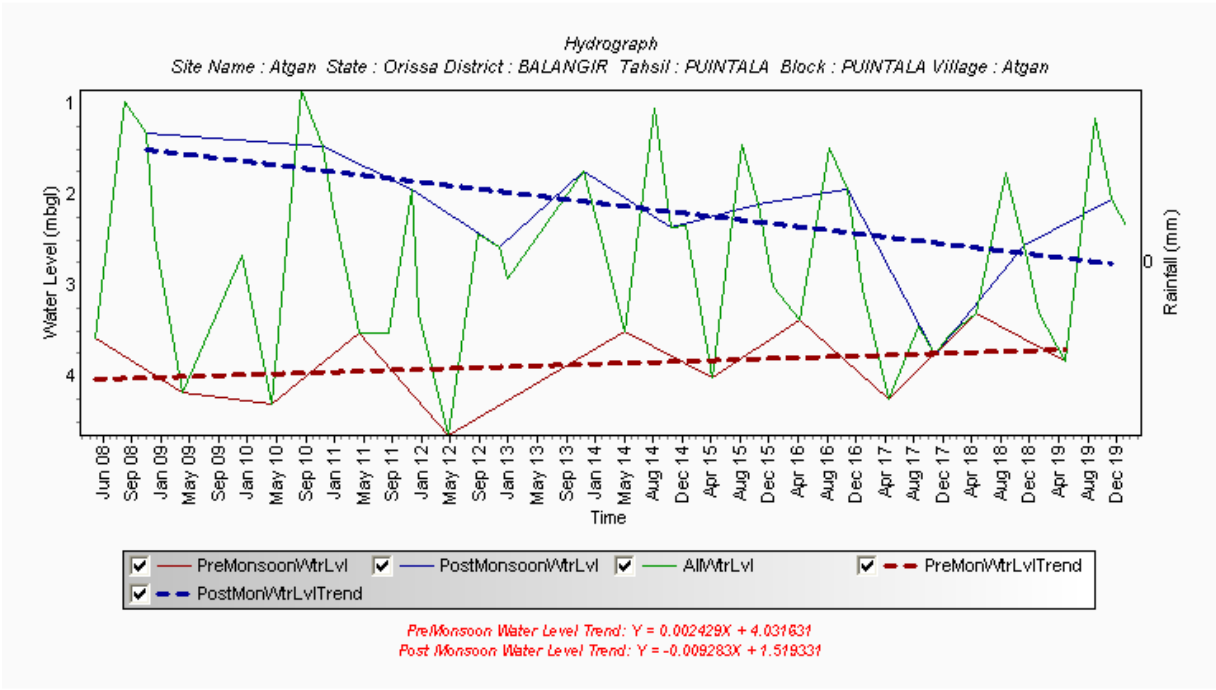
Hydrographs with Long term water level trend and comparison is given in **Plate 6.3**

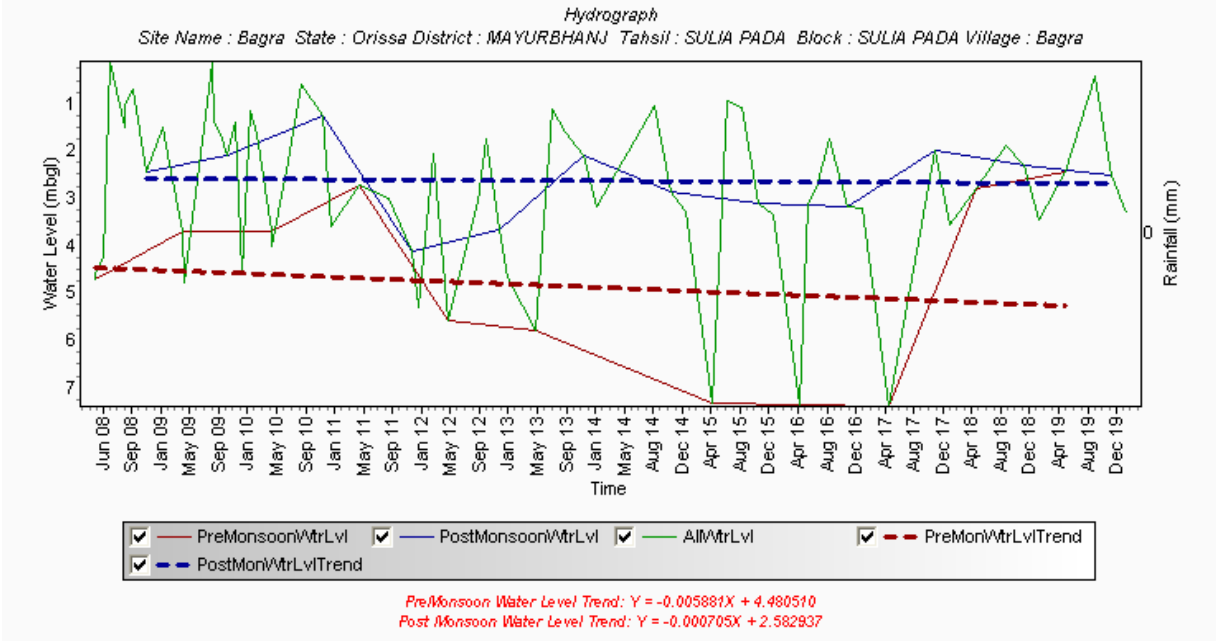


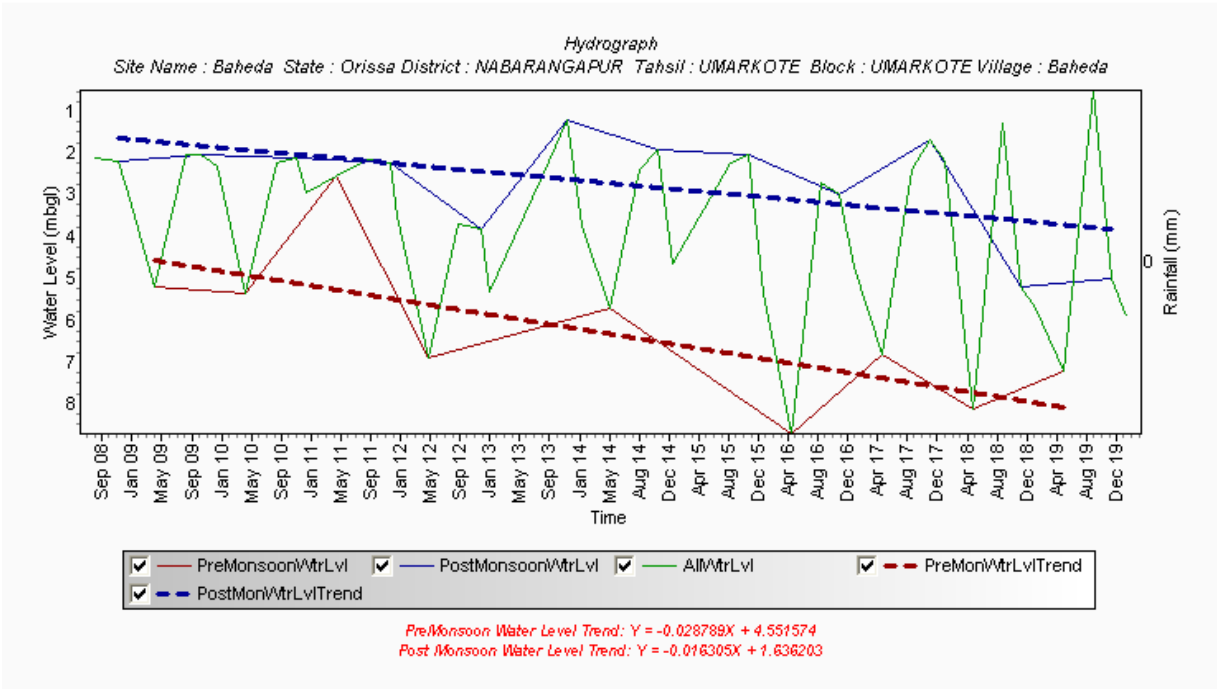


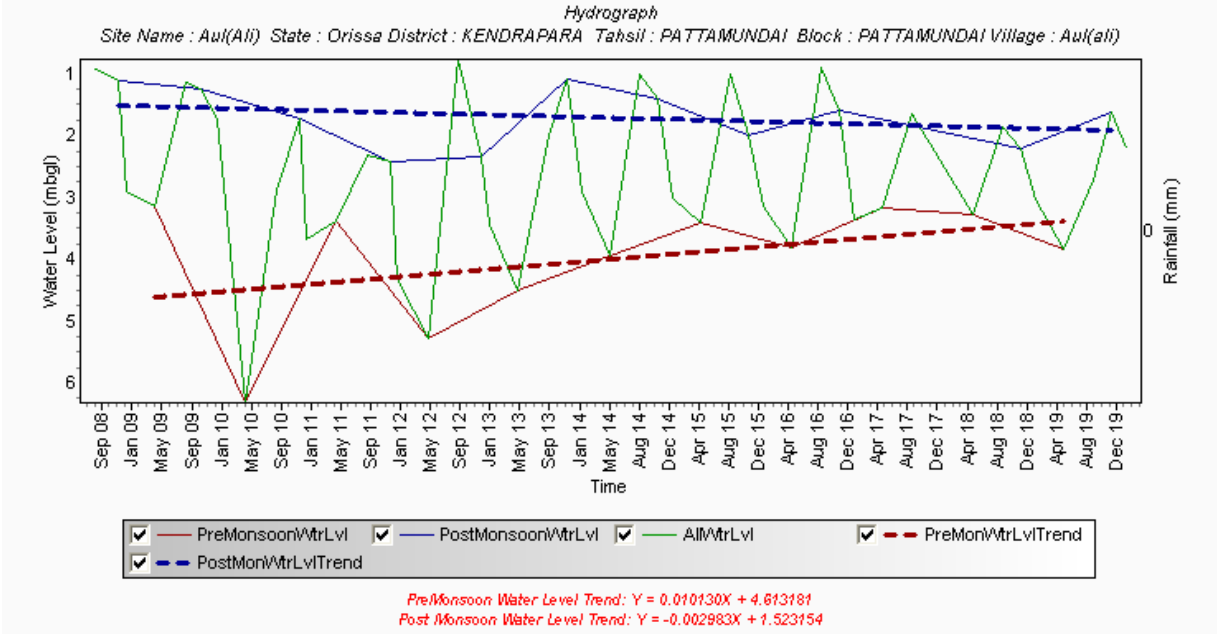

Hydrograph
Site Name : Belgaon State : Orissa District : BALANGIR Tahsil : SAINTALA Block : SAINTALA Village : Belgaon
Water Level (mbgl)
Rainfall (mm)
Time
PreMonsoonWtrLvl
PostMonsoonWtrLvl
AllWtrLvl
PreMonWtrLvlTrend
PostMonWtrLvlTrend
PreMonsoon Water Level Trend: Y = 0.016457X + 6.681154
Post Monsoon Water Level Trend: Y = -0.004160X + 2.145854

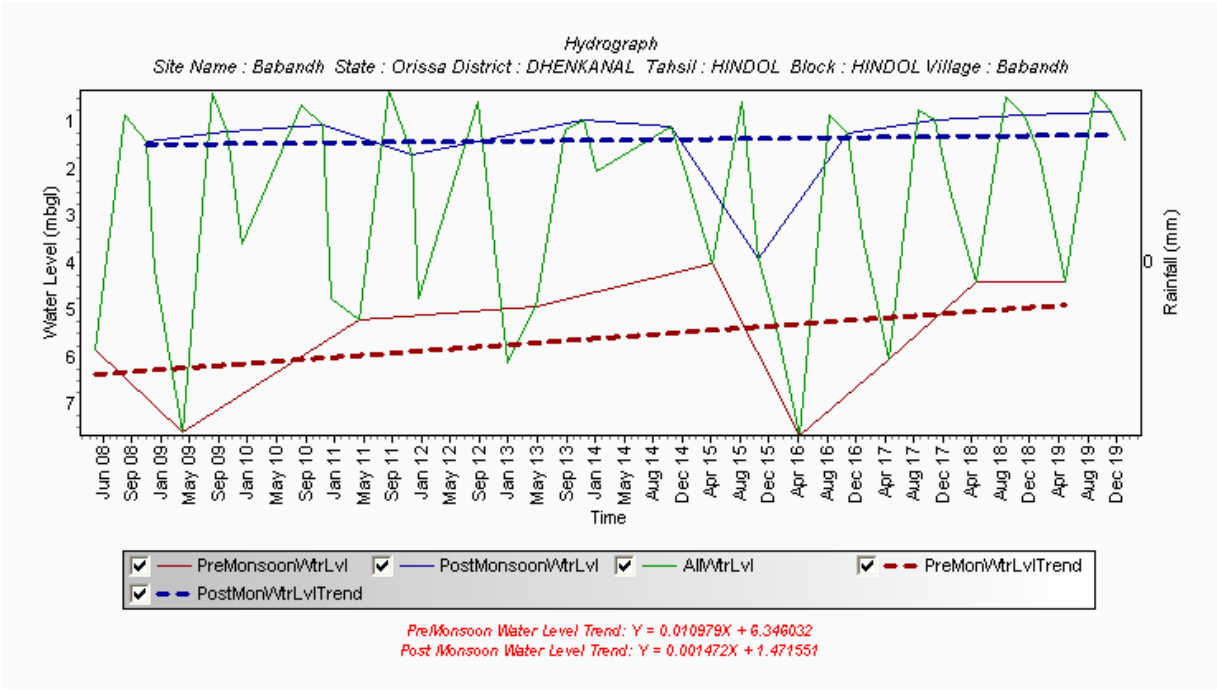

Hydrograph
Site Name : Algum State : Orissa District : PURI Tahsil : SATYABADI Block : SATYABADI Village : Algum
Water Level (mbgl)
Rainfall (mm)
Time
PreMonsoonWtrLvl
PostMonsoonWtrLvl
AllWtrLvl
PreMonWtrLvlTrend
PostMonWtrLvlTrend
PreMonsoon Water Level Trend: Y = 0.002742X + 2.952727
Post Monsoon Water Level Trend: Y = 0.000594X + 1.833921

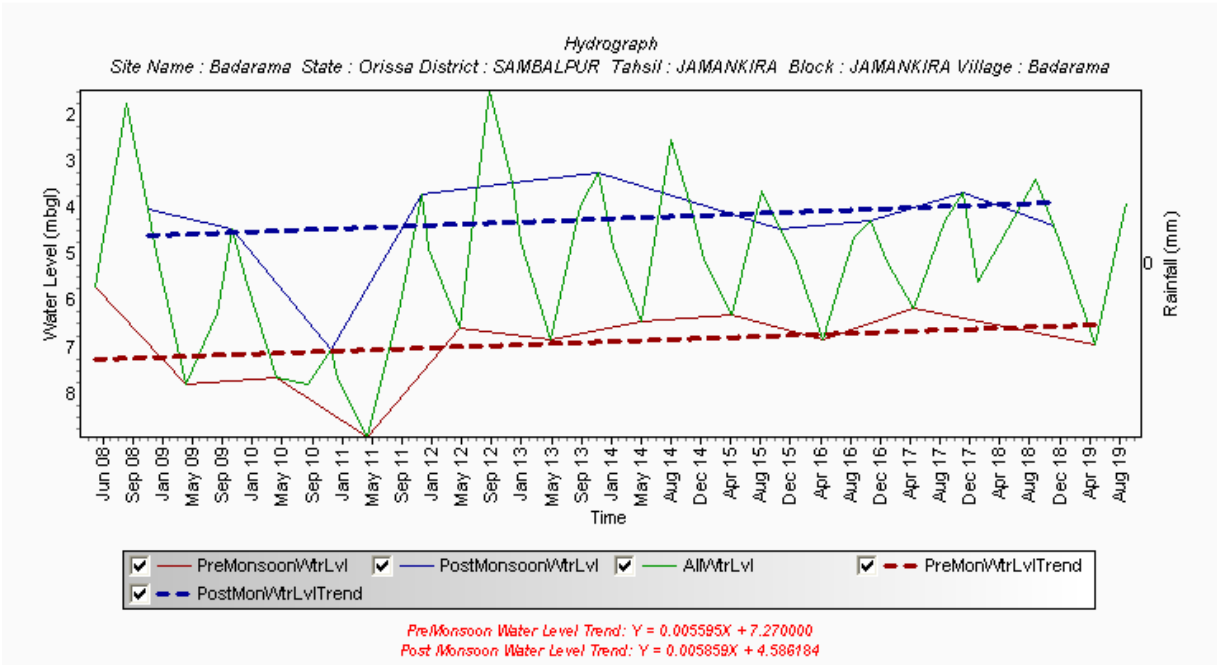

Hydrograph
Site Name : Atgan State : Orissa District : BALANGIR Tahsil : PUINTALA Block : PUINTALA Village : Atgan
Water Level (mbgl)
Rainfall (mm)
Time
PreMonsoonWtrLvl
PostMonsoonWtrLvl
AllWtrLvl
PreMonWtrLvlTrend
PostMonWtrLvlTrend
PreMonsoon Water Level Trend: Y = 0.002429X + 4.031631
Post Monsoon Water Level Trend: Y = -0.009283X + 1.519331

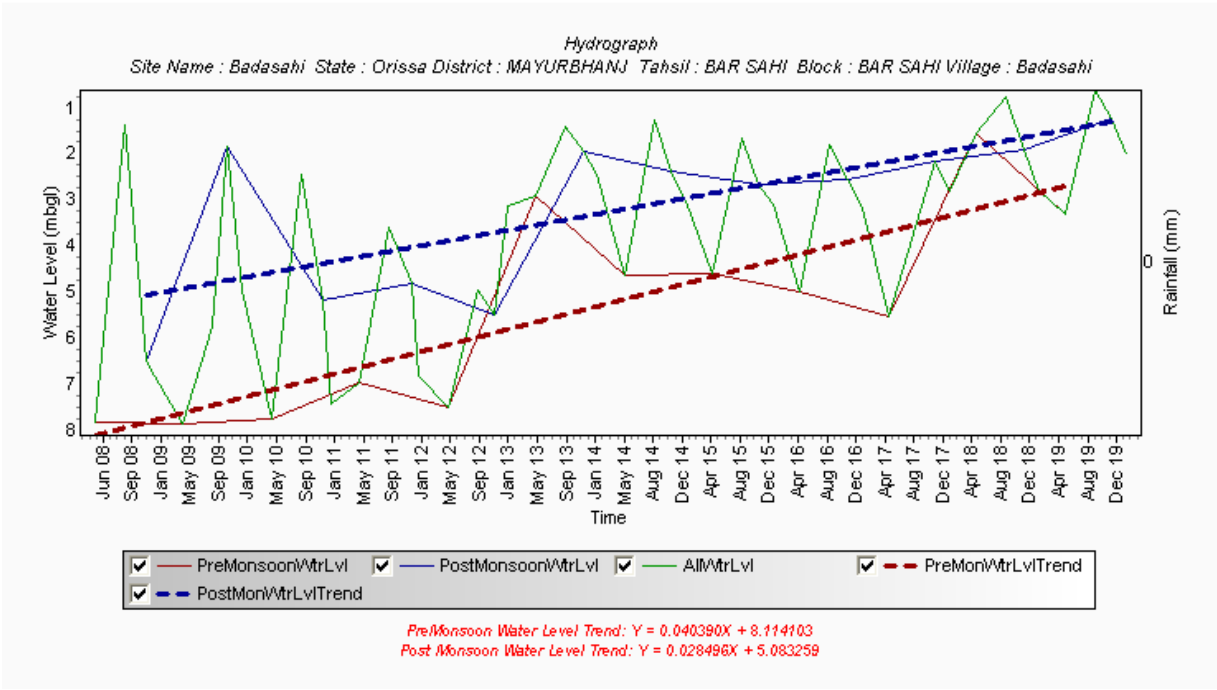

Hydrograph
Site Name : Bagra State : Orissa District : MAYURBHANJ Tahsil : SULIA PADA Block : SULIA PADA Village : Bagra
Water Level (mbgl)
Rainfall (mm)
Time
PreMonsoonWtrLvl
PostMonsoonWtrLvl
AllWtrLvl
PreMonWtrLvlTrend
PostMonWtrLvlTrend
PreMonsoon Water Level Trend: Y = -0.005881X + 4.480510
Post Monsoon Water Level Trend: Y = -0.000705X + 2.582937

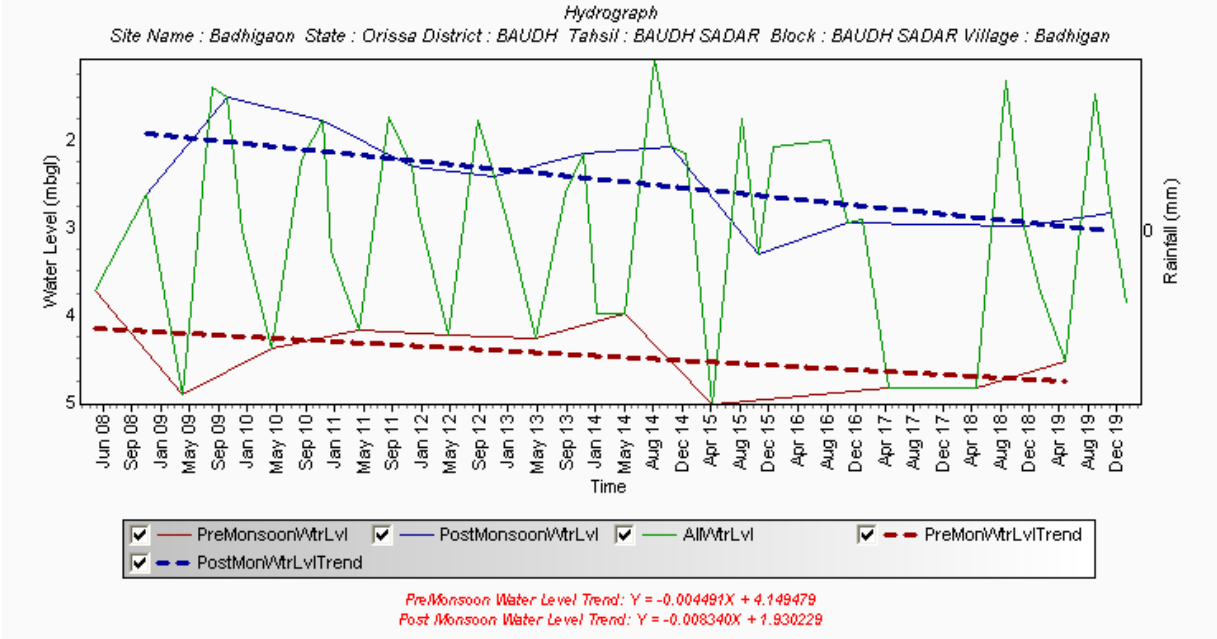

Hydrograph
Site Name : Baheda State : Orissa District : NABARANGAPUR Tahsil : UMARKOTE Block : UMARKOTE Village : Baheda
Water Level (mbgl)
Rainfall (mm)
Time
PreMonsoonWtrLvl
PostMonsoonWtrLvl
AllWtrLvl
PreMonWtrLvlTrend
PostMonWtrLvlTrend
PreMonsoon Water Level Trend: Y = -0.028789X + 4.551574
Post Monsoon Water Level Trend: Y = -0.016305X + 1.636203


Hydrograph
Site Name : Aul(Ali) State : Orissa District : KENDRAPARA Tahsil : PATTAMUNDAI Block : PATTAMUNDAI Village : Aul(ali)
Water Level (mbgl)
Rainfall (mm)
Time
PreMonsoonWtrLvl
PostMonsoonWtrLvl
AllWtrLvl
PreMonWtrLvlTrend
PostMonWtrLvlTrend
PreMonsoon Water Level Trend: Y = 0.010130X + 4.613181
Post Monsoon Water Level Trend: Y = -0.002983X + 1.523154


Hydrograph
Site Name : Babandh State : Orissa District : DHENKANAL Tahsil : HINDOL Block : HINDOL Village : Babandh
Water Level (mbgl)
Rainfall (mm)
Time
PreMonsoonWtrLvl
PostMonsoonWtrLvl
AllWtrLvl
PreMonWtrLvlTrend
PostMonWtrLvlTrend
PreMonsoon Water Level Trend: Y = 0.010979X + 6.346032
Post Monsoon Water Level Trend: Y = 0.001472X + 1.471551


Hydrograph
Site Name : Badarama State : Orissa District : SAMBALPUR Tahsil : JAMANKIRA Block : JAMANKIRA Village : Badarama
Water Level (mbgl)
Rainfall (mm)
Time
PreMonsoonWtrLvl
PostMonsoonWtrLvl
AllWtrLvl
PreMonWtrLvlTrend
PostMonWtrLvlTrend
PreMonsoon Water Level Trend: Y = 0.005595X + 7.270000
Post Monsoon Water Level Trend: Y = 0.005859X + 4.586184


Hydrograph
Site Name : Badasahi State : Orissa District : MAYURBHANJ Tahsil : BAR SAHI Block : BAR SAHI Village : Badasahi
Water Level (mbgl)
Rainfall (mm)
Time
PreMonsoonWtrLvl
PostMonsoonWtrLvl
AllWtrLvl
PreMonWtrLvlTrend
PostMonWtrLvlTrend
PreMonsoon Water Level Trend: Y = 0.040390X + 8.114103
Post Monsoon Water Level Trend: Y = 0.028496X + 5.083259


Hydrograph
Site Name : Badhigaon State : Orissa District : BAUDH Tahsil : BAUDH SADAR Block : BAUDH SADAR Village : Badhigan
Water Level (mbgl)
Rainfall (mm)
Time
PreMonsoonWtrLvl
PostMonsoonWtrLvl
AllWtrLvl
PreMonWtrLvlTrend
PostMonWtrLvlTrend
PreMonsoon Water Level Trend: Y = -0.004491X + 4.149479
Post Monsoon Water Level Trend: Y = -0.008340X + 1.930229

7.0 BEHAVIOUR OF WATER LEVEL DURING 2019 – 2020

During 2019 - 2020 the existing 1600 National Hydrograph stations were monitored four times and behaviour of the ground water regime during the year was inferred comparing the same with the decade mean, corresponding previous year data and pre-monsoon water level data. On the basis of water level data of NHS, for each measurement the following maps have been prepared.

1. Depth to water level for each measurement
2. Water level fluctuation in comparison to corresponding period of previous year.
3. Comparison of water levels to Pre-monsoon water levels.
4. Water level fluctuation in comparison to decade average.

7.1 DEPTH TO WATER LEVEL

7.1.1 DEPTH TO WATER LEVEL OF APRIL 2019

During April 2019, the water level (meter below ground level) in the state varies from minimum of 0.11 mbgl in Anugul district to a maximum of 15.60 mbgl in Koraput district and water levels mostly range from 2 to 10 mbgl. The depth to water level map has been shown in **Plate-7.1** and district wise well frequency for different ranges of depth to water level are given in **Table- 7.1.**

Water level between 0-2 m

Only 12.73 % of the NHS wells recorded water level in this range during April 2019. This range generally appears as small and isolated patches. Also this range is seen in isolated patches in Canal command areas of Bargarh, Kendrapara, Cuttack, Sundergarh, and Rayagada districts with maximum 44.93% of wells in Rayagada district.

Water level between 2-5 m

44.52% of the NHS wells have shown water level in this range of 2–5 mbgl. All the districts have recorded water level in this range, i.e., this range gives the general water level in the state for April 2019. The districts which has the maximum number of wells showing this range of water level i.e., Bhadrak (75.00%), and Jajapur (70.37%) Baleshwar (57.69%), Kendrapara (78.95%), Gajapati (59.26%). The major command areas of the state like Hirakud, Mahanadi, delta stage I & II, Baitarani, Salandi and Anandpur have shown water level in this range.

Water level between 5-10 m

40.38 % of the total NHS wells recorded water level in this range during April 2019. The hard rock and hilly terrains of the state has recorded water level in this range in majority of wells. The maximum percentage of wells in this range is recorded in Jharsuguda (62.50%), Kandhamal (81.25%), Koraput (64.91%), Anugul (61.40%), Dhenkanal (58.54%), and minimum in Jagatsinghpur (8.33%) district. Partially all the districts of Odisha show this category.

Water level between 10-20 m

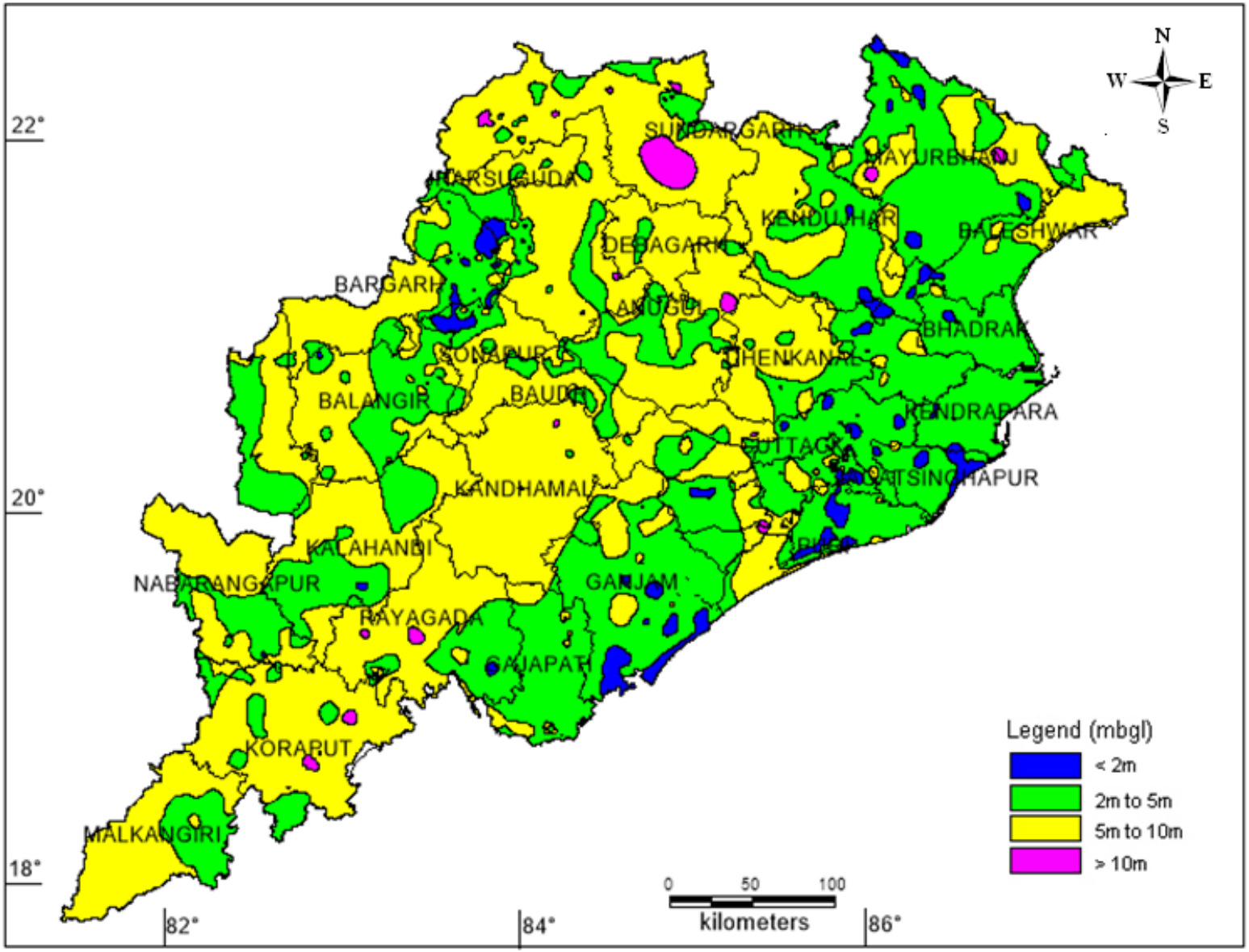
2.35% of the wells of the state fall in this category. It is mostly in the hilly districts like Rayagada (9.09%), Sundargarh (8.57%), Gajapati (7.41%), Koraput (7.02%), Kandhamal(12.50%).

Water level more than 20m

No well have shown more than 20m of water level during April 2019.

In general, it can be said that during the month of April 2019, the state recorded water level in 2-10 m range in almost all the districts. Some wells in the hilly districts recorded water level in 10-20 m range.

DEPTH TO WATER LEVEL MAP- APRIL 2019 **PLATE-7.1**



DEPTH TO WATER LEVEL AND FREQUENCY DISTRIBUTION OF MONITORING WELLS- APRIL- 2019

TABLE 7.1

DISTRICT	No. of Wells Analysed	Depth to water level (mbgl)		No. and percentage of wells showing depth to water level (mbgl) in the range of											
				<2		2 - 5		5 - 10		10 - 20		20 - 40		> 40	
		Min	Max	No	%	No	%	No	%	No	%	No	%	No	%
ANUGUL	57	0.11	13.10	1	1.75	18	31.58	35	61.40	3	5.26	0		0	
BALANGIR	68	0.93	10.03	4	5.88	30	44.12	33	48.53	1	1.47	0		0	
BALESHWAR	26	1.60	7.84	1	3.85	15	57.69	10	38.46	0	0	0		0	
BARGARH	55	0.73	9.30	13	23.64	22	40.00	20	36.36	0	0	0		0	
BAUDH	48	2.05	7.45	0	0	20	41.67	28	58.33	0	0	0		0	
BHADRAK	16	1.45	6.33	2	12.50	12	75.00	2	12.50	0	0	0		0	
CUTTACK	63	0.20	10.97	16	25.40	35	55.56	11	17.46	1	1.59	0		0	
DEBAGARH	7	3.78	7.93	0	0	3	42.86	4	57.14	0	0	0		0	
DHENKANAL	41	1.87	10.30	1	2.44	15	36.59	24	58.54	1	2.44	0		0	
GAJAPATI	27	1.86	11.28	1	3.70	16	59.26	8	29.63	2	7.41	0		0	
GANJAM	70	0.15	9.18	17	24.29	38	54.29	15	21.43	0	0	0		0	
JAGATSINGHAPUR	12	1.13	6.10	5	41.67	6	50.00	1	8.33	0	0	0		0	
JAJAPUR	27	0.97	9.07	3	11.11	19	70.37	5	18.52	0	0	0		0	
JHARSUGUDA	16	2.80	8.50	0	0	6	37.50	10	62.50	0	0	0		0	
KALAHANDI	34	1.56	10.10	1	2.94	16	47.06	16	47.06	1	2.94	0		0	
KANDHAMAL	16	4.65	11.05	0	0	1	6.25	13	81.25	2	12.50	0		0	
KENDRAPARA	19	1.35	4.48	4	21.05	15	78.95	0		0	0	0		0	
KENDUJHAR	63	0.90	10.45	7	11.11	30	47.62	25	39.68	1	1.59	0		0	
KHORDHA	57	0.15	12.89	13	22.81	18	31.58	25	43.86	1	1.75	0		0	
KORAPUT	57	2.10	15.60	0	0	16	28.07	37	64.91	4	7.02	0		0	
MALKANGIRI	19	2.90	9.75	0	0	10	52.63	9	47.37	0	0	0		0	
MAYURBHANJ	74	0.70	13.55	11	14.86	34	45.95	27	36.49	2	2.70	0		0	
NABARANGAPUR	25	1.40	10.30	1	4.00	9	36.00	14	56.00	1	4.00	0		0	
NAYAGARH	33	1.25	8.73	2	6.06	18	54.55	13	39.39	0	0	0		0	
NUAPADA	21	2.34	9.61	0		10	47.62	11	52.38	0	0	0		0	
PURI	73	0.40	8.85	28	38.36	38	52.05	7	9.59	0	0	0		0	
RAYAGADA	22	1.15	10.82	1	4.55	12	54.55	7	31.82	2	9.09	0		0	
SAMBALPUR	69	0.50	11.60	9	13.04	19	27.54	40	57.97	1	1.45	0		0	
SONAPUR	48	0.77	7.60	10	20.83	17	35.42	21	43.75	0	0	0		0	
SUNDARGARH	70	0.15	13.55	6	8.57	31	44.29	27	38.57	6	8.57	0		0	
Total	**1233**	**0.11**	**15.60**	**157**	**12.73**	**549**	**44.52**	**498**	**40.38**	**29**	**2.35**	**0**		**0**	

7.1.2 DEPTH TO WATER LEVEL OF AUGUST 2019

A perusal of data and maps pertaining to August 2019 shows that the depth to water level ranges from 0.02 to 10.7 mbgl and in majority (73.84%) of NHS wells level was in the range of 0-2 m below ground level and 22.31% of wells in 2-5 m below ground level. The district-wise depth to water level of August 2019 is shown in **Table 7.2** and the depth to water level map has been shown in **Plate-7.2.**

Water level between 0-2 m

73.84% of the wells monitored in the state has water level in this range. The districts like Jharsuguda (100%), Nabarangpur (100%), Malkangiri (100%), Kalahandi (97.14%), Bargarh (92.54%), Sonapur (92%), Jagatsinghpur (90%) Kendrapara (87.50%) and Bhadrak (85.71%) have majority of wells with water level in this range. In most of the command areas of the state like the Hirakud, Rusikulya, Mahanadi stage I & II, Upper Kolab and Potteru the water level is in this range.

Water level between 2-5 m

22.31 % of the monitored wells showed water level in this range. Among the coastal district Bhadrak (14.29 %), Jajapur (20%), Baleswar (38.89%) and parts of Puri, Ganjam and Gajapati had 2 to 5 mbgl of water level. In the central and western Odisha Nuapada (27.27%), Balangir (27.4%), Anugul (32.2%), Kandhamal (50%), Mayurbhanj (41.67%) and Sundargarh (27.5%) showed water level in this range. All the districts of the state have recorded in this range expect Jharsuguda, Nabarangpur and Malkangiri, where all the wells fall in the range of 0-2 m.

Water level between 5-10 m

Water level in this range was recorded in 3.68% of the wells in the state. Districts Like Anugul (10.17%), Jajapur (8%), Kandhamal (43.75%), Kendujhar (6.56%), Koraput (6.45%), Puri (6.67%), Rayagada (9.09%) and Sundargarh (6.25%) showed water level in more than 5% of the wells in this range. They occur as isolated patches in areas where the water level is generally in 2-5 m range.

Water level between 10-20 m

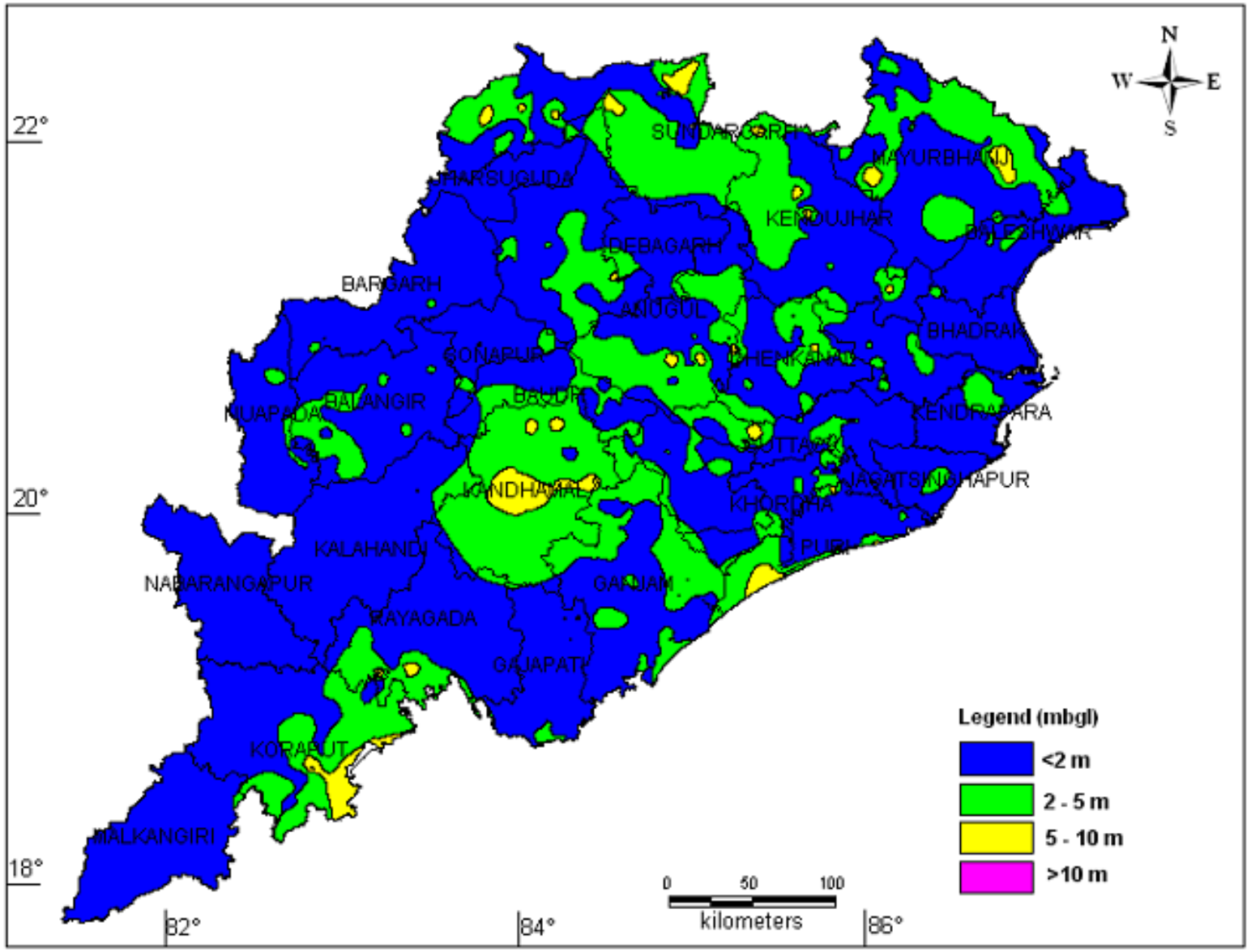
Only 2 wells fall in this category and ie from 1 well in Sundaragarh and 1 in Koraput district.

Water level more than 20m

None of the wells monitored during August 2019 showed water level in this range.

In general the water level in the state during August 2019 monitoring is found in the range of 0-2 m bgl.

DEPTH TO WATER LEVEL MAP AUGUST 2019 **PLATE 7.2**



DEPTH TO WATER LEVEL AND FREQUENCY DISTRIBUTION OF MONITORING WELLS-AUGUST- 2019

TABLE - 7.2

DISTRICT	No. of Wells Analysed	Depth to Water Table (mbgl)		No. and percentage of wells showing depth to water level (mbgl) in the range of											
				< 2		2 - 5		5 - 10		10 - 20		20 - 40		> 40	
		Min	Max	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
ANUGUL	59	0.30	8.75	34	57.63	19	32.20	6	10.17	0		0		0	
BALANGIR	73	0.09	4.05	53	72.60	20	27.40	0	0	0		0		0	
BALESHWAR	18	0.16	3.24	11	61.11	7	38.89	0	0	0		0		0	
BARGARH	67	0.13	3.01	62	92.54	5	7.46	0	0	0		0		0	
BAUDH	45	0.40	3.34	36	80.00	9	20.00	0	0	0		0		0	
BHADRAK	14	0.02	2.60	12	85.71	2	14.29	0	0	0		0		0	
CUTTACK	63	0.02	8.22	48	76.19	14	22.22	1	1.59	0		0		0	
DEBAGARH	9	0.14	2.12	7	77.78	2	22.22	0	0	0		0		0	
DHENKANAL	43	0.03	6.00	29	67.44	12	27.91	2	4.65	0		0		0	
GAJAPATI	29	0.47	3.30	22	75.86	7	24.14	0	0	0		0		0	
GANJAM	77	0.15	5.15	54	70.13	22	28.57	1	1.30	0		0		0	
JAGATSINGHAPUR	10	0.25	3.30	9	90.00	1	10.00	0	0	0		0		0	
JAJAPUR	25	0.16	7.02	18	72.00	5	20.00	2	8.00	0		0		0	
JHARSUGUDA	14	0.10	2.00	14	100.00	0	0	0	0	0		0		0	
KALAHANDI	35	0.20	2.02	34	97.14	1	2.86	0	0	0		0		0	
KANDHAMAL	16	1.40	6.40	1	6.25	8	50.00	7	43.75	0		0		0	
KENDRAPARA	16	0.10	2.73	14	87.50	2	12.50	0	0	0		0		0	
KENDUJHAR	61	0.31	8.90	41	67.21	16	26.23	4	6.56	0		0		0	
KHORDHA	64	0.12	6.58	44	68.75	17	26.56	3	4.69	0		0		0	
KORAPUT	62	0.05	10.70	45	72.58	12	19.35	4	6.45	1	1.61	0		0	
MALKANGIRI	21	0.20	1.80	21	100.00	0	0	0	0	0		0		0	
MAYURBHANJ	72	0.31	9.83	39	54.17	30	41.67	3	4.17	0		0		0	
NABARANGAPUR	26	0.02	1.30	26	100.00	0	0	0	0	0		0		0	
NAYAGARH	38	0.07	3.74	31	81.58	7	18.42	0	0	0		0		0	
NUAPADA	22	0.41	2.92	16	72.73	6	27.27	0	0	0		0		0	
PURI	75	0.14	7.05	55	73.33	15	20.00	5	6.67	0		0		0	
RAYAGADA	22	0.18	5.98	17	77.27	3	13.64	2	9.09	0		0		0	
SAMBALPUR	71	0.10	6.80	52	73.24	17	23.94	2	2.82	0		0		0	
SONAPUR	50	0.12	4.37	46	92.00	4	8.00	0	0	0		0		0	
SUNDARGARH	80	0.04	10.10	52	65.00	22	27.50	5	6.25	1	1.25	0		0	
Total	**1277**	**0.02**	**10.70**	**943**	**73.84**	**285**	**22.31**	**47**	**3.68**	**2**	**0.15**	**0**		**0**	

7.1.3 DEPTH TO WATER LEVEL OF NOVEMBER 2019

A perusal of data and maps pertaining to November 2019 shows that the depth to water level ranges from 0.01 to 12.00 mbgl and in majority (42.23%) of NHS wells level was in the range of 0-2 m below ground level and 48.73% of wells in 2-5 m below ground level. The district-wise depth to water level of November 2019 is shown in **Table 7.3** and the depth to water level map has been shown in **Plate-7.3.**

Water level between 0-2 m

42.23% of the wells monitored in the state has water level in this range. The coastal districts like Jagatsinghapur (92.31%), Kendrapara (76.19%), and Bhadrak (92.86%) have majority of wells with water level in this range. In most of the command areas of the state like the Hirakud, Rusikulya, Mahanadi stage I & II, Upper Kolab and Potteru the water level is in this range.

Water level between 2-5 m

48.73% of the wells monitored showed water level in this range. Among the coastal district Balasore (45.83 %), Cuttack (40.98%) Gajapati (50 %) and Puri(23.38 %) have 2 to 5 mbgl of water level. In the central and western Odisha, Boudh (77.27%), Nuapada (82.35%), Mayurbhanj (59.72%), Balangir (72.22%), Anugul (61.02%), and Kandhamal (56.25%) showed more than or equal to 50% of the wells in this range. All the districts of the state have recorded in this range.

Water level between 5-10 m

Water level in this range was recorded in 8.71% of the wells in the state. About 18.64% of wells in Anugul, Kandhamal (56.25%), Khordha (18.75%) Dhenkanal (11.36%), Jajpur (17.24%), Koraput (22.22%), Rayagada (17.65%) and Sundargarh (11.25%) district have showed water level of the wells in this range. They occur as isolated patches in almost all the districts except Baleswar, Baudh, Bhadrak, Debagarh, Jagatsinghapur, Jharsuguda, Kendrapara and Nuapada.

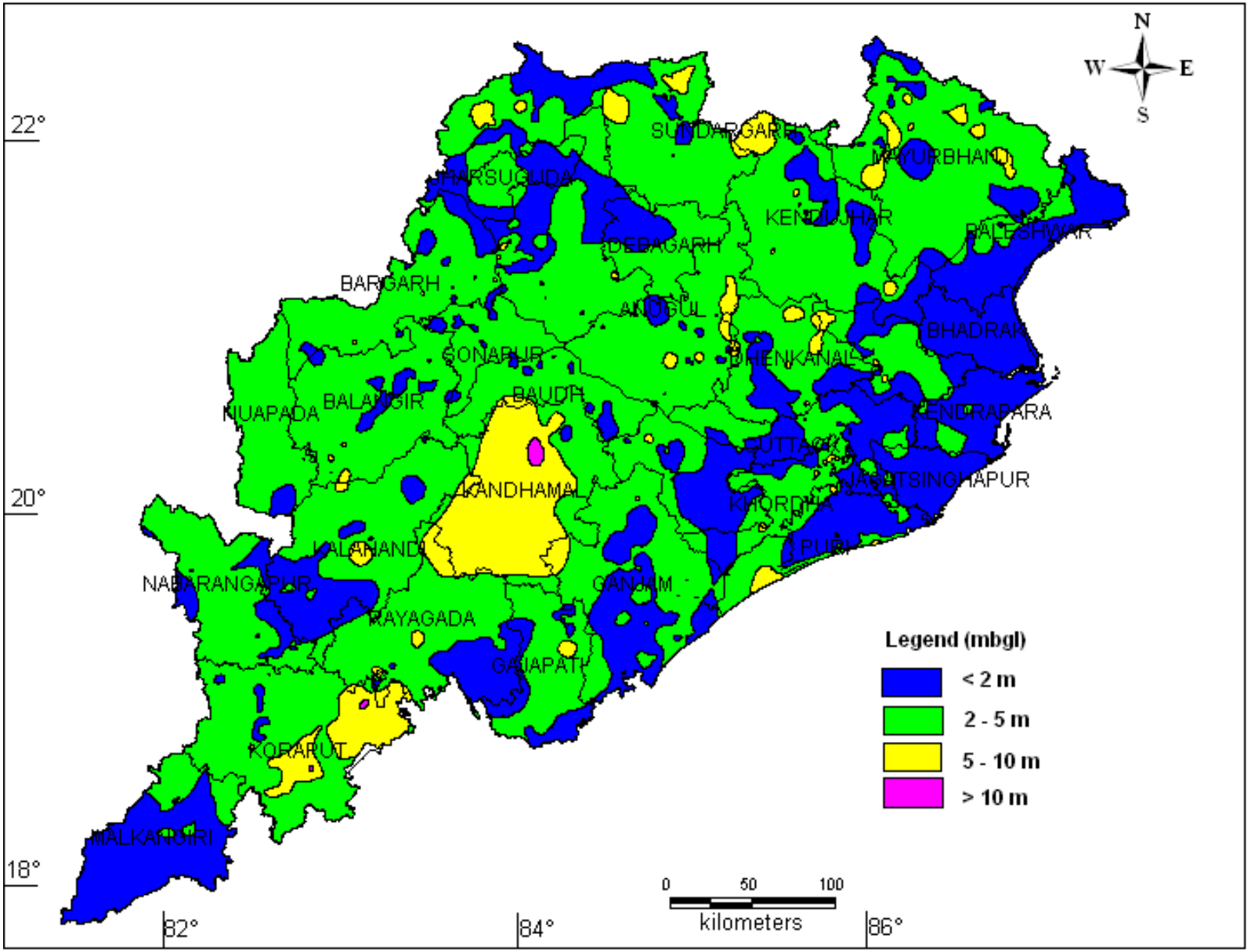
Water level between 10-20 m

Only 4 wells fall in this category. 1 in Anugul, 1 in Kandhamal and 2 in Koraput.

Water level more than 20m

None of the wells monitored during November 2019 showed water level in this range.In general the water level in the state during November 2019 monitoring is found in the range of 0-2 m bgl especially in the coastal stretch and in parts of the hilly terrain, whereas 2-5 m bgl water level is found in the coastal and hard rock terrain.

DEPTH TO WATER LEVEL MAP NOVEMBER 2019 **PLATE 7.3**



DEPTH TO WATER LEVEL AND FREQUENCY DISTRIBUTION OF MONITORING WELLS - NOVEMBER- 2019

TABLE - 7.3

District	No. of Wells Analysed	Depth to Water Level (mbgl)		No. / Percentage of Wells Showing Depth to Water Level (mbgl) in the Range of											
				< 2		2 - 5		5 - 10		10 - 20		20 - 40		> 40	
		Min	Max	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
ANUGUL	59	0.06	12.00	11	18.64	36	61.02	11	18.64	1	1.69	0		0	
BALANGIR	72	0.73	5.90	17	23.61	52	72.22	3	4.17	0		0		0	
BALESHWAR	24	0.50	3.90	13	54.17	11	45.83	0		0		0		0	
BARGARH	62	0.80	5.40	18	29.03	41	66.13	3	4.84	0		0		0	
BAUDH	44	0.50	4.63	10	22.73	34	77.27	0		0		0		0	
BHADRAK	14	0.22	3.00	13	92.86	1	7.14	0		0		0		0	
CUTTACK	61	0.20	5.18	35	57.38	25	40.98	1	1.64	0		0		0	
DEBAGARH	9	1.18	3.13	4	44.44	5	55.56	0		0		0		0	
DHENKANAL	44	0.78	6.23	14	31.82	25	56.82	5	11.36	0		0		0	
GAJAPATI	30	0.20	5.85	14	46.67	15	50.00	1	3.33	0		0		0	
GANJAM	78	0.05	5.33	40	51.28	37	47.44	1	1.28	0		0		0	
JAGATSINGHAPUR	13	0.63	4.70	12	92.31	1	7.69	0		0		0		0	
JAJAPUR	29	0.30	7.97	17	58.62	7	24.14	5	17.24	0		0		0	
JHARSUGUDA	13	0.96	4.96	9	69.23	4	30.77	0		0		0		0	
KALAHANDI	33	0.45	7.92	15	45.45	16	48.48	2	6.06	0		0		0	
KANDHAMAL	16	0.75	11.26	1	6.25	5	31.25	9	56.25	1	6.25	0		0	
KENDRAPARA	21	0.09	2.60	16	76.19	5	23.81	0		0		0		0	
KENDUJHAR	59	0.65	7.74	19	32.20	34	57.63	6	10.17	0		0		0	
KHORDHA	64	0.32	8.47	22	34.38	30	46.88	12	18.75	0		0		0	
KORAPUT	54	0.15	11.10	11	20.37	29	53.70	12	22.22	2	3.70	0		0	
MALKANGIRI	19	0.92	5.75	13	68.42	5	26.32	1	5.26	0		0		0	
MAYURBHANJ	72	0.11	9.25	19	26.39	43	59.72	10	13.89	0		0		0	
NABARANGAPUR	25	0.61	7.13	8	32.00	14	56.00	3	12.00	0		0		0	
NAYAGARH	37	0.01	5.69	27	72.97	9	24.32	1	2.70	0		0		0	
NUAPADA	17	1.31	4.53	3	17.65	14	82.35	0		0		0		0	
PURI	77	0.05	7.69	53	68.83	18	23.38	6	7.79	0		0		0	
RAYAGADA	17	0.20	5.71	10	58.82	4	23.53	3	17.65	0		0		0	
SAMBALPUR	71	0.30	6.81	37	52.11	29	40.85	5	7.04	0		0		0	
SONAPUR	48	0.95	5.09	15	31.25	32	66.67	1	2.08	0		0		0	
SUNDARGARH	80	0.06	8.96	37	46.25	34	42.50	9	11.25	0		0		0	
Total	**1262**	**0.01**	**12.00**	**533**	**42.23**	**615**	**48.73**	**110**	**8.71**	**4**	**0.31**	**0**		**0**	

7.1.4. DEPTH TO WATER LEVEL OF JANUARY 2020

A perusal of data and maps pertaining to January 2020 shows that the depth to water level ranges from 0.06 to 12.90 mbgl and in majority (58.96%) of NHS wells level was in the range of 2-5 m below ground level and 23.78% of wells in 0-2 m below ground level. The district-wise depth to water level of January 2020 is shown in **Table 7.4** and the depth to water level map has been shown in **Plate-7.4.**

Water level between 0-2 m

23.78% of the wells monitored in the state has water level in this range. The coastal districts like Jagatsinghapur (58.33%), Kendrapara (59.09%), and Bhadrak (84.62%) have majority of wells with water level in this range.. In most of the command areas of the state like the Hirakud, Rusikulya, Mahanadi stage I & II, Upper Kolab and Potteru the water level is in this range.

Water level between 2-5 m

58.96% of the monitored wells showed water level in this range. Among the coastal district Balasore (80%), Cuttack (54.55%) Gajapati (60%) and Puri(41.77%) have 2 to 5 mbgl of water level. In the central and western Odisha, Boudh (88.89%), Nuapada (59.09%), Mayurbhanj (63.33%), Balangir (70.67%), Anugul (69.49%), and Kalahandi (87.50%) showed more than or equal to 50% of the wells in this range. All the districts of the state have recorded in this range.

Water level between 5-10 m

Water level in this range was recorded in 16.65% of the wells in the state. About 20.34%of wells in Anugul, Kandhamal (62.50%), Khordha (40.63%) Dhenkanal (31.82%), Debagarh (22.22%), Koraput (37.29%), Rayagada (22.22%) and Nabarangapur (32%) district have showed water level of the wells in this range. They occur as isolated patches in almost all the districts except Baleswar and Kendrapara.

Water level between 10-20 m

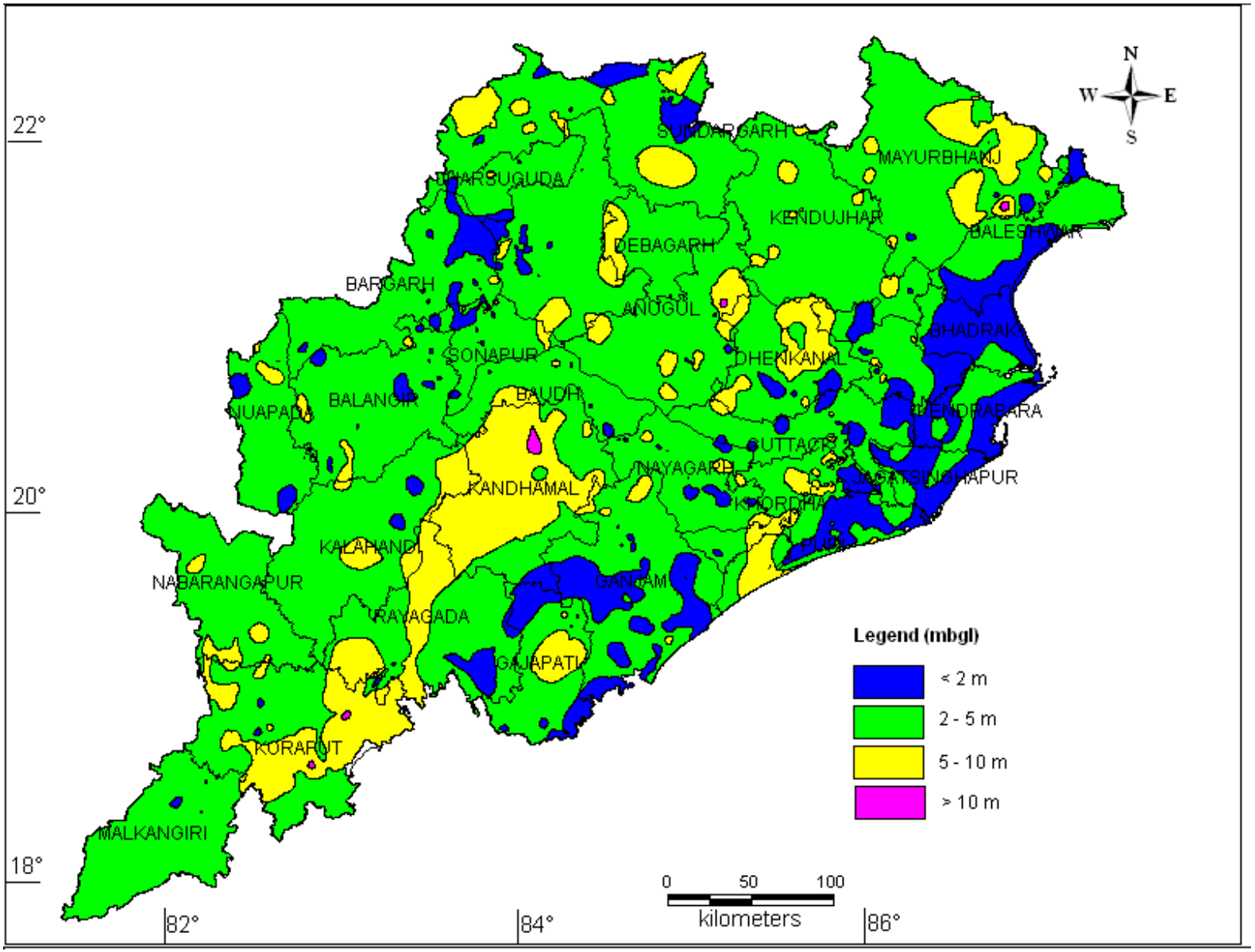
Only 8 wells fall in this category. 1 in Anugul, 1 in Kandhamal, 1 in Khordha, 2 in Koraput, 1 in Mayurbhanj and 2 in Sundargarh.

Water level more than 20m

None of the wells monitored during January 2020 showed water level in this range.

In general the water level in the state during January 2020 monitoring is found in the range of 0-2 m bgl especially in the coastal stretch and in parts of the hilly terrain, whereas 2-5 m bgl water level is found in the coastal and hard rock terrain.

DEPTH TO WATER LEVEL MAP JANUARY 2020 PLATE 7.4



DEPTH TO WATER LEVEL AND FREQUENCY DISTRIBUTION OF MONITORING WELLS - JANUARY- 2020

TABLE - 7.4

District	No. of Wells analysed	Depth to Water Level (mbgl)		No. / Percentage of Wells Showing Depth to Water Table (mbgl) in the Range of											
				< 2		2 - 5		5 - 10		10 - 20		20 - 40		> 40	
		Min	Max	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
ANUGUL	59	0.11	11.85	5	8.47	41	69.49	12	20.34	1	1.69	0		0	
BALANGIR	75	0.72	6.79	15	20.00	53	70.67	7	9.33	0		0		0	
BALESHWAR	25	1.00	4.54	5	20.00	20	80.00	0		0		0		0	
BARGARH	64	0.33	6.56	19	29.69	40	62.50	5	7.81	0		0		0	
BAUDH	45	1.17	5.80	3	6.67	40	88.89	2	4.44	0		0		0	
BHADRAK	13	0.72	5.30	11	84.62	1	7.69	1	7.69	0		0		0	
CUTTACK	66	0.30	6.03	27	40.91	36	54.55	3	4.55	0		0		0	
DEBAGARH	9	2.09	6.48	0		7	77.78	2	22.22	0		0		0	
DHENKANAL	44	0.87	7.65	6	13.64	24	54.55	14	31.82	0		0		0	
GAJAPATI	35	0.13	8.45	10	28.57	21	60.00	4	11.43	0		0		0	
GANJAM	82	0.10	7.22	32	39.02	44	53.66	6	7.32	0		0		0	
JAGATSINGHAPUR	12	1.02	5.25	7	58.33	4	33.33	1	8.33	0		0		0	
JAJAPUR	31	0.48	8.50	16	51.61	10	32.26	5	16.13	0		0		0	
JHARSUGUDA	15	1.35	5.15	4	26.67	10	66.67	1	6.67	0		0		0	
KALAHANDI	32	0.20	9.14	2	6.25	28	87.50	2	6.25	0		0		0	
KANDHAMAL	24	2.05	11.60	0		8	33.33	15	62.50	1	4.17	0		0	
KENDRAPARA	22	0.20	3.16	13	59.09	9	40.91	0		0		0		0	
KENDUJHAR	65	1.39	8.64	1	1.54	53	81.54	11	16.92	0		0		0	
KHORDHA	64	0.40	10.59	13	20.31	24	37.50	26	40.63	1	1.56	0		0	
KORAPUT	59	0.15	11.72	4	6.78	31	52.54	22	37.29	2	3.39	0		0	
MALKANGIRI	18	1.33	5.07	3	16.67	14	77.78	1	5.56	0		0		0	
MAYURBHANJ	90	0.21	12.90	6	6.67	57	63.33	26	28.89	1	1.11	0		0	
NABARANGAPUR	25	2.32	8.19	0		17	68.00	8	32.00	0		0		0	
NAYAGARH	38	0.06	6.33	13	34.21	21	55.26	4	10.53	0		0		0	
NUAPADA	22	1.40	6.99	6	27.27	13	59.09	3	13.64	0		0		0	
PURI	79	0.10	8.44	37	46.84	33	41.77	9	11.39	0		0		0	
RAYAGADA	18	1.24	7.18	9	50.00	5	27.78	4	22.22	0		0		0	
SAMBALPUR	74	0.20	10.00	17	22.97	47	63.51	10	13.51	0		0		0	
SONAPUR	49	0.50	6.45	15	30.61	28	57.14	6	12.24	0		0		0	
SUNDARGARH	79	0.17	10.30	18	22.78	47	59.49	12	15.19	2	2.53	0		0	
Total	**1333**	**0.06**	**12.90**	**317**	**23.78**	**786**	**58.96**	**222**	**16.65**	**8**	**0.60**	**0**		**0**	

7.2 FLUCTUATION IN COMPARISON TO CORRESSPONDING PERIOD OF PREVIOUS YEAR

7.2.1 APRIL 2018 - APRIL 2019

The district-wise categorization of change in water level during April-2018 with respect to that of April-2019 has been given in **Table 7.5** and has been presented in **Plate 7.5**.

Rise of water level

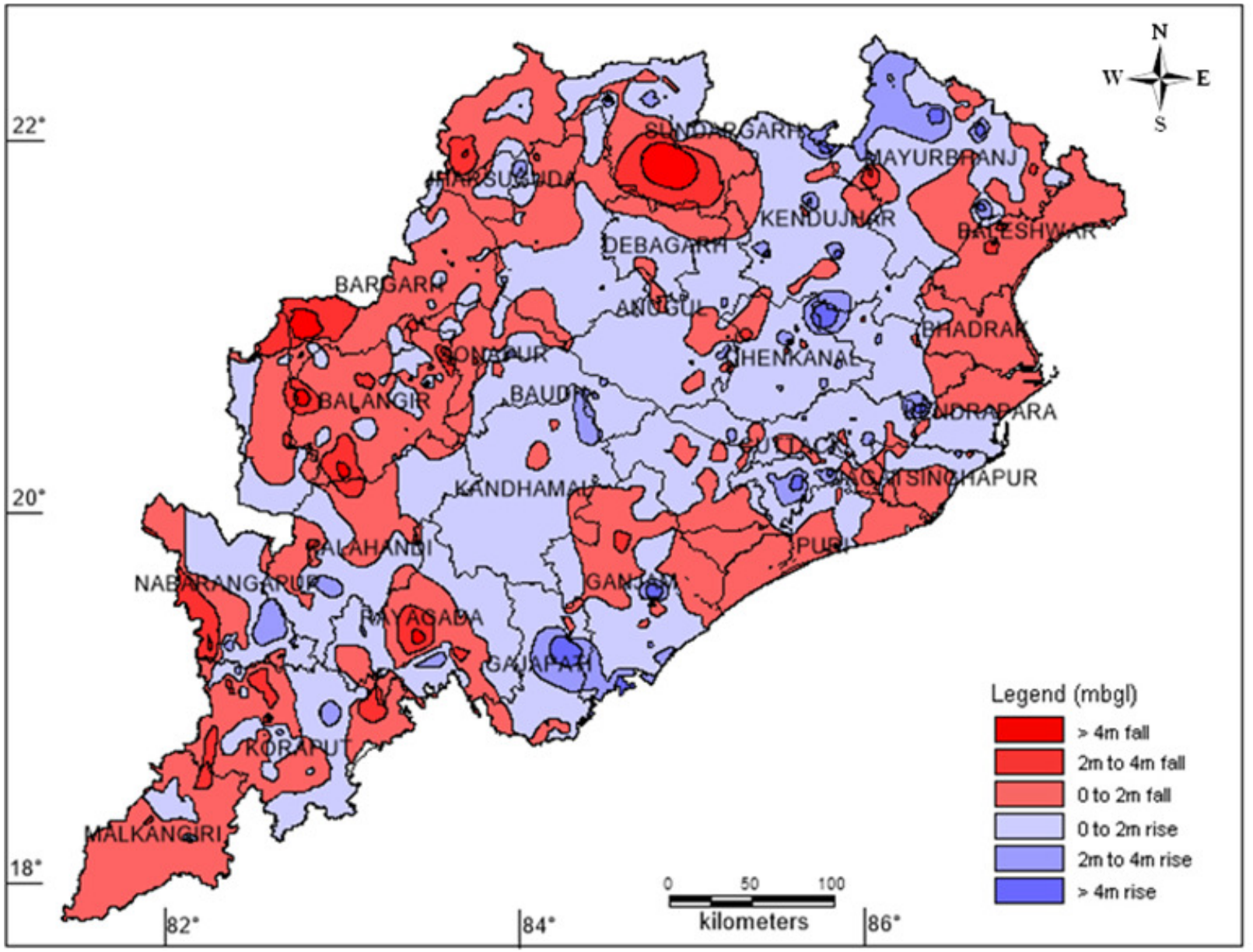
A perusal of data and map showing the variation in water level of April 2018 with respect to April 2019 shows that 56.68% of the wells recorded a rise in water level. Maximum number of wells have shown rise in 0-2m range, i.e., 49.25% of the total wells analysed. All the districts show this range of rise including the command areas of the state. Rise in 2-4m range is noticed only in 5.32% of the wells, mainly in Mayurbhanj, Nabarangapur, Malkangiri, Dhenkanal, Jagatsinghapur, Baudh, Khordha and Anugul districts. Rise of more than 4m is observed only in 2.09 % of the wells, which occur in isolated wells in the state.

Fall of water level

A perusal of data and map pertaining to the fluctuation of April 2018 with respect to April 2019 shows that in 41.57% of wells there has been fall in water level. The fall in water level in the range of 0-2m have been observed in 35.54 % of the wells in the state. It varies from minimum of 2.17 % in Baudh district to maximum of 78.57% in Bhadrak district. Fall in 2-4m range is observed only in 4.97% of wells. More than 4 m fall in water level has been observed in a minor 1.04% wells of the state.

In general a rise and fall in water level has been observed in April 2018 with respect to April 2019.

WATER LEVEL FLUCTUATION MAP
APRIL 2018 VS APRIL 2019 **PLATE:7.5**



DISTRICT WISE CATEGORIZATION OF CHANGE IN WATER LEVEL: APRIL 2018 VS APRIL 2019 TABLE:-7.5

DISTRICT	No. of Wells analysed	No. of Wells showing		Range				No. of Wells/Percentage Showing Fluctuation											
								Rise (m)						Fall (m)					
				Rise (m)		Fall (m)		0 -2 m		2 - 4 m		>4 m		0 -2 m		2 - 4 m		>4 m	
		Rise	Fall	Min	Max	Min	Max	No	%	No	%	No	%	No	%	No	%	No	%
ANUGUL	50	36	12	0.02	3.50	0.05	2.58	31	62.00	5	10.00	0		11	22.00	1	2.00	0	
BALANGIR	61	20	41	0.08	2.84	0.05	5.44	19	31.15	1	1.64	0		26	42.62	13	21.31	2	3.20
BALESHWAR	18	2	16	0.28	0.74	0.22	5.52	2	11.11	0		0		10	55.56	4	22.22	2	11.1
BARGARH	53	15	37	0.01	1.73	0.08	5.05	15	28.30	0		0		31	58.49	5	9.43	1	1.8
BAUDH	46	43	1	0.10	3.05	1.00	1.00	38	82.61	5	10.87	0		1	2.17	0		0	
BHADRAK	14	2	12	0.34	0.50	0.15	2.08	2	14.29	0		0		11	78.57	1	7.14	0	
CUTTACK	59	42	17	0.02	3.09	0.03	1.10	39	66.10	3	5.08	0		17	28.81	0		0	
DEBAGARH	7	5	1	0.27	0.87	0.10	0.10	5	71.43	0		0		1	14.29	0		0	
DHENKANAL	37	31	4	0.01	5.32	0.20	3.14	26	70.27	4	10.81	1	2.7	3	8.11	1	2.70	0	
GAJAPATI	27	14	12	0.05	5.90	0.20	2.65	13	48.15	0		1	3.70	11	40.74	1	3.70	0	
GANJAM	62	35	27	0.05	6.85	0.10	3.20	29	46.77	3	4.84	3	4.8	23	37.10	4	6.45	0	
JAGATSINGHAPUR	10	5	5	0.01	2.25	0.18	1.56	4	40.00	1	10.00	0		5	50.00	0		0	
JAJAPUR	24	20	4	0.10	6.02	0.03	0.60	17	70.83	2	8.33	1	4.1	4	16.67	0		0	
JHARSUGUDA	15	6	8	0.04	4.25	0.10	2.40	5	33.33	0		1	6.6	7	46.67	1	6.67	0	
KALAHANDI	33	18	14	0.10	4.00	0.60	3.70	16	48.48	1	3.03	1	3.00	10	30.30	4	12.12	0	
KANDHAMAL	15	13	2	0.10	2.80	0.25	0.40	12	80.00	1	6.67	0		2	13.33	0		0	
KENDRAPARA	17	9	7	0.02	5.26	0.05	0.83	8	47.06	0		1	5.80	7	41.18	0		0	
KENDUJHAR	57	43	14	0.02	5.51	0.05	1.75	36	63.16	4	7.02	3	5.2	14	24.56	0		0	
KHORDHA	54	44	10	0.10	6.70	0.15	2.10	36	66.67	5	9.26	3	5.5	9	16.67	1	1.85	0	
KORAPUT	57	25	31	0.10	3.10	0.20	5.10	21	36.84	4	7.02	0		22	38.60	8	14.04	1	1.70
MALKANGIRI	19	6	13	0.30	3.70	0.50	2.80	4	21.05	2	10.53	0		11	57.89	2	10.53	0	
MAYURBHANJ	67	52	15	0.05	6.41	0.02	4.66	36	53.73	11	16.42	5	7.4	13	19.40	1	1.49	1	1.40
NABARANGAPUR	25	14	9	0.70	4.50	0.50	4.30	10	40.00	3	12.00	1	4	5	20.00	3	12.00	1	4.00
NAYAGARH	33	21	11	0.05	3.10	0.05	1.85	20	60.61	1	3.03	0		11	33.33	0		0	
NUAPADA	21	9	12	0.06	2.12	0.05	4.46	8	38.10	1	4.76	0		10	47.62	1	4.76	1	4.70
PURI	62	25	35	0.05	1.55	0.15	1.80	25	40.32	0		0		35	56.45	0		0	
RAYAGADA	22	10	12	0.20	3.00	0.30	4.70	8	36.36	2	9.09	0		7	31.82	4	18.18	1	4.50
SAMBALPUR	67	35	32	0.05	3.93	0.02	1.70	34	50.75	1	1.49	0		32	47.76	0		0	
SONAPUR	47	14	33	0.05	5.80	0.02	2.26	13	27.66	0		1	2	32	68.09	1	2.13	0	
SUNDARGARH	66	35	29	0.02	4.90	0.02	6.92	32	48.48	1	1.52	2	3	26	39.39	1	1.52	2	3.00
Total	1145	649	476	(0.70)	(0.50)	0.02	6.92	564	49.25	61	5.32	24	2.09	407	35.54	57	4.9	12	1.04

7.2.2 AUGUST 2018 - AUGUST 2019

The district-wise categorization of change in water level during August-2018 with respect to that of August-2019 has been given in **Table 7.6** and rise/ fall map has been presented in **Plate 7.6**.

Rise in water level

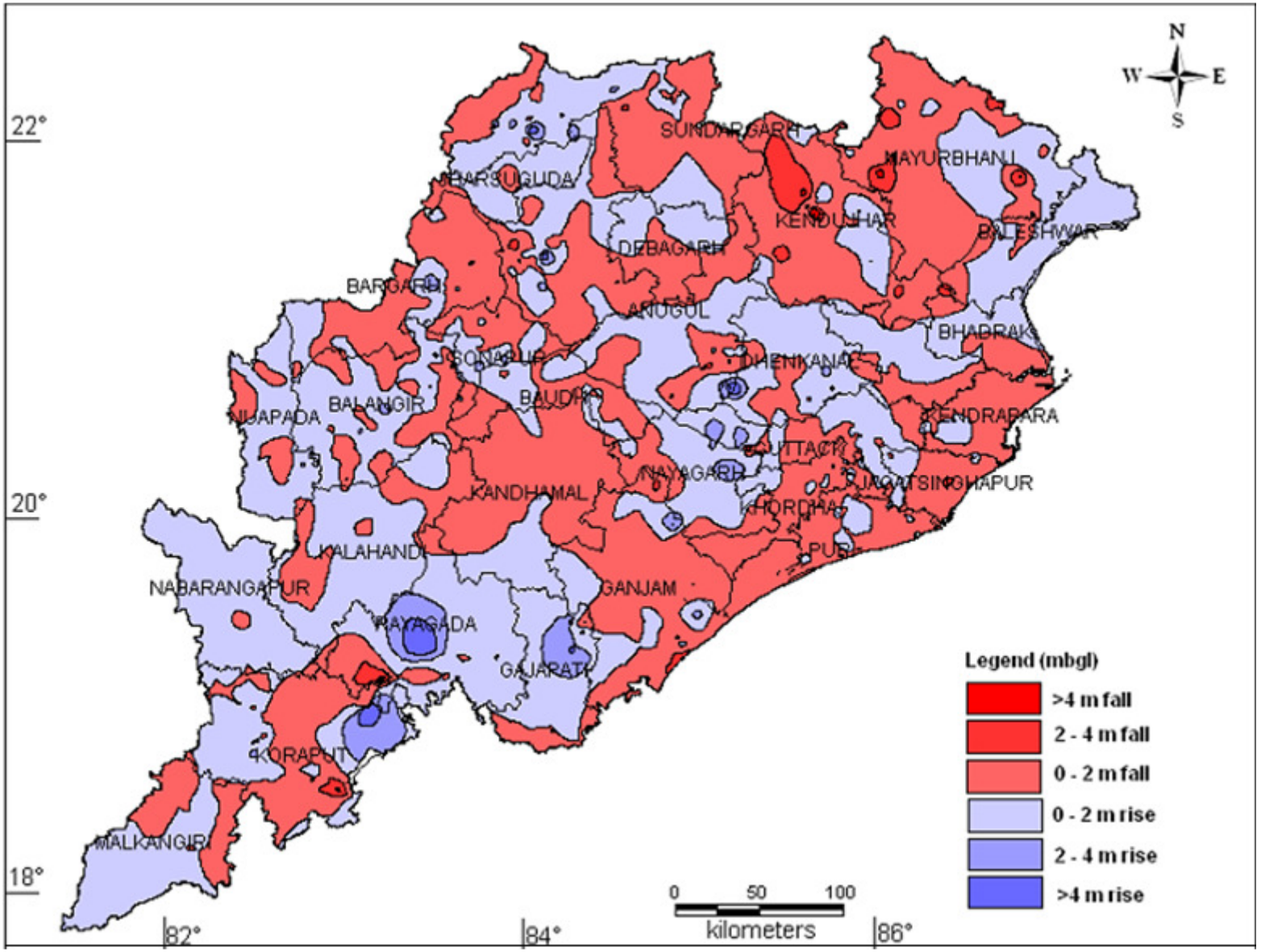
A perusal of data and maps pertaining to fluctuation of August 2018 water level with that of August 2019 showed that 46.82% of the total stations showed a rise in water level. The rise is more in 0-2 m range ie about 43.43%; 2.7% in 2-4 m range and 0.67% in greater than 4 m range. All the districts have recorded water level in 0-2m range. 2-4m range occurs in isolated patches throughout the state. Only 8 wells (0.67%) of the total wells monitored showed greater than 4 m rise.

Fall in water level

A total of 50.71% NHS showed a fall in water level in August 2018 as compared to August 2019. Out of which 47.41% wells showed fall in 0-2m range, 2.62% in 2-4m range and a minor 0.67% in greater than 4 m range. Kandhamal district shows a maximum fall of 87.50% in the range of 0-2m. Fall in 2-4m range is found in isolated patches in the state with districts mainly Jagatsinghapur, Rayagada, Gajapati and Kendujhar districts. Greater than 4m fall in water level is found in Kendujhar, Khordha, Koraput and Mayurbhanj. They occur as minor patches within areas showing fall in 2-4m range.

WATER LEVEL FLUCTUATION MAP
AUGUST 2018 VS AUGUST 2019

PLATE:7.6



DISTRICT WISE CATEGORIZATION OF CHANGE IN WATER LEVEL : AUGUST 2018 VS AUGUST 2019

TABLE:-7.6

DISTRICT	No. of Well analysed	No. of wells showing		Range				No. and percentage of wells showing											
				Rise (m)		Fall (m)		Rise						Fall					
		Rise	Fall	Min	Max	Min	Max	0 - 2 m		2 - 4 m		>4 m		0 - 2 m		2 - 4 m		>4 m	
								No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
ANUGUL	58	33	25	0.05	5.92	0.03	2.47	32	55.17	0		1	1.72	21	36.21	4	6.90	0	
BALANGIR	66	40	26	0.08	2.46	0.10	2.15	36	54.55	4	6.06	0		25	37.88	1	1.52	0	
BALESHWAR	16	11	3	0.07	1.77	0.18	1.05	11	68.75	0		0		3	18.75	0		0	
BARGARH	64	12	51	0.08	3.60	0.02	2.60	11	17.19	1	1.56	0		50	78.13	1	1.56	0	
BAUDH	44	23	21	0.05	1.05	0.10	1.55	23	52.27	0		0		21	47.73	0		0	
BHADRAK	14	10	4	0.05	0.74	0.02	2.45	10	71.43	0		0		3	21.43	1	7.14	0	
CUTTACK	62	44	17	0.01	3.85	0.01	2.85	42	67.74	2	3.23	0		16	25.81	1	1.61	0	
DEBAGARH	9	4	3	0.02	1.58	0.26	0.72	4	44.44	0		0		3	33.33	0		0	
DHENKANAL	40	30	10	0.01	2.48	0.03	2.25	28	70.00	2	5.00	0		9	22.50	1	2.50	0	
GAJAPATI	26	14	12	0.20	4.25	0.05	2.80	9	34.62	3	11.54	2	7.69	10	38.46	2	7.69	0	
GANJAM	59	14	43	0.04	4.05	0.02	2.95	12	20.34	1	1.69	1	1.69	40	67.80	3	5.08	0	
JAGATSINGHAPUR	9	4	5	0.02	0.55	0.06	2.30	4	44.44	0		0		4	44.44	1	11.11	0	
JAJAPUR	24	15	8	0.01	1.22	0.07	0.74	15	62.50	0		0		8	33.33	0		0	
JHARSUGUDA	13	11	2	0.05	1.75	0.10	0.49	11	84.62	0		0		2	15.38	0		0	
KALAHANDI	33	15	14	0.04	2.00	0.10	0.40	15	45.45	0		0		14	42.42	0		0	
KANDHAMAL	16	2	14	0.10	0.10	0.10	0.90	2	12.50	0		0		14	87.50	0		0	
KENDRAPARA	16	8	8	0.02	0.58	0.04	1.04	8	50.00	0		0		8	50.00	0		0	
KENDUJHAR	42	11	30	0.05	2.10	0.05	7.42	9	21.43	2	4.76	0		25	59.52	3	7.14	2	4.76
KHORDHA	63	12	50	0.10	2.90	0.02	4.30	11	17.46	1	1.59	0		48	76.19	1	1.59	1	1.59
KORAPUT	62	31	29	0.02	5.60	0.01	4.60	28	45.16	2	3.23	1	1.61	25	40.32	1	1.61	3	4.84
MALKANGIRI	21	14	7	0.05	1.35	0.10	1.10	14	66.67	0		0		7	33.33	0		0	
MAYURBHANJ	63	20	42	0.02	1.86	0.04	4.56	20	31.75	0		0		36	57.14	4	6.35	2	3.17
NABARANGAPUR	25	21	2	0.10	2.50	0.05	0.20	20	80.00	1	4.00	0		2	8.00	0		0	
NAYAGARH	36	30	5	0.05	3.93	0.01	1.50	28	77.78	2	5.56	0		5	13.89	0		0	
NUAPADA	22	16	6	0.05	2.45	0.15	0.78	15	68.18	1	4.55	0		6	27.27	0		0	
PURI	70	16	50	0.03	1.10	0.02	1.02	16	22.86	0		0		50	71.43	0		0	
RAYAGADA	21	13	7	0.10	6.20	0.10	2.80	12	57.14	0		1	4.76	5	23.81	2	9.52	0	
SAMBALPUR	69	22	45	0.01	5.35	0.01	2.54	19	27.54	2	2.90	1	1.45	42	60.87	3	4.35	0	
SONAPUR	43	13	30	0.02	2.75	0.06	1.80	11	25.58	2	4.65	0		30	69.77	0		0	
SUNDARGARH	75	44	30	0.02	6.01	0.02	2.42	37	49.33	6	8.00	1	1.33	28	37.33	2	2.67	0	
Total	**1181**	**553**	**599**	**0.20**	**0.10**	**0.01**	**7.42**	**513**	**43.43**	**32**	**2.70**	**8**	**.67**	**560**	**47.41**	**31**	**.26**	**8**	**.67**

7.2.3 NOVEMBER 2018 - NOVEMBER 2019

The district-wise categorisation of change in water level during November-2018 with respect to November-2019 has been given in **table 7.7** and rise/ fall map has been presented in **Plate 7.7**.

Rise in water level

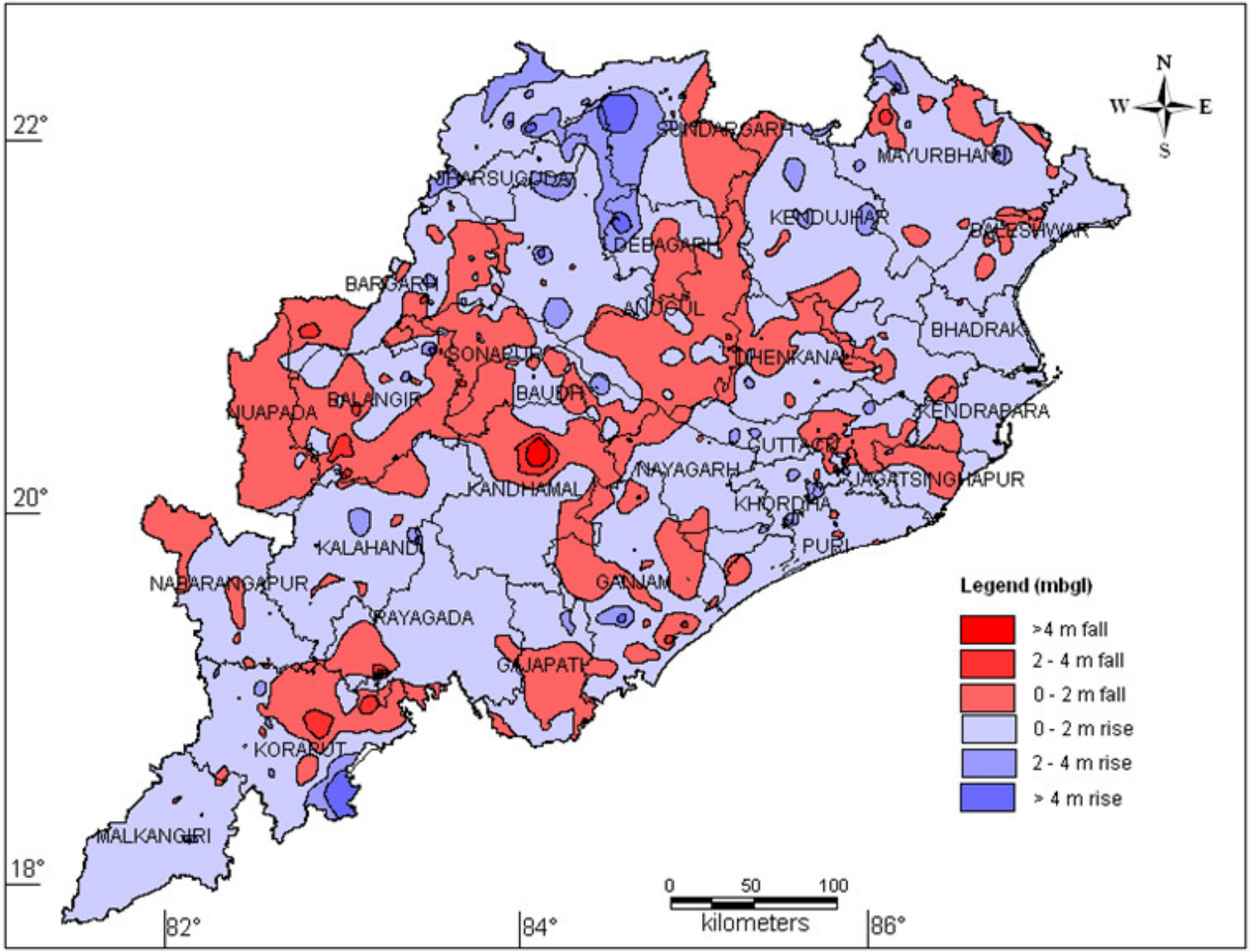
A perusal of data and maps pertaining to fluctuation of November 2018 water level with that of November 2019 showed that 64.21% of the total stations showed a rise in water level. The rise is more in 0-2 m range i.e. 56.79%; 5.99% in 2-4 m range and 1.43% in more than 4 m range. All the districts have recorded rise in 0-2m range. Most of the districrts show water level rise in 2-4 m range except Baudh, Bhadrak, Jagatsinghapur, Jajpur, Kandhamal, Kendrapara, Nuapada and Rayagada. Only 17 wells (1.43%) of the total wells monitored showed greater than 4 m rise. They occur as minor patches within the state.

Fall in water level

A total of 34.34% NHS showed a fall in water level in November 2019. About 31.64% wells showed fall in 0-2m range, 2.27% in 2-4m range and a minor 0.42% in greater than 4 m range. All the districts have recorded fall in the range of 0-2m. Fall in 2-4m range is found in Aungul, Balangir, Bargarh, Cuttack, Dhenkanal, Gajapati, Ganjam, Khordha, Koraput, Mayurbhanj and Sonapur. Greater than 4m fall in water level is found in Balangir, Bargarh, Kandhamal, Khordha and Koraput districts.

In general a rise in water level is observed throughout the state during November 2018 with respect to November 2019 and majority of wells recorded 0-2 m rise due to variation of monsoon rainfall and development.

WATER LEVEL FLUCTUATION MAP
NOVEMBER 2018 VS NOVEMBER 2019 **PLATE:7.7**



DISTRICT WISE CATEGORIZATION OF CHANGE IN WATER LEVEL: NOVEMBER 2018 Vs NOVEMBER 2019

TABLE:-7.7

District	No. of Wells analysed	Total No. of Wells		Range				No. and percentage of wells showing											
				Rise (m)		Fall (m)		Rise						Fall					
		Rise	Fall	Min	Max	Min	Max	0 to 2		2 to 4		>4		0 to 2		2 to 4		>4	
ANUGUL	57	12	44	0.02	2.10	0.02	3.52	11	19.30	1	1.75	0		41	71.93	3	5.26	0	
BALANGIR	69	23	45	0.05	5.55	0.02	4.15	20	28.99	2	2.90	1	1.45	37	53.62	7	10.14	1	1.45
BALESHWAR	23	13	9	0.20	2.70	0.10	1.50	12	52.17	1	4.35	0		9	39.13	0		0	
BARGARH	60	31	29	0.02	3.00	0.05	4.03	28	46.67	3	5.00	0		27	45.00	1	1.67	1	1.67
BAUDH	44	21	23	0.04	4.13	0.02	1.80	20	45.45	0		1	2.27	23	52.27	0		0	
BHADRAK	14	12	1	0.10	1.10	0.10	0.10	12	85.71	0		0		1	7.14	0		0	
CUTTACK	61	35	23	0.03	3.35	0.04	2.12	32	52.46	3	4.92	0		22	36.07	1	1.64	0	
DEBAGARH	9	7	2	0.15	5.05	0.17	0.64	5	55.56	1	11.11	1	11.11	2	22.22	0		0	
DHENKANAL	42	28	13	0.01	3.43	0.03	2.58	27	64.29	1	2.38	0		12	28.57	1	2.38	0	
GAJAPATI	27	20	7	0.08	3.69	0.21	2.19	15	55.56	5	18.52	0		6	22.22	1	3.70	0	
GANJAM	76	50	26	0.03	4.79	0.01	3.29	46	60.53	3	3.95	1	1.32	23	30.26	3	3.95	0	
JAGATSINGHAPUR	12	6	6	0.05	1.20	0.05	1.02	6	50.00	0		0		6	50.00	0		0	
JAJAPUR	28	16	12	0.05	1.16	0.01	1.15	16	57.14	0		0		12	42.86	0		0	
JHARSUGUDA	11	10	1	0.10	2.90	0.10	0.10	7	63.64	3	27.27	0		1	9.09	0		0	
KALAHANDI	33	25	8	0.04	5.12	0.02	0.93	22	66.67	2	6.06	1	3.03	8	24.24	0		0	
KANDHAMAL	13	7	6	0.02	1.88	0.08	7.51	7	53.85	0		0		5	38.46	0		1	7.69
KENDRAPARA	18	16	2	0.07	1.15	0.22	0.60	16	88.89	0		0		2	11.11	0		0	
KENDUJHAR	49	40	6	0.15	3.88	0.02	1.80	34	69.39	6	12.24	0		6	12.24	0		0	
KHORDHA	55	36	19	0.05	4.68	0.02	4.48	29	52.73	4	7.27	3	5.45	13	23.64	5	9.09	1	1.82
KORAPUT	54	39	15	0.01	4.96	0.07	4.89	32	59.26	6	11.11	1	1.85	12	22.22	2	3.70	1	1.85
MALKANGIRI	18	14	4	0.04	5.06	0.04	0.51	12	66.67	1	5.56	1	5.56	4	22.22	0		0	
MAYURBHANJ	70	52	17	0.04	5.60	0.10	3.37	44	62.86	5	7.14	3	4.29	16	22.86	1	1.43	0	
NABARANGAPUR	25	19	6	0.08	2.04	0.13	0.40	18	72.00	1	4.00	0		6	24.00	0		0	
NAYAGARH	34	28	6	0.07	2.02	0.06	1.07	27	79.41	1	2.94	0		6	17.65	0		0	
NUAPADA	17	4	13	0.32	1.80	0.01	1.95	4	23.53	0		0		13	76.47	0		0	
PURI	55	51	4	0.13	3.80	0.03	0.85	49	89.09	2	3.64	0		4	7.27	0		0	
RAYAGADA	16	13	3	0.01	1.45	0.19	0.58	13	81.25	0		0		3	18.75	0		0	
SAMBALPUR	70	54	16	0.05	5.05	0.01	1.42	47	67.14	6	8.57	1	1.43	16	22.86	0		0	
SONAPUR	48	15	33	0.05	2.23	0.05	2.90	14	29.17	1	2.08	0		31	64.58	2	4.17	0	
SUNDARGARH	77	64	8	0.05	7.30	0.02	1.72	48	62.34	13	16.88	3	3.90	8	10.39	0		0	
Total	**1185**	**761**	**407**	**(0.32)**	**(1.10)**	**0.01**	**7.51**	**673**	**56.79**	**71**	**5.99**	**17**	**1.43**	**375**	**31.64**	**27**	**2.27**	**5**	**0.42**

7.2.4 JANUARY 2019 – JANUARY 2020

The district-wise categorisation of change in water level during January-2019 with respect to that of January-2020 has been given in **Table 7.8** and has been presented in **Plate 7.8**.

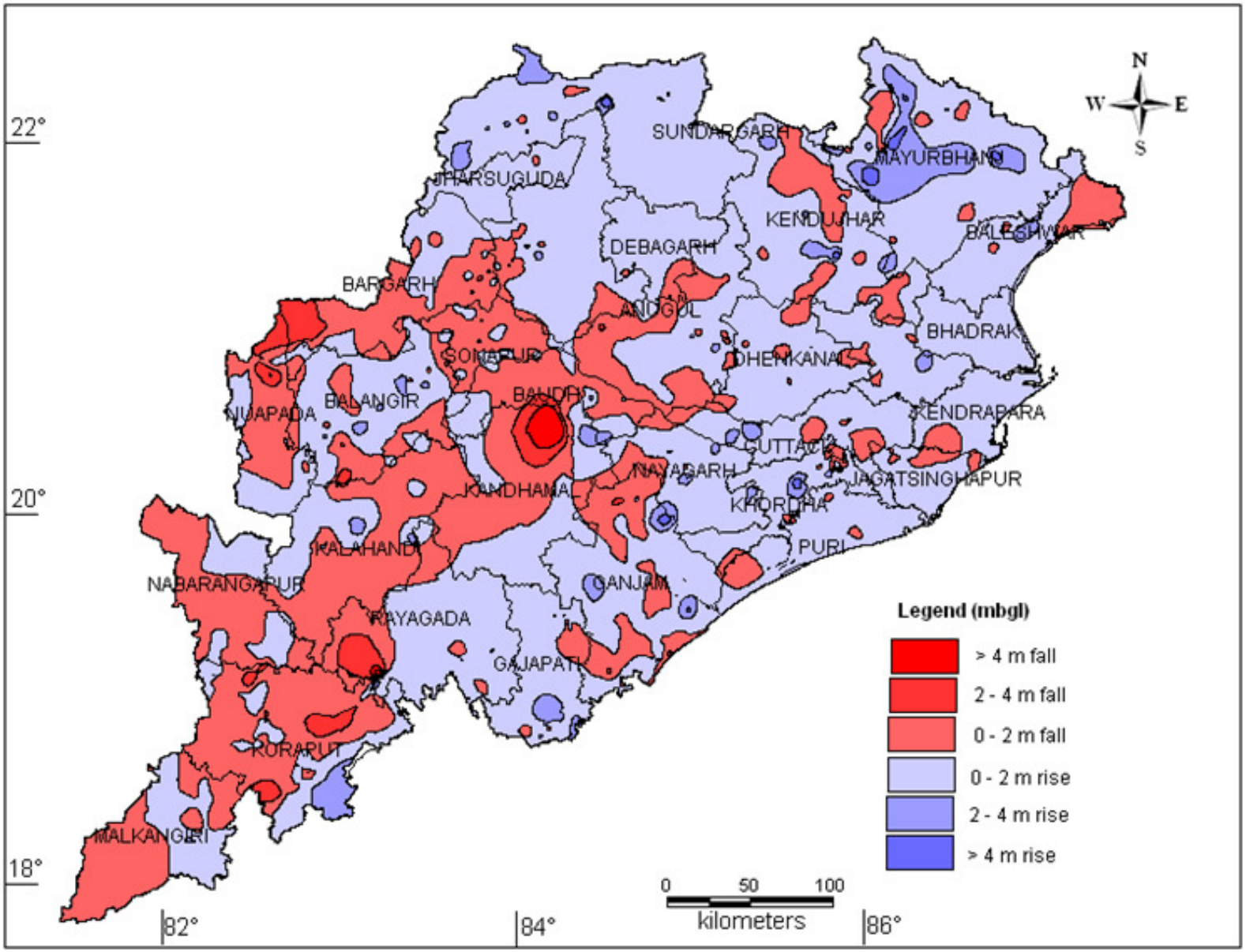
Rise in water level

A perusal of data and maps pertaining to fluctuation of January 2019 water level with that of January 2020 showed that 67.35% of the total stations showed a rise in water level. The rise is more in 0-2 m range ie about 60.74%, 5.37% in 2-4 m range and 1.23% in greater than 4 m range. All the districts have recorded water level in 0-2m range. 2-4m range occurs in isolated patches throughout the state. Only 15 wells (1.23%) of the total wells monitored showed greater than 4 m rise.

Fall in water level

A total of 30.66% NHS showed a fall in water level in January 2020 as compared to January 2019. Out of which 28.42% wells showed fall in 0-2m range, 1.90% in 2-4m range and a minor 0.33% in greater than 4 m range. Baudh district shows a maximum fall of 66.67% in the range of 0-2m. Fall in 2-4m range is found in isolated patches in the state with districts mainly Anugul, Balangir, Bargarh, Ganjam, Khordha, Koraput, Mayurbhanj, Nuapada and Sonapur districts. Greater than 4m fall in water level is found in Kandhamal, Khordha, Koraput and Nuapada. They occur as minor patches within areas showing fall in 2-4m range.

WATER LEVEL FLUCTUATION MAP
JANUARY 2019 VS JANUARY 2020 **PLATE:7.8**



DISTRICT WISE CATEGORIZATION OF CHANGE IN WATER LEVEL: JANUARY 2019 Vs JANUARY 2020

TABLE:-7.8

District	No. of Wells analysed	Total No. of Wells		Range of Fluctuation				No. of Wells/Percentage Showing Fluctuation											
								Rise (m)						Fall (m)					
		Rise	Fall	Rise (m)		Fall (m)		0 to 2		2 to 4		>4		0 to 2		2 to 4		>4	
				Min	Max	Min	Max	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
ANUGUL	56	40	14	0.01	3.67	0.08	3.81	37	66.07	3	5.36	0		12	21.43	2	3.57	0	
BALANGIR	68	48	20	0.03	3.40	0.19	3.89	42	61.76	6	8.82	0		18	26.47	2	2.94	0	
BALESHWAR	22	19	3	0.11	3.50	0.77	1.50	15	68.18	4	18.18	0		3	13.64	0		0	
BARGARH	63	24	38	0.09	2.19	0.05	2.97	23	36.51	1	1.59	0		35	55.56	3	4.76	0	
BAUDH	39	10	26	0.03	2.48	0.01	1.70	8	20.51	2	5.13	0		26	66.67	0		0	
BHADRAK	11	9	1	0.04	1.35	0.20	0.20	9	81.82	0		0		1	9.09	0		0	
CUTTACK	63	55	7	0.01	3.76	0.08	1.26	53	84.13	2	3.17	0		7	11.11	0		0	
DEBAGARH	9	7	1	0.05	2.15	0.35	0.35	6	66.67	1	11.11	0		1	11.11	0		0	
DHENKANAL	41	34	7	0.01	1.89	0.01	1.59	34	82.93	0		0		7	17.07	0		0	
GAJAPATI	28	21	7	0.03	2.73	0.05	1.18	16	57.14	5	17.86	0		7	25.00	0		0	
GANJAM	67	40	25	0.03	5.08	0.06	2.32	35	52.24	3	4.48	2	2.99	22	32.84	3	4.48	0	
JAGATSINGHAPUR	11	5	6	0.05	0.42	0.01	0.10	5	45.45	0		0		6	54.55	0		0	
JAJAPUR	27	22	5	0.08	2.75	0.02	0.90	21	77.78	1	3.70	0		5	18.52	0		0	
JHARSUGUDA	13	12	1	0.05	1.45	0.30	0.30	12	92.31	0		0		1	7.69	0		0	
KALAHANDI	32	12	20	0.11	4.58	0.03	1.29	10	31.25	1	3.13	1	3.13	20	62.50	0		0	
KANDHAMAL	11	6	5	0.07	3.35	0.10	8.10	5	45.45	1	9.09	0		4	36.36	0		1	9.09
KENDRAPARA	17	16	1	0.18	1.77	0.83	0.83	16	94.12	0		0		1	5.88	0		0	
KENDUJHAR	56	35	19	0.10	5.50	0.05	1.75	31	55.36	3	5.36	1	1.79	19	33.93	0		0	
KHORDHA	62	46	15	0.02	6.25	0.05	4.70	40	64.52	3	4.84	3	4.84	13	20.97	1	1.61	1	1.61
KORAPUT	58	24	33	0.11	3.94	0.09	5.21	20	34.48	4	6.90	0		25	43.10	7	12.07	1	1.72
MALKANGIRI	17	11	6	0.20	3.72	0.02	1.41	10	58.82	1	5.88	0		6	35.29	0		0	
MAYURBHANJ	69	56	13	0.15	6.20	0.30	2.25	37	53.62	13	18.84	6	8.70	12	17.39	1	1.45	0	
NABARANGAPUR	25	10	14	0.02	1.41	0.06	1.09	10	40.00	0		0		14	56.00	0		0	
NAYAGARH	37	35	2	0.05	4.20	0.26	0.28	31	83.78	3	8.11	1	2.70	2	5.41	0		0	
NUAPADA	22	11	11	0.15	1.70	0.10	4.21	11	50.00	0		0		8	36.36	2	9.09	1	4.55
PURI	71	69	2	0.02	1.77	0.49	0.66	69	97.18	0		0		2	2.82	0		0	
RAYAGADA	17	12	5	0.03	1.69	0.04	0.44	12	70.59	0		0		5	29.41	0		0	
SAMBALPUR	73	49	20	0.05	2.70	0.05	1.57	48	65.75	1	1.37	0		20	27.40	0		0	
SONAPUR	48	14	33	0.02	2.23	0.13	2.13	13	27.08	1	2.08	0		31	64.58	2	4.17	0	
SUNDARGARH	77	63	11	0.05	8.00	0.05	0.50	56	72.73	6	7.79	1	1.30	11	14.29	0		0	
Total	**1210**	**815**	**371**	**(0.20)**	**(0.42)**	**0.01**	**8.10**	**735**	**60.74**	**65**	**5.37**	**15**	**1.23**	**344**	**28.42**	**23**	**1.90**	**4**	**0.33**

7.3 FLUCTUATION WITH RESPECT TO PRE-MONSOON WATER LEVEL

7.3.1 APRIL 2019 - AUGUST 2019

The district-wise categorization of change in water level during August-2019 with respect to that of April-2019 has been given in **Table 7.9** and rise / fall map has been presented in **Plate 7.9**.

Rise in water level

97.4 % of the wells monitored in August 2019 showed a rise in water level when compared with that of April 2019 (Pre-monsoon). 31.02% of wells showed rise in 0-2 m range, 36.21% in 2-4 m range and 30.16% rise in the range of more than 4m. A maximum of 88.89% of wells in Jagatsinghapur district and a minimum of 4.0% in Nabarangapur district recorded a rise in the range of 0-2m. A maximum of 53.33% of wells in Kandhamal district and a minimum of 11.11% in Jagatsinghapur district recorded rise in the range of 2 – 4m. A maximum of 76.92% of wells in Jharsuguda district and a minimum of 1.47% in Puri district recorded rise in the range of >4m.

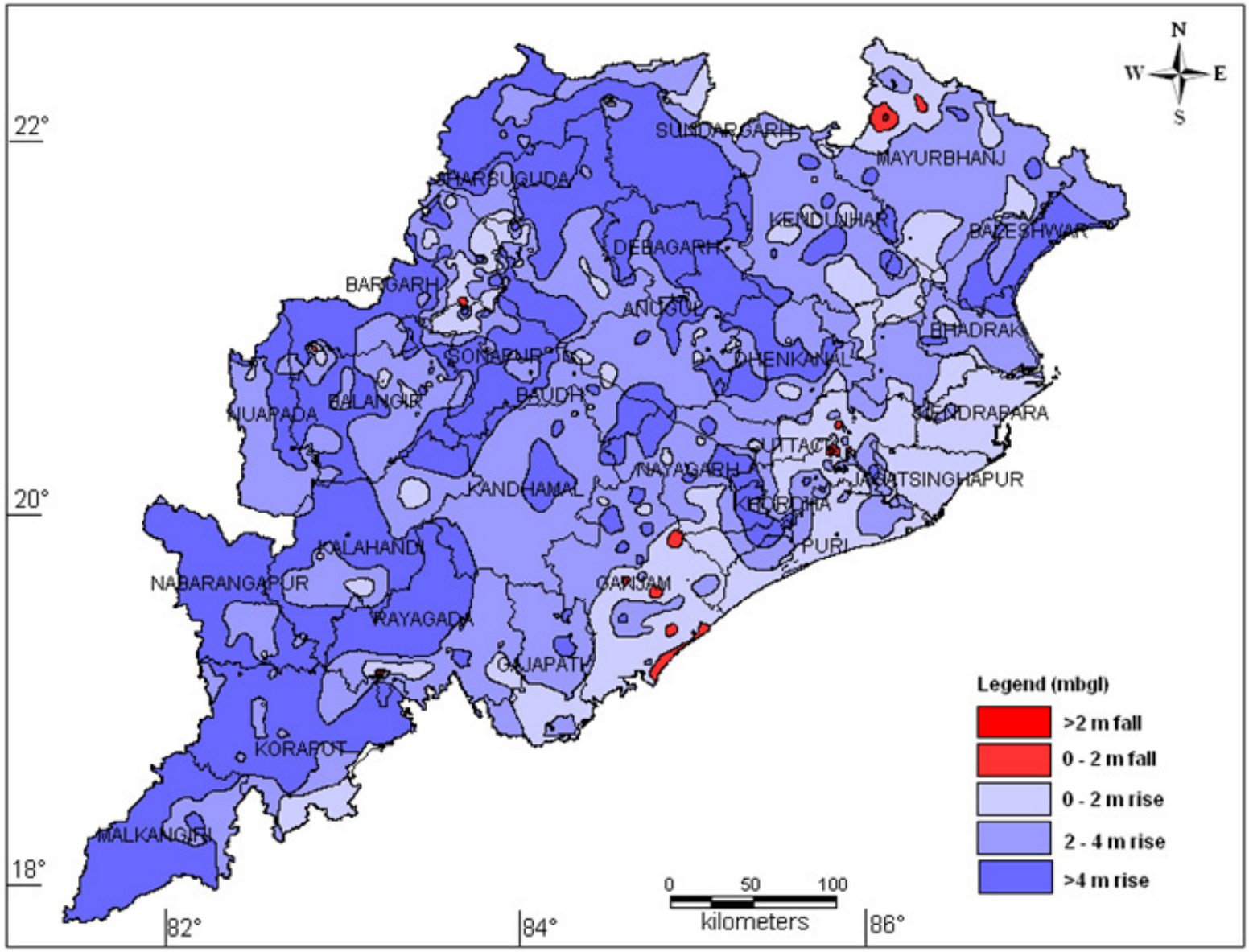
Fall in water level

Only 2.24% of the wells monitored showed a fall in water level. 2.07% of wells showed fall in 0-2 m range. The fall in 0-2m range is seen in Angul, Bargarh, Cuttack, Ganjam, Gajapati, Khordha, Koraput, Mayurbhanj, Nayagarh, sundargarh districts. 1 well each in the Khordha and Mayurbhanj district showed fall in water level in 2-4 m.

In general as it should be, a rise in water level is observed throughout the state during August 2019 with respect to April 2019 and majority of wells recorded 0-4 m rise because of recharge of aquifer due to monsoon rainfall.

WATER LEVEL FLUCTUATION

APRIL 2019 Vs AUGUST 2019 **PLATE 7.9**



DISTRICTWISE CATEGORIZATION OF CHANGE IN WATER LEVEL: APRIL 2019 Vs AUGUST 2019

TABLE:-7.9

DISTRICT	No. of Well analysed	No. of wells showing		Range				No. and percentage of wells showing											
				Rise (m)		Fall (m)		Rise						Fall					
		Rise	Fall	Min	Max	Min	Max	0 - 2 m		2 - 4 m		>4 m		0 - 2 m		2 - 4 m		>4 m	
								No.	%	No.	%	No.	%	No	%	No	%	No	%
ANUGUL	56	55	1	0.95	9.02	0.20	0.20	10	17.86	20	35.71	25	44.64	1	1.79	0		0	
BALANGIR	66	64	1	0.58	8.13	0.10	0.10	10	15.15	30	45.45	24	36.36	1	1.52	0		0	
BALESHWAR	15	15	0	1.20	6.55	-	-	3	20.00	5	33.33	7	46.67	0		0		0	
BARGARH	56	54	2	0.35	8.00	0.84	1.60	26	46.43	12	21.43	16	28.57	2	3.57	0		0	
BAUDH	43	43	0	1.30	6.10	-	-	4	9.30	21	48.84	18	41.86	0		0		0	
BHADRAK	14	14	0	0.92	4.68	-	-	3	21.43	7	50.00	4	28.57	0		0		0	
CUTTACK	60	57	3	0.07	5.79	0.23	1.42	32	53.33	22	36.67	3	5.00	3	5.00	0		0	
DEBAGARH	7	7	0	2.77	6.93	-	-	0		3	42.86	4	57.14	0		0		0	
DHENKANAL	40	40	0	0.80	7.00	-	-	6	15.00	21	52.50	13	32.50	0		0		0	
GAJAPATI	24	23	1	0.65	8.90	0.40	0.40	7	29.17	9	37.50	7	29.17	1	4.17	0		0	
GANJAM	65	56	8	0.50	6.20	0.03	1.40	26	40.00	23	35.38	7	10.77	8	12.31	0		0	
JAGATSINGHAPUR	9	9	0	0.16	2.05	-	-	8	88.89	1	11.11	0		0		0		0	
JAJAPUR	23	23	0	0.55	4.08	-	-	11	47.83	11	47.83	1	4.35	0		0		0	
JHARSUGUDA	13	13	0	1.62	7.75	-	-	1	7.69	2	15.38	10	76.92	0		0		0	
KALAHANDI	34	34	0	0.50	8.90	-	-	3	8.82	15	44.12	16	47.06	0		0		0	
KANDHAMAL	15	15	0	2.00	4.65	-	-	2	13.33	8	53.33	5	33.33	0		0		0	
KENDRAPARA	16	16	0	0.53	3.03	-	-	9	56.25	7	43.75	0		0		0		0	
KENDUJHAR	56	56	0	0.20	7.70	-	-	20	35.71	28	50.00	8	14.29	0		0		0	
KHORDHA	55	51	3	0.10	8.44	0.10	3.65	25	45.45	15	27.27	11	20.00	2	3.64	1	1.82	0	
KORAPUT	57	56	1	0.50	8.50	1.00	1.00	4	7.02	18	31.58	34	59.65	1	1.75	0		0	
MALKANGIRI	19	19	0	1.50	9.30	-	-	1	5.26	9	47.37	9	47.37	0		0		0	
MAYURBHANJ	69	65	4	0.26	7.55	0.05	2.35	25	36.23	31	44.93	9	13.04	3	4.35	1	1.45	0	
NABARANGAPUR	25	25	0	1.30	9.90	-	-	1	4.00	8	32.00	16	64.00	0		0		0	
NAYAGARH	30	29	1	0.60	6.00	0.50	0.50	8	26.67	12	40.00	9	30.00	1	3.33	0		0	
NUAPADA	21	21	0	0.96	8.89	-	-	3	14.29	7	33.33	11	52.38	0		0		0	
PURI	68	67	0	0.20	4.45	-	-	51	75.00	15	22.06	1	1.47	0		0		0	
RAYAGADA	22	22	0	0.50	10.60	-	-	7	31.82	9	40.91	6	27.27	0		0		0	
SAMBALPUR	63	63	0	0.20	7.13	-	-	17	26.98	19	30.16	27	42.86	0		0		0	
SONAPUR	47	47	0	0.20	6.55	-	-	14	29.79	14	29.79	19	40.43	0		0		0	
SUNDARGARH	69	68	1	0.08	8.96	1.03	1.03	22	31.88	17	24.64	29	42.03	1	1.45	0		0	
Total	**1157**	**1127**	**26**	**(2.77)**	**(2.05)**	**0.00**	**3.65**	**359**	**31.02**	**419**	**36.21**	**349**	**30.16**	**24**	**2.07**	**2**	**.17**	**0**	

7.3.2 APRIL 2019 - NOVEMBER 2019

The district-wise categorization of water level fluctuation of April 2019 with respect to November-2019 has given in **Table 7.10** has been shown in **Plate :- 7.10.**

Rise in water level

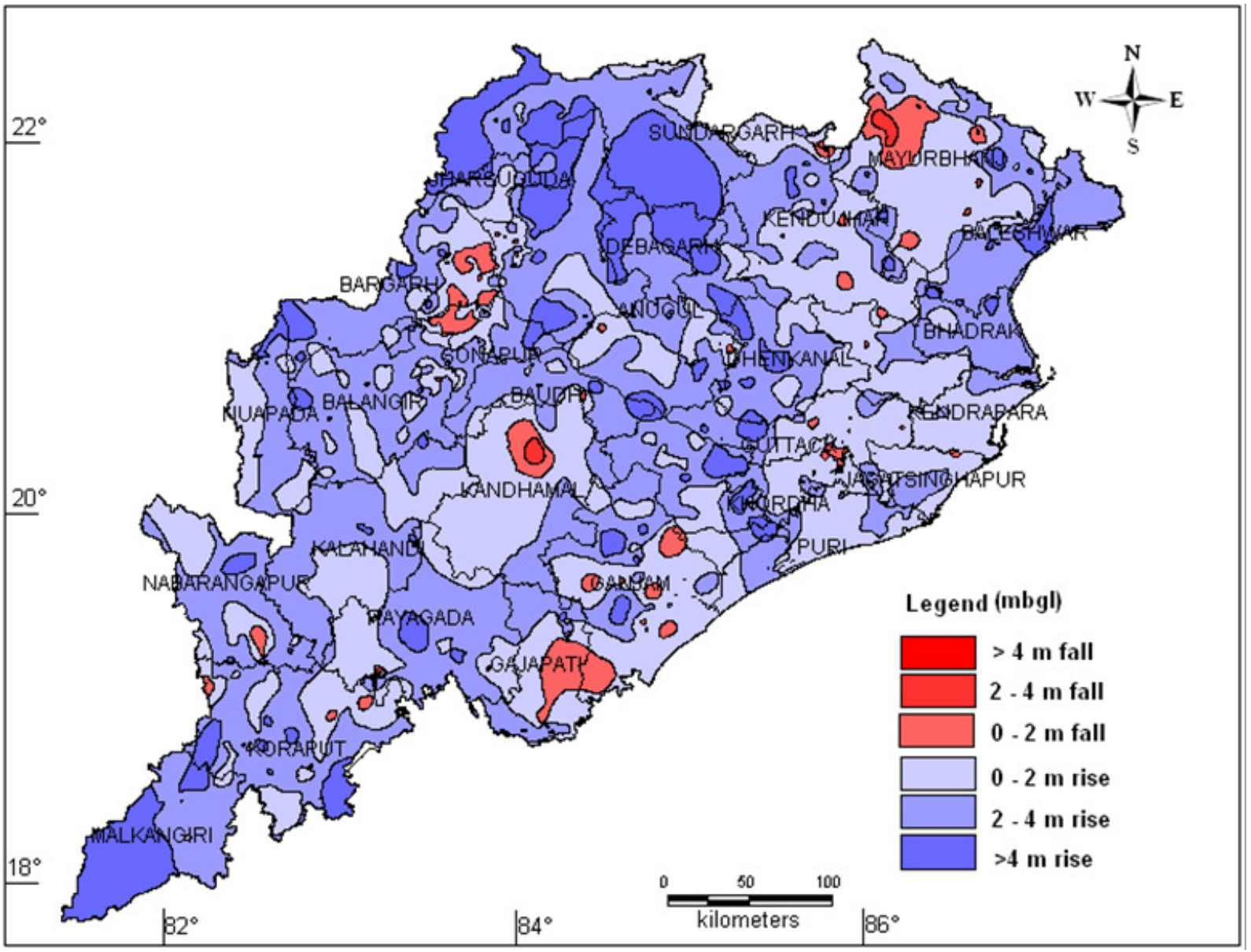
90.50 % of the wells monitored in November 2019 showed a rise in water level when compared with that of April 2019. About 43.49% of wells showed rise in 0-2 m range, 33.39% in 2-4 m range and 13.62% rise in the range of more than 4m. A maximum of 78.26% of wells in Puri district and a minimum of 16.67% in Jharsuguda and Nabarangapur district recorded a rise in the range of 0-2m. A maximum of 73.81% of wells in Baudh and a minimum of 9.09% in Khordha district recorded rise in the range of 2 – 4m with majority of the districts in the state have more than 25% of the wells showing rise in this range. A maximum of 50% of wells in Jharsuguda and a minimum of 2.38% in Boudh district recorded rise in the range of more than 4m.

Fall in water level

Only 9.13% of the wells monitored showed a fall in water level which almost fall in 0-2 m range. The fall in 0-2m (8.43%) range is seen in adequate number of wells in Bargarh, Jagatsinghapur, Ganjam, Kendujhar, Khordha, Mayurbhanj, and Sonapur districts.

In general as it should be, a rise in water level is observed throughout the state during November 2019 with respect to April 2019.

WATER LEVEL FLUCTUATION MAP
APRIL 2019 VS NOVEMBER 2019 **PLATE:7.10**



DISTRICTWISE CATEGORIZATION OF CHANGE IN WATER LEVEL: APRIL 2019 Vs NOVEMBER 2019

TABLE:-7.10

District	No. of Wells analysed	Total No. of Wells		Range				No. and percentage of wells showing											
				Rise (m)		Fall (m)		Rise						Fall					
		Rise	Fall	Min	Max	Min	Max	0 to 2		2 to 4		>4		0 to 2		2 to 4		>4	
ANUGUL	56	53	3	0.05	6.80	0.10	1.00	21	37.50	22	39.29	10	17.86	3	5.36	0		0	
BALANGIR	65	61	4	0.23	5.32	0.01	1.10	29	44.62	27	41.54	5	7.69	4	6.15	0		0	
BALESHWAR	21	21	0	1.00	5.70	-	-	5	23.81	10	47.62	6	28.57	0		0		0	
BARGARH	53	35	17	0.01	5.70	0.18	2.35	16	30.19	13	24.53	6	11.32	16	30.19	1	1.89	0	
BAUDH	42	41	1	0.57	4.98	0.61	0.61	9	21.43	31	73.81	1	2.38	1	2.38	0		0	
BHADRAK	14	14	0	0.45	5.50	-	-	3	21.43	8	57.14	3	21.43	0		0		0	
CUTTACK	59	55	4	0.02	8.75	0.07	0.40	41	69.49	10	16.95	4	6.78	4	6.78	0		0	
DEBAGARH	7	7	0	2.03	6.75	-	-	0		4	57.14	3	42.86	0		0		0	
DHENKANAL	41	40	1	0.19	5.10	0.05	0.05	17	41.46	17	41.46	6	14.63	1	2.44	0		0	
GAJAPATI	26	24	2	0.50	9.50	0.50	0.70	9	34.62	9	34.62	6	23.08	2	7.69	0		0	
GANJAM	66	58	8	0.05	6.05	0.30	1.45	34	51.52	17	25.76	7	10.61	8	12.12	0		0	
JAGATSINGHAPUR	10	8	2	0.50	3.51	0.10	0.29	6	60.00	2	20.00	0		2	20.00	0		0	
JAJAPUR	25	24	1	0.04	2.46	0.18	0.18	18	72.00	6	24.00	0		1	4.00	0		0	
JHARSUGUDA	12	12	0	0.23	5.60	-	-	2	16.67	4	33.33	6	50.00	0		0		0	
KALAHANDI	32	32	0	0.21	6.32	-	-	11	34.38	15	46.88	6	18.75	0		0		0	
KANDHAMAL	14	12	2	0.97	3.04	0.45	4.06	8	57.14	4	28.57	0		1	7.14	0		1	7.14
KENDRAPARA	17	17	0	0.82	2.74	-	-	13	76.47	4	23.53	0		0		0		0	
KENDUJHAR	54	48	6	0.10	4.80	0.05	0.80	29	53.70	15	27.78	4	7.41	6	11.11	0		0	
KHORDHA	55	45	10	0.03	7.10	0.08	2.75	34	61.82	5	9.09	6	10.91	9	16.36	1	1.82	0	
KORAPUT	50	46	4	0.25	6.68	0.54	1.08	14	28.00	21	42.00	11	22.00	4	8.00	0		0	
MALKANGIRI	17	17	0	0.99	7.24	-	-	4	23.53	8	47.06	5	29.41	0		0		0	
MAYURBHANJ	69	52	16	0.15	7.20	0.03	3.85	31	44.93	16	23.19	5	7.25	11	15.94	5	7.25	0	
NABARANGAPUR	24	22	2	0.58	5.04	0.16	1.56	4	16.67	14	58.33	4	16.67	2	8.33	0		0	
NAYAGARH	29	28	1	0.20	7.20	1.45	1.45	10	34.48	12	41.38	6	20.69	1	3.45	0		0	
NUAPADA	17	17	0	0.02	6.01	-	-	8	47.06	7	41.18	2	11.76	0		0		0	
PURI	69	68	1	0.05	4.00	0.05	0.05	54	78.26	14	20.29	0		1	1.45	0		0	
RAYAGADA	17	16	1	0.58	5.49	0.19	0.19	7	41.18	6	35.29	3	17.65	1	5.88	0		0	
SAMBALPUR	63	56	6	0.05	6.28	0.04	1.06	16	25.40	26	41.27	14	22.22	6	9.52	0		0	
SONAPUR	45	33	12	0.43	5.67	0.03	1.12	13	28.89	13	28.89	7	15.56	12	26.67	0		0	
SUNDARGARH	69	68	0	0.02	8.07	-	-	29	42.03	20	28.99	19	27.54	0		0		0	
Total	**1138**	**1030**	**104**	**(2.03)**	**(2.46)**			**495**	**43.49**	**380**	**33.39**	**155**	**13.62**	**96**	**8.43**	**7**	**0.61**	**1**	**0.08**

7.3.3 APRIL 2019– JANUARY 2020

The district-wise categorization of water level fluctuation of January 2020 with respect to April 2019 has been given in **Table 7.11** and has been presented in **Plate 7.11**.

Rise in water level

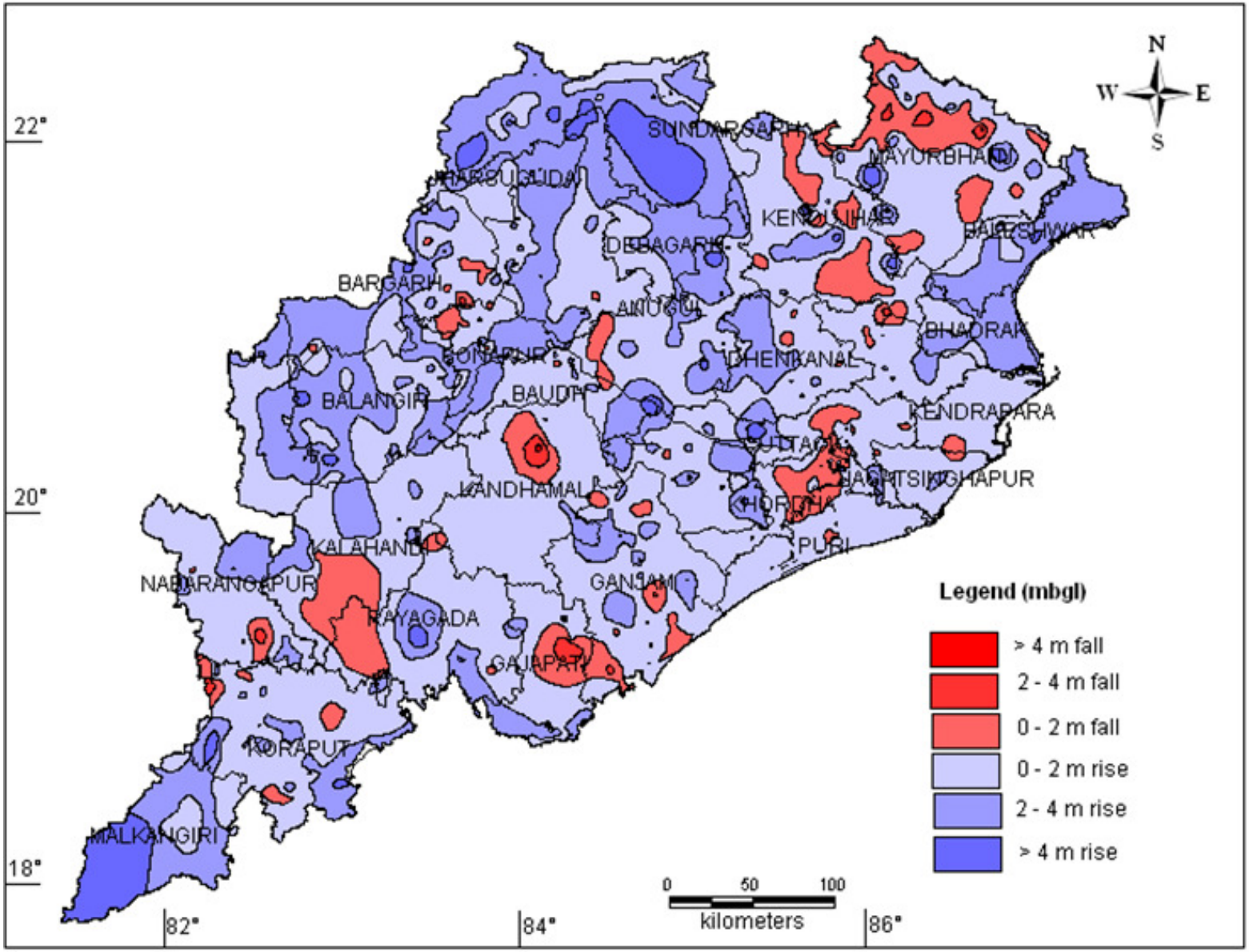
A perusal of the data and map pertaining to January 2020 with reference to April 2019 shows that 81.62 % of total wells show rise in water level. Rise in water level between 0-2m has been observed in 52.52 % of the wells with maximum of 93.75% of wells in kendrapara district and a minimum of 38.46% in Bhadrak district. Wells showing rise in 2-4 m range is 24.56 % and 4.52 % of wells show rise more than 4m.

Fall in water level

16.81% of the wells monitored showed a fall in water level which almost fall in 0-2 m range. The fall in 0-2m (15.41%) range is seen in adequate number of wells in Khordha, Kendujhar, Mayurbhanj, Kalahandi, Jagatsinghapur and Ganjam districts.

In general as it should be, a rise in water level is observed throughout the state during January 2020 with respect to April 2019 and majority of wells recorded 0-4 m rise because of recharge of aquifer due to monsoon rainfall.

WATER LEVEL FLUCTUATION MAP
APRIL 2019 VS JANUARY 2020 **PLATE:7.11**



DISTRICTWISE CATEGORIZATION OF CHANGE IN WATER LEVEL: APRIL 2019 Vs JANUARY 2020

TABLE:-7.11

Districts	No. of Wells analysed	Total No. of Wells		Range of Fluctuation (m)				No. of Wells/Percentage Showing Fluctuation											
								Rise (m)						Fall (m)					
		Rise	Fall	Rise (m)		Fall (m)		0 to 2		2 to 4		> 4		0 to 2		2 to 4		> 4	
				Min	Max	Min	Max	No	%	No	%	No	%	No	%	No	%	No	%
ANUGUL	55	50	4	0.10	6.32	0.08	0.97	26	47.27	19	34.55	5	9.09	4	7.27	0		0	
BALANGIR	66	62	4	0.26	6.26	0.02	1.06	33	50.00	27	40.91	2	3.03	4	6.06	0		0	
BALESHWAR	20	20	0	0.80	4.80	-	-	9	45.00	9	45.00	2	10.00	0		0		0	
BARGARH	54	43	9	0.10	4.45	0.30	3.20	28	51.85	13	24.07	2	3.70	8	14.81	1	1.85	0	
BAUDH	42	40	2	0.10	3.78	0.60	1.20	25	59.52	15	35.71	0		2	4.76	0		0	
BHADRAK	13	13	0	0.05	3.60	-	-	5	38.46	8	61.54	0		0		0		0	
CUTTACK	62	48	13	0.02	6.45	0.02	1.00	39	62.90	8	12.90	1	1.61	13	20.97	0		0	
DEBAGARH	7	7	0	0.70	3.00	-	-	3	42.86	4	57.14	0		0		0		0	
DHENKANAL	41	35	5	0.50	3.60	0.07	2.00	23	56.10	12	29.27	0		5	12.20	0		0	
GAJAPATI	27	25	2	0.02	9.53	0.53	3.30	16	59.26	7	25.93	2	7.41	1	3.70	1	3.70	0	
GANJAM	65	50	15	0.03	4.47	0.02	2.57	37	56.92	11	16.92	2	3.08	13	20.00	2	3.08	0	
JAGATSINGHAPUR	9	7	2	0.24	2.53	0.35	1.02	6	66.67	1	11.11	0		2	22.22	0		0	
JAJAPUR	25	22	3	0.16	3.18	0.18	0.38	18	72.00	4	16.00	0		3	12.00	0		0	
JHARSUGUDA	14	14	0	0.43	4.20	-	-	6	42.86	7	50.00	1	7.14	0		0		0	
KALAHANDI	31	24	7	0.13	5.73	0.07	1.09	16	51.61	7	22.58	1	3.23	7	22.58	0		0	
KANDHAMAL	15	13	2	0.37	2.15	0.95	4.40	11	73.33	2	13.33	0		1	6.67	0		1	6.67
KENDRAPARA	16	16	0	0.65	2.47	-	-	15	93.75	1	6.25	0		0		0		0	
KENDUJHAR	53	33	18	0.15	5.30	0.10	2.95	22	41.51	8	15.09	3	5.66	17	32.08	1	1.89	0	
KHORDHA	54	24	30	0.01	6.20	0.05	3.20	21	38.89	1	1.85	2	3.70	29	53.70	1	1.85	0	
KORAPUT	55	46	9	0.03	5.31	0.09	2.82	29	52.73	13	23.64	4	7.27	8	14.55	1	1.82	0	
MALKANGIRI	17	17	0	0.58	5.31	-	-	9	52.94	7	41.18	1	5.88	0		0		0	
MAYURBHANJ	67	38	28	0.20	8.10	0.10	4.40	27	40.30	7	10.45	4	5.97	22	32.84	5	7.46	1	1.49
NABARANGAPUR	24	21	3	0.20	4.06	0.19	2.98	13	54.17	7	29.17	1	4.17	2	8.33	1	4.17	0	
NAYAGARH	30	25	4	0.30	4.80	0.03	2.50	12	40.00	11	36.67	2	6.67	3	10.00	1	3.33	0	
NUAPADA	21	20	1	0.02	5.29	0.12	0.12	9	42.86	10	47.62	1	4.76	1	4.76	0		0	
PURI	68	53	10	0.05	2.18	0.10	0.90	52	76.47	1	1.47	0		10	14.71	0		0	
RAYAGADA	18	16	2	0.23	4.99	0.44	0.67	10	55.56	4	22.22	2	11.11	2	11.11	0		0	
SAMBALPUR	64	58	5	0.05	4.52	0.15	0.50	31	48.44	25	39.06	2	3.13	5	7.81	0		0	
SONAPUR	46	37	8	0.05	5.23	0.10	1.10	21	45.65	13	28.26	3	6.52	8	17.39	0		0	
SUNDARGARH	69	60	7	0.05	6.77	0.02	0.17	31	44.93	20	28.99	9	13.04	7	10.14	0		0	
Total	**1148**	**937**	**193**	**(0.80)**	**(2.15)**	**0.00**	**4.40**	**603**	**52.52**	**282**	**24.56**	**52**	**4.52**	**177**	**15.41**	**14**	**1.21**	**2**	**0.17**

7.4 WATER LEVEL FLUCTUATION WITH RESTPECT TO DECADAL MEAN

7.4.1 APRIL 2019 – DECADAL MEAN (APR 2009 – APR 2018)

The district-wise categorisation of change in water level in April-2019 with respect to the decadal mean (April 2009 to April 2018) has been given in **Table-7.12** and rise and fall map has been presented in **Plate-7.12**.

Fall in water level

A perusal of the data and map pertaining to April 2019 with reference to decadal mean (2009-2018) shows fall in water level is observed in 33.38% of the total wells in the state. 30.27% of the wells have shown fall in the 0-2m range. It varies from minimum of 7.41% of wells in Khordha district to a maximum of 64.29% of wells in Baragarh district. Almost all the districts have shown water level in this range. The range of 2-4m fall in water level has been observed in 2.78% of the state. The maximum is in Rayagada district (9.09%). A fall of more than 4m have been observed only in 0.32% of the total NHS monitored in the state.

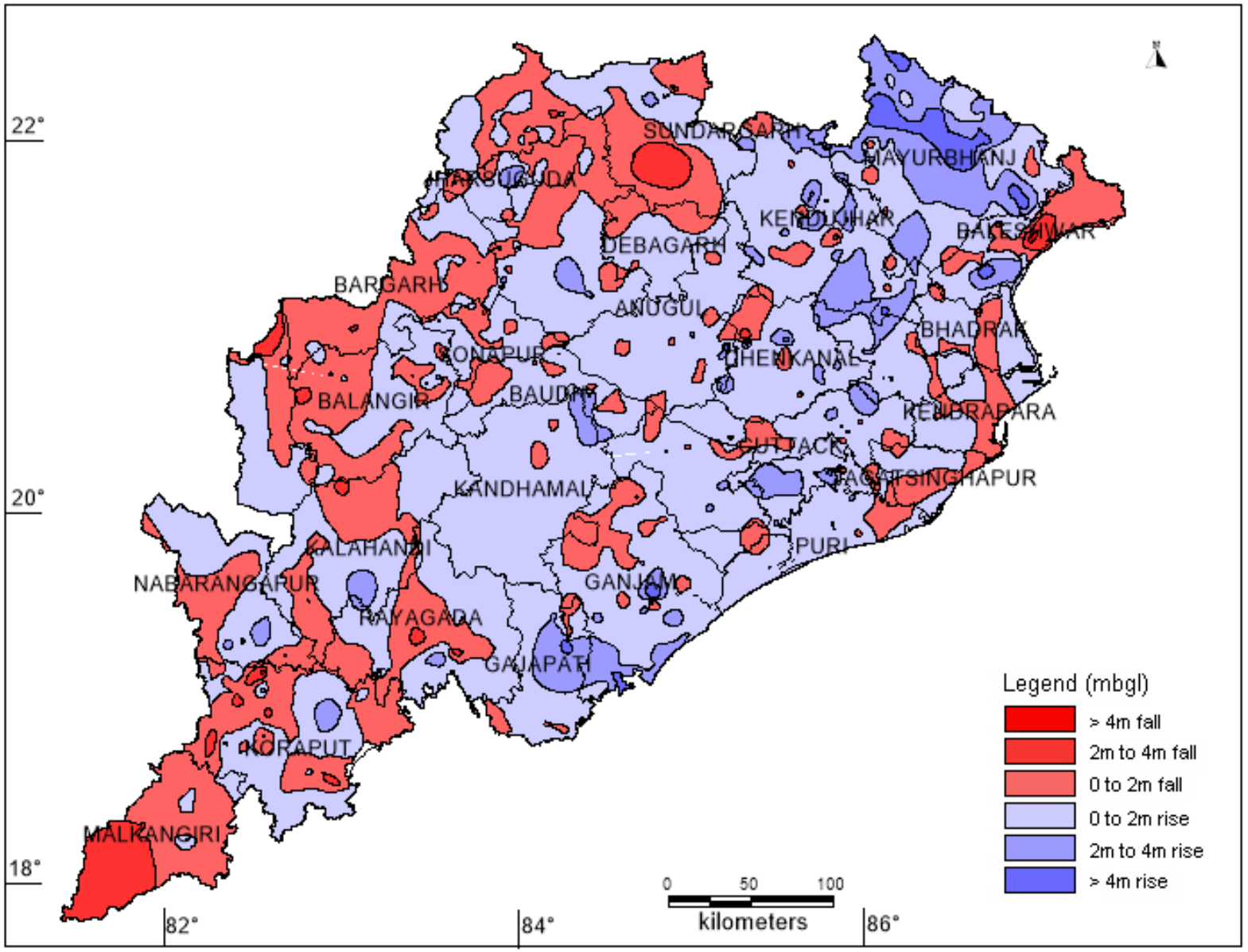
Rise in water level

A perusal of the data and map pertaining to April 2019 with reference to Decadal mean (2009-2018) shows that 66.61% of total NHS wells in the state shows rise in water level. Rise in water level between 0-2m has been observed in 54.25% of the network stations in the state. It varies from minimum of 31.58% Malkangiri to a maximum of 80.00% in Kandhamal district. All the districts have recorded rise of water level in this range. The rise in water level between the range of 2-4m has been noticed in 10.06 % of wells mainly in the districts of Mayurbhanj(39.19%), Kendujhar(28.57%), Jajapur(25.93%) Ganjam (15.94%) and Nayagarh(15.15%).

In general a rise has been recorded in water level of April 2019 when compared with the decadal mean (April 2009-2018).

WATER LEVEL FLUCTUATION MAP **PLATE 7.12**

DECADAL MEAN PREMONSOON (2009-2018) VS PREMONSOON 2019



DISTRICT WISE CATEGORIZATION OF CHANGE IN WATER LEVEL: DECADAL MEAN PRE MONSOON (2009-2018) Vs PRE MONSOON- 2019

TABLE:-7.12

DISTRICT	No. of Wells	No. of Wells showing		Range				No. of Wells/Percentage Showing Fluctuation											
								Rise (m)						Fall (m)					
				Rise (m)		Fall (m)		0 -2 m		2 - 4 m		>4 m		0 -2 m		2 - 4 m		>4 m	
		Rise	Fall	Min	Max	Min	Max	No	%	No	%	No	%	No	%	No	%	No	%
ANUGUL	55	43	12	0.02	7.07	0.03	0.83	39	70.91	3	5.45	1	1.82	12	21.82	0		0	
BALANGIR	68	34	34	0.04	3.10	0.01	2.51	31	45.59	3	4.41	0		32	47.06	2	2.94	0	
BALESHWAR	26	15	11	0.15	5.35	0.07	4.78	13	50.00	1	3.85	1	3.85	9	34.62	1	3.85	1	3.85
BARGARH	56	19	37	0.02	1.81	0.13	2.12	19	33.93	0		0		36	64.29	1	1.79	0	
BAUDH	48	35	13	0.02	3.89	0.02	1.80	29	60.42	6	12.50	0		13	27.08	0		0	
BHADRAK	16	9	7	0.07	1.60	0.01	0.82	9	56.25	0		0		7	43.75	0		0	
CUTTACK	63	50	13	0.03	3.18	0.05	1.17	46	73.02	4	6.35	0		13	20.63	0		0	
DEBAGARH	7	4	3	0.08	1.10	-	0.30	4	57.14	0		0		3	42.86	0		0	
DHENKANAL	41	34	7	0.05	4.68	0.07	2.90	27	65.85	4	9.76	3	7.32	6	14.63	1	2.44	0	
GAJAPATI	27	18	9	0.03	4.44	0.07	2.32	16	59.26	1	3.70	1	3.70	7	25.93	2	7.41	0	
GANJAM	69	52	17	0.19	6.07	0.01	2.33	38	55.07	11	15.94	3	4.35	15	21.74	2	2.90	0	
JAGATSINGHAPUR	12	6	6	0.12	1.91	0.01	2.20	6	50.00	0		0		5	41.67	1	8.33	0	
JAJAPUR	27	23	4	0.07	2.60	0.02	0.44	16	59.26	7	25.93	0		4	14.81	0		0	
JHARSUGUDA	16	7	9	0.14	3.94	0.16	2.16	5	31.25	2	12.50	0		8	50.00	1	6.25	0	
KALAHANDI	34	17	17	0.02	3.73	0.03	3.42	15	44.12	2	5.88	0		15	44.12	2	5.88	0	
KANDHAMAL	15	13	2	0.10	2.80	0.25	0.40	12	80.00	1	6.67	0		2	13.33	0		0	
KENDRAPARA	18	11	7	0.04	1.28	0.02	0.74	11	61.11	0		0		7	38.89	0		0	
KENDUJHAR	63	53	10	0.04	4.89	0.13	2.53	30	47.62	18	28.57	5	7.94	9	14.29	1	1.59	0	
KHORDHA	54	48	6	0.07	5.77	0.13	4.05	40	74.07	6	11.11	2	3.70	4	7.41	1	1.85	1	1.85
KORAPUT	57	28	29	0.02	3.90	0.25	4.49	24	42.11	4	7.02	0		21	36.84	7	2.28	1	1.75
MALKANGIRI	19	7	12	0.01	2.21	0.11	3.25	6	31.58	1	5.26	0		9	47.37	3	5.79	0	
MAYURBHANJ	74	67	7	0.10	5.67	0.08	1.55	26	35.14	29	39.19	12	16.22	7	9.46	0		0	
NABARANGAPUR	25	14	11	0.07	3.26	0.20	1.85	11	44.00	3	12.00	0		11	44.00	0		0	
NAYAGARH	33	28	5	0.02	3.07	0.13	0.42	23	69.70	5	15.15	0		5	15.15	0		0	
NUAPADA	21	10	11	0.08	2.12	0.06	4.27	9	42.86	1	4.76	0		9	42.86	1	4.76	1	4.76
PURI	69	51	18	.00	2.27	0.01	0.85	48	69.57	3	4.35	0		18	26.09	0		0	
RAYAGADA	22	12	10	0.12	3.14	0.13	3.02	11	50.00	1	4.55	0		8	36.36	2	9.09	0	
SAMBALPUR	69	42	27	.00	3.59	0.06	2.98	38	55.07	4	5.80	0		26	37.68	1	1.45	0	
SONAPUR	48	18	30	0.20	3.98	0.03	2.80	16	33.33	2	4.17	0		28	58.33	2	4.17	0	
SUNDARGARH	70	46	24	0.07	3.77	0.02	3.77	45	64.29	1	1.43	0		21	30.00	3	4.29	0	
Total	1222	814	408	1.10	0.20	0.00	4.78	663		123		28		370		34		4	

7.2.2 AUGUST 2019 - DECADAL MEAN (AUGUST 2009 - 2018)

The district-wise categorisation of change in water level during August -2019 with respect to the decadal mean (August-2009- August-2018) has been given in **Table 7.13** and presented in **Plate 7.13.**

Rise in water level

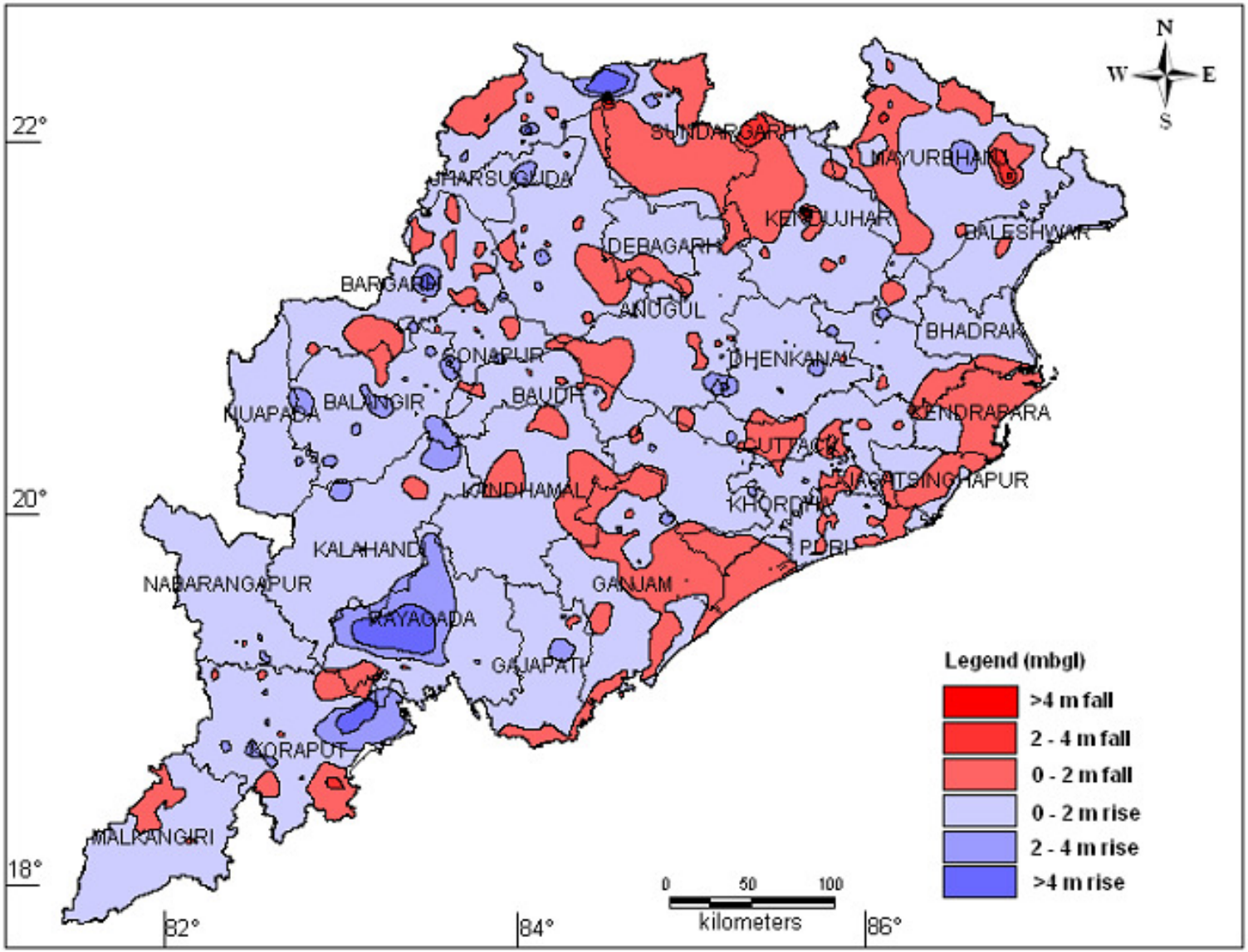
A perusal of the data and map pertaining to August 2019 with reference to decadal mean (2009-18) shows that rise in water level between 0-2m has been observed in 69% of the network stations in the state. All the districts have recorded rise of water level in this range. Rise in water level between the range of 2-4m has been noticed in 5.36% wells in isolated locations and more than 4m have been observed in 1.1% of wells.

Fall in water level

Fall in water level is seen in patches mostly in the hard rock and hilly terrain of the state. Fall in water level between 0-2 m has been observed in 23.18% of the network monitoring wells in the state. Fall in water level between the range of 2-4m has been observed in 0.867% of network wells in the state. Fall in water level of more 4m, is 0.236% of the total wells in the state.

In general a rise has been recorded in water level of August 2019 when compared with the decadal mean (August 2009-2018). It can be safely concluded that variation in water level is not due to over development; rather the water levels reflect the variation of rainfall in space and time.

WATER LEVEL FLUCTUATION MAP
DECADAL MEAN AUGUST (2009-2018) VS AUGUST 2019 **PLATE:7.13**



DISTRICT WISE CATEGORIZATION OF CHANGE IN WATER LEVEL: DECADAL MEAN AUGUST (2009-2018) Vs AUGUST 2019

TABLE:-7.13

DISTRICT	No. of Well analysed	No. of wells showing		Range				No. of Wells/Percentage Showing Fluctuation											
				Rise (m)		Fall (m)		Rise						Fall					
								0 - 2 m		2 - 4 m		>4 m		0 - 2 m		2 - 4 m		>4 m	
		Rise	Fall	Min	Max	Min	Max	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
ANUGUL	59	44	15	0.03	4.53	0.11	1.51	38	64.41	5	8.47	1	1.69	15	25.42	0		0	
BALANGIR	73	68	5	0.03	4.02	0.02	1.06	57	78.08	10	13.70	1	1.37	5	6.85	0		0	
BALESHWAR	18	17	1	0.12	1.99	0.73	0.73	17	94.44	0		0		1	5.56	0		0	
BARGARH	67	42	24	.00	6.03	0.01	1.47	39	58.21	2	2.99	1	1.49	24	35.82	0		0	
BAUDH	45	38	7	0.01	2.84	0.14	0.93	36	80.00	2	4.44	0		7	15.56	0		0	
BHADRAK	14	14	0	0.20	1.62	-	-	14	100.00	0		0		0		0		0	
CUTTACK	63	46	17	.00	3.32	0.04	1.77	45	71.43	1	1.59	0		17	26.98	0		0	
DEBAGARH	9	7	2	0.10	1.73	0.34	0.83	7	77.78	0		0		2	22.22	0		0	
DHENKANAL	43	39	4	0.02	3.68	0.03	0.29	37	86.05	2	4.65	0		4	9.30	0		0	
GAJAPATI	28	16	12	0.31	2.99	0.02	1.73	14	50.00	2	7.14	0		12	42.86	0		0	
GANJAM	75	39	36	0.03	4.38	0.01	2.10	36	48.00	2	2.67	1	1.33	35	46.67	1	1.33	0	
JAGATSINGHAPUR	10	6	4	0.05	1.08	0.03	1.92	6	60.00	0		0		4	40.00	0		0	
JAJAPUR	25	22	3	0.14	2.79	0.74	2.12	20	80.00	2	8.00	0		2	8.00	1	4.00	0	
JHARSUGUDA	13	12	1	0.24	3.83	0.11	0.11	11	84.62	1	7.69	0		1	7.69	0		0	
KALAHANDI	35	34	1	0.07	3.73	1.28	1.28	31	88.57	3	8.57	0		1	2.86	0		0	
KANDHAMAL	16	7	9	0.15	1.58	0.03	1.68	7	43.75	0		0		9	56.25	0		0	
KENDRAPARA	16	11	5	0.08	0.64	0.21	1.18	11	68.75	0		0		5	31.25	0		0	
KENDUJHAR	59	44	15	0.01	2.74	0.15	6.50	43	72.88	1	1.69	0		13	22.03	1	1.69	1	1.69
KHORDHA	64	40	24	0.02	3.23	0.02	3.29	38	59.38	2	3.13	0		22	34.38	2	3.13	0	
KORAPUT	62	50	12	0.03	5.71	0.19	3.32	39	62.90	7	11.29	4	6.45	10	16.13	2	3.23	0	
MALKANGIRI	21	16	4	0.11	1.33	0.36	0.88	16	76.19	0		0		4	19.05	0		0	
MAYURBHANJ	71	45	26	0.06	2.65	0.02	4.68	41	57.75	4	5.63	0		23	32.39	2	2.82	1	1.41
NABARANGAPUR	26	24	2	.00	3.60	0.02	0.25	19	73.08	5	19.23	0		2	7.69	0		0	
NAYAGARH	38	37	1	0.01	3.05	0.49	0.49	32	84.21	5	13.16	0		1	2.63	0		0	
NUAPADA	22	22	0	0.60	2.67	-	-	21	95.45	1	4.55	0		0		0		0	
PURI	74	49	25	0.02	2.24	0.05	1.60	48	64.86	1	1.35	0		25	33.78	0		0	
RAYAGADA	22	18	4	0.06	7.03	0.01	1.63	13	59.09	3	13.64	2	9.09	4	18.18	0		0	
SAMBALPUR	71	50	21	0.01	4.16	0.01	1.78	46	64.79	3	4.23	1		21	29.58	0		0	
SONAPUR	50	38	12	0.04	2.74	0.04	1.19	36	72.00	2	4.00	0		12	24.00	0		0	
SUNDARGARH	79	62	16	-	9.04	0.20	5.59	57	72.15	2	2.53	3	3.80	13	16.46	2	2.53	1	1.27
Total	**1268**	**957**	**308**	**0.64**	**0.60**	**0.00**	**6.50**	**875**	**69.0**	**68**	**5.36**	**14**	**1.1**	**294**	**23.18**	**11**	**.86**	**3**	**.23**

7.2.3 NOVEMBER 2019 - DECADAL MEAN (NOVEMBER 2009 - 2018)

The district-wise categorizations of change in water level during November-2019 with respect to the decadal mean (November 2009- November-2018) has been given in **Table 7.14** and presented in **Plate 7.14.**

Rise in water level

A perusal of the data and map pertaining to November 2019 with reference to decadal mean (2009-18) shows that rise in water can be observed in 63.74% wells. Rise in water level between 0-2m has been observed in 59.32% of the network stations in the state. All the districts have recorded rise of water level in this range. Rise in water level between the ranges of 2-4m has been noticed in 4.26% wells in isolated locations and more than 4m have been observed in 0.16% of wells.

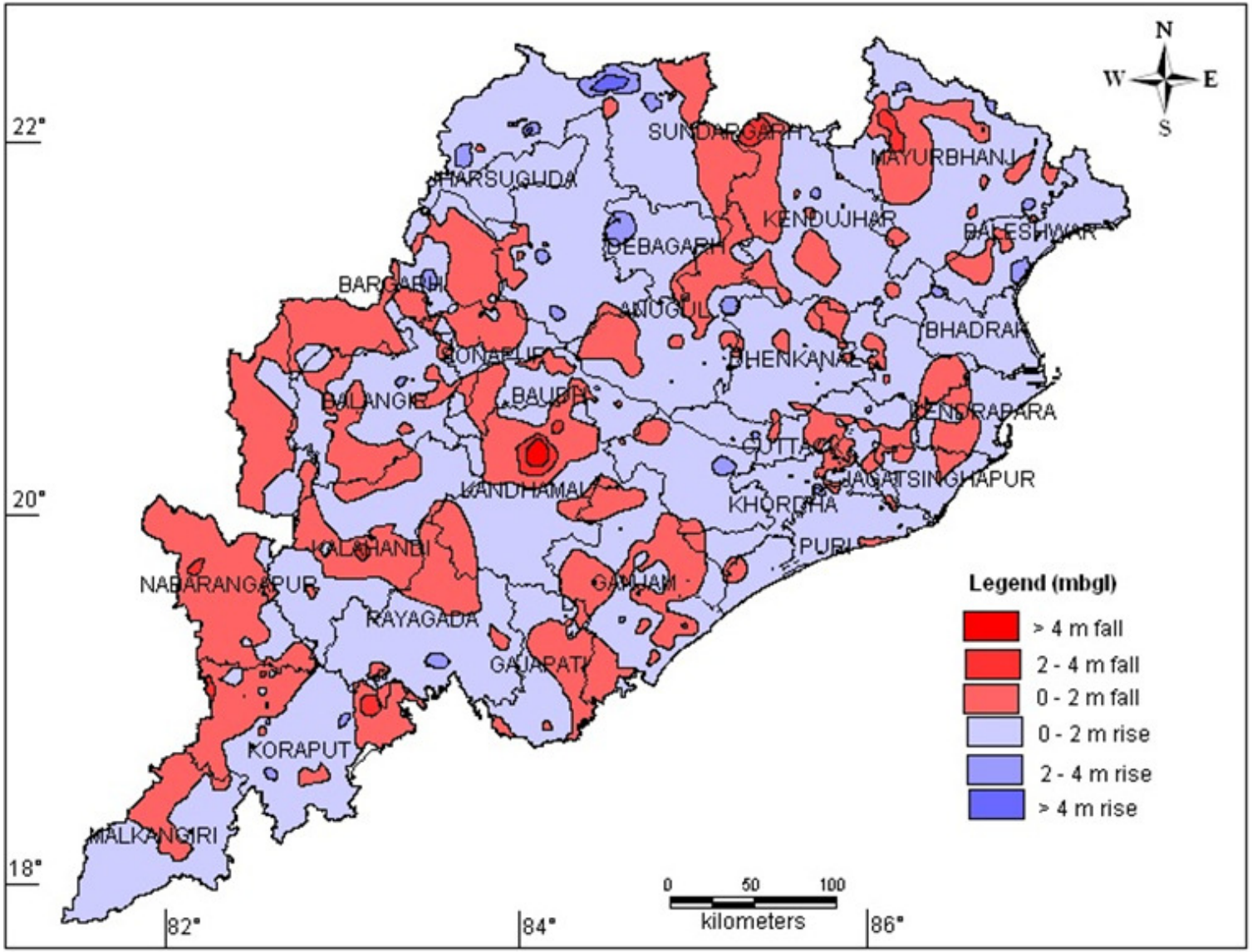
Fall in water level

Fall in water level is seen in all districts and can be observed in 36.25% of wells of the state. Fall in water level between 0-2 m has been observed in 34.08% of the network monitoring wells in the state. Fall in water level between the ranges of 2-4m has been observed in 2.09% of network wells in the state which occur in patches. Fall in water level of more than 4m is present only in 1 well with 0.08% of the total wells in the state.

In general a rise in water level of November 2019 when compared with the decadal mean (November 2009-2018). It can be concluded that variation in water level is due to development as well as variation of rainfall in space and time.

WATER LEVEL FLUCTUATION MAP **PLATE:7.14**

DECADAL MEAN NOVEMBER (2009-2018) VS NOVEMBER 2019



DISTRICT WISE CATEGORIZATION OF CHANGE IN WATER LEVEL: DECADAL MEAN NOVEMBER (2009-2018) Vs NOVEMBER 2019

TABLE 7.14

District	No. of Wells analysed	No. of Wells showing		Range				No. and percentage of wells showing											
				Rise (m)		Fall (m)		Rise (m)						Fall (m)					
								0 to 2		2 to 4		>4		0 to 2		2 to 4		>4	
		Rise	Fall	Min	Max	Min	Max	No	%	No	%	No	%	No	%	No	%	No	%
ANUGUL	59	31	28	0.15	3.86	0.01	2.35	27	45.76	4	6.78	0		27	45.76	1	1.69	0	
BALANGIR	72	42	30	0.10	2.99	0.05	2.08	39	54.17	3	4.17	0		29	40.28	1	1.39	0	
BALESHWAR	24	18	6	0.04	2.98	0.07	1.08	16	66.67	2	8.33	0		6	25.00	0		0	
BARGARH	62	19	43	.00	3.81	0.02	3.01	17	27.42	2	3.23	0		41	66.13	2	3.23	0	
BAUDH	44	28	16	0.07	2.23	0.00	1.78	27	61.36	1	2.27	0		16	36.36	0		0	
BHADRAK	14	13	1	0.25	2.66	0.01	0.01	11	78.57	2	14.29	0		1	7.14	0		0	
CUTTACK	61	41	20	0.01	2.56	0.02	1.38	37	60.66	4	6.56	0		20	32.79	0		0	
DEBAGARH	9	8	1	0.42	3.76	0.05	0.05	7	77.78	1	11.11	0		1	11.11	0		0	
DHENKANAL	44	33	11	0.05	3.07	0.02	0.73	31	70.45	2	4.55	0		11	25.00	0		0	
GAJAPATI	30	18	12	0.16	2.44	0.01	1.98	16	53.33	2	6.67	0		12	40.00	0		0	
GANJAM	76	43	33	0.03	2.19	0.01	2.30	41	53.95	2	2.63	0		30	39.47	3	3.95	0	
JAGATSINGHAPUR	12	7	5	0.03	0.82	0.09	2.40	7	58.33	0		0		4	33.33	1	8.33	0	
JAJAPUR	28	19	9	0.07	1.48	0.29	2.70	19	67.86	0		0		8	28.57	1	3.57	0	
JHARSUGUDA	12	12	0	0.10	1.66	-	-	12	100.00	0		0		0		0		0	
KALAHANDI	33	18	15	0.02	1.27	0.01	2.91	18	54.55	0		0		14	42.42	1	3.03	0	
KANDHAMAL	14	7	7	0.09	1.81	0.07	7.44	7	50.00	0		0		5	35.71	1	7.14	1	7.14
KENDRAPARA	19	13	6	0.13	1.39	0.02	0.79	13	68.42	0		0		6	31.58	0		0	
KENDUJHAR	57	41	16	0.02	2.67	0.02	2.73	39	68.42	2	3.51	0		15	26.32	1	1.75	0	
KHORDHA	63	32	31	0.06	3.68	0.00	2.79	27	42.86	5	7.94	0		28	44.44	3	4.76	0	
KORAPUT	54	35	19	0.02	3.14	0.12	3.56	32	59.26	3	5.56	0		16	29.63	3	5.56	0	
MALKANGIRI	19	11	8	0.15	1.00	0.04	2.04	11	57.89	0		0		7	36.84	1	5.26	0	
MAYURBHANJ	71	47	24	0.03	3.40	0.01	3.75	43	60.56	4	5.63	0		21	29.58	3	4.23	0	
NABARANGAPUR	25	5	20	0.17	1.01	0.02	2.56	5	20.00	0		0		18	72.00	2	8.00	0	
NAYAGARH	37	34	3	0.13	2.96	0.07	1.55	33	89.19	1	2.70	0		3	8.11	0		0	
NUAPADA	17	9	8	0.07	1.07	0.04	1.22	9	52.94	0		0		8	47.06	0		0	
PURI	73	60	13	0.10	3.14	0.01	2.90	56	76.71	4	5.48	0		12	16.44	1	1.37	0	
RAYAGADA	17	15	2	0.13	2.68	0.34	0.53	14	82.35	1	5.88	0		2	11.76	0		0	
SAMBALPUR	71	51	20	0.04	3.56	0.01	2.56	48	67.61	3	4.23	0		19	26.76	1	1.41	0	
SONAPUR	48	18	30	0.02	1.20	0.02	1.97	18	37.50	0		0		30	62.50	0		0	
SUNDARGARH	79	65	14	0.01	8.16	0.05	1.96	58	73.42	5	6.33	2	2.53	14	17.72	0		0	
Total	**1244**	**793**	**451**	**0.82**	**0.42**	**0.00**	**7.44**	**738**	**59.32**	**53**	**4.26**	**2**	**0.16**	**424**	**34.08**	**26**	**2.09**	**1**	**0.08**

7.2.4 JANUARY 2020 - DECADAL MEAN (JANUARY 2010 - 2019)

The district-wise categorisation of change in water level during January -2020 with respect to the decadal mean (2010 - 2019) has been given in **Table 7.15** and presented in **Plate 7.15.**

Rise in water level

A perusal of the data and map pertaining to January 2020 with reference to decadal mean (2010-19) shows that rise in water level between 0-2m has been observed in 68.06% of the network stations in the state. All the districts have recorded rise of water level in this range. Rise in water level between the ranges of 2-4m has been noticed in 5.84% wells in isolated locations and more than 4m have been observed in 0.47% of wells.

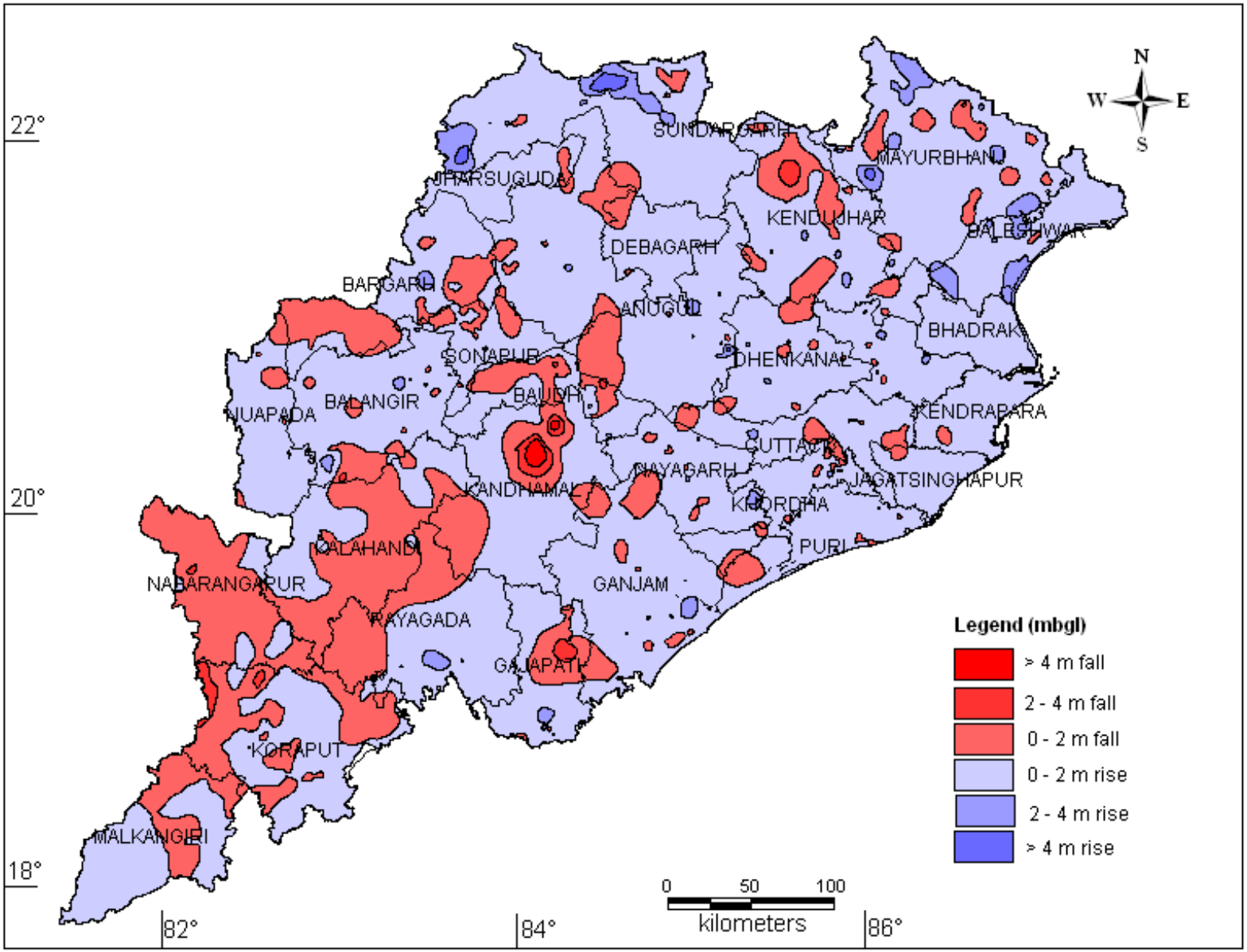
Fall in water level

Fall in water level is seen in patches mostly in the hard rock and hilly terrain of the state. Fall in water level between 0-2 m has been observed in 24.11% of the network monitoring wells in the state. Fall in water level between the ranges of 2-4m has been observed in 1.26% of network wells in the state. Fall in water level of more 4m, is 0.158% of the total wells in the state.

In general a rise has been recorded in water level of January 2020 when compared with the decadal mean (2010-2019). It can be safely concluded that variation in water level is not due to over development; rather the water levels reflect the variation of rainfall in space and time.

WATER LEVEL FLUCTUATION MAP **PLATE:7.15**

DECADAL MEAN JANUARY (2010-2019) VS JANUARY 2020



DISTRICT WISE CATEGORIZATION OF CHANGE IN WATER LEVEL: DECADAL MEAN JANUARY (2010-2019) VS JANUARY 2020

TABLE 7.15

District	No. of Wells analysed	Total No. of Wells		Range of Fluctuation				No. of Wells/Percentage Showing Fluctuation											
				Rise (m)		Fall (m)		Rise (m)						Fall (m)					
		Rise	Fall	Min	Max	Min	Max	0 to 2		2 to 4		>4		0 to 2		2 to 4		>4	
								No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
ANUGUL	58	54	4	0.05	4.65	0.13	1.69	47	81.03	5	8.62	2	3.45	4	6.90	0		0	
BALANGIR	74	57	17	0.01	3.44	0.03	2.65	50	67.57	7	9.46	0		16	21.62	1	1.35	0	
BALESHWAR	25	23	2	0.13	3.78	0.00	0.50	16	64.00	7	28.00	0		2	8.00	0		0	
BARGARH	63	35	28	0.07	3.29	0.01	1.97	34	53.97	1	1.59	0		28	44.44	0		0	
BAUDH	45	25	20	0.01	2.24	0.01	2.55	23	51.11	2	4.44	0		18	40.00	2	4.44	0	
BHADRAK	13	11	2	0.46	1.94	0.02	0.02	11	84.62	0		0		2	15.38	0		0	
CUTTACK	64	54	10	0.10	2.75	0.02	0.88	51	79.69	3	4.69	0		10	15.63	0		0	
DEBAGARH	9	7	2	0.54	1.88	0.09	0.19	7	77.78	0		0		2	22.22	0		0	
DHENKANAL	44	36	8	0.14	3.14	0.17	1.26	33	75.00	3	6.82	0		8	18.18	0		0	
GAJAPATI	32	26	6	0.03	5.69	0.57	3.03	23	71.88	2	6.25	1	3.13	5	15.63	1	3.13	0	
GANJAM	75	59	16	0.03	3.91	0.02	1.73	57	76.00	2	2.67	0		16	21.33	0		0	
JAGATSINGHAPUR	11	10	1	0.08	1.03	1.48	1.48	10	90.91	0		0		1	9.09	0		0	
JAJAPUR	27	24	3	0.10	2.57	0.25	1.36	20	74.07	4	14.81	0		3	11.11	0		0	
JHARSUGUDA	14	13	1	0.10	1.69	0.40	0.40	13	92.86	0		0		1	7.14	0		0	
KALAHANDI	32	18	14	0.01	1.19	0.04	2.03	18	56.25	0		0		13	40.63	1	3.13	0	
KANDHAMAL	15	10	5	0.05	1.08	0.07	7.05	10	66.67	0		0		3	20.00	0		2	13.33
KENDRAPARA	17	15	2	0.22	1.39	0.04	0.17	15	88.24	0		0		2	11.76	0		0	
KENDUJHAR	57	38	19	0.05	2.71	0.02	3.41	34	59.65	4	7.02	0		18	31.58	1	1.75	0	
KHORDHA	63	43	19	0.01	3.98	0.03	3.77	38	60.32	5	7.94	0		17	26.98	2	3.17	0	
KORAPUT	59	29	30	0.02	2.09	0.01	3.59	27	45.76	2	3.39	0		27	45.76	3	5.08	0	
MALKANGIRI	18	10	8	0.05	1.07	0.04	0.79	10	55.56	0		0		8	44.44	0		0	
MAYURBHANJ	73	54	19	0.05	5.15	0.11	2.51	40	54.79	13	17.81	1	1.37	16	21.92	3	4.11	0	
NABARANGAPUR	25	6	19	0.01	0.73	0.03	2.31	6	24.00	0		0		18	72.00	1	4.00	0	
NAYAGARH	37	30	7	0.02	2.99	0.08	0.48	25	67.57	5	13.51	0		7	18.92	0		0	
NUAPADA	22	18	4	0.17	1.47	0.07	1.40	18	81.82	0		0		4	18.18	0		0	
PURI	76	66	10	.00	2.10	0.06	2.17	65	85.53	1	1.32	0		9	11.84	1	1.32	0	
RAYAGADA	18	15	3	0.01	2.95	0.06	0.67	14	77.78	1	5.56	0		3	16.67	0		0	
SAMBALPUR	73	58	15	0.04	2.16	0.19	1.71	57	78.08	1	1.37	0		15	20.55	0		0	
SONAPUR	48	30	18	0.01	1.93	0.02	1.15	30	62.50	0		0		18	37.50	0		0	
SUNDARGARH	78	67	11	0.02	8.59	0.06	1.07	59	75.64	6	7.69	2	2.56	11	14.10	0		0	
Total	**1265**	**941**	**323**	**0.73**	**0.54**	**0.00**	**7.05**	**861**	**68.06**	**74**	**5.84**	**6**	**0.47**	**305**	**24.11**	**16**	**1.26**	**2**	**0.158**

8.0 GROUNDWATER QUALITY OF ODISHA

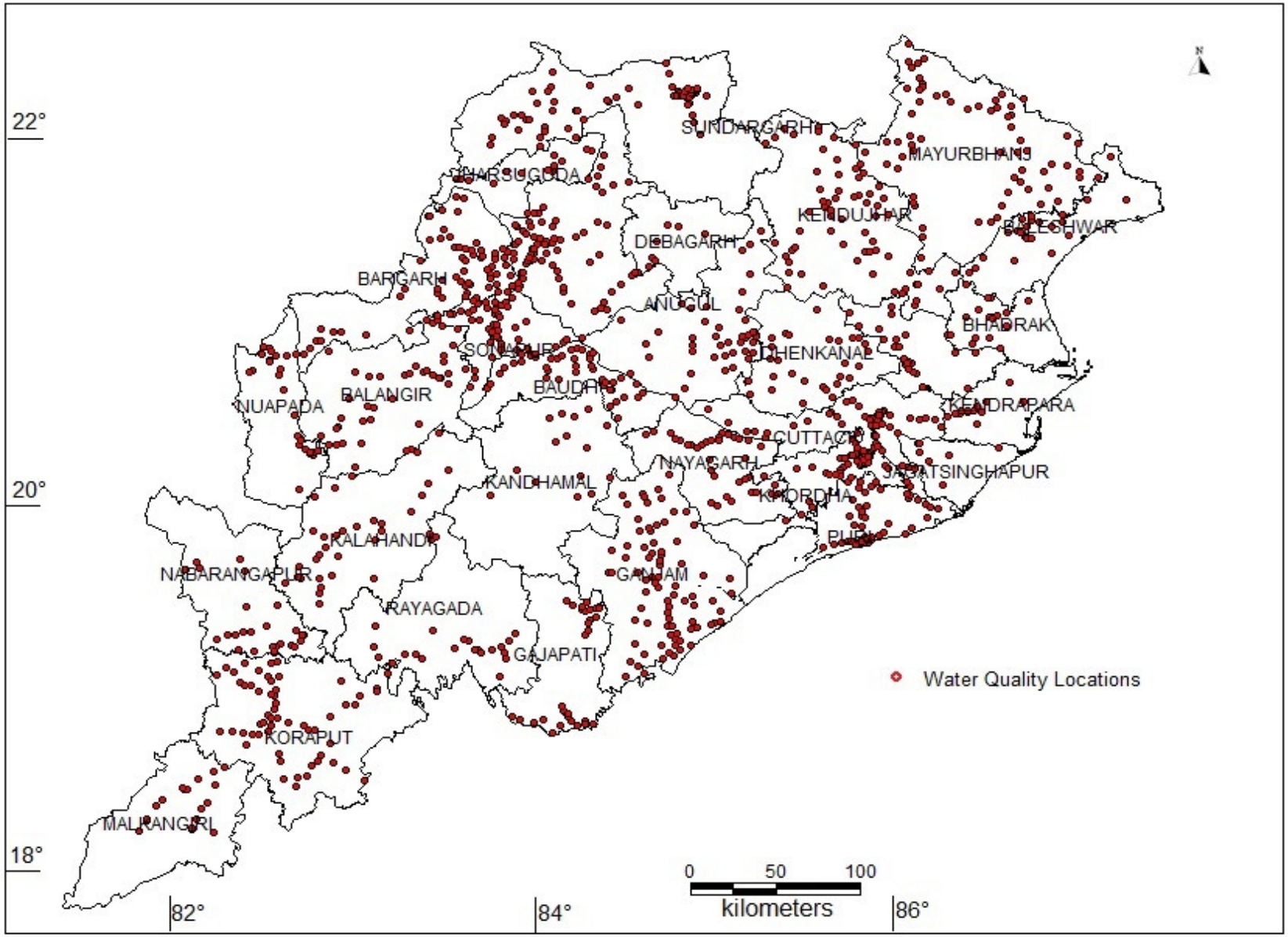
The chemical quality of ground water of Odisha has been evaluated by chemically analyzing water samples collected from National Hydrograph Network Stations (NHNS) during the month of April. The water samples for these purposes were collected in clean 1.0 litre polyethylene bottles after rinsing 2 to 3 times with the water samples to be collected. Various chemical constituents present in ground water samples were analyzed at the Regional Chemical Laboratory, Central Ground Water Board, South Eastern Region, Bhubaneswar, as per standard methods available.

Groundwater quality is assessed by analysing 1241 no's of samples collected from National Hydrograph Stations located in the state of Odisha during April 2018. District wise collection of sample during April-2018 is given in **Table 8.1.** The samples were analysed for 14 parameters namely pH, Electrical Conductivity (EC), Total Dissolved Solids (TDS), Total Hardness (TH), Alkalinity, Calcium (Ca), Magnesium (Mg), Sodium (Na), Potassium (K), Carbonate (CO_3), Bicarbonate (HCO_3), Chloride (Cl), Sulphate (SO_4), and Fluoride (F) as per standard procedures laid down in APHA (23rd Edition). The suitability of groundwater is assessed for drinking purposes as per BIS (IS 10500:2012). The parameters like Sodium Adsorption Ratio (SAR), Residual Sodium Carbonate **(**RSC) and Sodium percent (% Na) calculated and are taken into consideration for assessing the samples for suitability in irrigation practices.

DISTRICTWISE ANALYSIS OF NHS WATER SAMPLES (APRIL- 2018) **TABLE-8.1**

Sl.No	Districts	No. of Samples	Sl.No	Districts	No. of Samples
1	Angul	45	16	Kandhamal	17
2	Balangir	42	17	Kendrapara	18
3	Balasore	26	18	Kendujhar	64
4	Bargarh	68	19	Khordha	60
5	Bhadrak	21	20	Koraput	62
6	Boudh	47	21	Malkangiri	21
7	Cuttack	60	22	Mayurbhanj	75
8	Deogarh	8	23	Nabarangpur	27
9	Dhenkanal	31	24	Nayagarh	39
10	Gajapati	32	25	Nuapada	27
11	Ganjam	81	26	Puri	62
12	Jagatsinghpur	7	27	Rayagada	22
13	Jajpur	28	28	Sambalpur	79
14	Jharsuguda	14	29	Sonepur	52
15	Kalahandi	38	30	Sundargarh	68
Total					**1241**

LOCATION MAP OF GROUNDWATER SAMPLING SITES OF ODISHA **PLATE-8.1**



Groundwater quality of the state is found to vary widely, depending upon the physiography, soil texture and underlain soil formations. The shallow aquifer of inland zone is mostly fresh and dominated by Ca-Mg- HCO_3 and mixed types of water. In the coastal plain where most of the wells are located in alluvium, the quality is relatively saline. Groundwater from the state is slightly acidic to alkaline in nature with pH in the range of 6.46-8.78. Electrical Conductivity varies from 55-5770 µ Siemens/cm at 25°C. The highest value of Electrical conductivity (5770 µSiemens/cm) has been found in Kenduapada village in Bhadrak district. Ranges of different Physico-Chemical parameters of Groundwater of Odisha is shown in the **Table 8.2**.

RANGES OF PHYSICO-CHEMICAL PARAMETERS OF GROUNDWATER OF ODISHA (APRIL-2018)

TABLE-8.2

Parameters	Minimum	Maximum	Mean
pH	6.46	8.78	7.83
EC µ S/cm at 25° C	55	5770	696
TDS, mg/l	30	2766	358
THmg/l as $CaCO_3$	20	1945	215
TAmg/l as $CaCO_3$	15	765	179
Ca^{++}mg/l	0	497	44
Mg^{++}mg/l	0	345	26
Na^{+}mg/l	0	820	50
K^{+}mg/l	0	332	13
$CO_3^{=}$mg/l	0	88	1.26
HCO_3^{-}mg/l	18	933	216
Cl^{-}mg/l	0	1753	92
$SO_4^{=}$ mg/l	0	434	26
F^{-} mg/l	0.02	3.94	0.4

8.1.1 DISTRIBUTION OF ELECTRICAL CONDUCTIVITY

The chemical quality of ground water of shallow wells in the state is found to vary widely, depending upon the physiography, soil texture and underlain soil formations. The shallow aquifer of inland zone is mostly fresh and relatively saline for coastal plain where most of the wells are located in alluvium. These aquifers at places are of high electrical conductivity (E.C.) and chloride concentration.

Some of the locations having high values of E.C. are incorporated in **Table 8.3.**

LOCATION OF WELLS HAVING HIGH ELECTRICAL CONDUCTIVITY (E.C. > 2000µS/cm)

TABLE 8.3

Sl. No.	DISTRICT_NAME	SITE_NAME	EC in µS/cm
1	Bhadrak	Kenduapada	5770
2	Ganjam	Digapahandi	4450
3	Dhenkanal	Kandarsingha	4420
4	Nuapada	Komna	3740
5	Sonepur	Metkani	3720
6	Bargarh	Attabira 1	3470
7	Sambalpur	Sahaspur	3310
8	Jagatsinghpur	Bhutmundi	3140
9	Khordha	Odakhanda	3050
10	Kalahandi	Sunamala	3030
11	Kalahandi	Badbasul	2970
12	Ganjam	Suramani	2950
13	Angul	Kulad	2880
14	Bargarh	Gaisilet3	2880
15	Ganjam	Jakara	2650
16	Puri	Krupasindurapatna	2600
17	Ganjam	Chikiti	2550
18	Ganjam	K.S.Nagar	2530
19	Kendrapara	Jamdhar	2510
20	Angul	Bhogabereni	2440
21	Nuapada	Loharpalli	2410
22	Bargarh	Grinjal	2310
23	Angul	Barhabahal	2210
24	Ganjam	Kalamb	2200
25	Puri	Alipada	2175
26	Bhadrak	Tihidi	2150
27	Ganjam	Huma	2100

8.1.2 DISTRIBUTION OF TOTAL DISSOLVED SOLIDS

The distribution of Total Dissolved Solids (TDS) in the state varies from 30 to 2766 mg/l with an average 358 mg/l. The maximum value of TDS has been found in the well of Kenduapada in Bhadrak district. The distribution of TDS in shallow aquifer of Odisha is given in **Plate 8.2**. The TDS is within the range of 500 mg/l in northern and southern part of Odisha whereas TDS within the range of 500 – 2000 mg/l is found in patches all over the state except 3 locations where TDS is more than 2000 mg/l and the details are given below:

Sl.No.	Districts	Villages	TDS mg/l
1	Bhadrak	Kenduapada	2766
2	Ganjam	Digapahandi	2560
3	Dhenkanal	Kandarsingha	2335

8.1.3 DISTRIBUTION OF CHLORIDE

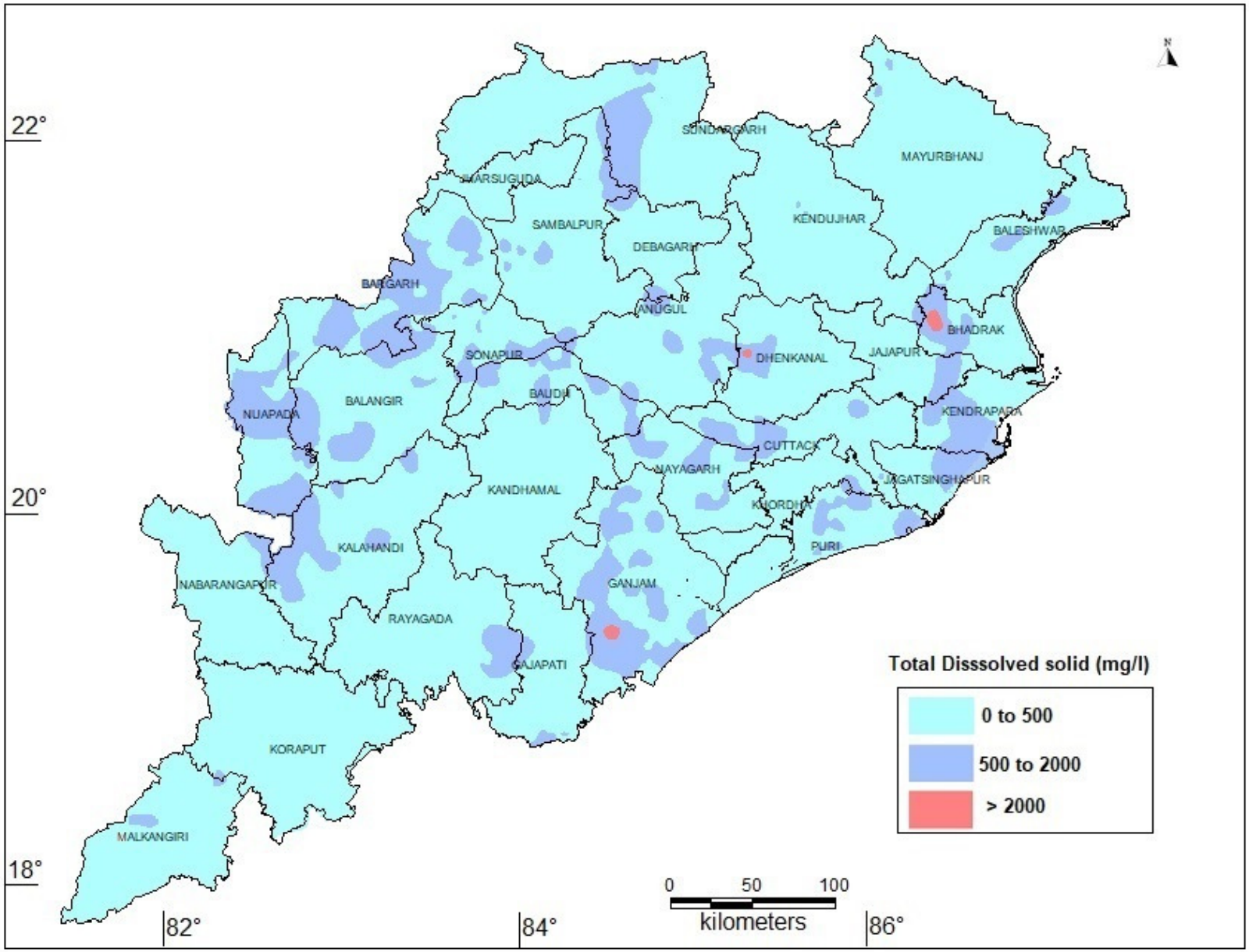
The distribution of Chloride (Cl^-) in the state varies from 0 to 1753 mg/l with an average 92 mg/l. The maximum value of Chloride has been found in Kenduapada village in Bhadrak district. The distribution of Chloride in shallow aquifer of Odisha is given in **Plate 8.3**. The distribution of chloride in the state is within the 1000 mg/l except 4 locations where the Chloride is more than 1000 mg/l and the details are given below:

Sl.No.	Districts	Villages	Cl^- mg/l
1	Bhadrak	Kenduapada	1753
2	Dhenkanal	Kandarsingha	1410
3	Ganjam	Digapahandi	1314
4	Sonepur	Metkani	1065

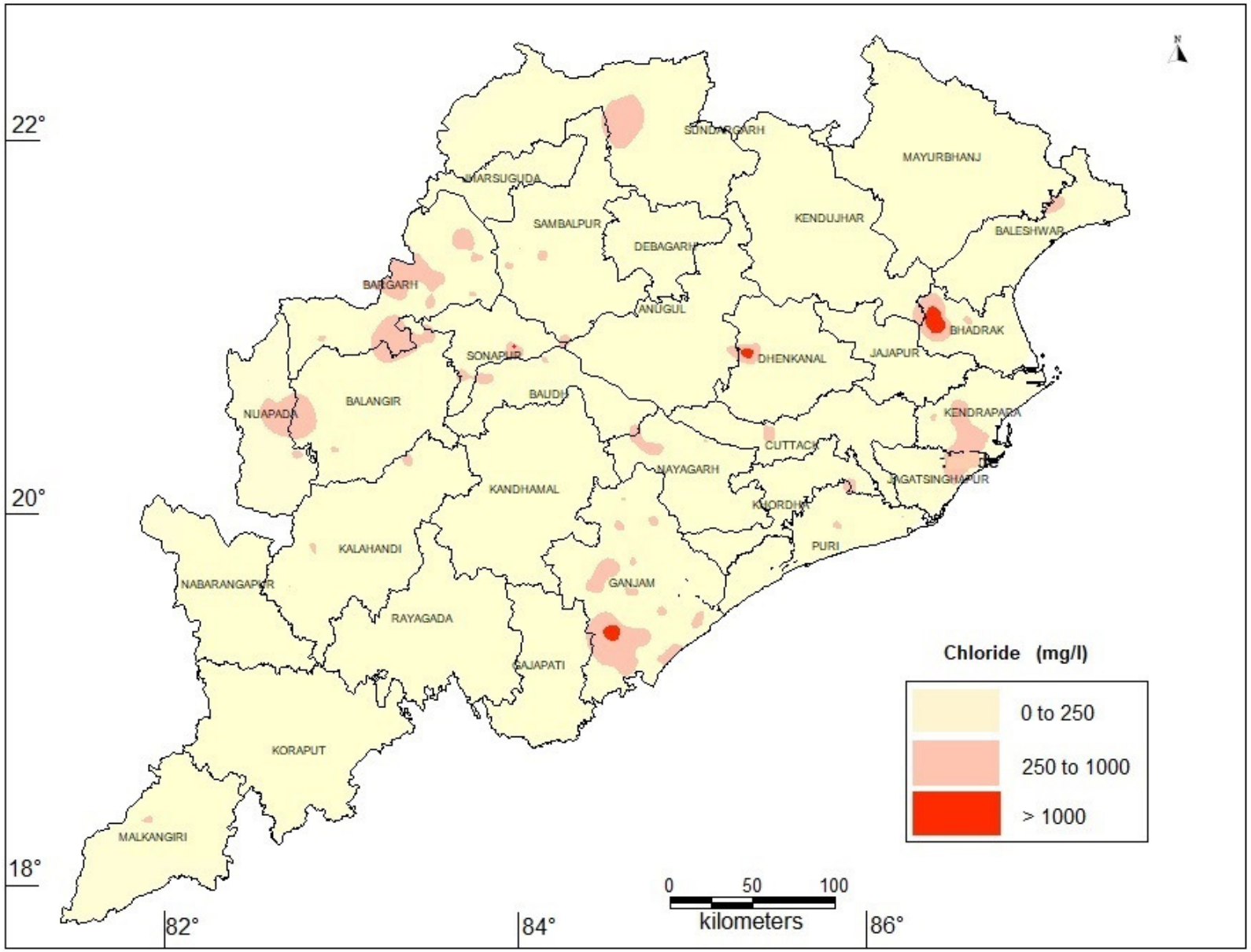
8.1.4 DISTRIBUTION OF FLUORIDE

The distribution of Fluoride (F^-) in the state varies from 0.02 to 3.94 mg/l with an average 0.4 mg/l. The maximum value of Fluoride has been found in the well of Kukurang in Anugul district. The distribution of Fluoride in shallow aquifer of Odisha is given in **Plate 8.4**.

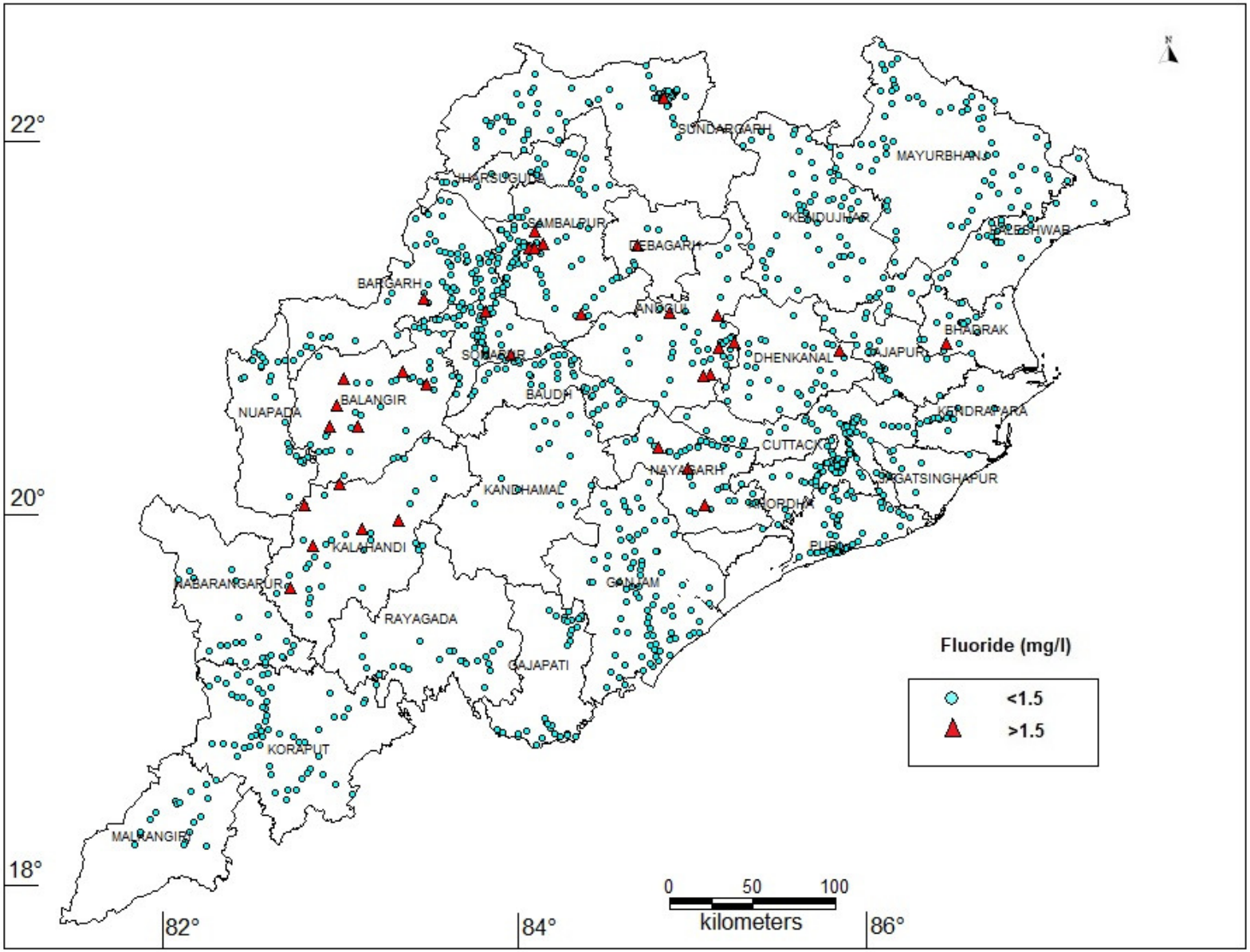
DISTRIBUTION OF TOTAL DISSOLVED SOLIDS IN SHALLOW AQUIFER OF ODISHA (APRIL 2018) **PLATE 8.2**



DISTRIBUTION OF CHLORIDE IN SHALLOW AQUIFER OF ODISHA (APRIL 2018) **PLATE 8.3**



DISTRIBUTION OF FLUORIDE IN SHALLOW AQUIFER OF ODISHA (APRIL 2018) **PLATE 8.4**



8.2 ASSESSMENT OF GROUNDWATER QUALITY FOR DRINKING

The analysis of the water samples (APRIL-2018) were used to assess the suitability for drinking purposes by comparing with that of the drinking water specification of Bureau of Indian Standards (IS 10500:2012). The suitability of the ground water samples collected from shallow aquifers for drinking purposes with reference to chemical parameters is presented in **Table 8.4.**

STATUS OF GROUNDWATER OF ODISHA FOR DRINKING PURPOSE
(IS-10500: 2012)

TABLE 8.4

Sl.No.	Parameters	Number of Samples (%)		
		Suitable	Acceptable	Unsuitable
1	pH	1223 (98.55%)	-	18 (1.45%)
2	TDS, mg/l	983 (79.21%)	255 (20.55%)	3 (0.24%)
3	TH mg/l as $CaCO_3$	695 (56.00%)	528 (42.55%)	18 (1.45%)
4	TA mg/l as $CaCO_3$	827 (66.64%)	407 (32.80%)	7 (0.56%)
5	Ca^{++} mg/l	1121 (90.33%)	115 (9.27%)	5 (0.40%)
6	Mg^{++} mg/l	870 (70.10%)	371 (29.90%)	0
7	Cl^- mg/l	1155 (93.07%)	82 (6.61%)	4 (0.32%)
8	$SO_4^=$ mg/l	1238 (99.76%)	2 (0.16%)	1 (0.08%)
9	F^- mg/l	1152 (92.83%)	52 (4.19%)	37 (2.98%)
10	OVERALL	600 (48.35%)	566 (45.61%)	75 (6.04%)

Out of 1241 samples, 98.5% of sample are having pH between 6.5 and 8.5 and are suitable for drinking when compared with the drinking water specification of Bureau of Indian Standards (IS 10500:2012).The highest pH value was found to be 8.78 at Basanti Colony, Rourkela of Sundargarh district and is unfit for drinking purposes. There are 18 such samples which are unfit for drinking purposes in the state.

Total Dissolved Solid (TDS) in 79.2% of total samples are suitable for drinking purposes whereas only 3 samples are unfit as per drinking water specification of Bureau of Indian Standards (IS 10500:2012). The remaining 255 samples, the TDS varies between 500 to 2000 mg/l and may be used for drinking purposes in absence of alternate sources.

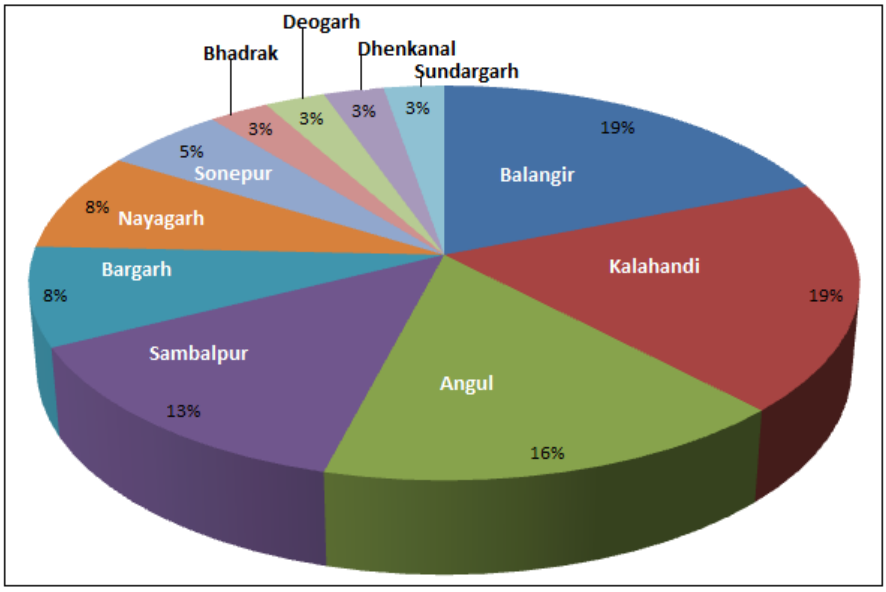
The Total Alkalinity ($CaCO_3$) of groundwater samples varies between 15 to 765 mg/l. Around 66.6% of samples are within the acceptable limit of drinking water specification of Bureau of Indian Standards (IS 10500:2012)where as 0.6% of samples in the state exceeds the maximum permissible limit and are not suitable for drinking purposes.

Chloride content in 93.0% of samples in the state are within the acceptable limit of drinking water specification of Bureau of Indian Standards (IS 10500:2012) and may be used for drinking purposes and only 4 number of samples in the state exceeds the BIS maximum permissible limit and are not suitable for drinking purposes.

Fluoride content in the state varies between 0.02 and 3.94 mg/l and maximum concentration is detected at Kukurang of Angul district. 2.98% of samples in the state exceed the maximum permissible limit of drinking water specification of Bureau of Indian Standards (IS 10500:2012) and not suitable for drinking purposes.

Out of 30 districts, 11 are affected with high fluoride content in groundwater in the state of Odisha. The test results of samples collected from NHS during 2018 showed that, Balangir, Kalahandi and Angul districts are most affected with the high fluoride content and are unfit for drinking purposes.

Pie chart on distribution of high fluoride (>1.5 mg/l) in the groundwater of Odisha (NHS-2018)



During April 2018,1241 nos of groundwater samples were assessed for drinking and irrigation purposes in the state of Odisha. Based on the drinking water specification of BIS (IS 10500:2012), out of these samples 600 (48.3%) samples are suitable for drinking purposes while 45.61% samples are accepted for drinking purposes in absence of alternate sources and remaining 6.04% are not suitable for drinking purposes. The ground water not fit for drinking is may be due to high values of pH, alkalinity, chloride , fluoride and total dissolved solids.

8.3 ASSESSMENT OF GROUNDWATER QUALITY FOR IRRIGATION

The most extensive use of ground water in the world is for the irrigation consumption. The chemical quality of ground water is an important factor to be considered in evaluating its usefulness for irrigation as poor-quality ground water may cause salinity, specific ion toxicity, infiltration problem in soils. Such effect may adversely affect crop production. Water quality constraints in irrigation can be examined using a number of empirical indices that have been established on the basis of field experience and experiments. The parameters like Sodium Adsorption Ratio (SAR), Residual Sodium Carbonate **(**RSC) and Sodium percent (% Na) are calculated and are taken into consideration for assessing the samples for suitability in irrigation practices.

Range of Irrigation Water Quality Indices of Odisha (NHS, 2018)

Indices	Min	Max	Mean
SAR	**0**	**14.97**	**1.43**
RSC	**-37.22**	**11.11**	**-0.73**
%Na	**0**	**87.08**	**28.08**

Sodium Adsorption Ratio (SAR) is a very important property of water from its irrigation application point of view. The sodium (Na^+), Calcium (Ca^{++}) and Magnesium (Mg^{++}) ions are important for determining SAR value of water. SAR of water is calculated by the following equation given by Richard (1954) as:

$$SAR = \frac{Na^+}{\sqrt{\frac{Ca^{++} + Mg^{++}}{2}}}$$

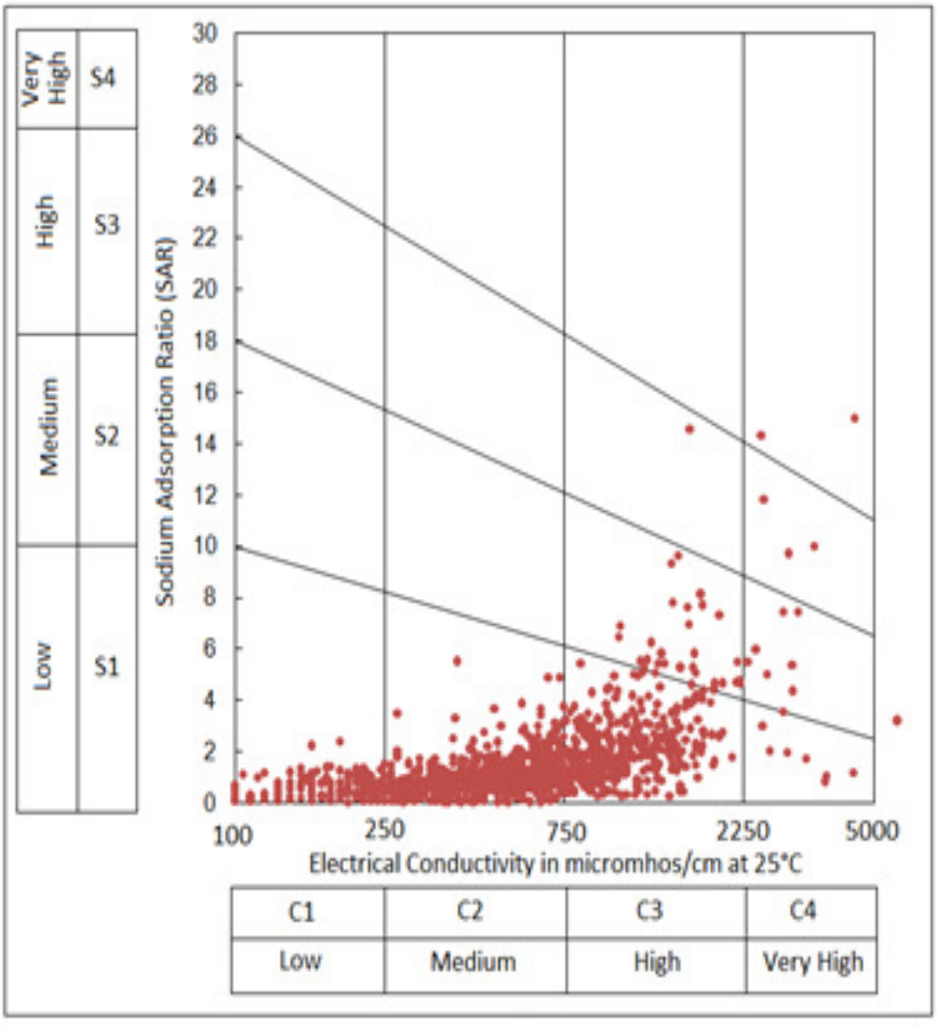
Where all the ions are expressed in mq/l.

There is a significant relationship between SAR values of irrigation water and the extent to which sodium is absorbed by the soil. Sodium replacing adsorbed calcium and magnesium is a hazard that damage soil structure as indicated by the high SAR. The U.S. Salinity Laboratory (USSL) diagram was used to classify the waters for irrigation (Richard, 1954). In the USSL diagram, Electrical Conductivity (EC) is taken as the salinity hazard and SAR as the alkalinity hazard. These two parameters are important to assess the quality of water for irrigation in USSL diagram. Salinity hazard of groundwater of Odisha according to Electrical Conductivity is given in **Table 8.5** andClassification of Groundwater of Odisha on the basis of Sodium Adsorption Ratio is given in **Table: 8.6.**

SALINITY HAZARD OF GROUNDWATER OF ODISHA ACCORDING TO ELECTRICAL CONDUCTIVITY

TABLE: 8.5

Water Class	Range of EC in µS/cm	Salinity significance		Percentage of samples (No of Samples)
C1	<250	Low salinity water	Most crops on most soils	13.8% (172)
C2	250-750	Medium salinity water	Plants with moderate salt tolerance	53.6% (665)
C3	750-2250	High salinity water	Plants with good salt tolerance, special management for salinity control	30.8% (382)
C4	>2250	Very high salinity water	Not suitable for irrigation	1.8% (22)



U.S. SALINITY DIAGRAM OF GROUNDWATER OF ODISHA

CLASSIFICATION OF GROUNDWATER OF ODISHA ON THE BASIS OF SODIUM ADSORPTION RATIO

TABLE: 8.6

Parameter	Range	Class	Water classification	Percentage of samples
Sodium Adsorption Ratio (SAR)	<10	S1	Excellent	99.7%
	10-18	S2	Good	0.3%
	18-26	S3	Fair	0
	>26	S4	Poor	0

The USSL diagram shows that most of the samples fall under the C2S1 category, indicating medium salinity and low alkali hazard and C3S1 quality with a high salinity hazard with low sodium hazard. These groundwater sources (C2S1) can be used to irrigate all types of soils with little danger of exchangeable sodium and C3S1 groundwater sources can be suitable for plants having good salt tolerance and it thus restricts their suitability for irrigation especially to soils with a restricted drainage. There are few samples with very high salinity and from low SAR to very high SAR indicating not suitable for irrigation purposes. Also two samples fall under C4S4 class and one sample (Kenduapada, Bhadrak district) having EC (5770 µS/cm) beyond permissible limit, hence are not suitable for irrigation.

LOCATIONS HAVING SAR VALUES GREATER THAN 10 WITH THEIR EC IN µS/CM AT 25°C VALUES

TABLE 8.7

Sl.No.	District	Village	SAR	EC in µS/cm at 25°C
1	Ganjam	Digapahandi	14.97	4450
2	Kendrapara	Daliji	14.57	1620
3	Kendrapara	Jamdhar	14.31	2510
4	Ganjam	Chikiti	11.80	2550

Residual Sodium Carbonate (RSC)

The RSC is defined as the excess of carbonate and bicarbonate amount over the alkaline earths ($Ca^{++}$and Mg^{++}). Use of RSC beyond permissible limit (>2.5) adversely affects irrigation. The tendency of $Ca^{++}$and $Mg^{++}$to precipitate, as the water in the soil becomes more concentrated, as a result of evaporation and plant transpiration, and gets fixed in the soil by the process of base exchange, thereby decreasing the soil permeability.

$$\mathbf{RSC = (CO_3^{2-} + HCO_3^{-}) - (Ca^{++} + Mg^{++})}$$

Where concentrations are in meq/l.

Distribution of ground water in the state as per RSC is given in**Table 8.8** and itshows that majority of samples (92.26%) fall in Safe category (RSC < 1.25), 3.54 % samples in the doubtful category and remaining 4.2% samples in the Unsuitable category and are not suitable for irrigation purposes.

CLASSIFICATION OF GROUNDWATER OF ODISHA ON THE BASIS OF RSC **TABLE 8.8**

Parameter	Range	Water classification	No of samples (%)
RSC	<1.25	Good	1145 (92.26%)
	1.25-2.5	Doubtful	44 (3.54%)
	>2.5	Unsuitable	52 (4.2%)

Percent Sodium (%Na)

Sodium percent is a parameter used to evaluate fitness of water for irrigation purposes and therefore is a vital component in classifying irrigation water. Irrigation water containing large amounts of Na^+ is of special concern due to sodium's effects on the soil, leading to salinity hazard. Excess Na^+ in water produces the undesirable effects of changing soil properties and reducing soil permeability. The following formula is used for calculating the percent sodium (%Na):

$$\% \text{ Na } = \frac{Na^+}{Ca^{2+}+Mg^{2+}+Na^+ +K^+}$$

The % Na was found upto 87.08% with an average 28.08% in the state. Out of 1241 tested samples, 373 are found to be excellent while 631 samples are under good to permissible category. 194 samples fall under permissible to doubtful and only 43 samples fall in the doubtful/unsuitable categories.

Parameter	Ranges	Water classification	No of samples
%Na	<20%	Excellent to good	373
	20-40	Good to permissible	631
	40-60	Permissible to doubtful	194
	60-80	Doubtful to unsuitable	39
	>80%	Unsuitable	4

LOCATIONS HAVING %Na GREATER THAN 80%

Sl No	District	Village	%Na
1	Kendrapara	Daliji	87.08
2	Kendrapara	Jamdhar	83.01
3	Jagatsinghpur	Balikuda	82.00
4	Jajpur	Baruda	80.14

It is found that 92.3% (1145) samples were suitable for irrigation purposes based on the test results of NHNS-2018 by taking into consideration of USSL diagram, Sodium Adsorption Ratio (SAR), Residual Sodium Carbonate **(**RSC), and Sodium percent (% Na) of the groundwater samples. In total 56 samples out of 1241 are not suitable for irrigation purposes and may be due to high RSC and %Na values and 40 samples are doubtful for irrigation use.

ANNEXURE - I

GENERAL DETAILS OF NHS WELLS IN ODISHA				
ANUGUL				
BLOCK_NAME	**LATITUDE**	**LONGITUDE**	**SITE_NAME**	**SITE_TYPE**
ANUGUL	20°43'16" N	84°52'10" E	Jagannathpur	Dug Well
ANUGUL	20°35'54" N	84°47'15" E	Tikarpara-ii	Dug Well
ANUGUL	20°38'45" N	84°50'10" E	Purnakot	Dug Well
ANUGUL	20°35'54" N	84°47'15" E	Tikarpara	Dug Well
ANUGUL	20°48'12" N	85°0'28" E	Panchmahala-Ii	Bore Well
ANUGUL	20°44'30" N	85°3'56" E	Bantala-Ii	Bore Well
ANUGUL	20°49'31" N	84°58'25" E	Maratira	Bore Well
ANUGUL	20°50'18" N	85°2'8" E	Derjung	Bore Well
ANUGUL	20°52'48" N	85°10'4" E	Jarpada Pz	Bore Well
ANUGUL	20°45'18" N	85°6'0" E	Barhabahal	Dug Well
ANUGUL	20°44'35" N	85°3'47" E	Bantala	Dug Well
ANUGUL	20°49'22" N	85°3'33" E	Panchmahala	Dug Well
ANUGUL	20°48'50" N	84°59'58" E	Tubey	Dug Well
ATHMALLIK	20°53'7" N	84°37'22" E	Tileswar	Dug Well
ATHMALLIK	20°43'19" N	84°31'53" E	Athamallik 2	Dug Well
ATHMALLIK	20°48'48" N	84°38'5" E	Thakurgarh 1	Dug Well
BANARPAL	20°53'50" N	85°8'54" E	Kukurang	Dug Well
BANARPAL	20°53'27" N	85°4'52" E	Kuio	Dug Well
BANARPAL	20°48'13" N	85°11'12" E	Tulsipal	Dug Well
BANARPAL	20°50'20" N	85°5'58" E	Angul1	Dug Well
BANARPAL	20°53'30" N	85°12'50" E	Bhogabereni	Dug Well
BANARPAL	20°50'56" N	85°10'8" E	Amna	Dug Well
BANARPAL	20°50'10" N	85°10'10" E	Kulnara1	Dug Well
BANARPAL	20°50'30" N	85°12'58" E	Banarpal1	Dug Well
BANARPAL	20°41'15" N	85°11'8" E	Mahidharpur	Dug Well
CHHENDIPADA	20°54'24" N	84°49'14" E	Katada	Dug Well
CHHENDIPADA	20°55'5" N	84°52'58" E	Durgapur 1	Dug Well
CHHENDIPADA	21°0'27" N	84°56'56" E	Kosala1	Dug Well
CHHENDIPADA	21°6'25" N	84°48'57" E	Bagharia	Dug Well
CHHENDIPADA	21°4'54" N	84°52'18" E	Chendipada1	Dug Well
CHHENDIPADA	20°55'35" N	85°0'15" E	Nisa	Dug Well
CHHENDIPADA	20°52'35" N	84°52'55" E	Jharpada	Dug Well
CHHENDIPADA	20°50'48" N	84°52'45" E	Ugi	Dug Well
KANIHA	21°11'55" N	84°58'56" E	Nialu	Dug Well
KANIHA	21°5'25" N	84°57'9" E	Sana Santrabandha	Dug Well
KANIHA	21°6'33" N	84°59'19" E	Balipeta	Dug Well
KANIHA	21°5'24" N	84°59'52" E	Luhamunda	Dug Well
KANIHA	21°10'32" N	85°9'23" E	Seepur	Bore Well
KANIHA	21°1'3" N	85°10'28" E	Goribandha	Bore Well
KANIHA	21°8'22" N	85°10'4" E	Pabitranagar pz	Bore Well
KANIHA	21°4'20" N	85°8'30" E	Samal	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
KISHORENAGAR	20°57'13" N	84°41'14" E	Handpa 1	Dug Well
KISHORENAGAR	20°52'48" N	85°10'4" E	Handpa-Ii	Bore Well
KISHORENAGAR	20°58'8" N	84°39'3" E	Boinda-Ii	Bore Well
PALALAHADA	21°30'2" N	85°15'26" E	Jamardihi	Dug Well
PALALAHADA	21°15'58" N	85°11'48" E	Khamar-1	Dug Well
PALALAHADA	21°23'40" N	85°9'4" E	Srirampur	Dug Well
PALALAHADA	21°15'58" N	85°12'4" E	Khamar-Ii	Bore Well
PALALAHADA	21°25'45" N	85°11'33" E	Pallahara1	Dug Well
PALALAHADA	21°25'54" N	85°11'45" E	Pallahara	Bore Well
TALACHER	20°57'29" N	85°0'36" E	Bhalugadia	Dug Well
TALACHER	20°56'7" N	85°11'20" E	Ghantapada	Dug Well
TALACHER	20°57'12" N	85°13'19" E	Chauliakata	Dug Well
TALACHER	20°55'40" N	85°9'34" E	South Balanda	Dug Well
TALACHER	20°53'12" N	85°13'9" E	Chainpal	Bore Well
TALACHER	20°55'10" N	85°10'23" E	Tentulai	Dug Well
TALACHER	20°56'55" N	85°12'52" E	Talcher1	Dug Well
TALACHER	20°55'32" N	85°14'0" E	Sendhogram	Dug Well
TALACHER	20°58'35" N	85°1'35" E	Kumunda 1	Dug Well
TALACHER	21°1'10" N	85°10'10" E	Godibandha	Dug Well
TALACHER	20°55'39" N	85°9'28" E	Balanda	Dug Well

BALANGIR				
BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
AGALPUR	21°0'44" N	83°24'25" E	Agalpur 1	Dug Well
AGALPUR	20°58'15" N	83°32'27" E	Salebhata	Dug Well
AGALPUR	20°53'30" N	83°30'39" E	Banjipalli	Dug Well
AGALPUR	21°1'44" N	83°26'43" E	Uchchabahal	Dug Well
AGALPUR	20°58'48" N	83°29'28" E	Duduka	Dug Well
BALANGIR	20°58'11" N	83°34'52" E	Harbhanga	Dug Well
BALANGIR	20°49'15" N	83°29'56" E	Fasad	Dug Well
BALANGIR	20°44'4" N	83°34'45" E	Padampur	Dug Well
BALANGIR	20°43'55" N	83°23'22" E	Jhankar Pali	Dug Well
BALANGIR	20°43'0" N	83°17'0" E	Chudapali	Dug Well
BALANGIR	20°43'51" N	83°21'50" E	Hardatal	Dug Well
BALANGIR	20°44'28" N	83°29'44" E	Madhiapali	Dug Well
BALANGIR	20°37'9" N	83°25'35" E	Sinkhaman	Dug Well
BALANGIR	20°37'33" N	83°24'7" E	Sikachhida 1	Dug Well
BALANGIR	20°42'50" N	83°26'27" E	Dhumamara	Dug Well
BALANGIR	20°41'52" N	83°28'48" E	Bolangir-ii	Dug Well
BALANGIR	20°40'2" N	83°27'16" E	Bijakhaman1	Dug Well
BALANGIR	20°44'13" N	83°24'10" E	Dudukasira	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
BALANGIR	20°43'18" N	83°18'37" E	Dulusara	Dug Well
BANGOMUNDA	20°20'13" N	82°51'49" E	Jorpada	Dug Well
BANGOMUNDA	20°26'8" N	82°54'47" E	Nekpada	Dug Well
BANGOMUNDA	20°18'1" N	82°55'30" E	Titisilet	Dug Well
BANGOMUNDA	20°13'30" N	82°57'22" E	Sindhikela1	Dug Well
BANGOMUNDA	20°13'52" N	82°56'29" E	Sindhikela (new)	Dug Well
BELPARA	20°32'9" N	83°6'32" E	Fattamunda	Dug Well
BELPARA	20°32'55" N	83°4'37" E	Dumabata	Dug Well
BELPARA	20°15'8" N	83°13'40" E	Kapani	Dug Well
BELPARA	20°37'30" N	82°45'55" E	Lathor	Dug Well
BELPARA	20°44'47" N	82°56'41" E	Baijal Sagar	Dug Well
BELPARA	20°35'1" N	82°57'17" E	Nunhad	Dug Well
BELPARA	20°35'22" N	82°58'18" E	Belpara	Dug Well
DEOGAON	20°35'3" N	83°13'12" E	Balukunda	Dug Well
DEOGAON	20°32'42" N	83°25'0" E	Kacherpalli (Deogaon)	Dug Well
DEOGAON	20°33'30" N	83°25'19" E	Sagarpali	Dug Well
KHAPRAKHOL	20°42'38" N	82°49'4" E	Phulkimunda	Dug Well
KHAPRAKHOL	20°50'55" N	82°51'55" E	Harisankar	Dug Well
LOISINGA	20°50'57" N	83°30'41" E	Loisinga	Dug Well
LOISINGA	20°52'42" N	83°33'10" E	Jogisarda	Dug Well
LOISINGA	20°49'53" N	83°30'19" E	Mandia Padar	Dug Well
LOISINGA	20°45'57" N	83°20'41" E	Banjipali	Dug Well
LOISINGA	20°52'29" N	83°30'51" E	Burda	Dug Well
MURIBAHAL	20°28'20" N	83°5'37" E	Bandupalla	Dug Well
MURIBAHAL	20°20'26" N	82°54'35" E	Bongamunda	Dug Well
MURIBAHAL	20°20'33" N	83°2'42" E	Haldia	Dug Well
MURIBAHAL	20°27'55" N	83°3'10" E	Gudighat	Dug Well
MURIBAHAL	20°23'5" N	83°0'45" E	Muribahal	Dug Well
MURIBAHAL	20°20'50" N	82°56'31" E	Jamut	Dug Well
PATNAGARH	20°43'17" N	82°56'36" E	Ghambari	Dug Well
PATNAGARH	20°42'24" N	83°9'3" E	Ampali (Rampur Ampali)	Dug Well
PATNAGARH	20°43'48" N	83°0'45" E	Jogimunda	Dug Well
PATNAGARH	20°41'54" N	83°7'27" E	Patnagarh-Ii	Dug Well
PATNAGARH	20°42'33" N	83°5'7" E	Banjari	Dug Well
PATNAGARH	20°34'26" N	82°55'54" E	Sarmuhan	Dug Well
PATNAGARH	20°42'58" N	83°13'20" E	Sarmohan-I	Dug Well
PUINTALA	20°47'9" N	83°30'8" E	Ledarbohal	Dug Well
PUINTALA	20°40'4" N	83°31'31" E	Kurul	Dug Well
PUINTALA	20°44'42" N	83°37'25" E	Dumerbahal	Dug Well
PUINTALA	20°43'25" N	83°31'35" E	Gaintala	Dug Well
PUINTALA	20°47'10" N	83°29'57" E	Chhatamakna	Dug Well
PUINTALA	20°44'28" N	83°40'11" E	Bairasar	Dug Well
PUINTALA	20°40'4" N	83°31'30" E	Atgan	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
SAINTALA	20°25'9" N	83°20'18" E	Mahagaon	Dug Well
SAINTALA	20°21'8" N	83°18'36" E	Piprut	Dug Well
SAINTALA	20°30'11" N	83°7'57" E	Tikrapada 1	Dug Well
SAINTALA	20°18'50" N	83°19'0" E	Belgaon	Dug Well
SAINTALA	20°24'0" N	83°19'51" E	Bhadra	Dug Well
SAINTALA	20°26'36" N	83°21'33" E	Saintala 1	Dug Well
SAINTALA	20°27'3" N	83°21'51" E	Dumalpada	Dug Well
TENTULIKHUNTI	20°29'26" N	83°28'33" E	Tusura	Dug Well
TITLAGARH	20°17'11" N	83°16'13" E	Tarasingi	Dug Well
TITLAGARH	20°18'17" N	83°17'30" E	Chormara	Dug Well
TITLAGARH	20°16'27" N	83°14'33" E	Rigdol	Dug Well
TITLAGARH	20°17'13" N	83°8'47" E	Titlagarh I	Dug Well
TITLAGARH	20°13'57" N	83°4'39" E	Kholan	Dug Well
TITLAGARH	20°26'8" N	82°54'47" E	Jagua	Dug Well
TITLAGARH	20°12'42" N	83°0'42" E	Ichagaon	Dug Well
TITLAGARH	20°14'51" N	83°6'24" E	Minapali	Dug Well
TUREKELA	20°25'37" N	82°54'33" E	DhamanaDonga	Dug Well
TUREKELA	20°30'10" N	82°48'27" E	Tureikela	Dug Well
TUREKELA	20°29'30" N	82°55'12" E	Kurli	Dug Well
TUREKELA	20°31'24" N	82°55'38" E	Salandi	Dug Well
TUREKELA	20°28'45" N	82°55'40" E	Kantabanji	Dug Well
TUREKELA	20°28'45" N	82°55'40" E	Kantabhanji	Bore Well

BALESHWAR				
BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
BALESHWAR	21°28'45" N	86°57'3" E	Sunhat 2	Dug Well
BALESHWAR	21°37'42" N	87°1'2" E	Haldipada-II	Tube Well
BALESHWAR	21°29'39" N	86°56'3" E	Balasore	Tube Well
BALIAPAL	21°40'13" N	87°17'12" E	Jamsuli	Dug Well
BALIAPAL	21°39'31" N	87°17'7" E	Baliapal 1	Tube Well
BASTA	21°41'53" N	87°3'57" E	Basta 1	Dug Well
BHOGRAI	21°40'50" N	87°24'23" E	Jaleswarpur	Tube Well
JALESWAR	21°54'36" N	87°11'52" E	Raibania 1	Dug Well
JALESWAR	21°48'18" N	87°13'48" E	Jaleswar	Tube Well
KHAIRA	21°16'18" N	86°25'0" E	Kupari 1	Dug Well
KHAIRA	21°17'53" N	86°26'57" E	Khaira	Dug Well
NILAGIRI	21°34'47" N	86°45'1" E	Kansa 1	Dug Well
NILAGIRI	21°27'43" N	86°45'39" E	Nilgiri 1	Dug Well
NILAGIRI	21°33'45" N	86°42'9" E	Matialli	Dug Well
NILAGIRI	21°31'18" N	86°43'56" E	Jodibali	Dug Well
NILAGIRI	21°33'30" N	86°45'23" E	Ayodhya	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
NILAGIRI	21°29'55" N	86°35'40" E	Darkholi	Dug Well
NILAGIRI	21°27'56" N	86°44'6" E	Siadimal	Dug Well
NILAGIRI	21°29'58" N	86°40'38" E	Kunchibenia	Dug Well
NILAGIRI	21°27'32" N	86°43'47" E	Baband	Dug Well
NILAGIRI	21°29'30" N	86°42'0" E	Bhalukasuni 1	Dug Well
NILAGIRI	21°29'34" N	86°37'35" E	Bhagabondh	Dug Well
NILAGIRI	21°28'28" N	86°44'21" E	Podasul 1	Dug Well
OUPADA	21°21'25" N	86°29'32" E	Gaudasahi	Dug Well
OUPADA	21°28'1" N	86°43'28" E	Bankisial	Dug Well
OUPADA	21°27'54" N	86°42'19" E	Tenda	Dug Well
REMUNA	21°22'51" N	86°52'17" E	Kuligaon	Dug Well
REMUNA	21°21'11" N	86°52'19" E	Shrijang	Dug Well
REMUNA	21°32'55" N	86°55'45" E	Govindpur	Dug Well
REMUNA	21°31'24" N	86°52'12" E	Remuna	Dug Well
SIMILIA	21°15'38" N	86°43'55" E	Simulia	Tube Well
SORO	21°20'15" N	86°39'34" E	Baghudi 1	Dug Well
SORO	21°16'30" N	86°41'30" E	Soro 1	Tube Well
SORO	21°20'33" N	86°45'46" E	Bahanga	Tube Well

BARGARH				
BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
AMBABHONA	21°38'31" N	83°36'38" E	Lakhanpur	Dug Well
AMBABHONA	21°36'11" N	83°34'29" E	Karla	Dug Well
AMBABHONA	21°36'50" N	83°29'21" E	Bugbugi	Dug Well
AMBABHONA	21°41'12" N	83°33'55" E	Dungri	Dug Well
AMBABHONA	21°35'5" N	83°24'55" E	Bhukta	Dug Well
AMBABHONA	21°40'30" N	83°36'37" E	Uttam	Dug Well
ATTABIRA	21°21'57" N	83°43'0" E	Shukutapali	Dug Well
ATTABIRA	21°23'16" N	83°51'11" E	Kumelsingha	Dug Well
ATTABIRA	21°21'5" N	83°50'2" E	Larambha	Dug Well
ATTABIRA	21°20'45" N	83°47'2" E	Kulunda	Dug Well
ATTABIRA	21°24'0" N	83°49'30" E	Chaklifarm	Dug Well
ATTABIRA	21°22'50" N	83°46'50" E	Gorbhaga	Dug Well
ATTABIRA	21°23'45" N	83°42'18" E	Lastala	Dug Well
ATTABIRA	21°18'46" N	83°50'51" E	Kodabahal 2	Dug Well
ATTABIRA	21°22'15" N	83°47'0" E	Attabira1	Dug Well
ATTABIRA	21°24'30" N	83°47'15" E	Top	Dug Well
ATTABIRA	21°18'25" N	83°45'55" E	Patrapalli	Dug Well
ATTABIRA	21°25'15" N	83°49'0" E	Godbhaga	Bore Well
BARAPALI	21°12'3" N	83°37'4" E	Remada	Dug Well
BARAPALI	21°13'10" N	83°38'5" E	Puturipali	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
BARAPALI	21°14'10" N	83°29'36" E	Sarandapali	Dug Well
BARAPALI	21°13'20" N	83°35'40" E	Lenda	Dug Well
BARAPALI	21°15'2" N	83°34'4" E	Kusanpur	Dug Well
BARGARH	21°17'30" N	83°44'23" E	Kuruan	Dug Well
BARGARH	21°21'26" N	83°42'31" E	Kalapani	Dug Well
BARGARH	21°23'56" N	83°39'20" E	Sarala	Dug Well
BARGARH	21°20'39" N	83°36'35" E	Bargarh 3	Dug Well
BARGARH	21°21'29" N	83°36'2" E	Dang	Dug Well
BARGARH	21°20'14" N	83°37'13" E	Tora	Dug Well
BARGARH	21°22'20" N	83°39'45" E	Jamurda	Dug Well
BARGARH	21°17'7" N	83°36'55" E	Khuntapali	Dug Well
BARGARH	21°24'14" N	83°37'1" E	Rengalpali	Dug Well
BHATLI	21°28'2" N	83°32'5" E	Bhatli 1	Dug Well
BHATLI	21°27'23" N	83°29'2" E	Purrakhai	Dug Well
BHATLI	21°35'6" N	83°25'14" E	Katapali	Dug Well
BHATLI	21°24'46" N	83°33'32" E	Chadheigaon	Dug Well
BHATLI	21°24'31" N	83°35'4" E	Sunajuri-Tukuria	Dug Well
BHATLI	21°30'25" N	83°30'0" E	Dumalpali	Dug Well
BHATLI	21°26'55" N	83°25'8" E	Sulsulia	Dug Well
BHEDEN	21°16'0" N	83°47'28" E	Thuapali1	Dug Well
BHEDEN	21°8'10" N	83°41'1" E	Resham	Dug Well
BHEDEN	21°11'46" N	83°45'3" E	Bheden 1	Dug Well
BHEDEN	21°12'25" N	83°38'52" E	Kumbhari	Dug Well
BHEDEN	21°14'30" N	83°45'45" E	Burda	Dug Well
BHEDEN	21°9'55" N	83°47'55" E	Baghapalli	Dug Well
BHEDEN	21°16'0" N	83°45'45" E	Remenda	Dug Well
BHEDEN	21°10'20" N	83°51'20" E	Rusuda	Dug Well
BHEDEN	21°15'32" N	83°52'12" E	Khutlipalli	Dug Well
BHEDEN	21°12'5" N	83°52'55" E	Boipur	Dug Well
BHEDEN	21°6'35" N	83°50'30" E	Gondtarum	Dug Well
BHEDEN	21°12'30" N	83°47'30" E	Chichinda	Dug Well
BHEDEN	21°9'35" N	83°37'35" E	Sikirdi	Dug Well
BHEDEN	21°8'35" N	83°37'5" E	Satlama	Dug Well
BIJEPUR	21°9'34" N	83°28'9" E	Burdapali	Dug Well
BIJEPUR	21°11'18" N	83°27'49" E	Bijepur1	Dug Well
BIJEPUR	21°8'7" N	83°29'23" E	Kharmunda 1	Dug Well
GAISILET	20°55'28" N	83°22'19" E	Kansdhol 1	Dug Well
GAISILET	20°57'44" N	83°18'54" E	Gaisilet3	Dug Well
GAISILET	20°53'35" N	83°21'5" E	Jagalpet	Dug Well
GAISILET	20°56'6" N	83°4'14" E	Kantabahal	Dug Well
PAIKMAL	20°51'47" N	82°45'40" E	Purena	Dug Well
PAIKMAL	20°49'37" N	82°43'24" E	Jamset	Dug Well
PAIKMAL	20°57'15" N	82°56'2" E	Malada	Dug Well
PAIKMAL	20°53'56" N	82°49'21" E	Nrusingnath	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
PAIKMAL	20°54'21" N	82°47'36" E	Mithapali	Dug Well
PAIKMAL	20°57'7" N	82°53'12" E	Majhipali	Dug Well
PAIKMAL	20°57'50" N	82°49'8" E	Hirapur	Dug Well
RAJBORASAMBAR	20°59'57" N	83°4'16" E	Padampur2	Dug Well
SOHELA	21°8'39" N	83°15'28" E	Batetarma	Dug Well
SOHELA	21°11'23" N	83°17'7" E	Ghens 1	Dug Well
SOHELA	21°20'12" N	83°22'27" E	Grinjal	Dug Well

BAUDH				
BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
BAUDH SADAR	20°44'40" N	84°4'40" E	Usbelika	Dug Well
BAUDH SADAR	20°43'54" N	84°13'51" E	Baghiapada	Dug Well
BAUDH SADAR	20°41'45" N	84°8'19" E	Khajuripada	Dug Well
BAUDH SADAR	20°48'18" N	84°13'28" E	Kamira	Dug Well
BAUDH SADAR	20°49'51" N	84°0'23" E	Dahya	Dug Well
BAUDH SADAR	20°48'15" N	84°3'24" E	Baunsuni 2	Dug Well
BAUDH SADAR	20°49'45" N	84°18'33" E	Butupalli	Dug Well
BAUDH SADAR	20°42'9" N	84°4'23" E	Gundulia	Dug Well
BAUDH SADAR	20°45'26" N	84°4'13" E	Lumurjena	Dug Well
BAUDH SADAR	20°48'25" N	84°7'44" E	Singari chhak	Dug Well
BAUDH SADAR	20°49'45" N	84°9'57" E	Sangrampur 1	Dug Well
BAUDH SADAR	20°42'8" N	84°10'11" E	Gaundisahi	Dug Well
BAUDH SADAR	20°46'35" N	84°16'56" E	Badhigaon	Dug Well
BAUDH SADAR	20°49'2" N	84°0'37" E	Maheswar Pinda	Dug Well
BAUDH SADAR	20°51'4" N	84°11'39" E	Telibandha	Dug Well
BAUDH SADAR	20°48'24" N	84°5'45" E	Anlapali	Dug Well
BAUDH SADAR	20°49'43" N	83°55'46" E	Manamunda	Dug Well
BAUDH SADAR	20°51'17" N	84°12'24" E	Jahanapank	Dug Well
BAUDH SADAR	20°45'45" N	84°13'50" E	Erada	Dug Well
BAUDH SADAR	20°51'39" N	84°14'20" E	Polam 2	Dug Well
BAUDH SADAR	20°49'16" N	83°58'56" E	Nuapali	Dug Well
BAUDH SADAR	20°51'20" N	84°16'14" E	Bala Singha	Dug Well
HARBHANGA	20°35'55" N	84°34'35" E	Sarta-Guda	Dug Well
HARBHANGA	20°41'22" N	84°22'43" E	Rambhikata	Dug Well
HARBHANGA	20°48'10" N	84°18'31" E	Sarsara	Dug Well
HARBHANGA	20°40'47" N	84°26'32" E	Tilesar 1	Dug Well
HARBHANGA	20°44'58" N	84°19'38" E	Radha Nagar	Dug Well
HARBHANGA	20°25'49" N	84°32'2" E	Baring	Dug Well
HARBHANGA	20°34'2" N	84°27'28" E	Nuapada 1	Dug Well
HARBHANGA	20°45'50" N	84°19'0" E	Landibandh	Dug Well
HARBHANGA	20°35'0" N	84°25'25" E	Charichak	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
HARBHANGA	20°39'53" N	84°34'9" E	Bruhaspatipur	Dug Well
HARBHANGA	20°42'5" N	84°29'10" E	Dholpur	Dug Well
HARBHANGA	20°35'53" N	84°29'20" E	Tukulunda 1	Dug Well
HARBHANGA	20°37'20" N	84°36'18" E	Harbhanga	Dug Well
HARBHANGA	20°32'39" N	84°25'31" E	Karoda Kutha	Dug Well
HARBHANGA	20°38'18" N	84°25'50" E	Udaipur	Dug Well
HARBHANGA	20°40'33" N	84°23'34" E	Harekrishnapur	Dug Well
HARBHANGA	20°37'32" N	84°25'38" E	Purnakatak1	Dug Well
HARBHANGA	20°35'18" N	84°39'26" E	Kusang	Dug Well
HARBHANGA	20°29'8" N	84°28'8" E	Adenegarh	Dug Well
HARBHANGA	20°39'42" N	84°23'28" E	Lunibahal	Dug Well
HARBHANGA	20°35'31" N	84°30'10" E	Laxmanpur	Dug Well
HARBHANGA	20°50'15" N	84°19'30" E	Boudh	Dug Well
KANTAMAL	20°45'35" N	83°50'13" E	Khatkhatia	Dug Well
KANTAMAL	20°47'10" N	83°55'42" E	Gudveli Padar	Dug Well
KANTAMAL	20°32'24" N	83°40'26" E	Ghantapada-I	Dug Well
KANTAMAL	20°43'38" N	83°48'26" E	Palasaguda1	Dug Well
KANTAMAL	20°38'32" N	83°44'28" E	Kantamal	Dug Well
KANTAMAL	20°40'3" N	83°45'24" E	Auinla Chua Chhak	Dug Well
KANTAMAL	20°47'5" N	83°53'10" E	Gohipita	Dug Well

BHADRAK				
BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
BANT	21°4'8" N	86°27'46" E	Randia	Dug Well
BANT	21°12'32" N	86°23'40" E	Agarpara	Dug Well
BASUDEBPUR	21°7'15" N	86°44'20" E	Bagdavinayakpur	Dug Well
BASUDEBPUR	21°3'27" N	86°38'45" E	Basudevpur-I	Tube Well
BASUDEBPUR	21°3'27" N	86°38'45" E	Basudevpur-II	Tube Well
BHADRAK	21°8'6" N	86°31'4" E	Ada Sasan	Dug Well
BHADRAK	21°9'8" N	86°26'22" E	Sunchar (Kusun Nagar)	Dug Well
BHADRAK	21°1'35" N	86°32'40" E	Bentola	Dug Well
BHADRAK	21°8'6" N	86°31'51" E	Rambhila	Dug Well
BHADRAK	21°5'31" N	86°31'33" E	Charampa	Dug Well
BHADRAK	21°2'18" N	86°34'5" E	Tihidi	Dug Well
BHADRAK	21°1'47" N	86°31'21" E	Durgapur	Dug Well
BHANDARIPOKHARI	20°56'17" N	86°17'40" E	Jasotikiri	Dug Well
BHANDARIPOKHARI	20°56'17" N	86°18'49" E	Benipur	Dug Well
BHANDARIPOKHARI	20°58'15" N	86°22'52" E	Sunahara	Dug Well
CHANDABALI	20°50'27" N	86°43'19" E	Bala Bhadrapur Sasan	Dug Well
DHAMANAGAR	20°55'19" N	86°31'16" E	Kothar 3	Dug Well
DHAMANAGAR	20°52'9" N	86°34'33" E	Bethaligaon Pallashi	Dug Well
DHAMANAGAR	20°56'32" N	86°25'35" E	Bhagvenpur	Dug Well
TIHIDI	20°58'51" N	86°37'24" E	Bidanpur	Dug Well

CUTTACK				
BLOCK_NAME	**LATITUDE**	**LONGITUDE**	**SITE_NAME**	**SITE_TYPE**
ATHAGAD	20°30'32" N	85°37'1" E	Athagarh-1	Dug Well
ATHAGAD	20°27'10" N	85°42'28" E	Megha	Dug Well
ATHAGAD	20°32'37" N	85°48'4" E	Oranda	Dug Well
ATHAGAD	20°34'7" N	85°43'50" E	Khuntuni	Dug Well
ATHAGAD	20°29'38" N	85°40'37" E	Rajnagar	Dug Well
ATHAGAD	20°30'33" N	85°38'17" E	Radha Gobindapur	Dug Well
BADAMBA	20°22'45" N	85°17'5" E	Karadibandh	Dug Well
BADAMBA	20°24'10" N	85°17'45" E	Gopapur	Dug Well
BADAMBA	20°25'3" N	85°20'45" E	Baramba	Dug Well
BADAMBA	20°22'30" N	85°20'10" E	Sankhmiri	Dug Well
BADAMBA	20°26'40" N	85°26'15" E	Abhimanpur	Dug Well
BARANGA	20°18'7" N	85°55'44" E	Brahmana Jhharilo	Dug Well
BARANGA	20°24'43" N	85°49'33" E	Baranga 1	Dug Well
BARANGA	20°24'26" N	85°50'5" E	Baranga	Dug Well
CUTTACKSADAR	20°23'23" N	85°53'5" E	Nuagarh	Dug Well
CUTTACKSADAR	20°28'38" N	85°51'44" E	C-14 Chandi Mandir	Dug Well
CUTTACKSADAR	20°30'39" N	85°55'57" E	C-28 Jagatpur-3	Dug Well
CUTTACKSADAR	20°31'31" N	85°56'27" E	C-27 Manguli Chhak	Dug Well
CUTTACKSADAR	20°25'52" N	85°52'31" E	C-25 Balikuda-2	Dug Well
CUTTACKSADAR	20°30'23" N	85°54'48" E	Jagatpur-i	Dug Well
CUTTACKSADAR	20°29'27" N	85°50'20" E	C-06 Bidanasi	Dug Well
CUTTACKSADAR	20°28'34" N	85°52'33" E	C-16 Bauxi Bazar	Dug Well
CUTTACKSADAR	20°29'43" N	85°55'24" E	C-18 Jagatpur	Dug Well
CUTTACKSADAR	20°26'38" N	85°54'32" E	C-30 Khapuria (Nuapada)	Dug Well
CUTTACKSADAR	20°28'15" N	85°51'30" E	C-13 Mahammadia Bazar	Dug Well
CUTTACKSADAR	20°26'22" N	85°54'11" E	C-32Khapuria	Dug Well
CUTTACKSADAR	20°28'10" N	85°54'38" E	C-20 Nadikula sahi (Sikharpur)	Dug Well
CUTTACKSADAR	20°27'38" N	85°54'0" E	C-23 Railway Colony (OMP Sqr)	Dug Well
CUTTACKSADAR	20°29'52" N	85°55'22" E	C-26 Jagatpur-2	Dug Well
CUTTACKSADAR	20°34'36" N	85°46'10" E	C-31 Pithapur	Dug Well
CUTTACKSADAR	20°23'13" N	85°53'17" E	Telengapenth	Dug Well
CUTTACKSADAR	20°24'0" N	86°0'51" E	Kandarpur	Dug Well
CUTTACKSADAR	20°29'54" N	85°54'28" E	C-17 Fakirpur	Dug Well
CUTTACKSADAR	20°23'18" N	85°53'47" E	Nachhipur	Dug Well
CUTTACKSADAR	20°28'8" N	85°54'25" E	C-10 Sikharpur	Dug Well
CUTTACKSADAR	20°26'38" N	85°54'4" E	C-29 Khapuria Bazar	Dug Well
CUTTACKSADAR	20°25'52" N	85°53'5" E	Gopalpur2	Dug Well
CUTTACKSADAR	20°29'9" N	85°52'5" E	C-07 Sekhbazar	Dug Well
CUTTACKSADAR	20°27'58" N	85°52'31" E	C-12 Nimasahi (Haripur)	Dug Well
CUTTACKSADAR	20°26'39" N	85°53'32" E	C-03 Khannagar	Dug Well
CUTTACKSADAR	20°28'33" N	85°53'44" E	C-09 Bose Campus	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
CUTTACKSADAR	20°27'17" N	85°54'38" E	C-19 Chauliaganj	Dug Well
CUTTACKSADAR	20°31'3" N	85°55'12" E	Chowdwar	Dug Well
CUTTACKSADAR	20°27'23" N	85°53'5" E	C-33 Lakshmi Mandap	Dug Well
CUTTACKSADAR	20°33'28" N	85°59'22" E	Tangi1	Dug Well
CUTTACKSADAR	20°26'26" N	85°53'48" E	C-35 Netaji Nagar	Dug Well
CUTTACKSADAR	20°26'19" N	85°52'15" E	C-34 Chakuli	Dug Well
DAMPARA	20°22'36" N	85°32'0" E	Banki1	Dug Well
DAMPARA	20°22'38" N	85°31'39" E	Banki2	Dug Well
KANTAPADA	20°13'27" N	86°2'38" E	Dimiri	Dug Well
KANTAPADA	20°15'2" N	85°58'58" E	Kantapara1	Dug Well
NARASINGHPUR	20°24'20" N	85°11'0" E	Kanapur	Dug Well
NARASINGHPUR	20°27'25" N	85°4'45" E	Narsingpur	Dug Well
NARASINGHPUR	20°31'45" N	84°58'0" E	Saradapur	Dug Well
NARASINGHPUR	20°24'38" N	85°13'10" E	Balijhari 1	Dug Well
NIALI	20°4'45" N	86°6'10" E	Madhab	Dug Well
NIALI	20°12'43" N	86°4'24" E	Kasarda	Dug Well
NIALI	20°6'29" N	86°4'57" E	Belasahi	Dug Well
NIALI	20°12'40" N	86°6'48" E	Pari Amarpada	Dug Well
NIALI	20°7'51" N	86°3'52" E	Niali	Dug Well
NISCHINTA KOILI	20°28'38" N	86°8'5" E	Kulia Market	Dug Well
NISCHINTA KOILI	20°26'8" N	86°15'41" E	Orati	Dug Well
NISCHINTA KOILI	20°28'43" N	86°10'24" E	Nischintakoili (new)	Dug Well
SALEPUR	20°28'58" N	86°5'3" E	Sisua	Dug Well
SALEPUR	20°29'52" N	85°58'24" E	Anantapur	Dug Well
SALEPUR	20°28'21" N	86°13'16" E	Sankilo	Dug Well
TANGI CHOUDWAR	20°29'45" N	85°54'52" E	Nimpur	Dug Well
TANGI CHOUDWAR	20°31'3" N	85°54'59" E	Choudwar	Dug Well
TIGIRIA	20°27'54" N	85°31'15" E	Tigiria	Dug Well

DEBAGARH				
BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
BARKOT	21°32'30" N	84°59'54" E	Barkot-iii	Dug Well
BARKOT	21°29'9" N	84°57'6" E	Kalkat	Dug Well
REAMAL	21°18'26" N	84°38'15" E	Purumunda	Dug Well
REAMAL	21°20'33" N	84°40'8" E	Telimunda	Dug Well
REAMAL	21°16'26" N	84°34'47" E	Tarang	Dug Well
TILEIBANI	21°26'43" N	84°41'0" E	Rengalbeda	Dug Well
TILEIBANI	21°32'48" N	84°52'39" E	Kondal	Dug Well
TILEIBANI	21°21'31" N	84°39'22" E	Riamal	Dug Well
TILEIBANI	21°31'32" N	84°48'9" E	Kalamati	Dug Well
TILEIBANI	21°32'12" N	84°44'36" E	Deogarh	Dug Well
TILEIBANI	21°32'45" N	84°36'8" E	Tileibani	Dug Well

DHENKANAL				
BLOCK_NAME	**LATITUDE**	**LONGITUDE**	**SITE_NAME**	**SITE_TYPE**
BHUBAN	20°53'4" N	85°50'3" E	Bhuban	Dug Well
BHUBAN	20°53'3" N	85°50'12" E	Bhuban-Ii	Bore Well
BHUBAN	20°55'15" N	85°46'0" E	Goda	Dug Well
BHUBAN	20°54'55" N	85°47'55" E	Samole	Dug Well
BHUBAN	20°54'1" N	85°41'11" E	Mathakaragola	Dug Well
GANDIA	20°48'30" N	85°50'18" E	Sading	Dug Well
GANDIA	20°50'40" N	85°51'26" E	Mandar	Dug Well
GANDIA	20°45'50" N	85°48'6" E	Gondia1	Dug Well
GANDIA	20°46'45" N	85°43'30" E	Joranda	Dug Well
GANDIA	20°41'48" N	85°44'54" E	Deogaon	Dug Well
HINDOL	20°42'22" N	85°19'33" E	Balmi	Dug Well
HINDOL	20°37'55" N	85°19'2" E	Rasol	Dug Well
HINDOL	20°42'56" N	85°20'16" E	Karanda	Dug Well
HINDOL	20°43'14" N	85°25'47" E	Babandh	Dug Well
HINDOL	20°36'28" N	85°11'48" E	Hindol1	Dug Well
KAMAKSHAYA NAGAR	20°53'41" N	85°32'26" E	Mahulpal	Dug Well
KAMAKSHAYA NAGAR	20°54'50" N	85°35'36" E	Baisingha-Ii	Bore Well
KAMAKSHAYA NAGAR	20°55'45" N	85°32'40" E	Kamakyanagar-Ii	Bore Well
KAMAKSHAYA NAGAR	20°54'35" N	85°50'12" E	Badasuanlo-Hatwari	Bore Well
KAMAKSHAYA NAGAR	20°48'39" N	85°32'25" E	Alnaberini 1	Dug Well
KAMAKSHAYA NAGAR	20°54'50" N	85°35'35" E	Baisingha	Dug Well
KAMAKSHAYA NAGAR	20°54'35" N	85°38'0" E	Hatwari	Dug Well
KAMAKSHAYA NAGAR	20°55'53" N	85°32'57" E	Kamakyanagar	Dug Well
KANKADA HAD	21°4'10" N	85°34'19" E	Kankadahad	Dug Well
KANKADA HAD	20°59'45" N	85°35'15" E	Batgaon	Dug Well
ODAPADA	20°45'46" N	85°25'28" E	Hindol Road	Bore Well
ODAPADA	20°47'52" N	85°18'50" E	Motanga-Ii	Bore Well
ODAPADA	20°47'40" N	85°21'25" E	Dhaulpur	Dug Well
ODAPADA	20°40'56" N	85°29'48" E	Balrampur	Dug Well
ODAPADA	20°48'5" N	85°18'43" E	Motanga	Dug Well
PARAJANG	20°56'29" N	85°23'31" E	Badajhara	Dug Well
PARAJANG	20°52'0" N	85°19'0" E	Kandarsingha	Dug Well
PARAJANG	20°56'45" N	85°18'25" E	Singhada	Dug Well
PARAJANG	20°56'15" N	85°24'45" E	Muktaposi	Dug Well
PARAJANG	20°55'18" N	85°19'5" E	Parjang1	Dug Well
SADAR	20°33'7" N	85°28'33" E	Mahulpunja	Dug Well
SADAR	20°33'45" N	85°29'35" E	Bhapur2	Dug Well
SADAR	20°34'42" N	85°35'48" E	Saptasaja	Dug Well
SADAR	20°38'15" N	85°36'59" E	Samacharanapur	Dug Well
SADAR	20°39'14" N	85°35'56" E	Dhenkanal	Dug Well
SADAR	20°31'58" N	85°29'7" E	Jhumpuria	Dug Well
SADAR	20°36'14" N	85°32'42" E	Shankarpur	Dug Well
SADAR	20°40'15" N	85°40'35" E	Kaimati	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
SADAR	20°35'52" N	85°39'9" E	Baldiabandh	Dug Well
SADAR	20°42'42" N	85°41'50" E	Bandhnuagaon	Dug Well
SADAR	20°43'3" N	85°33'42" E	Gangutia	Dug Well

GAJAPATI				
BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
GUMA	18°50'41" N	84°3'12" E	Parasamba	Dug Well
KASHINAGARA	18°48'46" N	83°59'8" E	K Sitapur 1	Dug Well
KASHINAGARA	18°51'22" N	83°52'48" E	Kasinagar	Dug Well
MOHANA	19°23'12" N	84°18'23" E	Taramala	Dug Well
MOHANA	19°26'54" N	84°20'53" E	Madhura-Amba	Dug Well
MOHANA	19°18'21" N	84°17'11" E	Chandragiri 1	Dug Well
MOHANA	19°33'22" N	84°9'36" E	Damadua	Dug Well
MOHANA	19°26'16" N	84°18'41" E	Kirama	Dug Well
MOHANA	19°26'18" N	84°16'6" E	Mohana	Dug Well
MOHANA	19°29'22" N	84°10'56" E	Adaba	Dug Well
MOHANA	19°25'43" N	84°17'3" E	Lillygada	Dug Well
MOHANA	19°19'36" N	84°18'10" E	Zubagaon	Dug Well
MOHANA	19°21'54" N	84°18'2" E	Chandiput 1	Dug Well
MOHANA	19°24'9" N	84°20'28" E	Suklipadar	Dug Well
MOHANA	19°26'50" N	84°21'37" E	Dantarinalo	Dug Well
MOHANA	19°27'34" N	84°21'45" E	Luhaguda	Dug Well
MOHANA	19°28'54" N	84°17'27" E	Bada Khoni	Dug Well
MOHANA	19°27'19" N	84°15'55" E	Ladruma	Dug Well
MOHANA	19°27'35" N	84°13'2" E	Santhi Nagar	Dug Well
NUAGADA	19°3'55" N	84°5'34" E	Khajuripara	Dug Well
PARLAKHEMUNDI	18°51'29" N	84°11'26" E	Kantragada	Dug Well
PARLAKHEMUNDI	18°48'45" N	84°14'44" E	Gosani	Dug Well
PARLAKHEMUNDI	18°53'15" N	84°9'40" E	Raygarh	Dug Well
PARLAKHEMUNDI	18°49'54" N	84°12'36" E	Tattipati	Dug Well
PARLAKHEMUNDI	18°48'38" N	84°8'34" E	Kattalakanita	Dug Well
PARLAKHEMUNDI	18°49'11" N	84°17'11" E	Lavanyagada	Dug Well
PARLAKHEMUNDI	18°46'15" N	84°6'15" E	Parlakhemundi	Dug Well
PARLAKHEMUNDI	18°50'26" N	83°55'9" E	Appalanaidupetta	Dug Well
PARLAKHEMUNDI	18°52'25" N	84°11'31" E	Narayanpur	Dug Well
PARLAKHEMUNDI	18°49'41" N	84°0'12" E	Minigaon	Dug Well
PARLAKHEMUNDI	18°49'49" N	84°16'56" E	Garabandh	Dug Well
PARLAKHEMUNDI	18°48'59" N	84°19'52" E	Lavanya Khotta	Dug Well
R.UDAYGIRI	19°9'18" N	84°8'45" E	R.udaygiri	Dug Well
RAYAGADA	18°52'47" N	84°10'29" E	Sebakpur	Dug Well
RAYAGADA	18°56'28" N	84°14'10" E	Tumbagarh	Dug Well
RAYAGADA	18°54'48" N	84°9'19" E	Pegoda	Dug Well

GANJAM				
BLOCK_NAME	**LATITUDE**	**LONGITUDE**	**SITE_NAME**	**SITE_TYPE**
ASIKA	19°33'45" N	84°41'32" E	Cheramaria	Dug Well
ASIKA	19°38'17" N	84°36'14" E	Mundamarai	Dug Well
ASIKA	19°37'5" N	84°39'15" E	Aska	Dug Well
ASIKA	19°37'0" N	84°41'17" E	Nuagaon3	Dug Well
ASIKA	19°44'36" N	84°39'25" E	Kendupadar	Dug Well
ASIKA	19°40'46" N	84°41'47" E	Bhetnai	Dug Well
ASIKA	19°42'32" N	84°42'6" E	Badakholi	Dug Well
ASIKA	19°37'40" N	84°39'20" E	K.nuagan	Dug Well
ASIKA	19°36'14" N	84°37'20" E	Koitra	Dug Well
ASIKA	19°43'9" N	84°38'27" E	Khandrabali	Dug Well
ASIKA	19°37'59" N	84°39'59" E	K Nuagaon	Dug Well
BELLAGUNTHA	19°45'3" N	84°42'16" E	Kalamba	Dug Well
BELLAGUNTHA	19°48'35" N	84°47'25" E	Buguda1	Dug Well
BELLAGUNTHA	19°54'0" N	84°53'20" E	Karachuli	Dug Well
BELLAGUNTHA	19°51'41" N	84°38'44" E	Ambapua 1	Dug Well
BELLAGUNTHA	19°55'50" N	84°34'54" E	Bhanjanagar-ii	Dug Well
BELLAGUNTHA	19°47'15" N	84°31'3" E	Lathipada	Dug Well
BELLAGUNTHA	19°52'54" N	84°38'22" E	Belaguntha1	Dug Well
BELLAGUNTHA	19°44'8" N	84°42'38" E	Balipadar	Dug Well
BELLAGUNTHA	19°48'24" N	84°39'50" E	Mangalpur2	Dug Well
BELLAGUNTHA	19°53'16" N	84°34'48" E	Kontaipalli 1	Dug Well
BELLAGUNTHA	19°49'35" N	84°36'0" E	Gobara	Dug Well
BELLAGUNTHA	19°52'40" N	84°38'23" E	Belaguntha	Bore Well
BHANJANAGAR	20°3'0" N	84°36'53" E	Turumu1	Dug Well
BHANJANAGAR	20°1'8" N	84°37'56" E	Tilisingi	Dug Well
BHANJANAGAR	20°3'42" N	84°29'20" E	Dadralunda	Dug Well
BHANJANAGAR	19°56'55" N	84°35'0" E	Bhanjanagar-i	Dug Well
BHANJANAGAR	20°5'33" N	84°34'30" E	Gallery	Dug Well
BHANJANAGAR	20°1'0" N	84°31'2" E	Mujhagarh	Dug Well
BUGUDA	19°48'27" N	84°47'27" E	Baguda 2	Dug Well
CHHATRAPUR	19°22'28" N	84°52'47" E	Tanganapalli 1	Dug Well
CHHATRAPUR	19°20'6" N	84°52'10" E	Narendrapur	Dug Well
CHHATRAPUR	19°21'18" N	84°58'44" E	Chatrapur1	Dug Well
CHHATRAPUR	19°24'24" N	84°57'12" E	Kamappalli	Dug Well
CHHATRAPUR	19°22'5" N	85°0'10" E	Hummuri	Dug Well
CHHATRAPUR	19°20'40" N	84°54'7" E	Govindpur1	Dug Well
CHHATRAPUR	19°22'25" N	85°2'5" E	Ganjam	Dug Well
CHIKITI	19°10'7" N	84°43'20" E	Surlaroad 1	Dug Well
CHIKITI	19°15'4" N	84°33'24" E	Jakara	Dug Well
CHIKITI	19°9'46" N	84°36'36" E	Laxmipur1	Dug Well
CHIKITI	19°11'45" N	84°36'52" E	Chikiti	Dug Well
DHARAKOTE	19°38'30" N	84°34'45" E	Dharkote	Dug Well
DHARAKOTE	19°38'42" N	84°24'39" E	Badagarh	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
DHARAKOTE	19°46'45" N	84°36'27" E	Gangapur 1	Dug Well
DHARAKOTE	19°43'14" N	84°30'30" E	Suramani	Dug Well
DHARAKOTE	19°38'19" N	84°25'52" E	Balrampur	Dug Well
DHARAKOTE	19°35'0" N	84°31'17" E	Manikyapur	Bore Well
GANJAM	19°29'26" N	84°59'30" E	Poirasi	Dug Well
GANJAM	19°25'56" N	85°2'18" E	Huma	Dug Well
HINJILICUT	19°28'34" N	84°44'48" E	Hinjlicut 1	Dug Well
HINJILICUT	19°27'15" N	84°44'48" E	Pochilima	Dug Well
HINJILICUT	19°25'20" N	84°44'14" E	Badakhandi	Dug Well
HINJILICUT	19°29'25" N	84°50'7" E	Jamuni	Dug Well
HINJILICUT	19°29'20" N	84°44'30" E	Hinjlikatu	Dug Well
JAGANATHPRASAD	19°55'9" N	84°43'24" E	Jhadabhumi	Dug Well
JAGANATHPRASAD	19°58'15" N	84°46'40" E	Jagannathprasad	Dug Well
JAGANATHPRASAD	20°10'27" N	84°45'3" E	Gayagonda 1	Dug Well
JAGANATHPRASAD	19°58'9" N	84°50'48" E	Chadeiapalli Chhak	Dug Well
JAGANATHPRASAD	19°53'52" N	84°41'2" E	Baragam	Dug Well
JAGANATHPRASAD	20°4'26" N	84°36'12" E	Saishamuli 1	Dug Well
JAGANATHPRASAD	20°5'32" N	84°41'16" E	Tarasingi	Dug Well
JAGANATHPRASAD	20°2'35" N	84°42'25" E	Chamkahandi	Dug Well
KAVISURJYANAGAR	19°34'59" N	84°40'32" E	K.S.Nagar1	Dug Well
KAVISURJYANAGAR	19°34'3" N	84°47'2" E	Gudiali	Dug Well
KHALIKOTE	19°31'37" N	85°5'45" E	Rambha	Dug Well
KHALIKOTE	19°37'30" N	84°56'18" E	Kodala	Dug Well
KHALIKOTE	19°36'35" N	85°5'18" E	Khalikot	Dug Well
KUKUDAKHANDI	19°21'16" N	84°44'34" E	Lanjia	Dug Well
KUKUDAKHANDI	19°21'25" N	84°33'58" E	Padmanavapur	Dug Well
KUKUDAKHANDI	19°24'5" N	84°40'24" E	Rohigaon	Dug Well
KUKUDAKHANDI	19°14'32" N	84°42'34" E	Kankia	Dug Well
KUKUDAKHANDI	19°22'14" N	84°37'52" E	Pitamberpur	Dug Well
KUKUDAKHANDI	19°22'55" N	84°33'47" E	Digapahandi 1	Dug Well
KUKUDAKHANDI	19°18'10" N	84°45'33" E	Lathi	Dug Well
KUKUDAKHANDI	19°21'14" N	84°46'15" E	Ratanpur	Dug Well
KUKUDAKHANDI	19°23'40" N	84°45'15" E	Kukudahandi	Dug Well
PATRAPUR	19°5'38" N	84°36'48" E	Jayantipur	Dug Well
PATRAPUR	19°9'30" N	84°32'0" E	Surangi	Dug Well
PATRAPUR	19°7'42" N	84°34'38" E	Patrapur1	Dug Well
PATRAPUR	19°4'30" N	84°30'24" E	Jarada1	Dug Well
PATRAPUR	19°7'50" N	84°34'12" E	Patrapur	Bore Well
POLASARA	19°41'30" N	84°49'10" E	Polasora	Dug Well
POLASARA	19°41'28" N	84°49'2" E	Palsora	Bore Well
PURUSOTTAMPUR	19°30'42" N	84°52'32" E	Purusatampur	Dug Well
PURUSOTTAMPUR	19°31'6" N	84°46'23" E	Bananai	Dug Well
PURUSOTTAMPUR	19°27'42" N	84°53'15" E	Nuapalli	Dug Well
RANGILUNDA	19°18'42" N	84°47'26" E	Berhampur Ii	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
RANGILUNDA	19°16'39" N	84°46'53" E	Haldiapadar	Dug Well
RANGILUNDA	19°15'32" N	84°46'30" E	Gopalpur 1	Dug Well
RANGILUNDA	19°11'20" N	84°46'19" E	Mantridi	Dug Well
RANGILUNDA	19°14'58" N	84°52'19" E	Golabandha	Dug Well
RANGILUNDA	19°16'12" N	84°48'48" E	Phulata	Dug Well
RANGILUNDA	19°14'32" N	84°47'7" E	Hinjalapalli 1	Dug Well
RANGILUNDA	19°12'15" N	84°45'9" E	Golanthara	Dug Well
RANGILUNDA	19°13'21" N	84°48'24" E	Dumdumi	Dug Well
SANAKHEMUNDI	19°26'42" N	84°35'27" E	Patapur	Dug Well
SANAKHEMUNDI	19°26'42" N	84°28'0" E	Pudamari	Dug Well
SARGAD	19°30'27" N	84°36'18" E	Sheragada2	Dug Well
SARGAD	19°32'23" N	84°37'15" E	Subash Ch.Pur	Dug Well
SARGAD	19°32'10" N	84°37'8" E	Pudangi	Dug Well
SURADA	19°45'26" N	84°26'12" E	Soroda	Dug Well
SURADA	19°42'36" N	84°31'14" E	Soramani	Dug Well

JAGATSINGHAPUR				
BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
BALIKUDA	20°8'15" N	86°16'19" E	Balikuda 3	Dug Well
ERSAMA	20°12'16" N	86°24'25" E	Ersama2	Dug Well
JAGATSINGHAPUR	20°20'32" N	86°7'40" E	Siuli	Dug Well
JAGATSINGHAPUR	20°17'38" N	86°8'23" E	Nuapolbazar	Dug Well
JAGATSINGHAPUR	20°19'40" N	86°5'9" E	Balia Store	Dug Well
JAGATSINGHAPUR	20°20'13" N	86°3'18" E	Kulakijanga	Dug Well
JAGATSINGHAPUR	20°19'52" N	86°3'18" E	Govindpur	Dug Well
JAGATSINGHAPUR	20°17'49" N	86°8'9" E	Sinharpur	Dug Well
KUJANG	20°19'26" N	86°34'33" E	Bhutmundi1	Dug Well
KUJANG	20°18'58" N	86°36'30" E	Paradeepgarh1	Dug Well
KUJANG	20°18'55" N	86°32'0" E	Kujang	Dug Well
KUJANG	20°19'27" N	86°32'9" E	Balarampur	Dug Well
TIRTOL	20°17'0" N	86°18'0" E	Kanakpur	Dug Well
TIRTOL	20°20'49" N	86°8'23" E	Raghunathpur	Dug Well

JAJAPUR				
BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
BADACHANA	20°43'29" N	86°7'15" E	Haridaspur	Dug Well
BADACHANA	20°39'14" N	86°9'14" E	Arkhapur	Dug Well
BARI	20°38'40" N	86°24'19" E	Kalamatia	Dug Well
BARI	20°43'3" N	86°19'59" E	Atria	Dug Well
BINJHARPUR	20°41'19" N	86°30'20" E	Singhpur New	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
BINJHARPUR	20°42'26" N	86°26'15" E	Rudrapur	Dug Well
BINJHARPUR	20°41'40" N	86°30'40" E	Singpur	Dug Well
DANAGADI	20°57'53" N	86°4'43" E	Danagadi 1	Dug Well
DANAGADI	21°5'11" N	85°59'7" E	Phuljhore	Dug Well
DANAGADI	20°57'45" N	86°4'45" E	Danagadi-Ii	Bore Well
DANAGADI	20°54'58" N	86°0'50" E	Pankpal	Bore Well
DANAGADI	20°56'0" N	86°3'55" E	Jakhpura-Ii	Bore Well
DANAGADI	21°5'5" N	85°57'45" E	Tomka	Bore Well
DANAGADI	20°55'56" N	86°3'48" E	Jakhpura	Dug Well
DANAGADI	20°35'32" N	86°3'7" E	Kotagaon	Dug Well
DASARATHAPUR	20°50'4" N	86°26'48" E	Dasarathpur	Dug Well
DHARMASALA	20°43'46" N	86°8'6" E	Senoi	Dug Well
DHARMASALA	20°48'26" N	86°3'17" E	Purunabavlamola	Dug Well
DHARMASALA	20°46'58" N	86°4'13" E	Baruda	Dug Well
DHARMASALA	20°52'25" N	86°0'2" E	Amnut Monohi	Dug Well
DHARMASALA	20°48'30" N	86°3'45" E	Chandeidhara	Bore Well
DHARMASALA	20°51'35" N	86°0'15" E	Balrampur	Bore Well
DHARMASALA	20°42'45" N	86°4'41" E	Darpani	Bore Well
DHARMASALA	20°46'30" N	86°3'38" E	Dankari	Dug Well
DHARMASALA	20°52'20" N	86°1'30" E	Kabatabandha	Dug Well
DHARMASALA	20°44'45" N	86°4'30" E	Pobala	Dug Well
DHARMASALA	20°48'1" N	86°3'39" E	Ragadiposi	Dug Well
DHARMASALA	20°47'3" N	86°5'45" E	Madhupurgarh	Dug Well
DHARMASALA	20°47'31" N	86°4'46" E	Jamjhari	Dug Well
DHARMASALA	20°44'2" N	86°5'58" E	Jhargadia	Dug Well
DHARMASALA	20°43'17" N	86°8'22" E	Neulpur 1	Dug Well
JAJAPUR	20°50'7" N	86°20'13" E	Jajpur	Dug Well
KORAI	20°57'30" N	86°6'45" E	Vyasnagar	Bore Well
KORAI	21°2'4" N	86°8'6" E	Ragadi	Bore Well
KORAI	20°59'30" N	86°7'40" E	Tolagarh	Bore Well
RASUL PUR	20°49'15" N	86°12'11" E	Kuakhia 1	Dug Well
SUKINDA	20°59'43" N	85°59'15" E	Dubri 1	Dug Well
SUKINDA	20°54'32" N	86°0'25" E	Ragedi 1	Dug Well
SUKINDA	20°55'47" N	85°55'42" E	Khonedi	Dug Well
SUKINDA	21°3'3" N	85°58'54" E	Sohupur	Dug Well
SUKINDA	20°59'6" N	85°47'34" E	Garamiandw	Dug Well
SUKINDA	20°59'10" N	85°47'55" E	Garamian	Bore Well
SUKINDA	21°2'38" N	85°48'22" E	Sukurangi	Bore Well
SUKINDA	21°1'3" N	85°45'30" E	Kalarangi-Ii	Bore Well
SUKINDA	21°2'14" N	85°45'1" E	Kaliapani	Bore Well
SUKINDA	20°57'58" N	85°51'40" E	Mangalpur	Bore Well
SUKINDA	20°57'30" N	85°55'0" E	Sukinda-Ii	Bore Well
SUKINDA	21°3'15" N	85°48'19" E	Saruabil(nuasah	Dug Well
SUKINDA	20°58'3" N	85°54'55" E	Sukinda	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
SUKINDA	20°54'50" N	85°56'6" E	Ambasar	Dug Well
SUKINDA	21°3'15" N	85°45'0" E	Chinguripal	Dug Well

JHARSUGUDA				
BLOCK_NAME	**LATITUDE**	**LONGITUDE**	**SITE_NAME**	**SITE_TYPE**
JHARSUGUDA	21°54'16" N	84°1'58" E	Omp Check Gate	Dug Well
JHARSUGUDA	21°53'9" N	84°0'33" E	Jharsuguda 2	Dug Well
JHARSUGUDA	21°49'10" N	83°55'55" E	Brajrajnagar	Dug Well
JHARSUGUDA	21°49'32" N	83°50'55" E	Belpahar	Dug Well
KIRIMIRA	21°54'37" N	84°6'44" E	Jamkani (arda)	Dug Well
KIRIMIRA	21°51'9" N	84°6'59" E	Bhalupatra	Dug Well
KOLABIRA	21°50'5" N	84°4'39" E	Sriyapali	Dug Well
KOLABIRA	21°49'26" N	84°6'25" E	Ram Kumar Chawk	Dug Well
LAIKERA	21°56'15" N	84°19'17" E	Chadnimal	Dug Well
LAIKERA	21°52'39" N	84°9'19" E	Kirimera	Dug Well
LAIKERA	21°56'36" N	84°17'37" E	Sahaspur	Dug Well
LAKHANPUR	21°47'13" N	83°34'18" E	Bhikhampali	Dug Well
LAKHANPUR	21°45'40" N	83°46'25" E	Lakhanpur	Dug Well
LAKHANPUR	21°46'40" N	83°38'22" E	Katarbaga	Dug Well
LAKHANPUR	21°47'7" N	83°35'39" E	Panchagaon	Dug Well
LAKHANPUR	21°35'44" N	83°57'51" E	Singarpur	Dug Well

KALAHANDI				
BLOCK_NAME	**LATITUDE**	**LONGITUDE**	**SITE_NAME**	**SITE_TYPE**
BHAWANIPATNA	19°55'39" N	83°6'50" E	Malgaon	Dug Well
BHAWANIPATNA	19°51'57" N	83°9'32" E	Attanguda	Dug Well
BHAWANIPATNA	19°49'0" N	83°7'15" E	Dalguma	Dug Well
BHAWANIPATNA	20°10'15" N	82°59'24" E	Sargigora	Dug Well
BHAWANIPATNA	19°54'29" N	83°9'33" E	Bawanipatna	Dug Well
BHAWANIPATNA	19°54'29" N	83°9'33" E	Bhawanipatna	Bore Well
DHARAMAGARH	19°52'12" N	82°46'47" E	Dharamgarh	Dug Well
GOLAMUNDA	20°6'15" N	82°53'45" E	Kegaon	Dug Well
GOLAMUNDA	20°3'20" N	82°47'18" E	Golmunda	Dug Well
GOLAMUNDA	19°57'54" N	82°52'0" E	Daspur	Dug Well
GOLAMUNDA	20°3'20" N	82°47'18" E	Golamunda	Bore Well
JAYAPATNA	19°33'30" N	82°49'12" E	Bijamara	Dug Well
JAYAPATNA	19°31'52" N	82°48'50" E	Baner	Dug Well
JAYAPATNA	19°28'14" N	82°48'39" E	Jaipatna	Dug Well
JAYAPATNA	19°25'59" N	82°51'19" E	Mukhiguda	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
JAYAPATNA	19°36'42" N	82°42'20" E	Ladugaon	Bore Well
JUNAGARH	19°53'41" N	83°1'15" E	Tal Jaring	Dug Well
JUNAGARH	19°50'8" N	82°50'15" E	Badbasul	Dug Well
JUNAGARH	19°50'38" N	82°54'25" E	Baldiamal	Dug Well
JUNAGARH	19°46'40" N	82°50'45" E	Mahichala	Dug Well
JUNAGARH	19°43'57" N	82°54'38" E	Chiliguda1	Dug Well
JUNAGARH	19°51'54" N	82°56'19" E	Junagarh 1	Dug Well
JUNAGARH	19°44'27" N	82°48'41" E	Charbahal	Dug Well
KALAMPUR	19°42'55" N	82°47'45" E	Moter	Dug Well
KALAMPUR	19°36'25" N	82°48'50" E	Bandigaon	Dug Well
KALAMPUR	19°37'20" N	82°53'0" E	Kalampur	Dug Well
KARLAMUNDA	20°24'5" N	83°28'22" E	Risida	Dug Well
KESINGA	20°17'58" N	83°21'22" E	Tundala	Dug Well
KOKASARA	19°40'32" N	82°41'42" E	Koksara	Dug Well
KOKASARA	19°34'56" N	82°37'28" E	Ampani	Dug Well
KOKASARA	19°37'10" N	82°41'22" E	Sunamala	Dug Well
LANJIGARH	19°49'2" N	83°25'55" E	Biswanathppur	Dug Well
LANJIGARH	19°51'10" N	83°25'15" E	Pokaribandh	Dug Well
LANJIGARH	20°3'45" N	83°22'59" E	Narla	Dug Well
LANJIGARH	19°50'36" N	83°25'26" E	Bakatpur	Dug Well
MADANPUR RAMPUR	20°11'50" N	83°31'30" E	M-rampur	Dug Well
MADANPUR RAMPUR	20°18'28" N	83°31'57" E	Madanpur1	Dug Well
MADANPUR RAMPUR	20°9'52" N	83°36'50" E	Jurakhaman	Dug Well
NARALA	19°58'8" N	83°19'16" E	Santapur	Dug Well
NARALA	20°7'39" N	83°25'4" E	Tulapada	Dug Well
THUAMUL RAM PUR	19°36'30" N	83°7'0" E	Gunupur	Dug Well

KANDHAMAL				
BLOCK_NAME	**LATITUDE**	**LONGITUDE**	**SITE_NAME**	**SITE_TYPE**
BALIGUDA	20°11'57" N	83°54'30" E	Baliguda	Dug Well
CHAKPAD	20°18'59" N	84°17'46" E	Sankarakhol	Dug Well
DARINGBADI	19°54'35" N	84°7'20" E	Daringbadi	Dug Well
G.UDAYAGIRI	20°9'27" N	84°25'15" E	Kalinga	Dug Well
G.UDAYAGIRI	20°7'33" N	84°22'7" E	G.udaigiri 1	Dug Well
G.UDAYAGIRI	20°3'59" N	84°19'32" E	Lingagada 1	Dug Well
G.UDAYAGIRI	20°9'35" N	84°25'5" E	G. Kalinga	Dug Well
G.UDAYAGIRI	20°27'22" N	84°16'28" E	Gudari	Dug Well
KHAJURIPADA	20°26'26" N	84°24'23" E	Khajuripada	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
KHAJURIPADA	20°25'5" N	84°13'29" E	Ambapada	Dug Well
KHAJURIPADA	20°34'20" N	84°22'45" E	Ranipathar	Dug Well
KHAJURIPADA	20°30'20" N	84°16'10" E	Vetkhol	Dug Well
KHAJURIPADA	20°32'0" N	84°18'5" E	Sudrukumpa	Dug Well
KHAJURIPADA	20°23'8" N	84°10'47" E	Telapalli	Dug Well
KOTAGARH	19°42'39" N	83°40'2" E	Bandapipali	Dug Well
NAUGAON	20°8'8" N	84°0'20" E	Nuagaon	Dug Well
NAUGAON	20°13'32" N	84°7'36" E	Sarangarh	Dug Well
NAUGAON	20°2'20" N	84°9'13" E	Makabali (Salapajodi)	Dug Well
NAUGAON	20°5'37" N	84°8'55" E	Gunjibadi	Dug Well
PHIRINGIA	20°21'20" N	84°7'22" E	Phiringia-i	Dug Well
PHIRINGIA	20°18'7" N	84°8'33" E	Podapada	Dug Well
PHULABANI	20°28'45" N	84°5'22" E	Katringia	Dug Well
PHULABANI	20°29'23" N	84°13'22" E	Kandhamal1	Dug Well
PHULABANI	20°30'30" N	84°9'6" E	Dubagarh	Dug Well
RAIKIA	20°3'27" N	84°14'42" E	Raikia-ii	Dug Well
RAIKIA	20°5'39" N	84°15'37" E	Mandakia	Dug Well
TIKABALI	20°9'57" N	84°15'23" E	Paburiya	Dug Well
TIKABALI	20°14'25" N	84°21'28" E	Tikabali	Dug Well
TUMUDIBANDHA	20°3'35" N	83°45'25" E	Kurtamgarh	Dug Well
TUMUDIBANDHA	20°4'35" N	83°39'0" E	Sunagaon	Dug Well
TUMUDIBANDHA	19°58'18" N	83°42'20" E	Tumdibandh	Dug Well

KENDRAPARA				
BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
DERA BIS	20°29'39" N	86°18'52" E	Dalbi	Dug Well
DERA BIS	20°29'20" N	86°17'30" E	Chandola	Dug Well
DERA BIS	20°32'24" N	86°25'12" E	Indupur2	Dug Well
DERA BIS	20°33'18" N	86°19'20" E	Laxminarayanpur	Dug Well
GARADPUR	20°22'46" N	86°22'15" E	Garadpur	Dug Well
KENDRAPARA	20°35'4" N	86°23'27" E	Nikrai1	Dug Well
KENDRAPARA	20°30'11" N	86°20'5" E	Chandibazar	Dug Well
KENDRAPARA	20°30'36" N	86°21'36" E	Jamdhar	Dug Well
KENDRAPARA	20°31'24" N	86°26'31" E	Jajanga	Dug Well
KENDRAPARA	20°30'49" N	86°29'8" E	Duhuria	Dug Well
KENDRAPARA	20°31'21" N	86°24'4" E	Ramnagar	Dug Well
KENDRAPARA	20°30'29" N	86°21'8" E	Jantilo	Dug Well
KENDRAPARA	20°30'20" N	86°23'39" E	Shyamsundarpur	Dug Well
KENDRAPARA	20°31'8" N	86°22'26" E	Kasoti	Dug Well
KENDRAPARA	20°32'34" N	86°27'25" E	Barua 1	Dug Well
KENDRAPARA	20°36'0" N	86°24'6" E	Indupur	Tube Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
MAHAKALA PADA	20°25'18" N	86°33'42" E	Mahakalpara 1	Dug Well
MARSA GHAI	20°25'58" N	86°28'21" E	Dargochha	Dug Well
MARSA GHAI	20°27'11" N	86°27'7" E	Hatia	Dug Well
PATTAMUNDAI	20°34'20" N	86°33'53" E	Pattamundai3	Dug Well
PATTAMUNDAI	20°34'19" N	86°30'30" E	Mulabasanta	Dug Well
PATTAMUNDAI	20°40'34" N	86°38'20" E	Aul(Ali)	Dug Well
PATTAMUNDAI	20°30'10" N	86°27'15" E	Jajang-1	Tube Well
PATTAMUNDAI	20°30'10" N	86°27'15" E	Jajang-II	Tube Well
PATTAMUNDAI	20°35'3" N	86°33'57" E	Pattamundai	Tube Well
RAJKANIKA	20°43'8" N	86°41'15" E	Makundapur	Dug Well
RAJNAGAR	20°34'23" N	86°42'53" E	Rajnagar	Dug Well

KENDUJHAR				
BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
ANANDPUR	21°5'43" N	86°6'44" E	Nuagaon	Dug Well
ANANDPUR	21°12'31" N	86°11'15" E	Balduan-I	Bore Well
ANANDPUR	21°16'7" N	85°52'30" E	Bhagomunda	Dug Well
ANANDPUR	21°13'8" N	86°7'3" E	Anandapur 1	Dug Well
BANSPAL	21°37'10" N	85°25'5" E	Banspal-Ii	Bore Well
BANSPAL	21°36'25" N	85°31'20" E	Suakati	Dug Well
BANSPAL	21°29'58" N	85°28'35" E	Kanjipani	Dug Well
CHAMPUA	22°2'20" N	85°34'30" E	Jaymangalpur	Dug Well
CHAMPUA	21°56'47" N	85°36'14" E	Parsora	Dug Well
CHAMPUA	22°0'48" N	85°39'37" E	Sasang	Dug Well
CHAMPUA	22°3'13" N	85°36'37" E	Jodipada 1	Dug Well
CHAMPUA	22°3'54" N	85°39'27" E	Champua 1	Dug Well
GHASIPURA	21°9'50" N	86°2'48" E	Kesudapal-Ii	Bore Well
GHASIPURA	21°12'40" N	86°6'30" E	Ghasipura pz	Bore Well
GHASIPURA	21°7'8" N	86°7'52" E	Sainkula	Bore Well
GHASIPURA	21°7'10" N	86°7'0" E	Barpada	Dug Well
GHASIPURA	21°16'15" N	86°5'12" E	Birgovindpur	Dug Well
GHASIPURA	21°10'8" N	86°0'13" E	Kesurdapal	Dug Well
GHASIPURA	21°9'54" N	86°2'48" E	Deogan1	Dug Well
GHASIPURA	21°11'18" N	86°3'44" E	Balarampur	Dug Well
GHATGAON	21°23'5" N	85°51'37" E	Rajpat	Dug Well
GHATGAON	21°21'56" N	85°58'6" E	Melana	Dug Well
GHATGAON	21°23'38" N	85°58'55" E	Ghatgaon-I	Bore Well
GHATGAON	21°29'53" N	85°50'5" E	Dhenkikot-Ii	Bore Well
GHATGAON	21°26'0" N	85°37'30" E	Janghira	Dug Well
GHATGAON	21°29'35" N	85°50'5" E	Dhenkikote	Dug Well
GHATGAON	21°30'0" N	85°39'0" E	Baxibarigan	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
GHATGAON	21°23'15" N	85°50'20" E	Dhangadiha	Dug Well
GHATGAON	21°23'36" N	85°53'40" E	Ghatgaon 1	Dug Well
GHATGAON	21°26'44" N	85°52'33" E	Gadadharpur	Dug Well
GHATGAON	21°25'28" N	85°42'48" E	Patilo	Dug Well
HARICHADANPUR	21°30'0" N	85°39'0" E	Baxibargaon	Bore Well
HARICHADANPUR	21°26'5" N	85°37'32" E	Jhangira	Bore Well
HARICHADANPUR	21°20'45" N	85°47'25" E	Harichandanpur-Ii	Bore Well
HARICHADANPUR	21°20'25" N	85°47'25" E	Harichandanpur	Dug Well
HATADIHI	21°11'15" N	86°14'46" E	Mathadai-Ii	Bore Well
HATADIHI	21°14'59" N	86°16'45" E	Bidyadharpur	Bore Well
HATADIHI	21°12'40" N	86°7'15" E	Ghasipur	Dug Well
HATADIHI	21°10'16" N	86°14'48" E	Hatadihi	Dug Well
HATADIHI	21°11'14" N	86°14'46" E	Mathadai	Dug Well
JHUMPURA	21°49'40" N	85°34'0" E	Jhumpura-Ii	Bore Well
JHUMPURA	21°49'37" N	85°34'6" E	Jhumpura	Dug Well
JHUMPURA	21°53'17" N	85°40'36" E	Badaposhi	Dug Well
JHUMPURA	21°23'48" N	85°25'59" E	Katalaposhi	Dug Well
JHUMPURA	21°48'19" N	85°41'24" E	Ukunta	Dug Well
JODA	21°58'45" N	85°17'10" E	Guali	Dug Well
JODA	22°3'20" N	85°23'27" E	Bhadrasahi	Dug Well
JODA	22°0'30" N	85°20'5" E	Rugudi	Dug Well
JODA	22°1'30" N	85°26'30" E	Joda	Dug Well
KENDUJHARGARH	21°37'24" N	85°34'51" E	Keonjhar-Ii Old Town	Dug Well
KENDUJHARGARH	21°39'44" N	85°36'26" E	Brahmandgram	Dug Well
KENDUJHARGARH	21°40'53" N	85°40'13" E	Jhadbelda 1	Dug Well
KENDUJHARGARH	21°36'56" N	85°38'43" E	Naranpur	Dug Well
KENDUJHARGARH	21°45'50" N	85°35'15" E	Padampur-Ii	Bore Well
KENDUJHARGARH	21°37'55" N	85°36'45" E	Keonjhargarh	Dug Well
KENDUJHARGARH	21°39'12" N	85°37'54" E	Muktapur	Dug Well
KENDUJHARGARH	21°43'50" N	85°35'15" E	Padampur2	Dug Well
KENDUJHARGARH	21°33'55" N	85°42'18" E	Gopalpur2	Dug Well
KENDUJHARGARH	21°35'0" N	85°39'0" E	Haridagot	Dug Well
KENDUJHARGARH	21°38'20" N	85°37'40" E	Mukundpur	Dug Well
PATANA	21°34'50" N	85°53'40" E	Malliposi	Dug Well
PATANA	21°47'18" N	85°48'0" E	Turmunga	Dug Well
PATANA	21°40'55" N	85°47'34" E	Kendeiposhi 1	Dug Well
PATANA	21°41'4" N	85°46'20" E	Balaniposi	Dug Well
PATANA	21°42'55" N	85°41'24" E	Khiritangiri	Dug Well
PATANA	21°49'38" N	85°47'7" E	Budhikapudi	Dug Well
PATANA	21°39'24" N	85°50'48" E	Tangarpada	Dug Well
PATANA	21°35'30" N	85°57'40" E	Kothaghar	Dug Well
SAHARAPADA	21°44'28" N	85°54'37" E	Gajitangri	Dug Well
SAHARAPADA	21°42'12" N	85°51'28" E	Udaipur-Ii	Bore Well
SAHARAPADA	21°40'42" N	85°56'19" E	Barbil	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
SAHARAPADA	21°38'18" N	85°54'2" E	Swampatna	Dug Well
SAHARAPADA	21°42'12" N	85°51'28" E	Udaipur	Dug Well
TELKOI	21°29'51" N	85°32'5" E	Gonasika	Dug Well
TELKOI	21°24'48" N	85°26'44" E	Pitanali	Dug Well
TELKOI	21°26'6" N	85°20'6" E	Jagmohanpur-Ii	Bore Well
TELKOI	21°12'15" N	85°36'0" E	Kaliahata	Dug Well
TELKOI	21°26'6" N	85°20'6" E	Jagmohanpur	Dug Well
TELKOI	21°21'43" N	85°23'57" E	Telkoi	Dug Well
TELKOI	21°11'38" N	85°24'2" E	Bimala	Dug Well
TELKOI	21°16'0" N	85°29'0" E	Padang	Dug Well
TELKOI	21°19'48" N	85°24'44" E	Khuntapada 1	Dug Well
TELKOI	21°16'14" N	85°24'49" E	Akul	Dug Well
TELKOI	21°11'26" N	85°31'54" E	Patakhali	Dug Well
TELKOI	21°38'22" N	85°36'19" E	Balijhodi	Dug Well

KHORDHA				
BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
BALIANTA	20°13'35" N	85°56'54" E	Jagannathpur	Dug Well
BALIANTA	20°20'55" N	85°53'33" E	Kundaidarapatna (pahala)	Dug Well
BALIPATANA	20°14'41" N	85°54'6" E	Tolakpada	Dug Well
BALIPATANA	20°7'0" N	85°58'32" E	Odakhanda-DW	Dug Well
BALIPATANA	20°12'18" N	85°57'49" E	Balipatna	Dug Well
BANAPUR	19°46'57" N	85°9'59" E	Banapur	Dug Well
BEGUNIA	20°12'12" N	85°27'17" E	Begunia 1	Dug Well
BEGUNIA	20°13'15" N	85°30'28" E	Baghamari Dw	Dug Well
BHUBANESWAR	20°14'15" N	85°49'11" E	B-42 Kargil Basti	Dug Well
BHUBANESWAR	20°17'14" N	85°51'18" E	B-15 Bomikhal	Dug Well
BHUBANESWAR	20°15'57" N	85°49'16" E	B-35 Unit-6	Dug Well
BHUBANESWAR	20°16'19" N	85°51'27" E	B-12 Laxmi Sagar	Dug Well
BHUBANESWAR	20°14'16" N	85°48'24" E	B-41 Pokhariput	Dug Well
BHUBANESWAR	20°15'37" N	85°43'31" E	B-37 OUAT	Dug Well
BHUBANESWAR	20°17'43" N	85°51'50" E	B-14 Rasulgarh	Dug Well
BHUBANESWAR	20°16'15" N	85°51'2" E	B-17 Satya Nagar	Dug Well
BHUBANESWAR	20°19'22" N	85°53'24" E	B-22 Mancheswar	Dug Well
BHUBANESWAR	20°14'41" N	85°49'40" E	B-06 Purnama Gate	Dug Well
BHUBANESWAR	20°12'55" N	85°42'43" E	B-50 Janla	Dug Well
BHUBANESWAR	20°14'56" N	85°47'20" E	B-48 Dumuduma	Dug Well
BHUBANESWAR	20°13'41" N	85°50'18" E	B-02 Samantarapur	Dug Well
BHUBANESWAR	20°14'35" N	85°51'17" E	B-09 Tankapani Road	Dug Well
BHUBANESWAR	20°13'40" N	85°48'52" E	B-40 Kapilaprasad	Dug Well
BHUBANESWAR	20°15'25" N	85°49'9" E	B-38 Bhimpur	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
BHUBANESWAR	20°18'3" N	85°49'51" E	B-25 Sainik School	Dug Well
BHUBANESWAR	20°15'51" N	85°49'4" E	B-34 Ganga Nagar	Dug Well
BHUBANESWAR	20°16'37" N	85°45'57" E	B-51 DAV (Unit-8)	Dug Well
BHUBANESWAR	20°15'1" N	85°48'24" E	B-43 Gandamunda	Dug Well
BHUBANESWAR	20°15'14" N	85°49'50" E	B-07 Bapuji Nagar	Dug Well
BHUBANESWAR	20°14'34" N	85°49'55" E	B-04 Lingaraj Temple	Dug Well
BHUBANESWAR	20°13'31" N	85°48'49" E	Sundarpada	Dug Well
BHUBANESWAR	20°16'53" N	85°49'41" E	B-33 Unit-4	Dug Well
BHUBANESWAR	20°14'3" N	85°47'48" E	Kuha	Dug Well
BHUBANESWAR	20°14'36" N	85°49'56" E	B-05 Rath Road	Dug Well
BHUBANESWAR	20°17'14" N	85°50'41" E	B-20 Palasuni (NH-5)	Dug Well
BHUBANESWAR	20°19'19" N	85°47'45" E	B-26 Gadakana	Dug Well
BHUBANESWAR	20°16'38" N	85°45'21" E	B-45 Delta Square	Dug Well
BHUBANESWAR	20°14'13" N	85°49'16" E	B-39 Bhimatangi	Dug Well
BHUBANESWAR	20°16'2" N	85°47'59" E	B-44 Baramunda	Dug Well
BHUBANESWAR	20°17'16" N	85°50'13" E	B-31 Unit-9	Dug Well
BHUBANESWAR	20°19'48" N	85°54'3" E	B-21 Haridaspur	Dug Well
BHUBANESWAR	20°14'4" N	85°50'27" E	B-03 Garage Chhak	Dug Well
BHUBANESWAR	20°17'12" N	85°46'52" E	B-47 Ghatikia	Dug Well
BHUBANESWAR	20°14'56" N	85°43'40" E	B-52 Madanpur	Bore Well
BHUBANESWAR	20°22'5" N	85°46'0" E	Chandaka	Dug Well
BHUBANESWAR	20°16'4" N	85°41'49" E	Mendhasala	Dug Well
BHUBANESWAR	20°13'58" N	85°44'36" E	Tamando	Dug Well
BHUBANESWAR	20°17'3" N	85°50'58" E	Bhubaneswar-i	Dug Well
BHUBANESWAR	20°23'53" N	85°47'28" E	Patia	Dug Well
BHUBANESWAR	20°14'3" N	85°49'6" E	Kapilaprasad	Dug Well
BHUBANESWAR	20°20'35" N	85°47'10" E	Raghunathpur	Dug Well
BHUBANESWAR	20°18'15" N	85°49'39" E	B-55 Mancheswar	Bore Well
BHUBANESWAR	20°15'36" N	85°49'45" E	B-54 Unit 1	Bore Well
BHUBANESWAR	20°19'2" N	85°46'15" E	B-53 Andharua	Bore Well
BOLAGAD	20°10'15" N	85°16'40" E	Bolagarh	Dug Well
CHILIKA	19°44'50" N	85°12'28" E	Balugaon	Dug Well
JATANI	20°9'50" N	85°41'55" E	Jatni1	Dug Well
JATANI	20°11'58" N	85°42'1" E	Gobindpur	Dug Well
JATANI	20°10'22" N	85°40'32" E	Padanpur	Dug Well
JATANI	20°10'50" N	85°42'5" E	Sandhapur	Dug Well
JATANI	20°9'31" N	85°45'25" E	Niranjanpur	Dug Well
JATANI	20°13'0" N	85°42'58" E	Janla	Dug Well
KHORDHA	20°10'55" N	85°37'3" E	Khurda	Dug Well
KHORDHA	20°10'32" N	85°38'18" E	Khurda Industrial Area	Dug Well
KHORDHA	20°12'48" N	85°32'44" E	Jayamangal	Dug Well
TANGI	19°59'38" N	85°32'24" E	Nirakarpur	Dug Well
TANGI	19°55'31" N	85°23'52" E	Tangi2	Dug Well
TANGI	19°57'10" N	85°28'50" E	Bhusundapur	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
TANGI	20°1'54" N	85°31'18" E	Jankia	Dug Well
TANGI	19°52'46" N	85°20'31" E	Kuhudi	Dug Well
TANGI	19°50'18" N	85°16'57" E	Sunakhela	Dug Well

KORAPUT				
BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
BANDHUGAON	18°56'30" N	83°1'35" E	Peddagadavalasa	Dug Well
BOIPARIGUDA	18°46'22" N	82°31'40" E	Patraput	Dug Well
BOIPARIGUDA	18°45'30" N	82°26'18" E	Baipariguda	Dug Well
BOIPARIGUDA	18°46'28" N	82°19'31" E	Dhaulapur	Dug Well
BOIPARIGUDA	18°46'36" N	82°15'28" E	Ramgiri1	Dug Well
BOIPARIGUDA	18°42'24" N	82°24'20" E	Tanginiguda	Dug Well
BOIPARIGUDA	18°46'1" N	82°23'16" E	Mundaguda	Dug Well
BOIPARIGUDA	18°45'41" N	82°28'34" E	Doraguda	Dug Well
BORIGUMA	19°4'47" N	82°35'25" E	Tikaguda	Dug Well
BORIGUMA	19°4'21" N	82°31'31" E	Bijapur	Dug Well
BORIGUMA	19°9'12" N	82°34'40" E	Jujari	Dug Well
BORIGUMA	19°3'5" N	82°32'48" E	Boriguma	Dug Well
BORIGUMA	19°8'48" N	82°32'45" E	Khaliaguda	Dug Well
BORIGUMA	19°6'32" N	82°28'26" E	Sasanhandi-ii	Dug Well
BORIGUMA	19°12'4" N	82°33'34" E	Bangalaguda	Dug Well
DASAMANTAPUR	18°51'20" N	82°52'12" E	Podagada	Dug Well
DASAMANTAPUR	19°3'3" N	82°55'40" E	Dasmanthapur	Dug Well
JEYPUR	18°54'0" N	82°34'11" E	Umeri1	Dug Well
JEYPUR	18°50'55" N	82°32'24" E	Kantarkhal 1	Dug Well
JEYPUR	18°48'47" N	82°32'52" E	Panasaputbagh	Dug Well
JEYPUR	18°51'55" N	82°31'20" E	Anta	Dug Well
JEYPUR	18°51'10" N	82°34'53" E	Jeypore1	Dug Well
JEYPUR	19°0'23" N	82°34'0" E	Jayantigiri	Dug Well
JEYPUR	19°1'27" N	82°25'50" E	C.kusimi-i	Dug Well
JEYPUR	19°1'34" N	82°26'3" E	C-kusumi-ii	Dug Well
JEYPUR	18°58'35" N	82°32'40" E	Kenduguda	Dug Well
JEYPUR	18°58'0" N	82°33'45" E	Ambaguda1	Dug Well
JEYPUR	18°59'53" N	82°28'30" E	Konga	Dug Well
JEYPUR	18°55'52" N	82°34'6" E	Randapalli-Bj-I	Dug Well
JEYPUR	18°49'18" N	82°30'16" E	Balia	Dug Well
KORAPUT	18°49'38" N	82°38'30" E	Deoghati	Dug Well
KORAPUT	18°48'41" N	82°43'18" E	Koraput-ii	Dug Well
KORAPUT	18°48'43" N	82°43'18" E	Koraput-i	Dug Well
KORAPUT	18°47'18" N	82°45'2" E	Disarikaraguda	Dug Well
KORAPUT	18°47'2" N	82°47'2" E	Dumuriput	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
KOTPAD	19°8'30" N	82°16'20" E	Kotpad	Dug Well
KOTPAD	19°7'27" N	82°17'24" E	Damanahandi	Dug Well
KOTPAD	19°8'46" N	82°24'1" E	Miriguda	Dug Well
KOTPAD	19°5'10" N	82°14'25" E	Chandli	Dug Well
KOTPAD	19°6'1" N	82°20'25" E	Gumur	Dug Well
KUNDURA	19°2'24" N	82°22'13" E	Bajiguda	Dug Well
KUNDURA	19°1'26" N	82°24'0" E	Ghatarala	Dug Well
KUNDURA	18°48'48" N	82°29'4" E	New Ghasarda	Dug Well
LAKSHMIPUR	18°55'19" N	82°57'27" E	Panchada	Dug Well
LAKSHMIPUR	18°55'21" N	83°0'34" E	Kakriguma	Dug Well
LAKSHMIPUR	19°0'51" N	83°7'59" E	Burja	Dug Well
LAKSHMIPUR	19°5'41" N	83°11'36" E	Dhamanaganda	Dug Well
LAKSHMIPUR	18°58'5" N	83°2'17" E	Kusumguda	Dug Well
LAKSHMIPUR	18°59'54" N	83°7'35" E	Laxmipur1	Dug Well
LAKSHMIPUR	19°8'53" N	83°12'50" E	Mandalguda Colony	Dug Well
LAMPTAPUT	18°36'55" N	82°35'39" E	Lamtaput	Dug Well
LAMPTAPUT	18°39'34" N	82°35'8" E	Teraguda	Dug Well
NANDAPUR	18°28'33" N	82°41'8" E	Bheja 1	Dug Well
NANDAPUR	18°30'53" N	82°36'58" E	Soguru	Dug Well
NANDAPUR	18°32'0" N	82°44'30" E	Nandapur	Dug Well
NANDAPUR	18°31'34" N	82°41'36" E	Satsimile	Dug Well
NANDAPUR	18°35'17" N	82°46'8" E	Chingudichuan	Dug Well
NARAYAN PATANA	18°52'32" N	83°10'15" E	Narayanpatna	Dug Well
POTTANGI	18°33'48" N	82°57'42" E	Potangi	Dug Well
POTTANGI	18°30'36" N	83°3'24" E	Sunki 1	Dug Well
SIMILIGUDA	18°42'37" N	82°52'9" E	Similiguda1	Dug Well
SIMILIGUDA	18°36'36" N	82°53'30" E	Kunduli	Dug Well
SIMILIGUDA	18°38'39" N	82°49'16" E	Pitaguda	Dug Well
SIMILIGUDA	18°37'6" N	82°48'19" E	Subai	Dug Well

MALKANGIRI				
BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
KALI MELA	18°4'28" N	81°45'8" E	Kalimela1	Dug Well
KALI MELA	18°4'9" N	81°38'32" E	Raddaguda	Dug Well
KALI MELA	18°5'34" N	81°41'9" E	Kanyashram	Dug Well
KALI MELA	18°9'25" N	81°48'0" E	M.v.64	Dug Well
KALI MELA	18°7'17" N	81°43'29" E	Venkatapalam	Dug Well
KALI MELA	18°11'58" N	81°47'20" E	Badili	Dug Well
KALI MELA	18°6'3" N	81°53'55" E	Bhejangawara	Dug Well
KALI MELA	18°4'28" N	81°45'8" E	Kalimela	Bore Well
KHAIRPUT	18°34'44" N	82°16'53" E	Govindpali 1	Dug Well
KHAIRPUT	18°29'2" N	82°14'14" E	Khairput1	Dug Well
KHAIRPUT	18°13'36" N	82°13'36" E	Mundiguda	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
KORKUNDA	18°14'8" N	81°48'52" E	M.V1- 19	Dug Well
KORKUNDA	18°15'8" N	82°6'15" E	Balimela	Dug Well
KORKUNDA	19°18'16" N	82°43'13" E	M.V 37	Dug Well
KORKUNDA	18°17'31" N	81°51'9" E	M.V.7	Dug Well
KORKUNDA	18°17'19" N	81°59'6" E	Korukonda 1	Dug Well
KORKUNDA	18°14'22" N	82°6'5" E	Balimela Chowk	Dug Well
KORKUNDA	18°15'3" N	82°6'18" E	Chitapari	Dug Well
KUDUMULUGUM	18°6'30" N	82°6'55" E	Chitrakonda	Dug Well
KUDUMULUGUM	18°18'5" N	82°7'38" E	Somnathpur 1	Dug Well
KUDUMULUGUM	18°23'13" N	82°11'30" E	Kudumuluguma1	Dug Well
KUDUMULUGUM	18°21'24" N	82°9'23" E	Parkannala	Dug Well
MALKANGIRI	18°18'9" N	81°51'12" E	M.V.9	Dug Well
MALKANGIRI	18°24'25" N	81°56'24" E	Sindhimal	Dug Well
MALKANGIRI	18°27'28" N	82°3'25" E	Kumbharguda	Dug Well
MALKANGIRI	18°22'23" N	81°54'16" E	Malkangiri 1	Dug Well
MATHILI	18°33'36" N	82°13'21" E	Maithili1	Dug Well
MATHILI	18°31'7" N	82°8'8" E	Pongam	Dug Well
MATHILI	18°28'9" N	82°3'9" E	Bejaguda	Dug Well
MATHILI	18°27'37" N	82°4'33" E	Katameta	Dug Well
PODIA	18°10'13" N	81°32'40" E	Porhia	Dug Well
PODIA	18°8'30" N	81°36'36" E	M.v.58	Dug Well
PODIA	17°59'6" N	81°35'42" E	M.v.79	Dug Well
PODIA	17°53'6" N	81°33'0" E	M.v.88	Dug Well
PODIA	17°49'50" N	81°23'55" E	Motu	Dug Well

MAYURBHANJ				
BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
BAHALDA	22°18'6" N	86°9'10" E	Dandabose	Dug Well
BAHALDA	22°24'53" N	86°7'50" E	Poilakunda	Dug Well
BAHALDA	22°23'38" N	86°5'39" E	Bahalda 1	Dug Well
BAHALDA	22°26'30" N	86°10'0" E	Bahalda Road(kona)	Dug Well
BAHALDA	22°23'18" N	86°5'32" E	Bahalda	Dug Well
BAHALDA	22°19'53" N	86°8'30" E	Gambharia	Dug Well
BANGIRIPOSI	22°7'58" N	86°38'59" E	Budhamara	Dug Well
BANGIRIPOSI	22°10'46" N	86°28'2" E	Rajabasa	Dug Well
BANGIRIPOSI	22°10'55" N	86°38'55" E	Jharpokhari	Dug Well
BANGIRIPOSI	22°14'30" N	86°35'32" E	Saraskona	Dug Well
BANGIRIPOSI	22°13'20" N	86°43'5" E	Jamsola	Dug Well
BANGIRIPOSI	22°5'16" N	86°38'22" E	Dahisahi-Dipasahi	Dug Well
BANGIRIPOSI	22°5'16" N	86°38'22" E	Kalabadia	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
BANGIRIPOSI	22°12'38" N	86°33'22" E	Bedhakudar	Dug Well
BAR SAHI	21°46'13" N	86°41'52" E	Baidipur	Dug Well
BAR SAHI	21°48'32" N	86°40'3" E	Hatibandha	Dug Well
BAR SAHI	21°39'40" N	86°47'28" E	Manitri (Mallihati)	Dug Well
BAR SAHI	21°50'0" N	86°42'30" E	Belam	Dug Well
BAR SAHI	21°42'50" N	86°45'7" E	Patpur (Talpada)	Dug Well
BAR SAHI	21°43'35" N	86°44'30" E	Badasahi	Dug Well
BARIPADA	21°55'18" N	86°42'52" E	(Astia) Baripada	Dug Well
BARIPADA	21°56'15" N	86°43'45" E	Baripada	Dug Well
BARIPADA	21°56'40" N	86°47'52" E	Baura	Dug Well
BARIPADA	21°58'58" N	86°47'34" E	Dahisahi (Banki sole)	Dug Well
BETA NATI	21°35'13" N	86°55'43" E	Kalana	Dug Well
BETA NATI	21°39'30" N	86°54'30" E	Hatjori	Dug Well
BETA NATI	21°44'8" N	86°51'10" E	Betanoti	Dug Well
BETA NATI	21°49'28" N	86°49'22" E	Krishnachandrap	Dug Well
BIJA TOLA	22°14'7" N	86°13'43" E	Bademtolia	Dug Well
BIJA TOLA	22°20'2" N	86°16'35" E	Gorumahisani	Dug Well
BISOI	22°14'43" N	86°16'48" E	Ambadiha	Dug Well
BISOI	22°4'50" N	86°14'8" E	Badampahad-1	Dug Well
BISOI	22°12'12" N	86°18'33" E	Karanjei-Bijatola	Dug Well
BISOI	22°9'45" N	86°24'25" E	Bisoi	Dug Well
BISOI	22°7'6" N	86°18'36" E	Bhatachhatra	Dug Well
BISOI	22°4'49" N	86°13'49" E	Manda	Dug Well
GOPA BANDHU NAGAR	21°39'0" N	86°39'0" E	Similibandh	Dug Well
GOPA BANDHU NAGAR	21°42'43" N	86°37'34" E	Khunta	Dug Well
JAMDA	22°21'45" N	86°2'5" E	Moranda	Dug Well
JAMDA	22°16'33" N	86°4'14" E	Jamda 1	Dug Well
JAMDA	22°16'28" N	86°4'18" E	Jamda	Dug Well
JASHI PUR	21°58'8" N	86°5'52" E	Padampur	Dug Well
JASHI PUR	21°57'30" N	86°13'30" E	Sanjili	Dug Well
JASHI PUR	22°1'9" N	86°4'55" E	Jamukeswar	Dug Well
JASHI PUR	22°0'0" N	86°8'37" E	Begna	Dug Well
JASHI PUR	21°59'12" N	86°1'6" E	Mananda	Dug Well
JASHI PUR	21°56'12" N	86°6'3" E	Matigarh	Dug Well
KAPTIPADA	21°26'0" N	86°19'30" E	Sarat	Dug Well
KAPTIPADA	21°33'43" N	86°30'30" E	Kukurdima	Dug Well
KAPTIPADA	21°32'45" N	86°32'6" E	Udala	Dug Well
KAPTIPADA	21°33'0" N	86°28'0" E	Poradiha	Dug Well
KAPTIPADA	21°31'3" N	86°31'50" E	Kaptipada 1	Dug Well
KARANJIA	21°52'5" N	85°57'9" E	Thianali	Dug Well
KARANJIA	21°54'16" N	86°2'29" E	Tongabila Chhak	Dug Well
KARANJIA	21°49'7" N	85°49'43" E	Chadheibhol	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
KARANJIA	21°53'51" N	86°2'23" E	Vejidiha	Dug Well
KARANJIA	21°41'13" N	86°6'22" E	Kendumundi	Dug Well
KARANJIA	21°50'38" N	86°1'5" E	Tato	Dug Well
KHUNTA	21°38'5" N	86°35'30" E	Brundabanchan	Dug Well
KHUNTA	21°47'30" N	86°39'42" E	Dukura	Dug Well
KHUNTA	21°39'37" N	86°36'12" E	Dhampur	Dug Well
KHUNTA	21°36'32" N	86°39'32" E	Keshapur	Jaypur
KOLIANA	22°7'20" N	86°37'41" E	Pathuri	Dug Well
KOLIANA	21°59'48" N	86°41'59" E	Kuchei	Dug Well
KOLIANA	22°4'8" N	86°38'55" E	Kuliana	Dug Well
KUSUMI	22°8'20" N	86°5'43" E	Kherna	Dug Well
KUSUMI	22°12'16" N	86°8'0" E	Naujara	Dug Well
MURUDA	21°51'15" N	86°57'10" E	Chitrada	Dug Well
MURUDA	21°48'18" N	86°50'46" E	Dantiamuhani	Dug Well
MURUDA	21°50'37" N	86°56'7" E	Sirsapal	Dug Well
MURUDA	21°51'55" N	86°52'10" E	Nechuapada	Dug Well
MURUDA	21°49'33" N	86°58'52" E	Badasahi	Dug Well
MURUDA	21°50'37" N	86°56'7" E	Vurusani	Dug Well
RAIRANG PUR	22°4'44" N	86°4'44" E	Pandaguni	Dug Well
RAIRANG PUR	22°18'15" N	86°12'40" E	Niranjan	Dug Well
RAIRANG PUR	22°17'13" N	86°9'30" E	Purunapani	Dug Well
RAIRANG PUR	22°16'10" N	86°8'7" E	Champrai	Dug Well
RARUAN	21°55'38" N	85°50'8" E	Khiching	Dug Well
RARUAN	21°59'12" N	85°57'15" E	Itighar	Dug Well
RARUAN	21°58'21" N	85°53'27" E	Jhunkapal	Dug Well
RASA-GOBINDAPUR	21°47'42" N	87°1'42" E	Devsol	Dug Well
RASA-GOBINDAPUR	21°49'20" N	87°1'30" E	Rashgovindpur	Dug Well
RASA-GOBINDAPUR	21°47'30" N	87°7'52" E	Amarda village	Dug Well
SAMAKHUNTA	21°55'55" N	86°35'20" E	Pithabata	Dug Well
SAMAKHUNTA	21°55'55" N	86°40'51" E	Sapanpuar	Dug Well
SAMAKHUNTA	21°55'45" N	86°40'50" E	Shamakunta	Dug Well
SARAS KANA	22°14'35" N	86°36'42" E	Brushavanupur	Dug Well
SARAS KANA	22°9'25" N	86°31'50" E	Bangriposi	Dug Well
SUKRULI	21°58'19" N	85°47'0" E	Singada Chhak	Dug Well
SUKRULI	21°57'23" N	85°51'44" E	Raruan	Dug Well
SUKRULI	21°51'44" N	85°48'46" E	Indupur	Dug Well
SULIA PADA	21°58'50" N	87°1'10" E	Bagra	Dug Well
SULIA PADA	21°59'15" N	86°55'57" E	Pakatia	Dug Well
SULIA PADA	22°2'10" N	86°53'59" E	Charchakia	Dug Well
SULIA PADA	22°1'18" N	86°57'13" E	Sullyapada	Dug Well
SULIA PADA	21°58'0" N	86°57'0" E	Kostha	Dug Well
SULIA PADA	21°57'42" N	86°50'45" E	Mundripal (Bankisole)	Dug Well
THAKUR MUNDA	21°39'12" N	86°5'56" E	Asanbani	Dug Well
THAKUR MUNDA	21°28'19" N	86°9'32" E	Taramara	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
THAKUR MUNDA	21°29'20" N	86°14'30" E	Champajhar	Dug Well
THAKUR MUNDA	21°31'6" N	86°9'30" E	Thakurmunda	Dug Well
THAKUR MUNDA	21°38'6" N	86°6'30" E	Kendujani	Dug Well
THAKUR MUNDA	21°25'40" N	86°9'57" E	Mahuldia	Dug Well
THAKUR MUNDA	21°16'44" N	86°11'17" E	Nada	Dug Well
THAKUR MUNDA	21°21'28" N	86°8'52" E	Satkosia	Dug Well
TIRINGI	22°25'5" N	86°4'33" E	Nischintapur	Dug Well
TIRINGI	22°31'20" N	86°4'48" E	Tiring	Dug Well
UDALA	21°34'21" N	86°32'28" E	Urmala	Dug Well

NABARANGPUR				
BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
DABUGAN	19°27'10" N	82°24'30" E	Debugaon	Dug Well
JHARIGAN	19°38'49" N	82°23'37" E	Fufugaon	Dug Well
JHARIGAN	19°42'42" N	82°22'6" E	Jharigan	Dug Well
KOSAGUMUDA	19°16'35" N	82°14'34" E	Kosagumunda	Dug Well
KOSAGUMUDA	19°18'12" N	82°20'45" E	Kodinga	Dug Well
KOSAGUMUDA	19°16'35" N	82°14'54" E	Kosagumuda	Bore Well
KOSAGUMUDA	19°13'28" N	82°21'39" E	Karchamal	Dug Well
KOSAGUMUDA	19°18'6" N	82°18'8" E	Dadia-Majhiguda	Dug Well
NABARANGAPUR	19°12'40" N	82°27'7" E	Sonamasigan	Dug Well
NABARANGAPUR	19°14'9" N	82°32'56" E	Nowrangpur 1	Dug Well
NABARANGAPUR	19°19'13" N	82°23'31" E	Baksaguda	Dug Well
NANDAHANDI	19°14'37" N	82°39'19" E	Sagarmunda	Dug Well
NANDAHANDI	19°14'13" N	82°40'12" E	Nandahandi	Dug Well
NANDAHANDI	19°15'2" N	82°35'41" E	Kurlaghati	Dug Well
NANDAHANDI	19°12'44" N	82°33'51" E	Daibata	Dug Well
NANDAHANDI	19°14'5" N	82°34'18" E	Rangamatiguda	Dug Well
PAPARAHANDI	19°21'0" N	82°31'19" E	Papadahandi1	Dug Well
PAPARAHANDI	19°28'2" N	82°34'32" E	Maidalpur1	Dug Well
PAPARAHANDI	19°19'5" N	82°25'57" E	Dengaguda	Dug Well
TENTULIKHUNTI	19°19'25" N	82°40'42" E	Anchalguma1	Dug Well
TENTULIKHUNTI	19°18'16" N	82°43'16" E	Tentulikunti 1	Dug Well
TENTULIKHUNTI	19°16'2" N	82°42'33" E	Digi	Dug Well
TENTULIKHUNTI	19°17'16" N	82°43'9" E	Udaipur	Dug Well
UMARKOTE	19°39'35" N	82°4'10" E	Dondasora	Dug Well
UMARKOTE	19°39'50" N	82°12'25" E	Umarkot	Dug Well
UMARKOTE	19°41'58" N	82°7'47" E	Bhaskel-dam sit	Dug Well
UMARKOTE	19°39'35" N	82°12'46" E	Baheda	Dug Well

NAYAGARH				
BLOCK_NAME	**LATITUDE**	**LONGITUDE**	**SITE_NAME**	**SITE_TYPE**
BHAPUR	20°15'54" N	85°10'30" E	Khandapada	Dug Well
BHAPUR	20°19'39" N	85°15'34" E	Nuabausabati (upper Bausabati)	Dug Well
BHAPUR	20°21'30" N	85°11'30" E	Kantilo	Dug Well
BHAPUR	20°17'15" N	85°17'38" E	Bhapur1	Dug Well
DASAPALLA	20°22'18" N	84°46'59" E	Rangamatia	Dug Well
DASAPALLA	20°20'15" N	84°52'1" E	Jogibandh	Dug Well
DASAPALLA	20°19'2" N	84°54'25" E	Subalaya	Dug Well
DASAPALLA	20°21'34" N	84°48'27" E	Kuanria	Dug Well
DASAPALLA	20°24'20" N	84°39'58" E	Durga Prasad	Dug Well
DASAPALLA	20°19'44" N	84°51'13" E	Daspalla Market	Dug Well
DASAPALLA	20°23'48" N	84°37'18" E	Kuluru Kumpa	Dug Well
DASAPALLA	20°20'29" N	84°55'36" E	Madhyakhand 2	Dug Well
DASAPALLA	20°20'14" N	84°51'25" E	Daspalla-i	Dug Well
GANIA	20°21'1" N	84°57'11" E	Ghholahandi	Dug Well
GANIA	20°23'43" N	84°35'22" E	Banigocha	Dug Well
GANIA	20°23'35" N	85°4'31" E	Kishore Prasad	Dug Well
GANIA	20°24'16" N	84°45'34" E	Takara	Dug Well
GANIA	20°24'12" N	85°2'42" E	Gania	Dug Well
GANIA	20°21'40" N	84°58'51" E	Adakata	Dug Well
KHANDAPADA	20°21'38" N	85°1'36" E	Kumbharpara	Dug Well
KHANDAPADA	20°22'48" N	85°6'33" E	Kana Singhi	Dug Well
KHANDAPADA	20°15'46" N	85°10'25" E	Benagadia	Dug Well
KHANDAPADA	20°22'24" N	85°1'45" E	Jhada Gadia	Dug Well
KHANDAPADA	20°22'4" N	85°8'20" E	Gamasalia (Dhipisahi)	Dug Well
NAYAGARH	20°9'1" N	85°10'13" E	Bada-Pandeswar	Dug Well
NAYAGARH	20°4'38" N	85°12'18" E	Andapali	Dug Well
NAYAGARH	20°9'18" N	85°11'25" E	Purusottampur	Dug Well
NAYAGARH	20°8'5" N	85°8'25" E	Itamati (Manjuriapali)	Dug Well
NAYAGARH	20°3'26" N	85°5'17" E	Kalyanpur Ii	Dug Well
NAYAGARH	20°7'43" N	85°7'7" E	Nayagarh	Dug Well
NAYAGARH	20°7'37" N	85°0'8" E	Nayagarh 3	Dug Well
NAYAGARH	20°6'17" N	85°5'1" E	Sarak Sahi	Dug Well
NUAGAON	20°15'10" N	84°58'22" E	Nuagaon1	Dug Well
NUAGAON	20°12'9" N	84°58'47" E	Sampada	Dug Well
NUAGAON	20°9'50" N	84°59'50" E	Mahipur	Dug Well
NUAGAON	20°15'8" N	84°58'22" E	Nuagaon	Bore Well
ODAGAON	20°0'32" N	85°0'50" E	Gasisevipur	Dug Well
ODAGAON	20°1'18" N	84°59'0" E	Odagaon	Dug Well
ODAGAON	20°4'34" N	85°5'32" E	Solopata	Dug Well
ODAGAON	20°1'50" N	85°5'48" E	Sarankul	Dug Well
ODAGAON	20°1'18" N	84°59'0" E	Odogaon-PZ	Bore Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
RANAPUR	20°3'32" N	85°20'13" E	Ranpur 1	Dug Well
RANAPUR	20°4'15" N	85°19'11" E	Sanagada	Dug Well
RANAPUR	20°4'31" N	85°14'23" E	Darpa-Narayanpur 1	Dug Well
RANAPUR	20°6'55" N	85°20'24" E	Koilama	Dug Well
RANAPUR	20°4'8" N	85°21'15" E	Ranpur	Bore Well
RANAPUR	20°3'55" N	85°17'44" E	Bherupada	Dug Well
RANAPUR	20°7'37" N	85°6'20" E	Raj Sunakhala	Dug Well
RANAPUR	20°6'27" N	85°9'12" E	Lathipada 1	Dug Well

NUAPADA				
BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
BODEN	20°14'50" N	82°34'5" E	Boden	Dug Well
KHARIAR	20°23'0" N	82°41'12" E	Bada-Maheswar	Dug Well
KHARIAR	20°18'57" N	82°44'12" E	Loharapalli	Dug Well
KHARIAR	20°18'26" N	82°48'3" E	Junani	Dug Well
KHARIAR	20°16'43" N	82°46'33" E	Ranipur	Dug Well
KHARIAR	20°18'40" N	82°41'21" E	Khudpej	Dug Well
KHARIAR	20°17'40" N	82°45'37" E	Khariar	Dug Well
KHARIAR	20°22'53" N	82°49'12" E	Rishigaon	Dug Well
KHARIAR	20°20'25" N	82°41'45" E	Bargaon-k	Dug Well
KHARIAR	20°15'40" N	82°50'20" E	Tukla	Dug Well
KHARIAR	20°16'8" N	82°47'33" E	Lachhipur	Dug Well
KHARIAR	20°17'11" N	82°45'44" E	Loharpalli	Dug Well
KHARIAR	20°22'25" N	82°42'3" E	Sanmaheswar	Dug Well
KHARIAR	20°17'49" N	82°46'34" E	Padampur	Dug Well
KOMANA	20°21'41" N	82°42'16" E	Deobahal	Dug Well
KOMANA	20°30'5" N	82°40'22" E	Komna1	Dug Well
KOMANA	20°35'5" N	82°40'25" E	Burkhiakomna	Dug Well
KOMANA	20°37'58" N	82°36'55" E	Tarbod	Dug Well
KOMANA	20°43'8" N	82°35'13" E	Kurumpuri	Dug Well
KOMANA	20°43'53" N	82°40'37" E	Lakhna-PZ	Bore Well
NUAPADA	20°51'45" N	82°31'56" E	Kalyanpur	Dug Well
NUAPADA	20°52'18" N	82°30'3" E	Gotama	Dug Well
NUAPADA	20°50'44" N	82°32'34" E	Patparpali	Dug Well
NUAPADA	20°44'47" N	82°35'50" E	Somarsingh	Dug Well
NUAPADA	20°49'23" N	82°37'54" E	Darlimunda	Dug Well
NUAPADA	20°49'41" N	82°40'40" E	Sahipala	Dug Well
NUAPADA	20°45'24" N	82°32'10" E	Tanwat	Dug Well
NUAPADA	20°47'25" N	82°32'14" E	Sirthol	Dug Well
NUAPADA	20°46'1" N	82°32'53" E	Khoksa	Dug Well
NUAPADA	20°50'46" N	82°29'18" E	Nandanpur	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
NUAPADA	20°47'52" N	82°32'10" E	Nawapara	Dug Well
NUAPADA	20°49'38" N	82°29'22" E	Bhajipala	Dug Well
NUAPADA	20°44'3" N	82°25'31" E	Dharambandah	Dug Well
NUAPADA	20°44'23" N	82°26'34" E	Potora	Dug Well
NUAPADA	20°53'22" N	82°30'42" E	Khariar Road	Bore Well
NUAPADA	20°49'13" N	82°33'57" E	Godphula	Dug Well
NUAPADA	20°48'14" N	82°32'22" E	Nawapara-PZ	Bore Well
SINAPALI	20°5'51" N	82°41'49" E	Ghantiguda	Dug Well
SINAPALI	20°6'8" N	82°35'45" E	Nilji	Dug Well

PURI				
BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
ASTARANGA	19°56'24" N	86°10'57" E	Tikarpara1	Dug Well
ASTARANGA	19°59'8" N	86°14'22" E	Juinti	Dug Well
ASTARANGA	19°58'50" N	86°16'30" E	Astarang	Dug Well
BRAHMAGIRI	19°47'59" N	85°42'11" E	Rebana nuagaon	Dug Well
BRAHMAGIRI	19°48'40" N	85°46'15" E	Girala	Dug Well
BRAHMAGIRI	19°48'45" N	85°45'44" E	Alipada	Dug Well
BRAHMAGIRI	19°48'32" N	85°44'25" E	Budhiabar	Dug Well
BRAHMAGIRI	19°47'55" N	85°39'55" E	Brahmagiri	Dug Well
BRAHMAGIRI	19°43'46" N	85°32'40" E	Gola	Dug Well
BRAHMAGIRI	19°48'1" N	85°42'22" E	Rendagada	Dug Well
BRAHMAGIRI	19°46'48" N	85°36'20" E	Gokhara	Dug Well
CHILIKA LAKE	19°40'16" N	85°26'54" E	Satapada-I	Dug Well
DELANGA	20°2'10" N	85°46'10" E	Delang	Dug Well
DELANGA	20°2'10" N	85°46'10" E	Delang-PZ	Tube Well
DELANGA	20°3'20" N	85°45'15" E	Kalyanpur	Dug Well
DELANGA	20°3'20" N	85°45'15" E	Ramchandrapur	Dug Well
GOP	19°51'15" N	86°3'40" E	Ramchandi	Dug Well
GOP	19°54'17" N	85°57'52" E	Mahapur	Dug Well
GOP	19°58'48" N	86°1'8" E	Gop 1	Dug Well
GOP	19°51'28" N	85°56'33" E	Balighai	Dug Well
GOP	19°50'40" N	85°54'41" E	Baleshwarpatna	Dug Well
GOP	19°55'30" N	85°59'30" E	Madrang	Dug Well
KAKAT PUR	19°53'46" N	86°7'46" E	Kurujanga	Dug Well
KAKAT PUR	19°53'11" N	86°5'48" E	Konark 1	Dug Well
KAKAT PUR	19°59'58" N	86°11'40" E	Kakatpur Ii	Dug Well
KAKAT PUR	20°0'22" N	86°11'32" E	Kakatpur pz	Tube Well
KAKAT PUR	20°0'52" N	86°10'13" E	Jagannathpur	Dug Well
KAKAT PUR	20°2'8" N	86°7'38" E	Jogeswarpur	Dug Well
KANAS	20°5'58" N	85°47'59" E	Kanas	Dug Well
NIMAPADA	20°4'12" N	86°4'18" E	Bisimatri	Dug Well
NIMAPADA	20°6'37" N	85°52'23" E	Haripur	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
NIMAPADA	20°3'34" N	86°5'9" E	Charichhak	Dug Well
NIMAPADA	20°2'30" N	86°4'30" E	Chhanijanga	Dug Well
NIMAPADA	20°3'40" N	86°1'44" E	Nimapara pz	Tube Well
NIMAPADA	20°5'30" N	85°55'11" E	Garapada	Dug Well
NIMAPADA	20°2'16" N	86°0'2" E	Patapur	Dug Well
NIMAPADA	20°2'12" N	85°53'10" E	Balanga	Dug Well
NIMAPADA	20°3'16" N	86°0'12" E	Nimapara 2	Dug Well
PIPIL	19°59'39" N	85°48'0" E	Maunimatha	Dug Well
PIPIL	20°8'3" N	85°48'50" E	Dhauli	Dug Well
PIPIL	20°4'51" N	85°49'56" E	Dandamukundpur	Dug Well
PIPIL	20°8'0" N	85°44'32" E	Harirajpur	Dug Well
PIPIL	20°6'56" N	85°50'2" E	Pipli	Dug Well
PIPIL	20°2'55" N	85°49'45" E	Mangalpur	Dug Well
SADAR	19°48'16" N	85°49'24" E	P-49 Dola Mandap Sahi	Dug Well
SADAR	19°48'25" N	85°49'24" E	Puri town	Dug Well
SADAR	19°52'36" N	85°49'3" E	Tulasichoura-Malatipatapur	Dug Well
SADAR	19°48'13" N	85°48'49" E	P-50 Baselisahi	Dug Well
SADAR	19°48'25" N	85°50'46" E	P-48 Sonar Gauranga	Dug Well
SADAR	19°48'11" N	85°49'33" E	P-47 Ramchandisahi	Dug Well
SADAR	19°48'47" N	85°48'53" E	P-46 Behrasahi	Dug Well
SADAR	19°49'56" N	85°52'22" E	Baliguari	Dug Well
SADAR	19°53'27" N	85°48'54" E	Chandanpur	Dug Well
SADAR	19°47'54" N	85°48'49" E	P-07 Gauda Bada Sahi	Dug Well
SADAR	19°53'56" N	85°46'47" E	Pratapramchandr	Dug Well
SADAR	19°49'25" N	85°50'54" E	P-42 Balighat	Dug Well
SADAR	19°48'51" N	85°48'23" E	Totasahi	Dug Well
SADAR	19°48'20" N	85°49'4" E	P-30 Jagannath Temple	Dug Well
SADAR	19°48'56" N	85°49'55" E	P-36 Kumbharapada	Dug Well
SADAR	19°48'4" N	85°49'7" E	P-31 Sweta Ganga	Dug Well
SADAR	19°48'36" N	85°49'50" E	P-03 Police Lane	Dug Well
SADAR	19°48'43" N	85°49'41" E	P-41 Grand Road	Dug Well
SADAR	19°48'21" N	85°50'32" E	P-11 Sadar Block Colony	Dug Well
SADAR	19°49'23" N	85°52'15" E	P-33 Sorbodaya Nagar	Dug Well
SADAR	19°48'38" N	85°49'47" E	P-23 Hara Gouri Sahi	Dug Well
SADAR	19°49'5" N	85°49'50" E	P-35 Indira Mark Colony	Dug Well
SADAR	19°49'0" N	85°48'23" E	P-19 Kashi Jagannathpur	Dug Well
SADAR	19°49'9" N	85°50'49" E	P-34 Sidha Mahavir	Dug Well
SADAR	19°48'20" N	85°51'3" E	P-12 ITI Chhak	Dug Well
SADAR	19°48'46" N	85°48'38" E	P-17 Masania Chhak	Dug Well
SADAR	19°48'15" N	85°48'23" E	P-06 Chhapana Chhak	Dug Well
SADAR	19°48'38" N	85°49'29" E	P-37 Jagannatha Ballava Matha	Dug Well
SADAR	19°48'51" N	85°49'37" E	P-16 Narendra Kona	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
SADAR	19°48'20" N	85°50'23" E	P-10 Rly Station Bazar	Dug Well
SADAR	19°48'45" N	85°49'56" E	P-24 Balagandi	Dug Well
SADAR	19°49'27" N	85°51'15" E	P-21 Sriram Talkies Chhak	Dug Well
SADAR	19°48'51" N	85°48'23" E	P-18 Tota Sahi	Dug Well
SADAR	19°48'14" N	85°48'40" E	P-05 Kusuni Khuntia	Dug Well
SADAR	19°47'43" N	85°47'0" E	P-32 Gobardhan Matha	Dug Well
SADAR	19°48'25" N	85°51'24" E	P-13 Shree Vihar Mangal Patna	Dug Well
SADAR	19°50'1" N	85°50'10" E	P-01 Krupa Sindura Patna	Dug Well
SADAR	19°48'23" N	85°49'8" E	P-44 Jagannath temple	Dug Well
SADAR	19°48'37" N	85°50'20" E	P-45 Balipur	Dug Well
SATYABADI	19°56'58" N	85°44'52" E	Algum	Dug Well
SATYABADI	19°56'29" N	85°49'56" E	Sakhigopal	Dug Well
SATYABADI	19°56'57" N	85°49'22" E	Uansdiha	Dug Well
SATYABADI	19°57'15" N	85°46'45" E	Nuasomeswarpur	Dug Well
SATYABADI	19°58'20" N	85°49'20" E	Sadanandapur	Dug Well
SATYABADI	19°56'52" N	85°48'34" E	Sakhigopal-i	Tube Well
SATYABADI	19°57'0" N	85°48'32" E	Sakhigopal 3	Dug Well
SATYABADI	19°55'15" N	85°49'30" E	Biragobind(Dakhina Kali)	Dug Well
SATYABADI	20°0'5" N	85°50'25" E	Kumareswar	Dug Well

RAYAGADA

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
GUNUPUR	19°4'46" N	83°48'42" E	Gunupur1	Dug Well
GUNUPUR	19°10'9" N	83°50'29" E	Dambasara	Dug Well
KALYANASINGHPUR	19°31'18" N	83°19'20" E	Kalyansinghpur	Dug Well
KASHIPUR	19°21'15" N	83°7'11" E	Kashipur	Dug Well
KASHIPUR	19°14'27" N	83°6'43" E	Gorakhpur	Dug Well
KASHIPUR	19°10'49" N	83°8'10" E	Kaliapada	Dug Well
KOLNARA	19°13'32" N	83°33'32" E	Mukundpur	Dug Well
KOLNARA	19°16'34" N	83°36'37" E	Minajhola	Dug Well
KOLNARA	19°19'40" N	83°26'28" E	Therabali	Dug Well
MUNIGUDA	19°50'7" N	83°27'29" E	Ambadola	Dug Well
PADMAPUR	19°14'27" N	83°49'20" E	Padampur2	Dug Well
PADMAPUR	19°21'40" N	83°58'0" E	Narainpur	Dug Well
PADMAPUR	19°16'25" N	83°51'31" E	Akhusingi	Dug Well
PADMAPUR	19°18'27" N	83°54'2" E	Kenduguda	Dug Well
PADMAPUR	19°12'26" N	83°50'18" E	Nua Dakasikula	Dug Well
RAMANGUDA	19°13'21" N	83°40'34" E	Ramnaguda2	Dug Well
RAMANGUDA	19°13'12" N	83°46'18" E	Gumda	Dug Well
RAMANGUDA	19°13'17" N	83°41'35" E	Chakunda	Dug Well
RAMANGUDA	19°16'12" N	83°38'17" E	Tandikana	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
RAMANGUDA	19°12'21" N	83°42'32" E	Bangi Chowk	Dug Well
RAMANGUDA	19°11'36" N	83°20'43" E	Kodapadu	Dug Well
RAYAGADA	19°10'32" N	83°22'41" E	Shirikona	Dug Well
RAYAGADA	19°11'40" N	83°17'18" E	Gumma	Dug Well

SAMBALPUR				
BLOCK_NAME	**LATITUDE**	**LONGITUDE**	**SITE_NAME**	**SITE_TYPE**
BAMRA	22°6'15" N	84°16'19" E	Bampei	Dug Well
BAMRA	22°3'2" N	84°17'25" E	Bamra	Dug Well
BAMRA	21°54'50" N	84°23'15" E	Kesaibahal	Dug Well
DHANKAUDA	21°26'33" N	83°54'53" E	Baijamunda	Dug Well
DHANKAUDA	21°28'10" N	84°0'6" E	Dhanakauda	Dug Well
DHANKAUDA	21°35'37" N	84°1'25" E	Gunchamal	Dug Well
DHANKAUDA	21°25'34" N	83°53'17" E	Babubandha	Dug Well
DHANKAUDA	21°32'54" N	84°2'30" E	Sason1	Dug Well
DHANKAUDA	21°31'50" N	83°53'50" E	Hirakud	Dug Well
DHANKAUDA	21°37'55" N	84°2'58" E	Rengali	Dug Well
DHANKAUDA	21°31'30" N	83°54'15" E	Christianpara	Dug Well
DHANKAUDA	21°31'38" N	83°58'58" E	Jugipali	Dug Well
DHANKAUDA	21°31'43" N	83°58'55" E	Golgunda	Dug Well
DHANKAUDA	21°35'41" N	84°0'3" E	Pitapali	Dug Well
DHANKAUDA	21°33'5" N	83°58'38" E	Jamadarpali	Dug Well
DHANKAUDA	21°35'26" N	84°0'34" E	Goudpalli 1	Dug Well
DHANKAUDA	21°28'23" N	83°57'37" E	Sambalpur	Dug Well
JAMANKIRA	21°33'2" N	84°21'12" E	Kuagola	Dug Well
JAMANKIRA	21°36'23" N	84°28'17" E	Kansabahal Sahi	Dug Well
JAMANKIRA	21°26'14" N	84°1'59" E	Katar Kela	Dug Well
JAMANKIRA	21°29'24" N	84°16'36" E	Badarama	Dug Well
JAMANKIRA	21°27'52" N	84°13'50" E	Kadalipali	Dug Well
JAMANKIRA	21°42'49" N	84°22'46" E	Subarna Pali	Dug Well
JAMANKIRA	21°32'11" N	84°24'4" E	Jamankira 1	Dug Well
JUJOMURA	21°25'58" N	84°5'58" E	Jhargulanda	Dug Well
JUJOMURA	21°14'7" N	84°7'52" E	Jujumura village	Dug Well
JUJOMURA	21°27'30" N	84°6'40" E	Nildungri	Dug Well
JUJOMURA	21°14'22" N	84°8'15" E	Jujhumura	Dug Well
JUJOMURA	21°17'5" N	84°7'52" E	Gargarbahal	Dug Well
JUJOMURA	21°11'48" N	84°9'59" E	Koakud	Dug Well
JUJOMURA	21°24'50" N	84°2'0" E	Maneswar	Dug Well
JUJOMURA	21°21'31" N	84°5'12" E	Mundher	Dug Well
JUJOMURA	21°27'0" N	84°8'57" E	Padiabahal	Dug Well
JUJOMURA	21°26'51" N	84°10'57" E	Malgun	Dug Well
JUJOMURA	21°22'36" N	84°4'10" E	Bhabanipali	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
JUJOMURA	21°23'54" N	84°7'56" E	Badsahir	Dug Well
JUJOMURA	21°27'0" N	84°10'15" E	Gorupali	Dug Well
JUJOMURA	21°26'40" N	84°4'15" E	Jayantpur	Dug Well
JUJOMURA	21°19'48" N	84°18'41" E	Amlipani	Dug Well
JUJOMURA	21°18'54" N	84°6'23" E	Hathibari	Dug Well
KOCHINDA	21°44'33" N	84°20'54" E	Kuchinda	Dug Well
KOCHINDA	21°45'53" N	84°31'39" E	Kusumi	Dug Well
KOCHINDA	21°50'54" N	84°22'20" E	Nagadihi Chawk	Dug Well
KOCHINDA	21°48'5" N	84°21'22" E	Paruabhari	Dug Well
KOCHINDA	21°46'47" N	84°18'17" E	Telitiliamal	Dug Well
KOCHINDA	21°42'49" N	84°22'46" E	Boxma	Dug Well
KOCHINDA	21°45'8" N	84°26'37" E	Loiraguna	Dug Well
MANESWAR	21°25'38" N	84°0'51" E	Naxapali	Dug Well
MANESWAR	21°20'22" N	83°58'51" E	Bausenmura	Dug Well
MANESWAR	21°21'0" N	84°0'7" E	Baduapali	Dug Well
MANESWAR	21°14'19" N	83°56'20" E	Gainpura	Dug Well
MANESWAR	21°21'24" N	83°58'13" E	Khunti	Dug Well
MANESWAR	21°19'31" N	83°57'17" E	Chhachanpali	Dug Well
MANESWAR	21°24'22" N	83°59'45" E	Maltisubanpur	Dug Well
MANESWAR	21°13'6" N	83°54'59" E	Deogaon	Dug Well
MANESWAR	21°22'52" N	83°59'46" E	Gutanpada	Dug Well
MANESWAR	21°25'33" N	83°53'58" E	Gosala	Dug Well
MANESWAR	21°26'39" N	83°59'27" E	Dhanupalli	Dug Well
MANESWAR	21°18'39" N	83°56'50" E	Baragaon	Dug Well
MANESWAR	21°25'52" N	84°3'39" E	Talpali	Dug Well
MANESWAR	21°31'24" N	84°6'2" E	Parmanpur	Dug Well
MANESWAR	21°25'43" N	84°4'12" E	Bhoipali	Dug Well
MANESWAR	21°22'50" N	83°53'15" E	Rupapali	Dug Well
MANESWAR	21°24'25" N	83°59'22" E	Gunderpur	Dug Well
MANESWAR	21°27'27" N	84°1'55" E	Dandeipalli	Dug Well
MANESWAR	21°20'27" N	84°2'24" E	Jhankarbahali	Dug Well
MANESWAR	21°22'2" N	83°59'0" E	Batemura	Dug Well
MANESWAR	21°30'8" N	83°56'35" E	Remerha	Dug Well
MANESWAR	21°15'10" N	83°55'40" E	Dhama	Dug Well
MANESWAR	21°20'25" N	83°57'51" E	Sahaspur	Dug Well
MANESWAR	21°10'55" N	83°54'45" E	Larasara	Dug Well
MANESWAR	21°11'55" N	83°55'8" E	Hotapala	Dug Well
MANESWAR	21°20'38" N	83°53'11" E	Chiplima	Dug Well
MANESWAR	21°28'20" N	83°58'40" E	Dhankauda	Bore Well
NAKTIDEUL	21°6'53" N	84°23'19" E	Terebera	Dug Well
NAKTIDEUL	21°12'47" N	84°29'5" E	Majhipal	Dug Well
NAKTIDEUL	21°16'30" N	84°33'47" E	Chandrapura	Dug Well
NAKTIDEUL	21°22'21" N	84°21'57" E	Simlipal Chawk	Dug Well
NAKTIDEUL	21°10'7" N	84°25'56" E	Daincha	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
NAKTIDEUL	21°15'20" N	84°32'26" E	Naktideol	Dug Well
RAIRAKHOL	21°7'26" N	84°11'50" E	Rasibera	Dug Well
RAIRAKHOL	21°4'48" N	84°22'0" E	Bhaluchuan	Dug Well
RAIRAKHOL	21°4'12" N	84°24'15" E	Luhapank	Dug Well
RAIRAKHOL	21°4'0" N	84°20'0" E	Rairakhol(rampu	Dug Well
RAIRAKHOL	21°10'15" N	84°9'50" E	Mochibahal	Dug Well
RAIRAKHOL	21°6'15" N	84°12'40" E	Charmal	Dug Well
RAIRAKHOL	21°4'0" N	84°20'0" E	Rairakhol	Bore Well
RENGALI	21°33'35" N	84°7'22" E	Barodungri (Orampara)	Dug Well

SONAPUR				
BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
BINIKA	20°55'9" N	83°48'4" E	Karttanga	Dug Well
BINIKA	20°57'28" N	83°48'13" E	Saledi	Dug Well
BINIKA	21°4'9" N	83°47'5" E	Bishalpali	Dug Well
BINIKA	21°2'53" N	83°46'51" E	Antarda	Dug Well
BINIKA	20°58'55" N	83°44'41" E	Koiramunda 1	Dug Well
BINIKA	20°59'37" N	83°46'18" E	Sankara1	Dug Well
BINIKA	21°5'40" N	83°48'58" E	Ankhidadar	Dug Well
BINIKA	21°6'40" N	83°47'2" E	Sarangapali	Dug Well
BINIKA	20°55'55" N	83°47'12" E	Sansamura	Dug Well
BINIKA	21°5'0" N	83°44'22" E	Singhijuba	Dug Well
BINIKA	21°6'55" N	83°44'3" E	Bagdiha	Dug Well
BINIKA	21°6'2" N	83°41'26" E	Rampur	Dug Well
BINIKA	20°55'38" N	83°47'42" E	Mahadevpali	Dug Well
BINIKA	20°57'13" N	83°46'15" E	Bausuni	Dug Well
BINIKA	20°55'29" N	83°46'41" E	Sakama	Dug Well
BIRAMAHARAJPUR	20°52'15" N	84°7'5" E	Jatesingha	Dug Well
BIRAMAHARAJPUR	20°54'27" N	84°10'37" E	Tebhapadar	Dug Well
BIRAMAHARAJPUR	20°55'10" N	84°15'54" E	Gariamunda	Dug Well
BIRAMAHARAJPUR	20°53'38" N	84°10'5" E	Subalaya	Dug Well
BIRAMAHARAJPUR	20°55'37" N	84°3'32" E	Biramaharajpur	Dug Well
DUNGURIPALI	21°3'29" N	83°38'10" E	Baghahandi	Dug Well
DUNGURIPALI	20°59'41" N	83°32'45" E	Charuapali (new)	Dug Well
DUNGURIPALI	21°4'15" N	83°40'0" E	Barkarle	Dug Well
DUNGURIPALI	21°1'0" N	83°42'3" E	Bhimtikra	Dug Well
DUNGURIPALI	21°7'0" N	83°39'58" E	Sarasmal	Dug Well
DUNGURIPALI	21°0'55" N	83°39'32" E	Gajabandhu	Dug Well
DUNGURIPALI	21°2'49" N	83°33'9" E	Dunguripalli New	Dug Well
DUNGURIPALI	21°2'15" N	83°27'53" E	Ichhapur1	Dug Well
DUNGURIPALI	21°0'42" N	83°27'55" E	Karlajuri	Dug Well
DUNGURIPALI	21°4'48" N	83°33'40" E	Chandajhuri	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
DUNGURIPALI	21°3'40" N	83°35'53" E	Samalaichuan	Dug Well
DUNGURIPALI	21°2'49" N	83°32'5" E	Gambharipalli	Dug Well
SONEPUR	20°48'23" N	83°41'17" E	Baladi	Dug Well
SONEPUR	20°53'49" N	83°45'27" E	Khaliapali	Dug Well
SONEPUR	20°49'0" N	83°45'48" E	Bagduli	Dug Well
SONEPUR	20°51'16" N	83°49'22" E	Arjunpur	Dug Well
SONEPUR	20°52'28" N	83°49'20" E	Nandanamal	Dug Well
SONEPUR	20°53'17" N	83°48'59" E	Dhurakhaman	Dug Well
SONEPUR	20°56'33" N	83°46'12" E	Borumunda	Dug Well
TARBHA	20°39'8" N	83°39'3" E	Palsapadar	Dug Well
TARBHA	20°42'25" N	83°40'19" E	Sargaj 1	Dug Well
ULUNDA	20°54'47" N	83°54'40" E	Naikpada	Dug Well
ULUNDA	20°58'23" N	83°53'38" E	Ulunda	Dug Well
ULUNDA	20°51'39" N	83°57'51" E	Metakani	Dug Well
ULUNDA	21°0'40" N	83°57'10" E	Kotasamalai	Dug Well
ULUNDA	20°51'8" N	83°54'15" E	Sonepur	Dug Well
ULUNDA	21°2'48" N	83°48'0" E	Danipali	Dug Well
ULUNDA	20°51'39" N	83°57'51" E	Mahada	Dug Well
ULUNDA	21°8'9" N	83°52'41" E	S Patrapali	Dug Well
ULUNDA	20°59'42" N	83°47'32" E	Phulmuthi	Dug Well
ULUNDA	21°1'46" N	83°48'45" E	Binika	Dug Well
ULUNDA	21°5'5" N	83°51'25" E	Sindol	Dug Well

SUNDARGARH				
BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
BALISANKARA	22°16'40" N	83°56'50" E	Kinjrikela	Dug Well
BALISANKARA	22°21'42" N	84°6'2" E	Talsara	Dug Well
BALISANKARA	22°15'44" N	84°4'30" E	Putudihi	Dug Well
BANEIGARH	21°44'50" N	84°52'53" E	Indrapur	Dug Well
BARAGAON	22°10'22" N	84°18'20" E	Bargaon	Dug Well
BARAGAON	22°9'12" N	84°14'16" E	Deokaranpur	Dug Well
BARAGAON	22°9'6" N	84°13'57" E	Panderpali	Dug Well
BARAGAON	22°12'25" N	84°24'52" E	Shahajbahal	Dug Well
BARAGAON	22°17'19" N	84°18'29" E	Ekma	Dug Well
BISRA	22°15'26" N	84°53'6" E	R-23 Sector-3	Dug Well
BISRA	22°13'12" N	84°48'54" E	R-03 Panposh Rukutola	Dug Well
BISRA	22°16'32" N	84°51'23" E	R-34 Sector-17	Dug Well
BISRA	22°13'33" N	84°50'32" E	R-11 Hanuman Batika	Dug Well
BISRA	22°14'9" N	84°49'21" E	R-10 Raghunathpalli	Dug Well
BISRA	22°15'21" N	84°53'41" E	R-21 Sector-1	Dug Well
BISRA	22°15'37" N	84°50'22" E	R-30 Sector-13	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
BISRA	22°13'47" N	84°50'42" E	R-08 Udit Nagar-2	Dug Well
BISRA	22°13'43" N	84°49'16" E	R-04 Civil Township	Dug Well
BISRA	22°14'11" N	84°49'52" E	R-12 Gangadharpally	Dug Well
BISRA	22°15'57" N	84°52'2" E	R-33 Sector 18	Dug Well
BISRA	22°15'37" N	84°50'53" E	R-28 Sector-8	Dug Well
BISRA	22°15'30" N	84°48'18" E	R-14 Banposh (Urban)	Dug Well
BISRA	22°16'32" N	84°51'23" E	R-35 Sector-16	Dug Well
BISRA	22°14'19" N	84°56'14" E	R-15 Bandamunda	Dug Well
BISRA	22°15'33" N	84°51'8" E	R-27 Sector-7	Dug Well
BISRA	22°16'33" N	84°54'19" E	R-20 Jhirpani	Dug Well
BISRA	22°13'59" N	84°50'12" E	R-07 Udit Nagar-1	Dug Well
BISRA	22°11'15" N	84°51'18" E	R-02 Jalda Rangila Chhak	Dug Well
BISRA	22°16'8" N	84°54'26" E	R-19 Jagada	Dug Well
BISRA	22°15'45" N	84°51'12" E	R-36 Sector-15	Dug Well
BISRA	22°15'19" N	84°52'0" E	R-24 Sector-5	Dug Well
BISRA	22°14'36" N	84°52'57" E	R-17 Jhumpudibasti	Dug Well
BISRA	22°15'28" N	84°50'10" E	R-29 Sector-9	Dug Well
BISRA	22°15'56" N	84°53'27" E	R-32 Sector-20	Dug Well
BISRA	22°15'58" N	84°53'26" E	R-18 Koel Nagar	Dug Well
BISRA	22°15'22" N	84°53'35" E	R-22 Sector-2	Dug Well
BISRA	22°14'16" N	84°46'37" E	R-38 Kalunga	Dug Well
BISRA	22°14'15" N	84°50'18" E	R-06 Basanti Colony	Dug Well
BISRA	22°16'12" N	84°50'31" E	R-31 Sector-14	Dug Well
BISRA	22°11'35" N	84°51'45" E	R-01 Jalda C-Block	Dug Well
BISRA	22°13'34" N	84°51'39" E	R-09 Power House Road	Dug Well
BISRA	22°15'20" N	84°48'34" E	R-13 Chhend	Dug Well
BISRA	22°14'10" N	84°47'42" E	R-37 Vedvyas	Dug Well
BISRA	22°15'5" N	84°59'47" E	Bisra	Dug Well
BISRA	22°14'22" N	84°57'35" E	Bondamunda	Dug Well
BISRA	22°13'35" N	84°50'16" E	Uditnagar(rkl)	Dug Well
BISRA	22°15'10" N	84°52'23" E	R-25 Ambagaon	Dug Well
BISRA	22°15'22" N	84°51'37" E	R-26 Sector-6	Dug Well
GURUNDIA	21°47'6" N	84°34'54" E	Jarada	Dug Well
GURUNDIA	21°47'48" N	84°41'50" E	Kundeidiha	Dug Well
HEMGIR	22°3'20" N	83°50'0" E	Balichuan	Dug Well
HEMGIR	22°0'42" N	83°45'58" E	Garjan Bahal	Dug Well
HEMGIR	21°58'14" N	83°45'35" E	Durubaga	Dug Well
HEMGIR	21°56'40" N	83°42'5" E	Himgiri	Dug Well
HEMGIR	22°3'0" N	83°42'30" E	Gopalpur	Dug Well
HEMGIR	22°2'20" N	83°33'30" E	Taparia	Dug Well
KOIDA	21°59'20" N	85°7'2" E	Jamdihi	Dug Well
KOIDA	21°59'48" N	85°1'24" E	K.balang	Dug Well
KOIDA	21°54'23" N	85°15'15" E	Koira	Dug Well
KUANRMUNDA	22°21'18" N	84°44'45" E	Kumajharia	Dug Well

BLOCK_NAME	LATITUDE	LONGITUDE	SITE_NAME	SITE_TYPE
KUANRMUNDA	22°17'0" N	84°46'15" E	Kuarmunda	Dug Well
KUTRA	22°13'47" N	84°27'24" E	Kutra	Dug Well
KUTRA	22°12'39" N	84°24'4" E	Birangatoli	Dug Well
KUTRA	22°18'10" N	84°31'10" E	Laxmipos	Dug Well
KUTRA	22°17'38" N	84°31'24" E	Laxmipos 1	Dug Well
LAHUNIPARA	21°56'6" N	84°53'18" E	Darjin	Dug Well
LAHUNIPARA	21°49'5" N	84°57'30" E	Bonaigarh	Dug Well
LATHIKATA	22°1'30" N	84°55'10" E	Chandiposh	Dug Well
LATHIKATA	22°5'40" N	84°53'23" E	Banki	Dug Well
LATHIKATA	22°7'46" N	84°52'56" E	Lathikata	Dug Well
LEPHRIPARA	22°2'8" N	83°55'27" E	Zinc Nagar	Dug Well
LEPHRIPARA	22°6'5" N	83°50'52" E	Surguda	Dug Well
LEPHRIPARA	22°3'14" N	83°54'47" E	Sargipali	Dug Well
LEPHRIPARA	22°1'50" N	83°55'46" E	Zinc Nagar 1	Dug Well
LEPHRIPARA	22°6'58" N	83°49'10" E	Lefripada	Dug Well
LEPHRIPARA	22°5'4" N	83°50'26" E	Lokedega	Dug Well
NUAGAON	22°24'0" N	84°51'0" E	Hathibari	Dug Well
NUAGAON	22°24'37" N	84°43'52" E	Birmitrapur	Dug Well
RAJAGANGAPUR	22°13'2" N	84°31'5" E	Jharbera	Dug Well
RAJAGANGAPUR	22°11'25" N	84°34'45" E	Rajgangpur	Dug Well
RAJAGANGAPUR	22°16'36" N	84°31'27" E	Bihabandh Chawk	Dug Well
SUBDEGA	22°17'10" N	84°5'40" E	Sabdega	Dug Well
SUBDEGA	22°7'13" N	84°2'18" E	Sundargarh	Dug Well
SUBDEGA	22°11'35" N	84°1'5" E	Alikera	Dug Well
SUBDEGA	22°12'25" N	84°6'43" E	Panchomahala 1	Dug Well
SUNDARGARH	22°3'53" N	84°3'39" E	Medinipur	Dug Well
SUNDARGARH	22°0'42" N	84°2'0" E	Badbahal	Dug Well
SUNDARGARH	21°57'27" N	84°2'15" E	Bhasma	Dug Well
SUNDARGARH	22°3'29" N	84°11'28" E	Ledhimang	Dug Well
SUNDARGARH	21°59'11" N	84°1'32" E	kundukela	Dug Well
SUNDARGARH	22°9'10" N	84°6'14" E	Karamdihi	Dug Well
SUNDARGARH	22°0'36" N	84°14'13" E	Rabandihi	Dug Well
SUNDARGARH	21°59'22" N	83°58'35" E	Jagimal	Dug Well
SUNDARGARH	22°2'30" N	84°3'47" E	Bargad	Dug Well
SUNDARGARH	22°15'34" N	83°59'44" E	Moshani Kani	Dug Well
TANGARAPALI	22°6'15" N	83°58'20" E	Mahulapali	Dug Well
TANGARAPALI	22°8'3" N	83°55'53" E	Katra (Limidihi Para)	Dug Well
TANGARAPALI	22°6'15" N	83°57'30" E	Rangiamunda	Dug Well
TANGARAPALI	22°7'48" N	83°53'13" E	Balijori	Dug Well

ANNEXURE - II

WATER LEVEL DATA/FLUCTUATION FOR THE SPECIFIED PERIOD

STATE: ODISHA

DISTRICT: ANUGUL

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Amna	8.41	2.26	5.21	3.20	-2.95
2	Angul1	7.59	2.34	6.19	1.40	-3.85
3	Bagharia	3.90	1.45	4.00	-0.10	-2.55
4	Balanda	3.88	3.78	4.43	-0.55	-0.65
5	Balipeta		2.05	2.30		-0.25
6	Bamur	5.99	5.06	4.76	1.23	0.30
7	Banarpal1	7.15	3.25			
8	Bantala	6.83	3.20	7.45	-0.62	-4.25
9	Bantala-Ii	7.03	2.75	6.05	0.98	-3.30
10	Barhabahal	7.20	3.15	6.80	0.40	-3.65
11	Bhalugadia		3.65	4.45		-0.80
12	Bhogabereni	3.61	0.06	0.11	3.50	-0.05
13	Boinda-Ii	5.62	2.80	4.75	0.87	-1.95
14	Chainpal	11.78	12.00	11.00	0.78	1.00
15	Chauliakata	4.15	4.00	4.20	-0.05	-0.20
16	Chendipada1	6.29	2.01	6.26	0.03	-4.25
17	Derjung	9.25	7.10	9.00	0.25	-1.90
18	Durgapur 1	7.35	3.70	6.80	0.55	-3.10
19	Ghantapada	5.15	4.80	6.10	-0.95	-1.30
20	Godibandha	11.00	6.55	10.45	0.55	-3.90
21	Goribandha	9.05	5.50	8.68	0.37	-3.18
22	Handpa	6.12		5.12	1.00	
23	Handpa-Ii	8.53	3.30	5.80	2.73	-2.50
24	Jagannathpur	5.41	3.86	5.41	0.00	-1.55
25	Jamardihi	6.01	2.96	6.41	-0.40	-3.45
26	Jarpada Pz	6.80	3.20	6.05	0.75	-2.85
27	Jharpada	5.62	3.42	5.32	0.30	-1.90
28	Katada		2.00	3.55		-1.55
29	Khamar-1	7.06	4.06	6.21	0.85	-2.15
30	Khamar-Ii	8.14	6.25	7.75	0.39	-1.50
31	Kosala1	4.60	1.80	4.05	0.55	-2.25
32	Kuio	3.86	2.06	5.76	-1.90	-3.70
33	Kukurang	4.36	2.01	3.01	1.35	-1.00
34	Kulnara1	3.56	1.12			
35	Kumunda 1	2.10	1.55	2.75	-0.65	-1.20
36	Luhamunda		5.43	7.48		-2.05
37	Mahidharpur	8.94	3.69	8.09	0.85	-4.40
38	Maratira	5.30	1.70	3.80	1.50	-2.10
39	Nialu		4.20	6.70		-2.50
40	Nisa	3.10	2.22	3.52	-0.42	-1.30
41	Pabitranagar pz	15.73	6.80	13.10	2.63	-6.30
42	Pallahara1	4.15	2.55	3.35	0.80	-0.80
43	Panchmahala		4.50	9.85		-5.35

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
44	Panchmahala-Ii	9.10	4.20	8.50	0.60	-4.30
45	Purnakot	8.41	5.06	7.51	0.90	-2.45
46	Samal	2.48	1.78	2.93	-0.45	-1.15
47	Sana Santrabandha	6.48	2.65	6.25	0.23	-3.60
48	Seepur	10.50	4.00	9.77	0.73	-5.77
49	Sendhogram	5.52	5.27	5.47	0.05	-0.20
50	Sipur	7.75	3.80	7.75	0.00	-3.95
51	South Balanda	4.00				
52	Srirampur	8.40	2.70	8.30	0.10	-5.60
53	Talcher1	7.12	9.00	9.70	-2.58	-0.70
54	Tentulai	4.47	4.22	4.12	0.35	0.10
55	Thakurgarh 1	5.97	3.07	5.02	0.95	-1.95
56	Tikarpara		1.96	7.31		-5.35
57	Tikarpara-ii	8.59	1.69	8.49	0.10	-6.80
58	Tileswar	6.37	2.95	6.35	0.02	-3.40
59	Tubey	5.00	1.10	2.40	2.60	-1.30
60	Tulsipal	4.06	2.41	4.51	-0.45	-2.10
61	Ugi	10.95	7.50			

DISTRICT: BALANGIR

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Agalpur 1	3.70	2.12	6.64	**-2.94**	**-4.52**
2	Ampali (Rampur Ampali)	2.65	1.72	5.97	-3.32	-4.25
3	Atgan	3.31	2.06	3.84	-0.53	-1.78
4	Baijal Sagar		4.24	6.53		-2.29
5	Bairasar	5.48	3.80	5.40	0.08	-1.60
6	Balukunda	4.55	1.85	4.82	-0.27	-2.97
7	Bandupalla	4.50	1.75	3.31	1.19	-1.56
8	Banjari	4.04	3.52	6.13	-2.09	-2.61
9	Banjipali			3.75		
10	Belgaon	3.55	2.85	5.35	-1.80	-2.50
11	Belpara	4.99	3.84	6.09	-1.10	-2.25
12	Bijakhaman1	4.46	1.60	6.44	-1.98	-4.84
13	Bolangir-ii	4.49	1.09	1.65	2.84	-0.56
14	Bongamunda	6.42	4.88			
15	Burda		2.05	4.86		-2.81
16	Chhatamakna	5.83	4.00			
17	Chormara	3.80	2.34	2.33	1.47	0.01
18	Chudapali	4.28	3.17	4.92	-0.64	-1.75
19	Deogan		2.23			
20	DhamanaDonga	5.15	2.60	4.42	0.73	-1.82
21	Dhumamara	3.55	1.92	4.02	-0.47	-2.10
22	Duduka	3.10	2.30	3.16	-0.06	-0.86
23	Dudukasira	4.15	1.75	3.72	0.43	-1.97
24	Dulusara	3.78	0.73	3.54	0.24	-2.81
25	Dumabata	4.22	5.00	6.42	-2.20	-1.42
26	Dumalpada	3.76	3.85	5.81	-2.05	-1.96
27	Dumerbahal	3.35	3.90	5.72	-2.37	-1.82
28	Fasad	3.35	1.80	2.87	0.48	-1.07
29	Fatamunda	2.95				
30	Fattamunda	3.01	1.93	3.61	-0.60	-1.68
31	Gaintala	3.01	1.91	3.69	-0.68	-1.78
32	Ghambari		3.68	7.33		-3.65
33	Gudighat	3.90				
34	Haldia	4.74	4.66			
35	Harbhanga	3.80	2.15	1.96	1.84	0.19
36	Hardatal		1.33			
37	Harisankar	2.31	1.28	1.51	0.80	-0.23
38	Ichagaon	3.65	5.90	8.81	-5.16	-2.91
39	Jagua	4.35	1.70	3.80	0.55	-2.10
40	Jamut	4.40	4.47	6.03	-1.63	-1.56
41	Jhankar Pali	3.37	3.43	5.93	-2.56	-2.50
42	Jogimunda	3.13	2.77	4.37	-1.24	-1.60
43	Jogisarda	3.35	3.45	6.30	-2.95	-2.85

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
44	Jorpada	5.47	2.45	5.52	-0.05	-3.07
45	Kacherpalli (Deogaon)	3.17	2.23	2.72	0.45	-0.49
46	Kantabanji	6.55				
47	Kholan	4.24	4.26	7.01	-2.77	-2.75
48	Kurli	4.75	4.20			
49	Kurul	4.55	3.85	5.90	-1.35	-2.05
50	Lathor	4.59	4.71	10.03	-5.44	-5.32
51	Ledarbohal	4.10	4.15	7.08	-2.98	-2.93
52	Loisinga	4.35	2.50			
53	Madhiapali	5.47	3.80	5.01	0.46	-1.21
54	Mahagaon	2.60				
55	Minapali	4.30	3.90	5.61	-1.31	-1.71
56	Muribahal	3.85	5.15	7.53	-3.68	-2.38
57	Nekpada	4.75	2.90	4.40	0.35	-1.50
58	Nunhad	4.85	3.40	5.67	-0.82	-2.27
59	Padampur	5.16	2.91	5.92	-0.76	-3.01
60	Patnagarh-Ii	6.37	4.52	8.40	-2.03	-3.88
61	Phulkimunda	4.75	2.85	5.40	-0.65	-2.55
62	Piprut	3.85	2.35	4.68	-0.83	-2.33
63	Pudapalli	2.85	0.80	2.63	0.22	-1.83
64	Randa	2.53	2.03	0.93	1.60	1.10
65	Rigdol	3.45	2.98	4.55	-1.10	-1.57
66	Sagarpali	4.15	2.40	4.06	0.09	-1.66
67	Saintala 1	4.18	3.30	4.65	-0.47	-1.35
68	Salandi	5.56	3.10	7.25	-1.69	-4.15
69	Salebhata	3.45	2.90	3.80	-0.35	-0.90
70	Sarmohan-I	3.05	1.75	2.50	0.55	-0.75
71	Sikachhida 1	4.30		2.40	1.90	
72	Sindhikela (new)		1.93	3.57		-1.64
73	Sindhikela1		3.29	5.23		-1.94
74	Sinkhaman	3.80	3.45	4.25	-0.45	-0.80
75	Tarasingi	3.75	2.75	5.65	-1.90	-2.90
76	Tikrapada	3.40				
77	Titisilet	4.30	5.35	8.01	-3.71	-2.66
78	Titlagarh (new)	7.00				
79	Tureikela	6.03	4.35	6.88	-0.85	-2.53
80	Tusura		2.15	5.39		-3.24
81	Uchchabahal	3.69	3.18	2.55	1.14	0.63

DISTRICT: BALESHWAR

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Ayodhya	2.54	1.20	6.90	-4.36	-5.70
2	Baband	0.95	1.22	6.47	-5.52	-5.25
3	Baghudi 1	3.85	1.65	4.55	-0.70	-2.90
4	Bankisial	4.45	1.53	5.53	-1.08	-4.00
5	Basta 1	6.55	3.64	7.84	-1.29	-4.20
6	Benthiapada			4.60		
7	Bhagabondh	2.29	2.11	4.31	-2.02	-2.20
8	Bhalukasuni 1	4.75	2.70			
9	Champo			3.65		
10	Darkholi		1.85	4.45		-2.60
11	Gaudasahi	4.68	2.15	4.40	0.28	-2.25
12	Govindpur	4.94	1.16	5.16	-0.22	-4.00
13	Jamsuli	1.05				
14	Jodibali	4.49	3.85	6.15	-1.66	-2.30
15	Kansa 1	5.29	2.95	4.55	0.74	-1.60
16	Kuligaon	2.45	1.27	3.72	-1.27	-2.45
17	Kunchibenia	3.85	2.50	4.40	-0.55	-1.90
18	Kupari 1	0.90	0.60	1.60	-0.70	-1.00
19	Kushmi			3.80		
20	Matialli	5.15	2.00			
21	Mitrapur	1.51	2.25	3.55	-2.04	-1.30
22	Nilgiri 1	3.18	2.30	4.20	-1.02	-1.90
23	Nuaporhi			3.89		
24	Raibania 1	2.90	1.00	4.90	-2.00	-3.90
25	Remuna	4.40	1.80	6.30	-1.90	-4.50
26	Shrijang		0.83	3.63		-2.80
27	Siadimal	4.39	2.29	6.74	-2.35	-4.45
28	Sialghati			5.30		
29	Sunhat 2		0.50	5.25		-4.75
30	Tenda		3.90			

DISTRICT: BARGARH

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Attabira1	7.65		7.35	0.30	
2	Baghapalli	1.83	2.80	2.45	-0.62	0.35
3	Bargarh1	4.83				
4	Batetarma	5.29	3.40	5.73	-0.44	-2.33
5	Bhatli 1	2.02	1.93	2.28	-0.26	-0.35
6	Bheden 1	6.11	3.78	5.20	0.91	-1.42
7	Bhukta	6.76	1.92	5.28	1.48	-3.36
8	Bijepur1	8.27	5.13			
9	Boipur	0.44	1.50	0.78	-0.34	0.72
10	Bugbugi	7.52	4.40	7.87	-0.35	-3.47
11	Burda	1.24	4.05			
12	Burdapali	4.51	4.85	5.10	-0.59	-0.25
13	Chaklifarm	1.05	2.04	0.73	0.32	1.31
14	Chichinda	1.48				
15	Dang	1.33	1.50	1.25	0.08	0.25
16	Dumalpali	2.02	1.75	2.00	0.02	-0.25
17	Dungri	2.86	2.10			
18	Gaisilet3	3.99	1.87	3.55	0.44	-1.68
19	Ghens 1	5.71	3.01	5.79	-0.08	-2.78
20	Gondtarum	0.82	1.35	1.37	-0.55	-0.02
21	Gorbhaga	1.52				
22	Grinjal	5.51	1.88	6.73	-1.22	-4.85
23	Hirapur	2.75	3.64	7.80	-5.05	-4.16
24	Jagalpet	6.60	3.25	6.20	0.40	-2.95
25	Jamset	2.98		4.81	-1.83	
26	Jamurda	1.26	2.55	2.14	-0.88	0.41
27	Kalapani	0.43	2.46	1.19	-0.76	1.27
28	Kantabahal	6.97	5.10			
29	Karla	7.38	3.20	7.00	0.38	-3.80
30	Katapali		3.05	5.10		-2.05
31	Kharmanda	2.25				
32	Kharmunda 1	8.33	2.75	8.13	0.20	-5.38
33	Khuntapali	2.60	2.85	3.40	-0.80	-0.55
34	Khutlipalli	9.10	5.40	9.30	-0.20	-3.90
35	Kodabahal 2	0.80	2.19	2.20	-1.40	-0.01
36	Kulunda	1.96	2.37	2.37	-0.41	0.00
37	Kumbhari	1.18	2.11	1.90	-0.72	0.21
38	Kumelsingha	0.67	2.12	1.69	-1.02	0.43
39	Kuruan	1.74		2.64	-0.90	
40	Kusanpur	6.36	2.62	5.78	0.58	-3.16
41	Lakhanpur	3.79	1.80	4.12	-0.33	-2.32
42	Larambha	1.20	3.31	2.22	-1.02	1.09
43	Lastala	2.37	3.80	3.45	-1.08	0.35
44	Lenda	1.53	2.59	2.86	-1.33	-0.27

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
45	Majhipali	4.55	4.10	6.54	-1.99	-2.44
46	Malada	5.00	3.15	7.20	-2.20	-4.05
47	Mithapali	4.12	1.17	4.11	0.01	-2.94
48	Nrusingnath	3.90	1.70	2.17	1.73	-0.47
49	Padampur2		3.28	5.98		-2.70
50	Patrapalli	2.44	4.13	4.60	-2.16	-0.47
51	Purena	5.43	2.33	7.64	-2.21	-5.31
52	Purrakhai	1.94	1.40	2.20	-0.26	-0.80
53	Puturipali	0.61	1.88	1.60	-0.99	0.28
54	Remada	0.85	2.45	2.23	-1.38	0.22
55	Remenda	1.80	1.77	2.50	-0.70	-0.73
56	Rengalpali	0.41	2.13			
57	Resham	0.85	2.35	0.00	0.85	2.35
58	Rusuda	4.10	0.80			
59	Sarala	0.86	2.41	1.95	-1.09	0.46
60	Sarandapali	9.12	3.21			
61	Satlama	6.07	2.05			
62	Shukutapali	3.70	3.04	3.40	0.30	-0.36
63	Sikirdi	0.77	1.75	1.52	-0.75	0.23
64	Sulsulia	5.58	2.15			
65	Sunajuri-Tukuria	6.33	2.88	8.58	-2.25	-5.70
66	Thuapali1	2.42	2.93	2.70	-0.28	0.23
67	Top		1.37	1.19		0.18
68	Tora	1.08	2.65	3.47	-2.39	-0.82
69	Uttam	1.80	1.39	1.80	0.00	-0.41

DISTRICT: BAUDH

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Adenegarh	5.36	1.52	4.06	1.30	-2.54
2	Anlapali	4.55	2.65	4.55	0.00	-1.90
3	Auinla Chua Chhak	6.55		6.45	0.10	
4	Badhigaon	4.82	2.82	4.52	0.30	-1.70
5	Baghiapada	6.15	2.30	5.10	1.05	-2.80
6	Bala Singha	5.40	2.41	5.25	0.15	-2.84
7	Baring	5.45	0.50	3.70	1.75	-3.20
8	Boudh	4.99	3.92	4.64	0.35	-0.72
9	Bruhaspatipur	5.65	2.73	5.45	0.20	-2.72
10	Butupalli	6.40	2.25	5.70	0.70	-3.45
11	Charichak		1.17	2.05		-0.88
12	Dahya	6.00	2.02	4.95	1.05	-2.93
13	Dholpur	5.55	3.65	3.25	2.30	0.40
14	Erada	5.20	2.67	4.75	0.45	-2.08
15	Gaundisahi	5.50	2.62	5.10	0.40	-2.48
16	Gohipita	6.32	3.89	7.32	-1.00	-3.43
17	Gudveli Padar	5.25	2.43	4.75	0.50	-2.32
18	Gundulia	6.50	3.52	5.75	0.75	-2.23
19	Harbhanga	7.31	2.88	6.61	0.70	-3.73
20	Harekrishnapur	7.00	2.82	5.70	1.30	-2.88
21	Jahanapank	6.35	1.75	5.55	0.80	-3.80
22	Kamira	5.30	4.63	5.20	0.10	-0.57
23	Kantamal	6.30	3.00			
24	Karoda Kutha	7.50	2.15	5.05	2.45	-2.90
25	Khajuripada	5.70	3.56	5.45	0.25	-1.89
26	Khatkhatia	7.70		7.20	0.50	
27	Kusang	8.16				
28	Landibandh	5.83	1.49	5.03	0.80	-3.54
29	Laxmanpur	4.78	1.30	3.98	0.80	-2.68
30	Lumurjena	4.80	1.17	3.05	1.75	-1.88
31	Lunibahal	6.02	3.58	2.97	3.05	0.61
32	Maheswar Pinda	6.70	2.60	5.00	1.70	-2.40
33	Manamunda	7.45	3.68	5.25	2.20	-1.57
34	Nuapada	6.32				
35	Nuapada 1(Tikira sahi)	6.30	3.36	6.05	0.25	-2.69
36	Nuapali	4.95	1.13	4.40	0.55	-3.27
37	Palasaguda	6.60				
38	Palasaguda1	7.00	2.97	6.75	0.25	-3.78
39	Polam 2	5.20	2.42	4.55	0.65	-2.13
40	Purnakatak1		4.46			
41	Purunakatak	5.40		4.10	1.30	

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
42	Radha Nagar	7.15	3.62	6.20	0.95	-2.58
43	Rambhikata	6.65	3.48	5.80	0.85	-2.32
44	Sangrampur	4.90	2.67	4.80	0.10	-2.13
45	Sanrahajhar	5.57				
46	Sarsara	4.75	0.90	3.70	1.05	-2.80
47	Sarta-Guda	6.35	3.11	6.35	0.00	-3.24
48	Singari chhak	6.56	1.48	5.16	1.40	-3.68
49	Telibandha			5.00		
50	Tilesar 1	8.35	2.47	7.45	0.90	-4.98
51	Tileswar	7.63		6.58	1.05	
52	Tukulunda	7.64	2.64	5.84	1.80	-3.20
53	Udaipur	8.30	3.58	5.40	2.90	-1.82
54	Usbelika	6.10	2.92	5.70	0.40	-2.78

DISTRICT: BHADRAK

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Ada Sasan	2.83	0.80	3.90	-1.07	-3.10
2	Agarpara	4.25	0.83	6.33	-2.08	-5.50
3	Bagdavinayakpur	3.17	0.59	4.79	-1.62	-4.20
4	Balipatna			3.50		
5	Benipur	5.10	0.80	4.60	0.50	-3.80
6	Bentola	2.66	0.70	3.20	-0.54	-2.50
7	Bethaligaon Pallashi	2.02	1.00	2.45	-0.43	-1.45
8	Bhagvenpur	3.64	0.90	4.60	-0.96	-3.70
9	Bidanpur	1.32	0.22	3.22	-1.90	-3.00
10	Durgapur	1.75	1.10	1.90	-0.15	-0.80
11	Jasotikiri	5.88	3.00	6.10	-0.22	-3.10
12	Kothar 2			4.35		
13	Kothar 3	2.52	0.70	4.00	-1.48	-3.30
14	Rambhila	3.06	0.50	4.70	-1.64	-4.20
15	Randia	1.79	1.00	1.45	0.34	-0.45
16	Tihidi	1.30	0.60	2.85	-1.55	-2.25

DISTRICT: CUTTACK

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Abhimanpur	6.35	2.05	6.10	0.25	-4.05
2	Anantapur	3.40	1.80	2.70	0.70	-0.90
3	Athagarh-1	5.72	2.48	4.83	0.89	-2.35
4	Balijhari 1	8.69	2.70	5.60	3.09	-2.90
5	Banki1	4.57		5.00	-0.43	
6	Baramba	10.25	2.22	10.97	-0.72	-8.75
7	Baranga	7.40				
8	Belasahi	4.50	1.80	4.40	0.10	-2.60
9	Brahmana Jhharilo	3.95	1.42	3.42	0.53	-2.00
10	C-03 Khannagar	2.85	0.20	1.02	1.83	-0.82
11	C-04 Khannagar (Kalivihar)	1.45				
12	C-06 Bidanasi	1.75	1.30	1.53	0.22	-0.23
13	C-07 Sekhbazar	3.75	2.70	2.87	0.88	-0.17
14	C-09 Bose Campus	1.23	0.95	1.10	0.13	-0.15
15	C-10 Sikharpur	1.20	0.97	1.00	0.20	-0.03
16	C-12 Nimasahi (Haripur)		0.85	0.90		-0.05
17	C-13 Mahammadia Bazar	5.50	4.40	5.18	0.32	-0.78
18	C-14 Chandi Mandir	2.60	0.85	2.00	0.60	-1.15
19	C-16 Bauxi Bazar	3.38	2.20	3.00	0.38	-0.80
20	C-17 Fakirpur	2.75	0.77	1.87	0.88	-1.10
21	C-18 Jagatpur	6.40	2.65			
22	C-19 Chauliaganj		1.30	1.23		0.07
23	C-20 Nadikula sahi (Sikharpur)	0.50	0.20	0.22	0.28	-0.02
24	C-21 Bidyadharpur	5.30				
25	C-23 Railway Colony (OMP Sqr)	4.65	2.65	3.37	1.28	-0.72
26	C-25 Balikuda-2	2.97	1.90	2.30	0.67	-0.40
27	C-26 Jagatpur-2	3.60	1.60	3.18	0.42	-1.58
28	C-27 Manguli Chhak	2.40	1.80	1.85	0.55	-0.05
29	C-28 Jagatpur-3 (Nuasahi)	4.55	4.65	4.85	-0.30	-0.20
30	C-29 Khapuria Bazar		2.90	4.72		-1.82
31	C-30 Khapuria (Nuapada)	0.50	0.45	0.48	0.02	-0.03
32	C-31 Pithapur	1.60	0.97	1.05	0.55	-0.08
33	C-32Khapuria	4.95		5.56	-0.61	
34	C-33 Lakshmi Mandap (Badambari)	0.45		0.20	0.25	
35	C-34 Chakuli	1.95	0.80	2.17	-0.22	-1.37
36	C-35 Netaji Nagar	2.62	1.92	3.27	-0.65	-1.35
37	Choudwar	1.42	1.47	1.50	-0.08	-0.03
38	Chowdwar	6.48	5.18	5.03	1.45	0.15

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
39	Dimiri	5.50	2.20	6.60	-1.10	-4.40
40	Gopalpur2	3.57	1.60	3.02	0.55	-1.42
41	Gopapur	4.70	1.90	4.20	0.50	-2.30
42	Jagatpur-i	3.74	3.66	3.96	-0.22	-0.30
43	Kanapur	3.82	1.21	3.16	0.66	-1.95
44	Kandarpur	5.45	0.75	2.65	2.80	-1.90
45	Kantapara1	4.94	3.29			
46	Karadibandh	6.00	2.90	6.15	-0.15	-3.25
47	Kasarda	3.90	1.50	4.05	-0.15	-2.55
48	Khuntuni	2.70				
49	Kulia Market	2.20	1.30	2.60	-0.40	-1.30
50	Madhab	3.01	2.26	3.36	-0.35	-1.10
51	Megha	4.07	3.25	3.40	0.67	-0.15
52	Nachhipur	2.70	1.75	2.45	0.25	-0.70
53	Narsingpur	7.53	1.90	6.30	1.23	-4.40
54	Niali	4.48		4.51	-0.03	
55	Nimpur	4.32	2.27	3.90	0.42	-1.63
56	Nischintakoili (new)	1.85	0.85	1.20	0.65	-0.35
57	Nuagarh	3.55	2.02	4.10	-0.55	-2.08
58	Oranda	6.67	4.82	5.07	1.60	-0.25
59	Orati	2.60	1.20	2.63	-0.03	-1.43
60	Pari Amarpada	3.70	2.25	3.50	0.20	-1.25
61	Radha Gobindapur	7.70	1.80	5.10	2.60	-3.30
62	Rajnagar	2.41	2.41	2.01	0.40	0.40
63	Sankhmiri	2.83	1.08	2.93	-0.10	-1.85
64	Sankilo	3.90	2.25	2.10	1.80	0.15
65	Saradapur	5.54	2.59	5.29	0.25	-2.70
66	Sisua	3.00	1.65	2.60	0.40	-0.95
67	Tangi1		1.20	3.99		-2.79
68	Telengapenth	4.30	2.35	2.70	1.60	-0.35
69	Tigiria	1.44	0.34	1.04	0.40	-0.70

DISTRICT: DEBAGARH

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Barkot-iii		2.62			
2	Deogarh	4.65	1.57	3.78	0.87	-2.21
3	Kalamati	6.15	1.34	5.75	0.40	-4.41
4	Kalkat	6.80	2.20	6.80	0.00	-4.60
5	Purumunda	6.75	2.42	6.42	0.33	-4.00
6	Rengalbeda	4.64	1.44	4.37	0.27	-2.93
7	Riamal	4.22				
8	Tarang	6.10	3.13			
9	Telimunda	4.90	2.97	5.00	-0.10	-2.03
10	Tileibani	8.38	1.18	7.93	0.45	-6.75

DISTRICT: DHENKANAL

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Alnaberini 1	10.74	5.20	10.30	0.44	-5.10
2	Babandh	4.39	0.78	4.38	0.01	-3.60
3	Badajhara		2.19	5.89		-3.70
4	Badasuanlo-Hatwari		2.70	5.50		-2.80
5	Baisingha		3.45	7.07		-3.62
6	Baisingha-Ii	9.45	5.90	8.55	0.90	-2.65
7	Baldiabandh	7.34	5.44	6.74	0.60	-1.30
8	Balmi	8.32	4.02	8.32	0.00	-4.30
9	Balrampur	4.12	0.82	1.87	2.25	-1.05
10	Bandhnuagaon	6.10	1.88	4.68	1.42	-2.80
11	Batgaon	5.06	2.76	5.31	-0.25	-2.55
12	Bhapur2	5.30	1.30	4.50	0.80	-3.20
13	Bhuban	6.30	4.38	6.23	0.07	-1.85
14	Bhuban-Ii	4.20	2.15	3.25	0.95	-1.10
15	Deogaon	5.55	1.00	3.00	2.55	-2.00
16	Dhaulpur	5.62	1.50	5.00	0.62	-3.50
17	Dhenkanal	2.59	1.54	2.24	0.35	-0.70
18	Gangutia	5.99	4.57	5.22	0.77	-0.65
19	Goda	8.27	4.47	8.17	0.10	-3.70
20	Gondia1	3.41	0.89	2.14	1.27	-1.25
21	Hatwari	5.41	3.26	5.61	-0.20	-2.35
22	Hindol1	7.80	4.95	6.15	1.65	-1.20
23	Joranda	7.20	3.45	6.25	0.95	-2.80
24	Kaimati	5.04	2.04	5.04	0.00	-3.00
25	Kamakyanagar	8.81	3.30	3.49	5.32	-0.19
26	Kamakyanagar-Ii	7.66	3.80	3.75	3.91	0.05
27	Kandarsingha	6.06	1.36	5.06	1.00	-3.70
28	Kankadahad	7.98	6.23	7.23	0.75	-1.00
29	Karanda	5.87	1.02	5.22	0.65	-4.20
30	Mahulpal	5.73	2.13	6.03	-0.30	-3.90
31	Mahulpunja		2.32	4.77		-2.45
32	Mandar	6.64	4.19	6.19	0.45	-2.00
33	Mathakaragola	8.43	6.20	8.20	0.23	-2.00
34	Motanga		3.89			
35	Motanga-Ii	6.00	2.45	5.50	0.50	-3.05
36	Muktaposi	6.62	1.22	5.42	1.20	-4.20
37	Parjang1	5.49	2.09	3.79	1.70	-1.70
38	Rasol	9.24	1.84			
39	Sading	5.62	1.77	3.02	2.60	-1.25
40	Samacharanapur	7.30	2.20	6.50	0.80	-4.30
41	Samole	5.01	2.56	4.56	0.45	-2.00
42	Saptasaja		2.26			
43	Shankarpur	4.46	2.01	3.86	0.60	-1.85
44	Singhada	2.91	1.50	6.05	-3.14	-4.55

DISTRICT: GAJAPATI

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Adaba	5.86	2.46	4.91	0.95	-2.45
2	Appalanaidupetta	3.43	2.13	3.93	-0.50	-1.80
3	Bada Khoni	4.60	1.10	4.90	-0.30	-3.80
4	Chandiput 1	5.00	0.50	5.30	-0.30	-4.80
5	Chandragiri 1	11.05	5.85	5.15	5.90	0.70
6	Dantarinalo	7.15				
7	Garabandh	2.75	1.10	3.80	-1.05	-2.70
8	Gosani	2.36	1.06	1.86	0.50	-0.80
9	K Sitapur	5.10				
10	Kantragada	0.95	1.50	2.75	-1.80	-1.25
11	Kasinagar	4.95	2.40	5.70	-0.75	-3.30
12	Kattalakanita	4.28	1.83	4.93	-0.65	-3.10
13	Khajuripara		2.04			
14	Kirama	5.15	2.65	4.65	0.50	-2.00
15	Ladruma	8.85	2.85	8.45	0.40	-5.60
16	Lavanya Khotta	4.88	1.73	3.38	1.50	-1.65
17	Lavanyagada	4.65	2.00	3.50	1.15	-1.50
18	Lillygada	1.55	2.60	3.30	-1.75	-0.70
19	Luhaguda	8.10	2.80			
20	Madhura-Amba	3.25	2.75			
21	Minigaon	6.80	2.90	6.55	0.25	-3.65
22	Mohana	11.28	1.78	11.28	0.00	-9.50
23	Narayanpur	4.88	2.13	5.43	-0.55	-3.30
24	Parasamba	6.65	1.80	6.00	0.65	-4.20
25	Parlakhemundi	3.30	1.60	3.50	-0.20	-1.90
26	Pegoda	7.00	2.40			
27	Raygarh	2.56	3.01	2.51	0.05	0.50
28	Santhi Nagar	2.65	1.75	2.25	0.40	-0.50
29	Sebakpur	7.45	3.70	10.10	-2.65	-6.40
30	Suklipadar	4.87	2.87	4.37	0.50	-1.50
31	Taramala	2.60	0.20	3.60	-1.00	-3.40
32	Tattipati	6.90	1.05	5.65	1.25	-4.60
33	Zubagaon	5.62		4.72	0.90	

DISTRICT: GANJAM

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Ambapua	3.40				
2	Badakhandi	0.76	2.16	1.06	-0.30	1.10
3	Badakholi		2.27	2.52		-0.25
4	Balipadar	3.40	1.60	1.95	1.45	-0.35
5	Balrampur	2.10	3.05	2.20	-0.10	0.85
6	Bananai	1.28	1.83	4.13	-2.85	-2.30
7	Baragam	3.74	1.59	3.89	-0.15	-2.30
8	Belaguntha1	2.44	1.04	4.84	-2.40	-3.80
9	Bhanjanagar-i		2.39			
10	Bhanjanagar-ii	5.53	2.78	6.13	-0.60	-3.35
11	Bhetnai	3.28	0.73	3.83	-0.55	-3.10
12	Buguda1	3.35	2.45	2.75	0.60	-0.30
13	Chadeiapalli Chhak	5.70	3.30	6.00	-0.30	-2.70
14	Chamkahandi	3.22	1.42	1.82	1.40	-0.40
15	Chatrapur1	3.15	1.95	2.45	0.70	-0.50
16	Chikiti	2.27	0.47	1.47	0.80	-1.00
17	Dadralunda	1.30	2.40	2.70	-1.40	-0.30
18	Dharkote	1.99	0.94	2.79	-0.80	-1.85
19	Digapahandi 1	6.10	1.70	4.10	2.00	-2.40
20	Dumdumi	4.91	0.41	1.61	3.30	-1.20
21	Gallery		2.62	5.07		-2.45
22	Gangapur	4.57				
23	Ganjam	1.12	0.42	1.07	0.05	-0.65
24	Gayagonda 1	6.15	3.30	5.95	0.20	-2.65
25	Gobara	3.20	0.85	6.40	-3.20	-5.55
26	Golabandha	7.00	3.95			
27	Golanthara	4.56	2.76	4.06	0.50	-1.30
28	Govindpur1	4.03	1.68	3.03	1.00	-1.35
29	Gudiali	7.33	1.93	0.48	6.85	1.45
30	Hinjalapalli	5.15				
31	Hinjalapalli 1		2.30	3.80		-1.50
32	Hinjlikatu	5.46	1.51	3.56	1.90	-2.05
33	Huma	0.20	0.05	0.15	0.05	-0.10
34	Hummuri	5.10	2.50	3.85	1.25	-1.35
35	Jagannathprasad	5.46	1.61			
36	Jakara	2.50	0.70	1.35	1.15	-0.65
37	Jamuni	4.73				
38	Jarada1	3.85	2.05	1.75	2.10	0.30
39	Jayantipur	6.70	0.10	1.10	5.60	-1.00
40	Jhadabhumi	5.60	1.30	6.20	-0.60	-4.90
41	K.nuagan		1.28			
42	K.S.Nagar1	0.95	3.10			
43	Kalamba	8.52	1.62	7.67	0.85	-6.05

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
44	Kamappalli		3.50			
45	Kankia	5.47	2.42			
46	Karachuli	2.44	3.67	2.37	0.07	1.30
47	Kendupadar	3.21		3.76	-0.55	
48	Khalikot	3.96	2.08	4.73	-0.77	-2.65
49	Khandrabali	2.80	2.15			
50	Kodala	3.74	2.80	4.10	-0.36	-1.30
51	Koitra	2.55	0.30	2.15	0.40	-1.85
52	Kontaipalli 1	3.42	0.47	6.52	-3.10	-6.05
53	Kukudahandi		0.92	3.22		-2.30
54	Lathi	4.38	1.03	2.13	2.25	-1.10
55	Lathipada	5.59	1.69	6.19	-0.60	-4.50
56	Laxmipur1		2.12	2.82		-0.70
57	Mangalpur2	3.81	2.26	3.76	0.05	-1.50
58	Mantridi	1.88	0.38	1.83	0.05	-1.45
59	Mujhagarh	5.93	4.78	7.58	-1.65	-2.80
60	Mundamarai		1.58	0.88		0.70
61	Narendrapur	8.30	4.95			
62	Nuagaon2	3.41				
63	Nuagaon3		2.40			
64	Nuapalli	2.35	1.35	1.75	0.60	-0.40
65	Patapur	8.31	2.41	7.61	0.70	-5.20
66	Patrapur1	5.97	1.82	1.87	4.10	-0.05
67	Phulata	4.06	1.01	2.61	1.45	-1.60
68	Pitamberpur	3.85	1.05	3.60	0.25	-2.55
69	Pochilima	3.30	1.30	3.00	0.30	-1.70
70	Poirasi	3.25	2.45	3.40	-0.15	-0.95
71	Polasora	2.78	2.28	2.98	-0.20	-0.70
72	Pudamari	3.69	0.59	3.24	0.45	-2.65
73	Purusatampur	5.63	3.13	5.23	0.40	-2.10
74	Rambha	2.40	1.70	2.60	-0.20	-0.90
75	Ratanpur	3.60	1.75	2.45	1.15	-0.70
76	Rohigaon			3.29		
77	Saishamuli 1	4.95	4.16	5.15	-0.20	-0.99
78	Sorada 1			2.56		
79	Subash Ch.Pur	7.21	2.76	7.91	-0.70	-5.15
80	Suramani	2.75	2.50	3.40	-0.65	-0.90
81	Surangi	2.53	2.03	1.46	1.07	0.57
82	Surlaroad 1		1.95			
83	Tanganapalli 1	1.65	2.85	1.40	0.25	1.45
84	Tarasingi	8.58	5.33	9.18	-0.60	-3.85
85	Tilisingi	4.12		4.39	-0.27	
86	Turumu1	2.75	2.30	2.95	-0.20	-0.65

DISTRICT:JAGATSINGHAPUR

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Balarampur		1.97	1.68		0.29
2	Balia Store	2.05	1.05	2.23	-0.18	-1.18
3	Balikuda 3		0.85			
4	Balikuda2	2.80	0.85	4.36	-1.56	-3.51
5	Bhutmundi1	2.90	1.50	3.13	-0.23	-1.63
6	Ersama2	3.40	2.00	4.81	-1.41	-2.81
7	Govindpur		1.46	1.36		0.10
8	Kanakpur	2.05	0.95	1.45	0.60	-0.50
9	Kujang	3.38		1.13	2.25	
10	Mukundpur	2.40				
11	Nuagaon	1.80		1.40	0.40	
12	Nuapolbazar	2.20	1.25			
13	Paradeepgarh1	2.14	0.63	2.13	0.01	-1.50
14	Raghunathpur	5.40	4.70	6.10	-0.70	-1.40
15	Sinharpur	7.00	1.60			
16	Siuli	2.75	0.80	2.30	0.45	-1.50

DISTRICT: JAJAPUR

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Ambasar	3.79	1.89			
2	Amnut Monohi	2.20	0.80	1.82	0.38	-1.02
3	Arkhapur	3.65	0.35	2.45	1.20	-2.10
4	Baruda	2.81	1.48	2.19	0.62	-0.71
5	Chinguripal	12.66	5.46	6.64	6.02	-1.18
6	Danagadi 1	6.30	1.85	4.28	2.02	-2.43
7	Dankari	3.76	1.01	2.91	0.85	-1.90
8	Dasarathpur	2.50	1.60	2.66	-0.16	-1.06
9	Dubri 1	2.57	0.93	0.97	1.60	-0.04
10	Garamian			3.81		
11	Haridaspur	2.46	0.91	2.06	0.40	-1.15
12	Jajpur	4.95	2.85	4.98	-0.03	-2.13
13	Jakhpura	6.52	3.82	4.25	2.27	-0.43
14	Jamjhari	9.10	5.85	8.20	0.90	-2.35
15	Jhargadia	9.17	7.97	9.07	0.10	-1.10
16	Kabatabandha	2.93	1.38	2.36	0.57	-0.98
17	Kalamatia	3.02	2.40	3.62	-0.60	-1.22
18	Khonedi	4.48	1.38	3.08	1.40	-1.70
19	Madhupurgarh	6.13	1.98	4.44	1.69	-2.46
20	Neulpur		0.62			
21	Neulpur 1		1.00			
22	Phuljhore	3.30	0.30	2.10	1.20	-1.80
23	Pobala	4.88	2.13	3.65	1.23	-1.52
24	Purunabavlamola	9.15	7.05	7.93	1.22	-0.88
25	Ragadiposi	6.79	3.77	5.99	0.80	-2.22
26	Ragedi 1	4.40	4.20	4.02	0.38	0.18
27	Saruabil(nuasah	11.36	5.16			
28	Senoi		2.29	2.44		-0.15
29	Singpur			4.41		
30	Sohupur	2.38	1.00	2.80	-0.42	-1.80
31	Sukinda	2.22	1.22	1.67	0.55	-0.45

DISTRICT:JHARSUGUDA

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Belpahar	7.95	3.63	7.85	0.10	-4.22
2	Bhalupatra	4.50	2.00	4.98	-0.48	-2.98
3	Bhikhampali	4.36		4.32	0.04	
4	Brajrajnagar	6.16	4.96	5.19	0.97	-0.23
5	Chadnimal	6.05	1.75	6.92	-0.87	-5.17
6	Jamkani (arda)	3.90	1.50	6.30	-2.40	-4.80
7	Jharsuguda 2		1.55			
8	Jharsuguda1	7.08		2.83	4.25	
9	Katarbaga	3.70	0.96	4.95	-1.25	-3.99
10	Kirimera	3.90	1.42	4.58	-0.68	-3.16
11	Lakhanpur	5.75	2.55	5.65	0.10	-3.10
12	Omp Check Gate			6.80		
13	Panchagaon	5.20	1.00	5.72	-0.52	-4.72
14	Ram Kumar Chawk	7.20	1.52	7.12	0.08	-5.60
15	Sahaspur	6.60	2.10	6.60	0.00	-4.50
16	Singarpur	2.10	1.52	2.80	-0.70	-1.28
17	Sriyapali	8.40		8.50	-0.10	

DISTRICT:KALAHANDI

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Ampani	6.38	1.98	4.83	1.55	-2.85
2	Attanguda	4.10	1.66	5.10	-1.00	-3.44
3	Badbasul	3.50	4.10	6.40	-2.90	-2.30
4	Bakatpur	8.05	3.84	4.05	4.00	-0.21
5	Baldiamal	4.10	0.87	3.60	0.50	-2.73
6	Bandigaon	5.10	1.81	3.10	2.00	-1.29
7	Baner	3.28	0.94	3.98	-0.70	-3.04
8	Bawanipatna	6.26	3.64	8.06	-1.80	-4.42
9	Bijamara	3.80	3.10	4.40	-0.60	-1.30
10	Biswanathppur	7.40	3.85	7.10	0.30	-3.25
11	Charbahal	2.80	1.29	5.30	-2.50	-4.01
12	Chiliguda1	3.60	2.86	3.40	0.20	-0.54
13	Dalguma	7.40	7.92	9.30	-1.90	-1.38
14	Dharamgarh	5.24	3.70	6.94	-1.70	-3.24
15	Golmunda	6.66	3.06	4.66	2.00	-1.60
16	Gunupur	3.26	1.18	1.56	1.70	-0.38
17	Jaipatna	5.32		5.22	0.10	
18	Junagarh 1	6.00	2.49	5.10	0.90	-2.61
19	Kalampur	5.63	1.60	2.63	3.00	-1.03
20	Kegaon	6.84	3.37	6.54	0.30	-3.17
21	Koksara	2.30	1.19	3.90	-1.60	-2.71
22	Madanpur1		3.86	6.50		-2.64
23	Mahichala	2.77	1.68	2.07	0.70	-0.39
24	Malgaon	3.90	1.49	5.60	-1.70	-4.11
25	Moter	4.60		4.20	0.40	
26	M-rampur	5.62	3.71	5.12	0.50	-1.41
27	Narla	6.32	2.11			
28	Pokaribandh	4.40	1.78	8.10	-3.70	-6.32
29	Risida	5.72	1.89	6.57	-0.85	-4.68
30	Santapur	4.23	3.03	4.23	0.00	-1.20
31	Sargigora	7.20	6.00	10.10	-2.90	-4.10
32	Sunamala	3.55	2.19	4.40	-0.85	-2.21
33	Tal Jaring	5.70	1.61	4.40	1.30	-2.79
34	Tulapada	3.82	0.45	2.52	1.30	-2.07
35	Tundala	7.00	3.23	5.60	1.40	-2.37

DISTRICT: KANDHAMAL

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Baliguda	8.65	6.28	8.20	0.45	-1.92
2	Daringbadi		8.41			
3	Dubagarh	6.40	3.22	6.20	0.20	-2.98
4	G. Kalinga		5.97			
5	G.udaigiri	7.55				
6	G.udaigiri 1		4.72			
7	Gudari		0.75			
8	Gunjibadi	10.35	8.43	9.70	0.65	-1.27
9	Kalinga	9.61		9.51	0.10	
10	Katringia	10.43	9.48	9.03	1.40	0.45
11	Khajuripada	8.85	4.85	6.05	2.80	-1.20
12	Kurtamgarh	8.10	6.34	7.60	0.50	-1.26
13	Lingagada 1		6.35			
14	Mandakia		7.21			
15	Nuagaon	10.30	8.12	10.05	0.25	-1.93
16	Paburiya	9.78	7.40	9.63	0.15	-2.23
17	Phiringia-i	6.80	11.26	7.20	-0.40	4.06
18	Phirinjia-ii	6.29				
19	Kandhamal1	10.80	8.93	11.05	-0.25	-2.12
20	Podapada		8.19			
21	Raikia-ii	6.99	3.80	6.84	0.15	-3.04
22	Ranipathar			5.85		
23	Sankarakhol	5.45	2.95	4.65	0.80	-1.70
24	Sarangarh		2.82			
25	Sudrukumpa	6.85	4.08	5.05	1.80	-0.97
26	Telapalli	6.50	5.02	6.20	0.30	-1.18
27	Tikabali		3.64			
28	Vetkhol		5.31			

DISTRICT: KENDRAPARA

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Aul(Ali)	3.27	1.62	3.85	-0.58	-2.23
2	Barua	3.20	0.70	3.44	-0.24	-2.74
3	Barua 1		1.20			
4	Chadeiguan			3.22		
5	Chandibazar	1.75	0.45	2.32	-0.57	-1.87
6	Chandola	2.20	0.70	1.88	0.32	-1.18
7	Dalbi	1.62	1.00	2.44	-0.82	-1.44
8	Duhuria	2.48	1.05	1.87	0.61	-0.82
9	Hatia	3.50	2.60			
10	Jajanga	3.20	1.28	2.95	0.25	-1.67
11	Jamdhar	2.50	0.80	2.30	0.20	-1.50
12	Jantilo	2.74	1.05	2.90	-0.16	-1.85
13	Kajala	4.75		4.48	0.27	
14	Kasoti	1.65	0.09	1.35	0.30	-1.26
15	Laxminarayanpur	9.63	2.30	4.37	5.26	-2.07
16	Mahakalpara	3.30	1.60			
17	Mahakalpara 1		2.10			
18	Mulabasanta	3.35	1.50	3.35	0.00	-1.85
19	Nikrai1	1.60	0.15	1.53	0.07	-1.38
20	Pattamundai3	3.17	2.15	3.22	-0.05	-1.07
21	Rajnagar	2.80	1.35	2.78	0.02	-1.43
22	Ramnagar	2.60	0.80	3.43	-0.83	-2.63
23	Shyamsundarpur		2.17	3.10		-0.93

DISTRICT: KENDUJHAR

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Akul	5.23	2.40	4.85	0.38	-2.45
2	Badaposhi	6.90	1.45	5.65	1.25	-4.20
3	Badbil	7.60				
4	Balaniposi	6.90	2.10	6.30	0.60	-4.20
5	Balarampur	5.16	1.55	3.10	2.06	-1.55
6	Balijhodi		3.61			
7	Barpada	3.34	1.20	2.40	0.94	-1.20
8	Baxibarigan	6.72	3.80	5.10	1.62	-1.30
9	Bhadrasahi	7.78	6.70	7.45	0.33	-0.75
10	Bhagomunda	3.92	3.02	2.67	1.25	0.35
11	Bimala	5.77	3.15	5.97	-0.20	-2.82
12	Birgovindpur	6.53	4.20	5.70	0.83	-1.50
13	Brahmandgram	3.57	1.75	2.85	0.72	-1.10
14	Budhikapudi		4.10			
15	Burikapuri	5.36		6.26	-0.90	
16	Champua 1	8.84	2.87	6.17	2.67	-3.30
17	Deogan1	4.06		4.28	-0.22	
18	Dhangadiha	10.66	2.90	5.15	5.51	-2.25
19	Dhenkikote	9.75		8.70	1.05	
20	Gadadharpur	4.42	2.59	4.17	0.25	-1.58
21	Gajitangri	4.05	2.60	4.40	-0.35	-1.80
22	Ghasipur	8.39	7.74	8.49	-0.10	-0.75
23	Ghatgaon	2.37				
24	Gonasika		3.15	3.05		0.10
25	Gopalpur2	4.25	1.77	2.57	1.68	-0.80
26	Guali	7.80				
27	Harichandanpur	1.80	2.55	3.55	-1.75	-1.00
28	Haridagot	3.20	1.62	2.85	0.35	-1.23
29	Jagmohanpur	5.91	2.13	4.03	1.88	-1.90
30	Jagmohanpur-Ii		3.60	6.10		-2.50
31	Janghira		4.07			
32	Jaymangalpur	2.41	1.32	2.22	0.19	-0.90
33	Jhadbelda 1	7.40	2.10	2.70	4.70	-0.60
34	Jhangira			7.45		
35	Jhumpura	6.52	0.80	5.30	1.22	-4.50
36	Joda	6.47	5.77	5.72	0.75	0.05
37	Jodipada			6.95		
38	Kaliahata	4.42	2.70	4.53	-0.11	-1.83
39	Kanjipani	6.40	3.78	4.50	1.90	-0.72
40	Katalaposhi	10.90	2.55	5.60	5.30	-3.05
41	Kendeiposhi			1.39		
42	Kendeiposhi 1		0.65			
43	Keonjhargarh	4.30	3.08			
44	Keonjhar-Ii Old	8.55	4.72	6.75	1.80	-2.03

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
	Town					
45	Kesudapal-Ii	3.35	1.20	2.05	1.30	-0.85
46	Kesurdapal	2.20	1.03	1.23	0.97	-0.20
47	Khiritangiri	6.48	0.98	4.38	2.10	-3.40
48	Khuntapada	6.10				
49	Kothaghar	2.91	0.71	3.11	-0.20	-2.40
50	Malliposi	2.89	2.29	1.99	0.90	0.30
51	Mathadai	2.49	0.84	1.59	0.90	-0.75
52	Melana	2.82	1.75	2.80	0.02	-1.05
53	Muktapur	7.30		7.70	-0.40	
54	Naranpur	8.60	5.80	9.25	-0.65	-3.45
55	Nuagaon	2.13	1.70	0.90	1.23	0.80
56	Nuasahi	1.81		1.40	0.41	
57	Padampur2	10.80	5.65	10.45	0.35	-4.80
58	Padang	4.87	3.37	4.42	0.45	-1.05
59	Parsora	7.08	2.18	5.25	1.83	-3.07
60	Patakhali		2.60	5.25		-2.65
61	Patilo	8.66	4.20	6.90	1.76	-2.70
62	Pitanali	8.78	5.22	8.50	0.28	-3.28
63	Rajpat	4.08	2.10	2.60	1.48	-0.50
64	Rugudi	5.54		5.24	0.30	
65	Sasang	5.70	2.05	3.20	2.50	-1.15
66	Suakati	5.53	3.53	4.83	0.70	-1.30
67	Swampatna	1.38	1.48	1.58	-0.20	-0.10
68	Tangarpada	3.47	2.25	2.55	0.92	-0.30
69	Telkoi	4.50	4.65	4.55	-0.05	0.10
70	Turmunga	4.60	1.70	4.20	0.40	-2.50
71	Udaipur	4.23	2.60	4.30	-0.07	-1.70
72	Ukunta	1.88	1.40	2.50	-0.62	-1.10

DISTRICT: KHORDHA

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	B-02 Samantarapur	0.60	0.32	0.15	0.45	0.17
2	B-04 Lingaraj Temple	7.08	7.36	7.48	-0.40	-0.12
3	B-05 Rath Road	3.14	0.83	1.39	1.75	-0.56
4	B-06 Purnama Gate	8.10	7.02	7.50	0.60	-0.48
5	B-07 Bapuji Nagar	3.05	2.12	2.15	0.90	-0.03
6	B-09 Tankapani Road	6.71	1.24	7.91	-1.20	-6.67
7	B-12 Laxmi Sagar	2.10	4.28	2.90	-0.80	1.38
8	B-14 Rasulgarh	1.92	0.34	0.22	1.70	0.12
9	B-15 Bomikhal	6.02	6.14	5.42	0.60	0.72
10	B-17 Satya Nagar	5.45	4.77	4.35	1.10	0.42
11	B-20 Palasuni (NH-5)	3.52	2.06	2.92	0.60	-0.86
12	B-21 Haridaspur	2.56	1.48			
13	B-22 Mancheswar	4.35	4.27	4.80	-0.45	-0.53
14	B-25 Sainik School	6.35	5.73	5.65	0.70	0.08
15	B-26 Gadakana	6.60	5.12	5.50	1.10	-0.38
16	B-29 Ekamra Villa	2.30				
17	B-31 Unit-9	2.25	2.15	1.90	0.35	0.25
18	B-33 Unit-4	6.08	4.30	5.43	0.65	-1.13
19	B-34 Ganga Nagar	7.90	5.05	5.75	2.15	-0.70
20	B-35 Unit-6	5.55	4.58	5.15	0.40	-0.57
21	B-37 OUAT	3.32	1.77	2.47	0.85	-0.70
22	B-38 Bhimpur	3.60				
23	B-39 Bhimatangi	9.97	2.90	8.02	1.95	-5.12
24	B-40 Kapilaprasad	8.62	1.77	7.87	0.75	-6.10
25	B-41 Pokhariput	6.60	4.55	4.90	1.70	-0.35
26	B-42 Kargil Basti	3.75	3.51	3.55	0.20	-0.04
27	B-43 Gandamunda	7.05	6.63	6.95	0.10	-0.32
28	B-44 Baramunda	1.78	0.98	1.23	0.55	-0.25
29	B-45 Delta Square	6.50	6.32	6.80	-0.30	-0.48
30	B-47 Ghatikia	8.34	6.15	6.39	1.95	-0.24
31	B-48 Dumuduma	6.87	4.92	5.32	1.55	-0.40
32	B-50 Janla	10.85	8.47	8.05	2.80	0.42
33	B-51 DAV (Unit-8)	4.25	2.85			
34	Baghamari Dw		1.10	1.65		-0.55
35	Balipatna	1.33	0.73	1.48	-0.15	-0.75
36	Balugaon		1.69			
37	Banapur		1.60	3.00		-1.40
38	Begunia	5.10		2.90	2.20	
39	Begunia 1		2.20			
40	Bhubaneswar-i	5.17	4.42			
41	Bhusundapur	7.60	2.65	6.85	0.75	-4.20

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
42	Bolagarh	7.16	3.91	7.06	0.10	-3.15
43	Chandaka	2.05	1.50	1.90	0.15	-0.40
44	Gobindpur	2.74	1.49	2.44	0.30	-0.95
45	Jagannathpur	2.25	1.17			
46	Jankia	4.60	2.05	2.70	1.90	-0.65
47	Janla	7.78	5.16	5.23	2.55	-0.07
48	Jatni1	11.90	3.80			
49	Jayamangal	7.80	3.20			
50	Kapilaprasad	7.36	1.93	2.31	5.05	-0.38
51	Kesura	2.25				
52	Khurda	12.69	4.94	5.99	6.70	-1.05
53	Khurda Industrial Area	9.20	2.95	7.60	1.60	-4.65
54	Kuha	8.23	1.38	1.58	6.65	-0.20
55	Kuhudi		2.80	5.45		-2.65
56	Kundaidarapatna (pahala)	1.30	1.65	0.90	0.40	0.75
57	Mendhasala	1.85	1.45	2.00	-0.15	-0.55
58	Nirakarpur	6.65	2.95	6.30	0.35	-3.35
59	Niranjanpur	2.95	3.30			
60	Odakhanda-DW	1.95	1.25	2.55	-0.60	-1.30
61	Padanpur	5.10	2.40	4.55	0.55	-2.15
62	Patia	5.15	4.65	4.95	0.20	-0.30
63	Raghunathpur	4.80	4.40	1.65	3.15	2.75
64	Sandhapur	6.65	3.55	5.70	0.95	-2.15
65	Sarua	8.47		7.12	1.35	
66	Sundarpada	3.93	1.93	3.03	0.90	-1.10
67	Tamando	4.85	2.65	2.95	1.90	-0.30
68	Tangi2	10.79	5.79	12.89	-2.10	-7.10
69	Tolakpada	1.75	1.05	1.90	-0.15	-0.85

DISTRICT: KORAPUT

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Ambaguda1	4.50	3.64	5.50	-1.00	-1.86
2	Anta	3.62	1.66	2.82	0.80	-1.16
3	Baipariguda	5.80	3.27	7.50	-1.70	-4.23
4	Bajiguda	5.45	4.97	7.65	-2.20	-2.68
5	Balia	2.45	0.15	2.35	0.10	-2.20
6	Bangalaguda	7.60	4.20	8.40	-0.80	-4.20
7	Bheja 1	4.10	2.77	3.20	0.90	-0.43
8	Bijapur	4.00	1.44			
9	Boriguma	3.75		5.75	-2.00	
10	Burja	7.30		6.40	0.90	
11	C.kusimi-i	8.55	2.88	6.65	1.90	-3.77
12	Chandli	2.70	3.50	2.55	0.15	0.95
13	Chingudichuan	3.50		4.95	-1.45	
14	C-kusumi-ii	8.65	2.67	6.65	2.00	-3.98
15	Damanahandi	4.65	1.11	2.85	1.80	-1.74
16	Dasmanthapur	5.80				
17	Deoghati	8.38	3.15	5.78	2.60	-2.63
18	Dhamanaganda	2.70	0.20	4.70	-2.00	-4.50
19	Dhaulapur	8.32	4.68	6.32	2.00	-1.64
20	Disarikaraguda-New Colony	8.50		7.90	0.60	
21	Doraguda	6.55	5.60	6.90	-0.35	-1.30
22	Dumuriput	8.70	6.20	9.00	-0.30	-2.80
23	Ghatarala	5.65	3.22	6.65	-1.00	-3.43
24	Gumur	2.50		5.20	-2.70	
25	Jayantigiri	3.45		6.55	-3.10	
26	Jeypore1	8.78	4.08	7.68	1.10	-3.60
27	Jujari	2.45	1.94	3.85	-1.40	-1.91
28	Kakriguma	11.92	7.11	10.92	1.00	-3.81
29	Kantarkhal 1	5.40	3.58			
30	Kenduguda	1.50	1.17	2.10	-0.60	-0.93
31	Khaliaguda	4.05	4.17	6.95	-2.90	-2.78
32	Konga	2.60	3.56	4.60	-2.00	-1.04
33	Koraput-i	10.80	6.00	10.50	0.30	-4.50
34	Koraput-ii	5.10	0.76	6.40	-1.30	-5.64
35	Kotpad	7.30	2.26	5.50	1.80	-3.24
36	Kunduli	6.48	5.15	7.98	-1.50	-2.83
37	Kusumguda	8.30	6.39	8.20	0.10	-1.81
38	Lamtaput	6.96	2.26	6.56	0.40	-4.30
39	Laxmipur1	5.95	10.83	9.75	-3.80	1.08
40	Mandalguda Colony	8.30	6.99	6.10	2.20	0.89
41	Miriguda	7.10	2.57	4.40	2.70	-1.83

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
42	Mundaguda	7.40	4.09	6.70	0.70	-2.61
43	Nandapur	4.03	3.12	5.73	-1.70	-2.61
44	New Ghasarda	6.65	2.24	5.95	0.70	-3.71
45	Panasaputbagh	1.70	1.56	3.80	-2.10	-2.24
46	Panchada	7.00	4.44	3.90	3.10	0.54
47	Patraput	8.00	2.70	8.30	-0.30	-5.60
48	Pitaguda	15.30	11.10	15.60	-0.30	-4.50
49	Podagada	6.13	5.07			
50	Potangi	9.63	3.37	8.63	1.00	-5.26
51	Ramgiri1	6.00	2.02	8.70	-2.70	-6.68
52	Randapalli-Bj-I	4.60	2.81	6.40	-1.80	-3.59
53	Sasanhandi-ii	1.90	2.54	4.70	-2.80	-2.16
54	Satsimile	9.45	6.45	10.25	-0.80	-3.80
55	Similiguda1	4.65	3.56	4.85	-0.20	-1.29
56	Soguru	6.77	5.73	7.07	-0.30	-1.34
57	Subai	8.60	6.95	7.20	1.40	-0.25
58	Sunki 1	8.50		7.90	0.60	
59	Tanginiguda	3.50	1.99	4.00	-0.50	-2.01
60	Teraguda	8.40	5.38	8.40	0.00	-3.02
61	Tikaguda	3.80	2.80			
62	Umeri1	1.85	1.01	6.95	-5.10	-5.94

DISTRICT: MALKANGIRI

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Balimela	4.85	1.54			
2	Balimela Chowk	3.85	1.63	4.45	-0.60	-2.82
3	Bejaguda	8.50	5.75			
4	Chitapari	6.60	1.54	2.90	3.70	-1.36
5	Govindpali 1	4.40	4.09	5.65	-1.25	-1.56
6	Katameta	5.30	1.07	3.00	2.30	-1.93
7	Khairput1	3.75	1.62	4.55	-0.80	-2.93
8	Korukonda 1	3.70	2.17	4.20	-0.50	-2.03
9	Kudumuluguma1	2.65	1.39	3.95	-1.30	-2.56
10	Kumbharguda	4.05	0.92	3.75	0.30	-2.83
11	M.V 37	3.70	2.21	3.20	0.50	-0.99
12	M.V.7	8.15		9.75	-1.60	
13	M.V.9	7.20	1.76	9.00	-1.80	-7.24
14	M.V1- 19	5.65		6.65	-1.00	
15	Maithili1	3.00	0.92	5.80	-2.80	-4.88
16	Malkangiri 1	3.45	1.41	5.75	-2.30	-4.34
17	Mundiguda	3.40	1.04	4.80	-1.40	-3.76
18	Parkannala	6.50	2.02	6.00	0.50	-3.98
19	Pongam	4.05	1.95	6.00	-1.95	-4.05
20	Sindhimal	7.20	1.49	5.70	1.50	-4.21
21	Somnathpur 1	3.00	2.21	4.60	-1.60	-2.39

DISTRICT: MAYURBHANJ

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Amarda village	4.41	1.65	3.65	0.76	-2.00
2	Ambadiha	0.80	1.06	0.70	0.10	0.36
3	Asanbani	4.55	3.00	4.45	0.10	-1.45
4	Badampahad-1		6.72	5.52		1.20
5	Badasahi	1.55	1.22	3.32	-1.77	-2.10
6	Bademtolia	8.22	6.08	6.05	2.17	0.03
7	Bagra	2.78	2.50	2.45	0.33	0.05
8	Bahalda	6.10		3.80	2.30	
9	Bahalda Road(kona)	5.01		1.61	3.40	
10	Baidipur	3.48	2.00	3.50	-0.02	-1.50
11	Bangriposi	6.04	5.83	7.93	-1.89	-2.10
12	Baripada	13.81	6.28	13.48	0.33	-7.20
13	Bedhakudar	6.76	4.90	6.20	0.56	-1.30
14	Begna	7.92	9.00	6.30	1.62	2.70
15	Belam	4.35	2.34	4.14	0.21	-1.80
16	Betanoti	2.64	1.60	2.05	0.59	-0.45
17	Bhatachhatra		2.00	2.00		0.00
18	Bisoi	10.00	5.00	4.35	5.65	0.65
19	Brundabanchan	4.06	4.58	4.28	-0.22	0.30
20	Budhamara	6.37	2.80	4.60	1.77	-1.80
21	Chadheibhol	3.58	2.80	3.30	0.28	-0.50
22	Champajhar	2.30	2.05	1.35	0.95	0.70
23	Champrai	5.06	2.35	2.50	2.56	-0.15
24	Chitrada	5.13	3.60	7.90	-2.77	-4.30
25	Dandabose	10.45	2.85	6.05	4.40	-3.20
26	Devsol	5.85	3.50	5.45	0.40	-1.95
27	Dukura	5.04	3.71	3.31	1.73	0.40
28	Gambharia	6.93	1.78	5.33	1.60	-3.55
29	Hatjori	1.12	0.11	1.31	-0.19	-1.20
30	Indupur	4.30	2.17	5.47	-1.17	-3.30
31	Itighar	6.20	1.90	2.90	3.30	-1.00
32	Jamda	3.62				
33	Jamsola	5.91	1.65	5.55	0.36	-3.90
34	Jamukeswar	2.72	1.90	2.45	0.27	-0.55
35	Jharpokhari	4.51	1.67	4.37	0.14	-2.70
36	Jhunkapal	5.35	2.55	4.85	0.50	-2.30
37	Kalana	3.23	2.95	3.35	-0.12	-0.40
38	Karanjei-Bijatola Chhak	3.63	3.90	1.75	1.88	2.15
39	Kendujani	8.74	2.69	8.14	0.60	-5.45
40	Kendumundi	3.66	2.95	3.80	-0.14	-0.85
41	Kherna	5.20	6.00	2.15	3.05	3.85
42	Khiching	7.81		6.64	1.17	

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
43	Khunta	3.66	3.40	3.95	-0.29	-0.55
44	Kostha			5.79		
45	Krishnachandrap	10.52	5.62	9.52	1.00	-3.90
46	Kuchei	2.50	2.30	2.45	0.05	-0.15
47	Kuliana	10.74	6.63	4.33	6.41	2.30
48	Mahuldia		2.79	2.69		0.10
49	Mananda	9.95		8.75	1.20	
50	Manda		3.59	1.98		1.61
51	Matigarh	6.43	5.46	5.30	1.13	0.16
52	Moranda		1.95	3.20		-1.25
53	Nada	6.05	3.15	5.70	0.35	-2.55
54	Naujara	4.32	1.14	1.72	2.60	-0.58
55	Nechuapada	7.87	4.39	6.09	1.78	-1.70
56	Niranjan		1.88	4.83		-2.95
57	Nischintapur	6.38	3.81	3.98	2.40	-0.17
58	Padampur	3.20	1.15	1.60	1.60	-0.45
59	Pathuri	5.80	2.48	5.38	0.42	-2.90
60	Pithabata	4.75	3.12	5.12	-0.37	-2.00
61	Poilakunda	7.95	3.05	4.50	3.45	-1.45
62	Poradiha	3.52	2.92	4.72	-1.20	-1.80
63	Purunapani	8.90	1.40	5.00	3.90	-3.60
64	Rajabasa	9.26	4.70	8.25	1.01	-3.55
65	Rashgovindpur	13.36	4.73			
66	Sanjili		0.63			
67	Saraskona	3.54	2.93	5.03	-1.49	-2.10
68	Satkosia	9.40	3.25	9.30	0.10	-6.05
69	Shamakunta	6.32	2.60	6.10	0.22	-3.50
70	Similibandh	8.87	2.47	3.77	5.10	-1.30
71	Singada Chhak	6.95	3.85	1.50	5.45	2.35
72	Sullyapada	5.34	4.04	5.89	-0.55	-1.85
73	Taramara	7.10	3.65	5.50	1.60	-1.85
74	Tato	8.89	9.25	13.55	-4.66	-4.30
75	Thakurmunda	5.25				
76	Thianali	6.66	3.05	4.80	1.86	-1.75
77	Tiring	2.39	1.09	1.54	0.85	-0.45
78	Tongabila Chhak	6.15	3.35	3.95	2.20	-0.60
79	Udala	1.82	2.66			

DISTRICT: NABARANGAPUR

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Anchalguma1	7.43	1.85	5.53	1.90	-3.68
2	Baheda	8.10	5.00	7.20	0.90	-2.20
3	Baksaguda	5.00	4.60	5.50	-0.50	-0.90
4	Bhaskel-dam sit	7.20	5.12	5.70	1.50	-0.58
5	Dadia-Majhiguda	8.15	2.80			
6	Daibata	8.80	4.27	8.80	0.00	-4.53
7	Debugaon	2.50	2.51	4.00	-1.50	-1.49
8	Dengaguda	5.20	2.65	6.10	-0.90	-3.45
9	Digi	8.30	2.11	6.70	1.60	-4.59
10	Dondasora	0.72	0.92	4.72	-4.00	-3.80
11	Fufugaon	7.20	3.40	6.20	1.00	-2.80
12	Jharigan	7.69	1.95	6.99	0.70	-5.04
13	Karchamal	9.90	4.44	8.80	1.10	-4.36
14	Kodinga	8.54	2.50	4.54	4.00	-2.04
15	Kosagumunda	2.20		6.50	-4.30	
16	Kurlaghati	3.70	1.02	3.70	0.00	-2.68
17	Maidalpur1	7.14	1.10	3.94	3.20	-2.84
18	Nandahandi	6.20	2.82	5.20	1.00	-2.38
19	Nowrangpur 1	2.65	1.56	1.40	1.25	0.16
20	Papadahandi1	7.15	5.21	3.65	3.50	1.56
21	Rangamatiguda	7.50	7.13	10.30	-2.80	-3.17
22	Sagarmunda	2.90	2.10	5.60	-2.70	-3.50
23	Sonamasigan	6.65	2.50	5.95	0.70	-3.45
24	Tentulikunti 1	8.15	2.04	3.65	4.50	-1.61
25	Udaipur	2.45	1.79	4.20	-1.75	-2.41
26	Umarkot	2.01	0.61	2.71	-0.70	-2.10

DISTRICT: NAYAGARH

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Adakata	5.40	2.85	5.50	-0.10	-2.65
2	Andapali	4.00	0.80			
3	Bada-Pandeswar	3.55	1.70	2.65	0.90	-0.95
4	Banigocha	9.90	4.82	8.30	1.60	-3.48
5	Bhapur1	5.93	1.18	6.13	-0.20	-4.95
6	Bherupada	4.65	0.60	6.50	-1.85	-5.90
7	Darpa-Narayanpur	3.40	0.25			
8	Daspalla Market	3.40	1.55	2.35	1.05	-0.80
9	Daspalla-i	6.34	4.69	3.24	3.10	1.45
10	Durga Prasad	9.10	4.12	7.10	2.00	-2.98
11	Gamasalia (Dhipisahi)	3.85	1.05	5.55	-1.70	-4.50
12	Gania	5.50	3.20	3.60	1.90	-0.40
13	Gasisevipur	2.75	1.43	4.15	-1.40	-2.72
14	Ghholahandi	4.05		5.45	-1.40	
15	Itamati (Manjuriapali)	3.55	1.00	2.20	1.35	-1.20
16	Jhada Gadia	4.80		4.05	0.75	
17	Jogibandh	3.55	1.13	3.65	-0.10	-2.52
18	Kana Singhi	5.35	1.55	3.85	1.50	-2.30
19	Kantilo	0.76	0.01			
20	Khandapada	8.93	1.53	8.73	0.20	-7.20
21	Kishore Prasad	6.25	1.95	1.56	4.69	0.39
22	Koilama	6.50	1.40	6.40	0.10	-5.00
23	Kuanria	4.90	0.87	3.40	1.50	-2.53
24	Kuluru Kumpa	3.70	0.82	2.85	0.85	-2.03
25	Kumbharpara	3.00		3.05	-0.05	
26	Madhyakhand 2	4.30	1.20			
27	Mahipur	3.72	1.77	3.82	-0.10	-2.05
28	Nayagarh	0.35	1.89	1.75	-1.40	0.14
29	Nayagarh 3	3.15	1.05	1.25	1.90	-0.20
30	Nuabausabati	5.70	2.02	5.20	0.50	-3.18
31	Nuagaon1	4.45	2.90	4.45	0.00	-1.55
32	Odagaon	3.78	1.23	3.73	0.05	-2.50
33	Purusottampur	3.62	1.82	2.62	1.00	-0.80
34	Rangamatia	7.63	3.28	6.38	1.25	-3.10
35	Ranpur 1	5.29	2.79	3.99	1.30	-1.20
36	Sampada	7.90	1.05	6.75	1.15	-5.70
37	Sanagada	6.40	0.70			
38	Sarankul	2.40	1.75	2.45	-0.05	-0.70
39	Solopata	3.30	0.75			
40	Subalaya	5.06	1.16	1.08	3.98	0.08
41	Takara	8.52	5.69	6.62	1.90	-0.93

DISTRICT: NUAPADA

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Bada-Maheswar	4.35	3.25	7.22	-2.87	-3.97
2	Bargaon-k	5.27	4.07	6.83	-1.56	-2.76
3	Bhajipala	5.70	3.50	3.58	2.12	-0.08
4	Darlimunda	4.66		4.60	0.06	
5	Deobahal	4.90	1.85	3.57	1.33	-1.72
6	Dharambandah	3.76	2.23	3.23	0.53	-1.00
7	Ghantiguda	3.40	1.31	2.85	0.55	-1.54
8	Godphula	4.91	2.73	6.84	-1.93	-4.11
9	Gotama	6.90	4.53	8.30	-1.40	-3.77
10	Junani	4.80	2.55	4.91	-0.11	-2.36
11	Kalyanpur	5.15	3.60	9.61	-4.46	-6.01
12	Khariar	8.67	4.32	7.07	1.60	-2.75
13	Komna1	5.58	4.17	6.25	-0.67	-2.08
14	Padampur	4.90	1.83	3.75	1.15	-1.92
15	Patparpali	3.67	2.12	3.97	-0.30	-1.85
16	Potora	2.80		2.34	0.46	
17	Ranipur	5.15	4.38	6.12	-0.97	-1.74
18	Sahipala	4.81	3.15	3.17	1.64	-0.02
19	Sanmaheswar	5.80	3.15	5.85	-0.05	-2.70
20	Somarsingh	5.40	6.05	7.01	-1.61	-0.96
21	Tarbod	4.78	4.95	5.71	-0.93	-0.76

DISTRICT: PURI

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Algum	1.82	1.37	2.22	-0.40	-0.85
2	Alipada	2.65	1.80	2.55	0.10	-0.75
3	Astarang	1.80	0.80	2.10	-0.30	-1.30
4	Balanga	3.20	0.75	1.95	1.25	-1.20
5	Baleshwarpatna	1.19	0.24	0.94	0.25	-0.70
6	Balighai	1.88	1.48	2.18	-0.30	-0.70
7	Baliguari	1.60	0.70	1.25	0.35	-0.55
8	Biragobind(Dakhina Kali)	1.86	1.21	2.26	-0.40	-1.05
9	Bisimatri	5.15	1.90	5.48	-0.33	-3.58
10	Brahmagiri	1.39	0.62	1.79	-0.40	-1.17
11	Budhiabar	1.11	1.31	2.11	-1.00	-0.80
12	Chandanpur	2.77	2.87	3.57	-0.80	-0.70
13	Charichhak	2.70	1.55	4.50	-1.80	-2.95
14	Chhanijanga	3.85	1.00	2.52	2.85	1.33
15	Dandamukundpur	2.65	1.20	2.90	-0.25	-1.70
16	Delang	1.69	0.74	1.59	0.10	-0.85
17	Dhauli	10.89	7.69	8.23	2.66	3.2
18	Garapada	2.92	1.62	2.02	0.90	-0.40
19	Girala	1.85	1.05	1.80	0.05	-0.75
20	Gokhara	0.85	0.35	1.40	-0.55	-1.05
21	Gola	2.23	1.03	2.28	-0.05	-1.25
22	Gop 1	2.45	0.90	3.20	-0.75	-2.30
23	Haripur	3.60	1.08	3.45	0.15	-2.37
24	Harirajpur	7.80	3.75	7.15	0.65	-3.40
25	Jagannathpur	3.07	1.82	3.92	-0.85	-2.10
26	Jogeswarpur	4.35	2.40	4.80	-0.45	-2.40
27	Juinti	2.78	1.98	4.28	-1.50	-2.30
28	Kakatpur Ii	4.80	3.53	5.00	-0.20	-1.47
29	Kalyanpur		1.10	1.70		-0.60
30	Kanas	2.55	1.35	1.40	1.15	-0.05
31	Konark 1	2.65	1.30	3.85	-1.20	-2.55
32	Madrang		0.83	2.98		-2.15
33	Mahapur	3.78	2.18	3.78	0.00	-1.60
34	Mangalpur	1.86	0.36	1.86	0.00	-1.50
35	Maunimatha	1.70	1.18	1.90	-0.20	-0.72
36	Nimapara 2	3.60	1.60	3.10	0.50	-1.50
37	Nuasomeswarpur		1.23	2.43		-1.20
38	P-01 Krupa Sindura Patna	2.70	2.75	3.06	-0.36	-0.31
39	P-03 Police Lane	1.65	0.70	1.80	-0.15	-1.10
40	P-06 Chhapana Chhak	1.25	1.20	1.45	-0.20	-0.25
41	P-07 Gauda Bada Sahi	4.89	2.04	4.79	0.10	-2.75
42	P-11 Sadar Block Colony	1.95	1.95	3.45	-1.50	-1.50

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
43	P-12 ITI Chhak	4.15	2.15	3.75	0.40	-1.60
44	P-18 Tota Sahi	2.75	1.70	2.90	-0.15	-1.20
45	P-21 Sriram Talkies Chhak		0.10	0.40		-0.30
46	P-23 Hara Gouri Sahi	1.65	1.15			
47	P-24 Balagandi	5.25	3.75	4.55	0.70	-0.80
48	P-32 Gobardhan Matha	4.02	2.44	3.92	0.10	-1.48
49	P-33 Sorbodaya Nagar	2.50	1.80	2.10	0.40	-0.30
50	P-34 Sidha Mahavir	1.70	1.10	1.40	0.30	-0.30
51	P-35 Indira Mark Colony		2.68	4.40		-1.72
52	P-36 Kumbharapada	4.35	2.35	3.10	1.25	-0.75
53	P-37 Jagannatha Ballava Matha	2.25	2.15	2.60	-0.35	-0.45
54	P-38 Gosala	7.07	3.67	7.67	-0.60	-4.00
55	P-41 Grand Road	4.24	3.19	3.94	0.30	-0.75
56	P-42 Balighat	1.95	1.45	1.40	0.55	0.05
57	P-43 Dola Mandap Sahi	7.09	5.64	7.74	-0.65	-2.10
58	P-44 Jagannath temple	5.91	4.66	6.26	-0.35	-1.60
59	P-45 Balipur	1.47	1.02	1.27	0.20	0.45
60	P-46 Behrasahi	1.04		1.64	-0.60	
61	P-47 Ramchandisahi	6.35	3.35			
62	Pipli	1.38	1.63	1.73	-0.35	-0.10
63	Pratapramchandr	0.53	0.13	1.48	-0.95	-1.35
64	Puri town	1.7	0.23	1.73	-0.03	
65	Ramchandi	5.88	6.03	6.23	-0.35	-0.20
66	Ramchandrapur		2.60	2.95		-0.35
67	Rebana nuagaon	1.15	0.90	1.90	-0.75	-1.00
68	Rendagada	1.70	1.45	1.65	0.05	-0.20
69	Sadanandapur	1.60	0.05	0.60	1.00	-0.55
70	Sakhigopal	3.20	0.40	1.65	1.55	-1.25
71	Sakhigopal 3	1.00	1.50	2.40	-1.40	-0.90
72	Satapada-I		6.45	8.85		-2.40
73	Tikarpara1	2.20	1.80	2.85	-0.65	-1.05
74	Totasahi		1.70	2.90		-1.20
75	Tulasichoura-Malatipatapur	1.40	1.40	1.70	-0.30	-0.30
76	Uansdiha	1.40	1.10	1.20	0.20	-0.10

DISTRICT: RAYAGADA

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Akhusingi	4.70	0.85	3.30	1.40	-2.45
2	Ambadola	8.04	5.71	6.74	1.30	-1.03
3	Bangi Chowk	4.20	1.84	4.90	-0.70	-3.06
4	Chakunda	3.60		5.80	-2.20	
5	Dambasara	2.35	1.34	1.15	1.20	0.19
6	Gorakhpur	4.35	3.78	5.40	-1.05	-1.62
7	Gumda	3.23		3.63	-0.40	
8	Gumma	2.40	1.49	2.20	0.20	-0.71
9	Gunupur1	3.70	0.20	4.20	-0.50	-4.00
10	Kaliapada	4.40		4.70	-0.30	
11	Kashipur	12.60		10.50	2.10	
12	Kenduguda	4.35	2.64	3.65	0.70	-1.01
13	Kodapadu	4.60	5.02	6.70	-2.10	-1.68
14	Minajhola	3.70	2.07	2.65	1.05	-0.58
15	Mukundpur	6.26	0.86	3.26	3.00	-2.40
16	Narainpur	4.30	1.02	4.10	0.20	-3.08
17	Nua Dakasikula	2.20		2.50	-0.30	
18	Padampur2	1.65	1.12	2.60	-0.95	-1.48
19	Ramnaguda2	3.10	1.39	6.00	-2.90	-4.61
20	Shirikona	8.48	4.22	6.48	2.00	-2.26
21	Tandikana	2.50	0.71	6.20	-3.70	-5.49
22	Therabali	6.12	5.37	10.82	-4.70	-5.45

DISTRICT: SAMBALPUR

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Amlipani	5.95	4.12	5.04	0.91	-0.92
2	Babubandha	0.58	1.14	1.68	-1.10	-0.54
3	Badsahir	6.60	1.00	6.09	0.51	-5.09
4	Baduapali	1.37	1.58	1.27	0.10	0.31
5	Baijamunda	6.72	5.95	7.10	-0.38	-1.15
6	Bampei	7.95	4.95	7.92	0.03	0.77
7	Bamra	8.96	3.40	9.68	-0.72	-6.28
8	Baragaon	5.50	1.69	5.55	-0.05	-3.86
9	Barodungri (Orampara)	5.75	1.69	5.88	-0.13	-4.19
10	Batemura	6.57	3.73	6.50	0.07	-2.77
11	Bausenmura	3.21	1.44	3.13	0.08	-1.69
12	Bhabanipali	7.10	2.44	6.37	0.73	-3.93
13	Bhaluchuan	4.35	1.15	4.00	0.35	-2.85
14	Bhoipali	2.10	1.00	1.05	1.05	-0.05
15	Boxma	6.70	1.55	5.32	1.38	-3.77
16	Chandrapura	11.80	6.81	11.60	0.20	-4.79
17	Charmal	9.07	3.04	9.10	-0.03	-6.06
18	Chiplima	0.28	1.72	1.10	-0.82	0.62
19	Christianpara	0.48	0.55	0.50	-0.02	0.05
20	Daincha	4.40	2.35	3.65	0.75	-1.30
21	Dandeipalli	0.30	0.82	1.61	-1.31	-0.79
22	Deogaon	2.77	0.65	3.10	-0.33	-2.45
23	Dhama	7.53	3.05	3.60	3.93	-0.55
24	Dhanakauda	2.83	3.46	2.94	-0.11	0.52
25	Gainpura	6.07	3.05	5.05	1.02	-2.00
26	Gargarbahal	6.60		6.05	0.55	
27	Gorupali	5.30	3.21	5.23	0.07	2.09
28	Gosala	7.35	4.90	6.88	0.47	-1.98
29	Gunchamal	6.21		6.42	-0.21	
30	Gunderpur	5.94	1.87	4.22	1.72	-2.35
31	Hathibari	5.65	1.55	4.85	0.80	-3.30
32	Hirakud	2.32	1.18	2.42	-0.1	1.14
33	Jamadarpali	7.28	3.54	7.47	-0.19	-3.93
34	Jamankira 1	5.30	1.08	4.32	0.98	-3.24
35	Jayantpur	3.66	1.46	4.19	-0.53	-2.73
36	Jhankarbahali	3.97	0.65	3.34	0.63	-2.69
37	Jhargulanda	4.60		5.28	-0.68	
38	Jugipali	4.48		4.67	-0.19	
39	Jujhumura	8.20	5.22	7.56	0.64	-2.34
40	Kadalipali	5.30	2.31	5.38	-0.08	-3.07
41	Kansabahal Sahi		0.65	4.13		-3.48
42	Katar Kela	5.65	1.60	5.82	-0.17	4.05
43	Kesaibahal	5.70	2.48	5.42	0.28	-2.94
44	Khunti	6.79	2.08	5.60	1.19	-3.52

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
45	Koakud	4.70	2.81	4.50	0.20	-1.69
46	Kuagola	6.00	3.30	6.38	-0.38	-3.08
47	Kuchinda	6.90	3.60	6.36	0.54	-2.76
48	Kusumi	5.13	1.63	6.83	-1.70	-5.20
49	Larasara	8.10		7.95	0.15	
50	Loiraguna	5.20	1.28	5.39	-0.19	-4.11
51	Luhapank	7.70	3.50	7.65	0.05	-4.15
52	Majhipal	3.40	2.71	3.44	-0.04	-0.73
53	Malgun	1.00	0.30			
54	Maltisubanpur	2.83	3.31	2.25	0.58	1.06
55	Mochibahal	5.04	1.94	6.09	-1.05	-4.15
56	Nagadihi Chawk	3.55	1.15	3.75	-0.20	-2.60
57	Naktideol	8.40	4.00	8.28	0.12	-4.28
58	Naxapali	5.65	1.00	4.99	0.66	-3.99
59	Nildungri	6.10	2.65	6.00	0.10	-3.35
60	Padiabahal	5.90	4.01	6.70	-0.80	-2.69
61	Parmanpur	6.20	1.58	6.50	-0.30	-4.92
62	Pitapali	3.65	2.00	2.00	1.65	0.00
63	Rairakhol(rampu	8.67	3.03	7.32	1.35	-4.29
64	Remerha	1.12	1.68	1.64	-0.52	0.04
65	Rengali	6.36	1.35	6.41	-0.05	-5.06
66	Rupapali	6.45	5.40	6.60	-0.15	-1.20
67	Sahaspur	6.45	2.38	5.10	1.35	-2.72
68	Sambalpur	5.95	5.23	6.22	-0.27	-0.99
69	Sason1	1.56	1.35	1.66	-0.10	-0.31
70	Simlipal Chawk	4.40	2.41	4.08	0.32	-1.67
71	Subarna Pali	5.45	1.68	5.65	-0.20	-3.97
72	Talpali	1.00	0.40	1.23	-0.23	0.6
73	Telitiliamal	6.20	2.00	7.28	-1.08	-5.28
74	Terebera	5.80	2.60	5.60	0.20	-3.00

DISTRICT: SONAPUR

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Ankhidadar	6.25	2.75	7.50	-1.25	-4.75
2	Antarda	1.76	2.45	2.18	-0.42	0.27
3	Arjunpur	7.41	3.25	6.90	0.51	-3.65
4	Bagdiha	3.41	1.95	2.60	0.81	-0.65
5	Bagduli	2.58	2.48	4.84	-2.26	-2.36
6	Baghahandi	1.60	1.98	1.72	-0.12	0.26
9	Bausuni	5.65	3.43	5.78	-0.13	-2.35
10	Bhimtikra	0.86	1.99	1.00	-0.14	0.99
11	Binika	3.12	2.60	4.03	-0.91	-1.43
12	Biramaharajpur	6.99	2.49	6.81	0.18	-4.32
13	Bishalpali	4.52	2.95	4.70	-0.18	-1.75
14	Borumunda	6.22	3.82	6.55	-0.33	-2.73
15	Chandajhuri	3.10	3.80			
16	Charuapali (new)	1.78	1.18	1.80	-0.02	-0.62
17	Danipali	2.10	3.42	3.30	-1.20	0.12
18	Dhurakhaman	1.79	2.18	1.84	-0.05	0.34
19	Dungripalli	0.72	1.05	1.02	-0.30	0.03
20	Gajabandhu	0.82	1.88	0.77	0.05	1.11
21	Gambharipalli	0.68	1.89	0.77	-0.09	1.12
22	Gariamunda	3.92		4.50	-0.58	
23	Ichhapur1	2.55	2.60	3.35	-0.80	-0.75
24	Jatesingha	6.45	2.15	6.22	0.23	-4.07
25	Karlajuri	4.52	1.92	4.60	-0.08	-2.68
26	Karttanga	4.30	0.95	4.60	-0.30	-3.65
27	Khaliapali	5.72	3.62	6.61	-0.89	-2.99
29	Kotasamalai	4.99	3.20	5.15	-0.16	-1.95
30	Mahada	6.21	2.08	6.15	0.06	-4.07
31	Mahadevpali	6.52	2.13	7.04	-0.52	-4.91
32	Metakani	8.84	1.69	3.04	5.80	-1.35
33	Naikpada	5.55	3.33	6.30	-0.75	-2.97
34	Nandanamal	4.49	4.98	4.20	0.29	-0.49
35	Palsapadar	3.02	1.44	3.53	-0.51	-2.09
36	Phulmuthi	4.03	3.13	4.46	-0.43	-1.33
37	Rampur	7.50	4.65	6.65	0.85	-2.00
38	S Patrapali	6.51	4.55	6.84	-0.33	1.96
39	Sakama	6.70	4.68	6.94	-0.24	-2.26
40	Saledi	5.20	4.68	5.78	-0.58	-1.10
41	Samalaichuan	2.12	2.45	2.20	-0.08	0.25
42	Sankara1	1.00	1.65	2.08	-1.08	-0.43
43	Sansamura	5.12	1.23	6.90	-1.78	-5.67
44	Sarangapali	1.67	2.02	1.96	-0.29	0.06
45	Sarasmal	2.33	2.30	1.78	0.55	0.52
46	Sargaj 1	4.77	4.88	6.24	-1.47	-1.36
47	Sindol	3.44	1.31	3.07	0.37	-1.76

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
48	Singhijuba	0.70	2.35	1.90	-1.20	0.45
49	Sonepur	7.92	3.54	7.60	0.32	-4.06
50	Subalaya	7.78	5.09	7.57	0.21	-2.48
51	Tebhapadar	7.01	4.42	7.13	-0.12	-2.71
52	Ulunda	6.26	3.35	5.90	0.36	-2.55

DISTRICT: SUNDARGARH

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
1	Alikera	10.29	6.79	8.19	2.10	-1.40
2	Badbahal	4.40	1.06	4.42	-0.02	-3.36
3	Balichuan	2.35	0.35	2.45	-0.1	2.00
4	Balijori	4.60	2.64	4.45	0.15	-1.81
5	Banki	10.00	4.30	9.57	0.43	-5.27
6	Bargad	6.20	2.20	6.70	-0.50	-4.50
7	Bargaon	5.30	1.09	5.10	0.20	-4.01
8	Bhasma	5.65	2.55	5.65	0.00	-3.10
9	Bihabandh Chawk	10.25	7.17	10.45	-0.20	-3.28
10	Birangatoli	8.45	1.76	8.77	-0.32	-7.01
11	Birmitrapur	2.50	1.50	2.20	0.30	-0.70
12	Bondamunda	4.45	2.87	2.87	1.58	0.00
13	Chandiposh	5.36	0.06	4.16	1.20	-4.10
14	Darjin	6.20	5.05	13.12	-6.92	-8.07
15	Deokaranpur	6.50	2.20	5.70	0.80	-3.50
16	Durubaga	4.10	3.16	4.23	-0.13	0.94
17	Ekma	4.70	1.40	3.96	0.74	-2.56
18	Garjan Bahal	5.00	0.55	5.90	-0.90	-5.35
19	Himgiri	3.75	1.95	8.10	-4.35	-6.15
20	Jagimal	5.61	1.75	5.72	-0.11	-3.97
21	Jharbera	13.69	6.39	8.79	4.90	-2.40
22	Karamdihi	6.74	1.71	7.17	-0.43	-5.46
23	Kinjrikela	6.40	2.13	6.85	-0.45	-4.72
24	Kuarmunda	8.15	2.02	6.19	1.96	-4.17
25	Kumajharia	3.10	1.08	3.87	-0.77	-2.79
26	Kutra	5.57	3.39	5.62	-0.05	-2.23
27	Lathikata	4.10	0.65	4.20	-0.10	-3.55
28	Ledhimang	5.40	2.25	6.25	-0.85	-4.00
29	Lefripada	10.96	6.96	10.81	0.15	-3.85
30	Lokedega	6.80	2.47	6.78	0.02	4.33
31	Mahulapali	3.40	2.02	4.38	-0.98	-2.36
32	Medinipur	10.00	2.25	10.00	0.00	-7.75
33	Panchomahala 1	3.15	1.33	4.41	-1.26	-3.08
34	Panderpali	9.20	4.84	11.30	-2.10	-6.46
35	Putudihi		2.50	3.5		
36	R-01 Jalda C-Block	5.55	0.48	4.55	1.00	-4.07
37	R-02 Jalda Rangila Chhak	2.75	1.30	2.35	0.40	-1.05
38	R-06 Basanti Colony	2.38	1.04	2.98	-0.60	-1.94
39	R-07 Udit Nagar-1	0.12	0.12	0.17	-0.05	-0.05
40	R-08 Udit Nagar-2	3.32	2.52	2.76	0.56	-0.24
41	R-09 Power House Road	3.92	3.26	3.74	0.18	-0.48
42	R-10 Raghunathpalli	3.00	1.60	2.73	0.27	-1.13
43	R-11 Hanuman Batika	1.40	0.80	1.10	0.30	-0.30
44	R-12 Gangadharpally	5.25	3.40	3.73	1.52	-0.33

Sl No.	Location	Water Level			Water Level Fluctuation in 2019/Apr with respect to	
		2018/Apr (mbgl)	2019/Nov (mbgl)	2019/Apr (mbgl)	2018/Apr (mbgl)	2019/Nov (mbgl)
45	R-13 Chhend	2.80	2.73	2.78	0.02	-0.05
46	R-14 Banposh (Urban)	9.82	4.49	8.24	1.58	-3.75
47	R-15 Bandamunda	9.19	3.14			
48	R-17 Jhumpudibasti(Nuabazar)	1.45	1.15	1.47	-0.02	-0.32
49	R-18 Koel Nagar	2.28	1.98	2.38	-0.10	-0.40
50	R-19 Jagada	7.89	4.09	7.71	0.18	3.8
51	R-20 Jhirpani	13.30	8.96	13.55	-0.25	-4.59
52	R-21 Sector-1	8.12	6.72			
53	R-22 Sector-2	2.50	2.50	2.61	-0.11	-0.11
54	R-23 Sector-3	5.22	4.72	5.02	0.20	-0.30
55	R-24 Sector-5	2.80	2.00	2.60	0.20	-0.60
56	R-25 Ambagaon	5.33	2.86	3.39	1.94	-0.53
57	R-26 Sector-6	4.62	4.09	4.27	0.35	-0.18
58	R-27 Sector-7	3.60	1.70	2.00	1.60	-0.30
59	R-28 Sector-8		1.90	2.45		-0.55
60	R-29 Sector-9	4.03	2.34	3.34	0.69	-1.00
61	R-30 Sector-13	3.42	1.77	2.97	0.45	-1.20
62	R-31 Sector-14	7.60	3.25	7.14	0.46	-3.89
63	R-32 Sector-20	5.25	4.75	4.83	0.42	-0.08
64	R-33 Sector 18	5.73	5.43	5.58	0.15	-0.15
65	R-34 Sector-17	2.27	1.67	1.89	0.38	-0.22
66	R-35 Sector-16		3.25	7.30		-4.05
67	R-36 Sector-15	2.65	2.39	2.41	0.24	-0.02
68	R-37 Vedvyas	7.75	1.75	6.72	1.03	-4.97
69	R-38 Kalunga	9.82	1.92	5.77	4.05	-3.85
70	Rajgangpur	8.64		8.97	-0.33	
71	Rangiamunda	6.29	0.81	8.02	-1.73	-7.21
72	Sabdega	4.44	1.13	4.48	-0.04	-3.35
73	Sargipali	3.60	0.80	3.65	-0.05	-2.85
74	Shahajbahal	5.30	1.50			
75	Sundargarh		2.46	4.39		-1.93
76	Surguda	10.85	8.95	11.35	-0.50	-2.40
77	Talsara	4.73	1.25	5.97	-1.24	-4.72
78	Uditnagar(rkl)	0.12	0.12	0.15	-0.03	-0.03

ANNEXURE - III

DISTRICT WISE CHEMICAL QUALITY OF NHS IN ODISHA (APRIL- 2018)

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
1	Angul	Chauliakata	7.22	210	105	85	60	22	7	5	4.2	0	73	21	10	0.27
2	Angul	Godibandha	7.54	310	157	100	85	20	12	21	4.8	0	104	43	5	0.12
3	Angul	Samal	8.08	580	282	125	200	20	18	72	3.5	0	244	21	28	1.52
4	Angul	Sipur	8.25	390	191	150	145	34	16	16	5.7	0	177	30	3	0.31
5	Angul	Khamar-1	7.64	460	234	165	125	42	15	26	5	0	153	71	0	0.15
6	Angul	Srirampur	7.88	390	196	160	105	36	17	15	1.2	0	128	60	4	0.27
7	Angul	Pallahara	7.99	480	244	145	110	34	15	41	1.8	0	134	72	15	0.11
8	Angul	Jamardihi	7.62	90	43	40	25	10	4	1	0.7	0	31	10	2	0.13
9	Angul	Sendhogram	7.81	820	428	200	245	24	34	95	2.2	0	299	82	44	1.59
10	Angul	Bhogabereni	7.42	2440	1292	515	425	78	78	312	20.6	0	519	363	186	0.94
11	Angul	Balanda	7.98	660	357	245	125	66	19	35	5.1	0	153	43	113	0.23
12	Angul	Singhda	7.98	780	456	145	165	32	16	98	21.6	0	201	118	72	0.3
13	Angul	Ghantapada	8.24	590	331	205	170	60	13	39	2.1	0	207	67	48	0.34
14	Angul	Talcher1	8.01	620	345	240	90	42	33	30	1.2	0	110	72	113	0.18

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
15	Angul	Tentulai	7.91	1680	830	565	450	50	107	125	1.3	0	549	222	56	1.11
16	Angul	Kukurang	8.28	1730	906	235	390	24	43	288	1.9	0	476	174	142	3.94
17	Angul	Kuio	7.64	1510	733	545	330	70	90	92	5	0	403	233	46	1.33
18	Angul	Kumunda 1	7.91	710	367	210	130	38	28	63	2.8	0	159	82	75	0.64
19	Angul	Chendipada1	7.89	580	281	200	175	28	32	40	1.8	0	214	48	27	1.54
20	Angul	Bagharia	7.57	1070	571	330	175	60	44	90	4.3	0	214	192	76	0.4
21	Angul	Sanasantrabandha	7.52	800	435	300	75	68	32	41	5.8	0	92	187	57	0.84
22	Angul	Kosala1	7.91	710	356	275	120	72	23	33	3.3	0	146	122	31	0.35
23	Angul	Nisa	7.76	800	410	235	110	42	32	73	4.7	0	134	165	28	0.34
24	Angul	Paranga	8.27	680	319	190	270	18	35	66	4.9	0	329	22	12	0.82
25	Angul	Kulad	7.53	2880	1505	900	350	140	134	244	5.2	0	427	758	15	1.48
26	Angul	Tulsipal	7.89	180	96	85	60	18	10	1	1.8	0	73	20	10	0.38
27	Angul	Amna	8.21	680	321	205	300	20	38	60	2.8	0	366	8	13	1.33
28	Angul	Banarpal1	8.07	1340	714	240	400	26	43	194	5.3	0	488	176	31	0.84
29	Angul	Tubey	7.84	600	298	210	185	28	34	40	1.3	0	226	72	12	0.36
30	Angul	Ugi	7.68	440	219	140	190	30	16	32	4.7	0	232	15	8	0.44
31	Angul	Jharpada	8.04	1590	823	385	420	20	81	179	12.8	0	512	238	41	1.13

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
32	Angul	Thakurgarh 1	7.87	910	438	263	284	53	32	86	1	0	346	89	39	0.89
33	Angul	Athamallik 2	7.94	460	238	141	144	45	7	35	7	0	176	42	22	0.35
34	Angul	Tileswar	8.16	470	198	197	189	36	26	15	0.7	0	231	20	13	0.4
35	Angul	Bamur	7.8	470	204	187	154	30	27	20	1.1	0	188	42	18	0.97
36	Angul	Handpa	7.96	410	198	146	129	36	14	26	1.7	0	158	37	20	0.38
37	Angul	Durgapur 1	7.84	1190	610	500	340	94	64	42	2.2	0	415	158	46	0.67
38	Angul	Panchmahala	8.04	1200	635	270	285	24	51	150	1.3	0	348	182	56	1.36
39	Angul	Angul1	7.73	980	506	330	205	60	44	72	0.8	0	250	184	23	0.55
40	Angul	Jagannathpur	7.62	570	277	225	195	36	33	22	5.8	0	238	56	8	0.18
41	Angul	Purnakot	8.19	400	190	195	175	24	33	1	1.3	0	214	22	4	0.51
42	Angul	Tikarpara	8.08	400	194	190	140	36	24	1	4.7	0	171	36	8	0.29
43	Angul	Bantala	8.25	900	421	240	325	14	50	94	3.6	0	397	54	11	2.09
44	Angul	Barhabahal	8.22	2210	1134	550	750	40	109	251	4.1	0	915	223	58	2.91
45	Angul	Mahidhrapur	7.69	830	419	305	220	40	50	49	1.8	0	268	103	44	0.31
46	Balangir	Agalpur	8.39	890	467	229	195	60	19	77	30.9	12	214	108	55	0.33
47	Balangir	Ampali(Rampur Ampali)	8.28	410	227	114	78	30	10	28	17.9	0	95	68	27	0.4
48	Balangir	Atgan	8.25	460	241	139	102	32	15	27	21.9	0	125	58	26	0.38

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
49	Balangir	Bairasar	7.9	1480	761	483	122	100	57	111	3.2	0	149	337	79	0.55
50	Balangir	Balukunda	8.5	640	296	199	249	32	29	54	0.7	12	280	30	1	1.27
51	Balangir	Bandupalla	8.2	1240	619	373	195	48	62	107	0.9	0	238	174	110	2.01
52	Balangir	Banjari	8.32	620	298	224	185	30	36	26	17.2	9	208	55	22	0.68
53	Balangir	Banjipali	8.45	500	220	219	205	42	28	11	0.7	6	238	15	1	1.55
54	Balangir	balgaon	8.35	450	204	194	171	34	27	12	0.6	12	184	25	3	1.06
55	Balangir	Belpara	8.24	600	291	214	219	40	28	40	1.1	0	268	20	30	1.51
56	Balangir	Bijakhaman	8.02	980	468	423	146	64	64	21	5.8	0	178	156	70	0.62
57	Balangir	Bolangir-ii	8.41	1150	611	204	278	30	32	165	0.9	18	303	136	81	1.71
58	Balangir	Bongamunda	8.21	270	132	85	98	24	6	14	3.5	0	119	13	14	0.41
59	Balangir	Chhatamakna	7.4	520	250	194	229	50	17	22	6.5	0	280	20	-3	0.8
60	Balangir	Chormara	8.17	450	218	149	132	30	20	23	11	0	161	38	18	0.43
61	Balangir	Chudapali	8.45	850	444	274	215	72	23	56	20.5	12	238	96	48	0.51
62	Balangir	Dhamandanga	8.45	890	462	244	185	56	26	65	33.2	15	196	96	75	0.37
63	Balangir	Dhumabata	8.44	950	494	274	185	50	36	65	39.4	88	48	106	86	0.32
64	Balangir	Dhumamara	8.31	1040	566	174	229	30	24	132	34.9	9	262	149	59	0.33
65	Balangir	Dudokasar	8.1	1570	789	358	137	70	45	161	26.4	0	167	322	82	0.27

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
66	Balangir	Duduka	8.23	1690	913	328	141	48	51	175	73	0	172	398	84	0.29
67	Balangir	Dulusara	8.3	490	262	124	98	44	4	36	14.4	0	119	68	38	0.49
68	Balangir	Dumabata	7.77	480	254	149	88	28	19	28	20.4	0	107	65	40	0.34
69	Balangir	Dumalpada	7.49	440	236	124	102	32	11	31	21.3	0	125	48	32	0.3
70	Balangir	Dumerbahal	8	890	436	313	195	44	50	55	2.4	0	238	126	42	0.81
71	Balangir	Fasad	8.23	870	438	323	132	56	45	40	14.3	0	161	138	65	0.41
72	Balangir	Fatamunda	8.43	670	325	254	161	38	39	35	0.9	12	172	86	30	0.66
73	Balangir	Fattamunda	7.96	420	196	164	141	34	19	20	0.9	0	172	33	5	0.57
74	Balangir	Gaintala	8.12	1010	528	328	122	70	38	71	15.3	0	149	186	75	0.52
75	Balangir	Gudighat	8.26	910	458	274	293	50	36	81	2.4	0	357	78	35	0.91
76	Balangir	Haldi	8.24	1430	803	264	312	50	34	98	180.6	0	381	191	62	0.31
77	Balangir	Harbhanga	8.26	410	193	169	141	42	16	14	1.3	0	172	30	5	0.44
78	Balangir	Harisankar	8.39	500	236	169	195	28	24	37	1.5	9	220	25	4	0.82
79	Balangir	Ichgaon	8.24	440	211	184	146	54	12	14	1.4	0	178	35	7	0.49
80	Balangir	Jagua	8.19	510	232	179	190	28	27	31	2.6	0	232	25	4	0.83
81	Balangir	Jamut	8.06	1680	1035	269	258	44	39	191	256	0	315	277	74	0.46
82	Balangir	Jhankarpali	8.23	470	232	164	161	44	13	31	1.1	0	196	40	6	0.53

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
83	Balangir	Jogisarda	8.22	360	209	119	151	54	-4	31	1	0	184	33	4	0.65
84	Balangir	Jorpada	8.09	440	203	174	166	36	21	18	1.9	0	202	23	5	0.91
85	Balangir	Jugimunda	8.37	730	349	204	249	34	29	56	3.6	9	285	73	4	2.41
86	Balangir	Kacherpalli(Deogaon)	8.06	630	300	219	176	44	27	38	0.8	0	214	53	32	1.66
87	Balangir	Kantabanjhi	8.1	620	288	184	239	26	29	54	3.1	0	291	25	8	2.49
88	Balasore	Ayodhya	8.59	950	529	188	204	61	9	66	100	11	226	117	65	0.28
89	Balasore	Baband	8.25	920	464	233	181	30	39	82	24.7	0	221	163	55	0.39
90	Balasore	Bagudi	8.3	580	292	198	147	28	32	35	5.8	0	180	78	17	0.56
91	Balasore	Bankisul	8.4	1010	604	238	276	32	39	83	101	6	325	148	25	0.66
92	Balasore	Basta	8.02	1150	618	366	90	40	66	75	45	0	110	304	35	0.31
93	Balasore	Bhagabondh	8.3	850	420	223	195	48	26	61	51	0	238	117	35	0.27
94	Balasore	Bhalukasuni	8.01	75	81	35	29	10	2	15	0.5	0	35	27	0	0.16
95	Balasore	Kantiatikar	8.3	620	313	153	176	30	19	62	7.5	0	215	85	9	0.57
96	Balasore	Gadasahi	8.46	350	239	149	143	20	24	16	5.1	6	163	24	4	0.38
97	Balasore	Govindpur	7.68	400	198	153	90	36	16	18	3.1	0	110	36	65	0.32
98	Balasore	Jodibali	8.46	750	344	188	143	38	23	45	18.5	9	157	109	35	0.24
99	Balasore	Jamsuli	8.59	610	381	158	252	26	23	73	25.2	11	285	51	25	0.53

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
100	Balasore	Kansa-1	8.3	700	376	233	119	63	18	50	21.3	0	145	136	32	0.2
101	Balasore	Kuligaon	8.4	690	372	262	181	44	38	46	16.8	14	192	114	17	0.86
102	Balasore	Kunchibenia	7.74	190	98	79	33	24	5	3	0.9	0	41	34	5	0.16
103	Balasore	Kupari	8.54	350	214	163	157	44	13	23	3.2	17	157	29	11	0.35
104	Balasore	Matiali	8.11	210	104	99	43	28	7	4	1.5	0	52	36	8	0.15
105	Balasore	Mitrapur	8.03	100	73	45	33	12	4	10	1.1	0	41	24	2	0.12
106	Balasore	Nilagiri	8.2	1150	637	238	233	54	26	101	94.5	0	285	221	1	0.28
107	Balasore	Raibania	7.94	180	145	64	24	14	7	14	1	0	29	49	1	0.13
108	Balasore	Remuna	8.61	950	556	312	261	89	22	47	86.4	23	273	131	45	0.2
109	Balasore	Siadimal	8.38	890	652	272	266	61	29	73	73.6	14	296	151	24	0.66
110	Balasore	Khaira	8.51	1100	576	203	257	44	23	100	125	23	267	126	105	0.43
111	Balasore	Bhula	7.7	330	178	99	38	24	10	30	2.3	0	46	83	4	0.15
112	Balasore	Tikpada	7.81	100	99	54	29	20	1	2	0.8	0	35	17	7	0.14
113	Balasore	Sunhat	8.56	650	303	243	195	77	12	27	15.1	14	209	56	41	0.19
114	Bargarh	Attabira 1	7.12	3470	1914	490	322	154	24	505	50	0	393	986.0	2	1.13
115	Bargarh	Baghapalli	7.3	1470	704	431	238	67	64	106	5	0	290	246.0	74	1.22
116	Bargarh	Bargarh 1	7.19	1350	671	353	252	98	26	107	3	0	308	220.0	66	0.74

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
117	Bargarh	Batetarma	7.22	600	318	127	79	42	5	67	14	0	97	101.0	42	0.23
118	Bargarh	Bhatli 1	7.03	680	328	196	149	54	15	52	6	0	181	75.0	37	0.29
119	Bargarh	Bheden 1	7.05	1220	611	446	144	115	38	59	2	0	175	264.0	48	0.73
120	Bargarh	Bhukta	7.38	650	331	201	168	36	27	47	7	0	205	80.0	33	0.67
121	Bargarh	Bijepur 1	7.57	430	201	93	149	17	12	53	1	0	181	23.0	7	1.10
122	Bargarh	Boipur	7.26	390	194	147	119	35	15	18	3	0	145	23.0	29	0.34
123	Bargarh	Bugbugi	7.1	580	277	240	203	69	16	8	8	0	248	54.0	0	0.38
124	Bargarh	Burda	7.07	490	246	152	163	36	15	43	0	0	199	34.0	21	0.38
125	Bargarh	Burdapali	7.43	1500	663	309	327	48	46	150	11	0	399	207.0	5	1.79
126	Bargarh	Chadheigaon	7.34	480	228	157	153	46	10	31	1	0	187	49.0	0	0.55
127	Bargarh	Chaklifarm	7.45	290	150	118	109	36	6	12	2	0	133	18.0	10	0.36
128	Bargarh	Chuchinda	7.28	470	225	176	163	60	6	17	9	0	199	26.0	9	0.32
129	Bargarh	Dang	7.38	630	319	157	144	36	16	67	1	0	175	67.0	46	0.82
130	Bargarh	Dumal Pali	7.55	540	269	167	144	44	13	38	1	0	175	72.0	15	0.48
131	Bargarh	Dungri	7.15	450	212	176	168	42	17	18	5	0	205	21.0	9	0.44
132	Bargarh	Gaisilet3	7.36	2880	1482	549	248	54	102	403	3	0	302	675.0	97	0.80
133	Bargarh	Ghens	7.84	1770	927	407	248	54	67	203	25	0	302	355.0	76	0.64

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
134	Bargarh	Gondtarum	8.14	410	194	123	124	29	12	31	5	0	151	26.0	17	0.38
135	Bargarh	Gorbhaga	7.98	250	125	103	104	38	1	9	1	0	127	8.0	5	0.43
136	Bargarh	Grinjal	7.87	2310	1229	304	297	42	49	220	229	0	362	424.0	88	0.82
137	Bargarh	Jagalpet	7.78	1760	816	446	262	88	55	135	31	0	320	261.0	88	3.54
138	Bargarh	Jamurda	7.34	420	221	132	129	40	7	31	10	0	157	26.0	30	0.33
139	Bargarh	Kalapani	7.31	560	292	147	178	31	17	46	26	0	217	31.0	36	0.31
140	Bargarh	Kantabahal	7.73	1000	473	279	272	38	45	96	1	0	332	98.0	33	0.62
141	Bargarh	Karla	7.54	230	99	69	50	23	2	13	0	0	60	28.0	3	0.25
142	Bargarh	Kharmanda	7.01	1980	901	544	257	152	39	146	2	0	314	329.0	79	0.28
143	Bargarh	Kharmanda	7.53	1740	967	319	248	56	44	81	256	0	302	290.0	92	0.32
144	Bargarh	Kharmanda	7.75	1180	559	314	213	67	35	98	11	0	260	153.0	67	3.08
145	Bargarh	Khuntapali	7.74	930	520	167	213	42	15	96	72	0	260	98.0	70	1.00
146	Bargarh	Khutlipalli	7.31	870	461	230	158	73	11	91	6	0	193	148.0	38	0.38
147	Bargarh	kulunda	7.35	560	302	152	149	38	13	53	19	0	181	54.0	36	0.34
148	Bargarh	kumbhari	7.29	970	478	304	163	63	35	72	3	0	199	132.0	75	0.54
149	Bargarh	kuruan	7.56	490	279	157	188	38	15	45	17	0	229	36.0	16	0.46
150	Bargarh	Kusanpur	7.45	270	877	466	153	111	45	171	4	0	187	375.0	80	0.61

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
151	Bargarh	kumelsingha	7.61	430	173	137	104	33	13	15	3	0	127	23.0	24	0.38
152	Bargarh	Kodabahal 2	7.62	250	134	98	84	27	7	15	2	0	103	21.0	11	0.27
153	Bargarh	Lakhanpur	7.51	330	195	83	109	25	5	32	22	0	133	36.0	11	0.30
154	Bargarh	Larambha	7.47	310	195	98	114	23	10	39	4	0	139	26.0	24	0.18
155	Bargarh	Lastala	7.43	590	346	152	178	42	11	82	3	0	217	65.0	37	0.51
156	Bargarh	Lenda	7.68	890	443	162	262	25	24	125	1	0	320	62.0	49	0.90
157	Bargarh	Patrapalli	7.66	930	506	270	173	40	41	100	6	0	211	142.0	74	0.49
158	Bargarh	Puturipali	7.71	330	171	108	109	31	7	21	8	0	133	21.0	18	0.41
159	Bargarh	Purrakhai	7.57	980	570	172	183	36	19	104	85	0	223	148.0	68	0.28
160	Bargarh	Remada	7.53	560	330	176	183	50	12	63	6	0	223	47.0	43	0.90
161	Bargarh	Remenda	7.49	640	286	157	144	33	18	57	4	0	175	60.0	29	0.48
162	Bargarh	Rengalpali	7.48	310	149	108	114	33	6	20	1	0	139	16.0	5	0.36
163	Bargarh	Resham	7.48	1060	503	284	149	54	36	93	5	0	181	192.0	34	0.65
164	Bargarh	Rusuda	7.64	720	358	176	238	23	29	85	2	0	290	41.0	36	1.21
165	Bargarh	Sarala	7.65	710	367	152	203	33	17	88	12	0	248	60.0	36	0.32
166	Bargarh	Satlama	7.74	260	141	88	84	23	7	25	1	0	103	26.0	8	0.66
167	Bargarh	Shukutapali	7.19	1860	971	598	158	121	72	149	12	0	193	409.0	114	0.28

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
168	Bargarh	Sikirdi	7.64	280	141	88	94	25	6	18	2	0	115	18.0	16	0.33
169	Bargarh	Sulsulia	7.58	850	536	402	218	69	56	62	2	0	266	127.0	90	0.27
170	Bargarh	Sunajuri Tukuria	7.73	580	340	118	163	36	6	95	1	0	199	70.0	34	0.21
171	Bargarh	Sarandapali	7.58	1460	750	559	183	138	51	79	7	0	223	311.0	56	0.45
172	Bargarh	Thuapali1	7.84	520	260	172	153	48	12	40	4	0	187	57.0	8	0.28
173	Bargarh	Tora	7.32	460	288	118	124	33	9	69	1	0	151	57.0	45	0.48
174	Bargarh	Uttam	7.15	780	484	245	282	54	27	68	56	0	344	75.0	35	0.42
175	Bargarh	Hirapur	8.01	730	373	197	337	32	29	73	2.3	0	411	24	11	0.87
176	Bargarh	Jamset	8	990	484	315	337	37	55	62	6.6	0	411	95	26	0.41
177	Bargarh	Majhipali	7.98	1940	990	571	351	110	73	142	62.3	0	429	318	74	0.40
178	Bargarh	Malada	8.24	1450	735	483	351	128	40	99	0.7	0	429	202	55	0.27
179	Bargarh	Mithapali	8.24	730	362	153	337	26	22	85	0.9	0	411	17	10	0.90
180	Bargarh	Purena	8.11	1050	509	315	406	41	52	75	9.2	0	495	71	18	0.47
181	Bargarh	Nrusinghanath	7.95	910	418	360	262	45	61	34	2.8	0	320	93	26	0.34
182	Bhadrak	Adasasan	8.09	365	295	114	105	32	9	21	1.6	0	128	49	2	0.42
183	Bhadrak	Agarpada	8.29	1400	726	292	257	48	43	100	154	0	314	219	120	0.08
184	Bhadrak	Bagdavinayakpur	8.03	400	212	163	95	44	13	19	0.5	0	116	68	8	0.62

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
185	Bhadrak	Balipatna	8.3	290	165	119	100	38	6	20	0.3	0	122	41	10	0.72
186	Bhadrak	Benipur	8.26	275	233	104	90	36	4	20	0.1	0	110	41	0	0.57
187	Bhadrak	Bentola	8.62	1285	799	243	323	65	19	71	206.8	9	377	148	78	0.1
188	Bhadrak	Betaligaon	8.44	750	363	134	67	26	17	100	4.5	6	70	155	95	0.18
189	Bhadrak	Bhagavanpur	8.41	370	249	139	124	40	10	20	3.8	6	139	36	20	0.27
190	Bhadrak	Bidanpur	8.49	710	419	163	166	46	12	83	23.9	9	186	109	65	0.23
191	Bhadrak	Durgapur	8.5	1006	572	213	290	54	19	77	97.8	9	337	148	45	0.19
192	Bhadrak	Jasotikiri	8.24	438	325	153	86	32	18	20	10.5	0	105	83	2	0.73
193	Bhadrak	Kothar-3	8.5	1450	751	366	323	69	47	100	100.9	9	377	233	110	0.11
194	Bhadrak	Rambhila	8.29	480	239	163	119	20	28	20	9.3	0	145	66	8	0.45
195	Bhadrak	Randia	8.29	500	386	104	171	22	12	56	10.2	0	209	39	25	0.45
196	Bhadrak	Tihidi	8.42	2150	1039	431	261	44	79	225	32.9	6	308	432	145	0.26
197	Bhadrak	Dhamnagar	8.51	1190	553	371	280	38	68	101	4.6	11	319	155	70	1.57
198	Bhadrak	Dhobal	8.25	850	400	238	157	30	40	62	15.2	0	192	155	20	0.94
199	Bhadrak	ManjuriRoad	8.3	400	221	134	105	46	5	20	5.9	0	128	56	4	0.29
200	Bhadrak	Kenduapada	7.74	5770	2766	1723	81	276	254	305	4	0	99	1753	25	0.14
201	Bhadrak	Rambhila	8.6	1690	852	376	409	91	36	94	196	9	482	170	125	0.2

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
202	Bhadrak	Sabrang	8.44	450	267	163	157	26	24	21	8.2	6	180	29	20	0.89
203	Boudh	Adenegarh	7.83	340	167	130	138	30	13	17	0.8	0	168	19	5	0.19
204	Boudh	Anlapali	7.49	1110	604	375	223	94	34	81	1.4	0	272	154	106	0.20
205	Boudh	Auinla Chua Chhak	7.79	310	163	115	102	34	7	16	0.8	0	124	26	18	0.29
206	Boudh	Baghiapada	7.6	670	316	290	295	42	45	20	0.6	0	360	19	12	0.68
207	Boudh	Bala Singha	7.87	1300	717	410	376	114	30	62	79.6	0	459	116	90	0.25
208	Boudh	Bodigaon	8.05	540	265	190	228	36	24	35	0.8	0	278	19	13	0.95
209	Boudh	Boudh	7.62	1450	728	435	362	56	72	131	3.8	0	442	143	105	0.54
210	Boudh	Bruhaspatipur	7.94	890	425	340	377	54	50	45	2.1	0	460	33	15	0.91
211	Boudh	Butupalli	7.9	420	219	135	168	40	9	34	0.7	0	205	21	13	0.98
212	Boudh	Dahya	7.72	490	253	185	179	50	15	20	9.8	0	218	33	18	0.28
213	Boudh	Dholpur	7.75	1400	701	420	332	50	72	126	3.7	0	405	190	60	0.49
214	Boudh	Erada	7.74	990	482	290	291	42	45	92	0.4	0	355	83	44	1.40
215	Boudh	Gaundhisar	8.03	760	354	340	342	46	55	16	1.1	0	417	14	16	1.30
216	Boudh	Gohipita	7.84	1250	669	390	326	112	27	60	80.0	0	398	140	55	0.29
217	Boudh	Gudveli Padar	8.05	490	240	195	209	50	17	22	1.4	0	255	10	14	1.10
218	Boudh	Gundulia	7.7	860	429	350	280	62	47	33	5.3	0	342	74	40	0.48

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
219	Boudh	Harbhanga	7.64	1350	698	410	342	56	66	119	3.5	0	417	188	61	0.52
220	Boudh	Harekrishnapur	8.2	770	336	345	311	50	53	16	1.5	0	379	17	12	1.20
221	Boudh	Jahnapanka	7.86	520	275	200	158	66	9	20	9.9	0	193	55	20	0.29
222	Boudh	Kamira	7.91	1080	542	335	393	44	55	92	0.8	0	480	59	55	1.40
223	Boudh	Kantamal	7.88	380	189	150	147	38	13	16	0.8	0	179	17	16	0.34
224	Boudh	Karoda Kotha	7.79	300	143	110	121	20	15	17	0.8	0	148	17	0	0.20
225	Boudh	Khajuripada	7.82	1430	665	680	323	24	151	15	1.7	0	394	221	58	0.83
226	Boudh	Khatkhatia	7.88	1190	648	525	332	150	36	25	11.7	0	405	147	80	0.34
227	Boudh	Landibandh	8.02	1160	573	540	282	48	102	16	1.3	0	344	173	64	0.14
228	Boudh	Laxmanpur	7.84	690	352	335	321	92	26	4	1.0	0	392	29	8	0.19
229	Boudh	Lumurijena	7.69	390	193	185	126	56	11	2	1.5	0	154	38	9	0.43
230	Boudh	Lunibahal	8.07	670	306	320	290	52	46	4	2.0	0	354	17	10	1.26
231	Boudh	Maheswarpinda	8.21	1070	600	395	286	88	43	11	89.4	0	349	143	54	0.28
232	Boudh	Manamunda	8.03	290	153	130	94	44	5	4	1.3	0	115	24	18	0.32
233	Boudh	Nuapada 1	8.22	590	259	280	237	30	50	4	1.8	0	289	19	11	1.20
234	Boudh	Nuapali	8.17	440	226	195	145	50	17	5	10.5	0	177	36	20	0.29
235	Boudh	Palasaguda 1	7.6	1560	831	710	158	178	64	25	11.3	0	193	382	76	0.27

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
236	Boudh	Poulam 2	8.14	460	235	200	158	48	19	5	11.8	0	193	33	23	0.29
237	Boudh	Purunakatak	7.91	1100	542	510	248	60	87	16	1.0	0	303	166	63	0.13
238	Boudh	Radha Nagar	7.8	700	355	325	168	46	51	9	1.6	0	205	114	33	0.40
239	Boudh	Rambhikata	8.16	920	456	430	245	84	53	11	2.7	0	299	128	30	0.37
240	Boudh	Sahajpal	7.61	1310	707	585	143	124	67	25	11.2	0	174	320	74	0.27
241	Boudh	Sangrampur	8.03	1530	823	690	260	206	43	27	12.0	0	317	310	69	0.30
242	Boudh	Sarsara	8.09	1060	511	490	321	44	92	16	1.0	0	392	113	53	0.14
243	Boudh	Sarta-Guda	8.28	660	321	305	275	76	28	9	2.1	0	336	26	14	0.86
244	Boudh	Singarichhak	8.3	430	216	205	199	46	22	4	1.0	0	243	12	11	1.14
245	Boudh	Tilesar 1	8.08	1250	619	585	352	94	85	16	1.0	0	429	150	63	0.16
246	Boudh	Udaypyr	8.27	700	340	325	311	66	39	9	2.4	0	379	26	11	0.88
247	Boudh	Usbelika	7.94	460	223	220	164	54	21	2	1.4	0	200	36	10	0.47
248	Boudh	Usbelika	7.88	710	329	330	173	50	50	6	5.5	0	211	78	36	0.44
249	Boudh	Banigochha	7.89	580	268	275	188	56	33	5	1.0	0	230	48	12	0.23
250	Cuttack	Megha	7.32	535	290	230	125	52	24	20	0.1	0	153	80	39	0.33
251	Cuttack	Rajnagar	8.02	60	47	50	40	6	9	0	0.1	0	49	5	3	0.09
252	Cuttack	Radha Gobindapur	7.16	80	42	40	35	10	4	0	0.1	0	43	2	5	0.10

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
253	Cuttack	Athagarh-1	7.48	87	61	65	20	10	10	0	0.1	0	24	27	2	0.14
254	Cuttack	Tigiria	7.74	950	508	310	150	86	23	78	0.7	0	183	200	31	0.38
255	Cuttack	Abhimanpur	7.88	1460	722	530	250	114	60	78	16.3	0	305	272	33	0.44
256	Cuttack	Karadibandh	8.08	1040	565	385	290	76	47	74	5.3	0	354	162	27	0.66
257	Cuttack	Gopapur	8.01	576	334	220	210	34	33	54	0.1	0	256	82	6	0.47
258	Cuttack	Balijhari 1	7.88	1390	694	355	280	100	26	130	0.1	0	342	235	36	0.25
259	Cuttack	Kanapur	7.46	1451	716	550	385	130	55	69	0.1	0	470	200	32	0.31
260	Cuttack	Narsingpur	7.57	995	609	305	480	60	38	135	5.9	0	586	57	26	1.28
261	Cuttack	Saradapur	7.3	987	433	305	250	114	5	38	0.1	0	305	100	27	0.65
262	Cuttack	Khuntuni	8.21	655	297	225	125	40	30	36	0.1	0	153	95	21	0.27
263	Cuttack	Oranda	7.94	110	54	45	40	14	2	1	2.4	0	49	5	5	0.11
264	Cuttack	Choudwar	7.57	284	123	105	40	26	10	1	5.3	0	49	40	17	0.13
265	Cuttack	Shankarpur	8.2	426	233	230	180	50	26	3	0.8	0	220	25	21	0.17
266	Cuttack	Banki 1	7.83	670	337	275	245	86	15	27	0.9	0	299	60	2	0.42
267	Cuttack	Khannagar	6.54	500	254	179	100	48	15	30	5.5	0	122	79	17	0.07
268	Cuttack	Bidanas 1	6.46	530	259	195	182	58	12	23	12.3	0	223	43	2	0.37
269	Cuttack	Sekh bazar	6.73	230	119	110	91	22	13	7	2.1	0	111	17	3	0.23

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				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
270	Cuttack	Bose campus	6.77	290	136	119	115	26	13	9	1.4	0	141	17	0	0.22
271	Cuttack	Sikharpur	6.5	220	116	90	62	20	10	8	4.4	0	76	17	19	0.21
272	Cuttack	Mahabhadia bazar	6.75	840	444	280	221	68	27	30	57.0	0	269	79	51	1.30
273	Cuttack	Chandi temple	7.27	940	464	323	326	74	34	43	41.0	0	398	60	18	0.04
274	Cuttack	Buxi bazar	7.32	200	100	75	72	20	6	9	3.2	0	88	15	4	0.29
275	Cuttack	Fakirpur	6.92	510	248	164	211	24	25	43	0.1	0	258	27	2	0.16
276	Cuttack	Sikharpur	7.44	910	454	308	307	64	36	40	48.0	0	375	72	10	0.13
277	Cuttack	Bidhyadharpur	7.05	780	378	333	269	76	35	19	10.9	0	328	27	49	0.10
278	Cuttack	Balikuda 2	6.93	620	308	239	182	54	25	32	2.8	0	223	50	35	0.12
279	Cuttack	Jagatpur 2	7.03	660	351	275	145	80	18	21	8.5	0	177	53	84	0.12
280	Cuttack	Manguli	7.24	1320	645	363	300	40	64	109	34.5	0	366	167	52	0.39
281	Cuttack	Jagatpur 3	7.21	530	256	199	211	40	24	24	1.5	0	258	32	8	0.31
282	Cuttack	Kharpuria 1	7.11	500	256	194	155	36	25	20	11.0	0	189	25	46	0.18
283	Cuttack	Kharpuria 2	7.22	650	319	234	221	42	31	37	7.7	0	269	60	10	0.16
284	Cuttack	Pithapur	7.37	750	374	249	221	60	24	41	27.0	0	269	69	20	0.10
285	Cuttack	Khapuria 3	7.5	550	262	214	173	44	25	22	8.0	0	211	42	18	0.15
286	Cuttack	Badambadi	7.21	410	193	159	134	30	21	16	6.2	0	164	32	8	0.17

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
287	Cuttack	Chakuli	7.37	630	307	239	202	34	37	32	4.9	0	246	50	28	0.11
288	Cuttack	Netaji nagar	7.25	450	223	164	139	34	19	22	10.5	0	170	42	12	0.20
289	Cuttack	Anantpur	7	480	239	200	144	54	16	16	4.0	0	176	28	35	0.11
290	Cuttack	Belasahi	7.09	1010	537	259	331	68	22	65	58.0	0	404	74	53	0.20
291	Cuttack	Brahmanojarilo	7.19	230	118	70	58	22	4	20	0.8	0	70	32	5	0.06
292	Cuttack	Choudwar	6.81	580	315	179	95	52	12	38	19.3	0	116	78	59	0.07
293	Cuttack	Dimiri	6.82	290	142	100	101	26	8	19	3.6	0	123	25	0	0.16
294	Cuttack	Gopalpur	6.82	560	277	230	158	56	22	17	9.0	0	193	55	23	0.13
295	Cuttack	Jagatpur 1	7.06	530	270	189	202	64	7	19	9.2	0	246	25	26	0.14
296	Cuttack	Kandarpur	7.14	560	266	204	216	48	21	32	6.9	0	264	30	0	0.22
297	Cuttack	Kasarda	7.38	1440	727	383	403	66	53	101	36.5	0	492	181	49	0.05
298	Cuttack	Kulia mkt	7.4	460	225	200	163	64	10	8	8.0	0	199	18	21	0.16
299	Cuttack	Madhalo	7.24	1180	602	318	307	62	40	96	42.8	0	375	117	61	0.03
300	Cuttack	Nachhipur	7.13	540	273	209	120	62	13	20	4.9	0	146	25	76	0.07
301	Cuttack	Niali	6.93	500	271	154	110	34	17	35	16.1	0	135	50	54	0.04
302	Cuttack	Nimpur	7.01	470	237	164	139	52	8	28	6.1	0	170	40	20	0.05
303	Cuttack	Nischita koili	7.27	700	327	274	206	34	46	30	4.0	0	252	47	42	0.20

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
304	Cuttack	Nuagarh	6.9	320	168	125	91	30	12	7	15.3	0	111	22	27	0.16
305	Cuttack	Orti	7.29	550	247	215	190	26	37	26	1.1	0	232	35	9	0.28
306	Cuttack	Pariamarpada	7.51	480	236	139	154	36	12	45	1.3	0	187	45	5	0.21
307	Cuttack	Sankilo	7.75	610	290	219	185	22	40	39	0.4	0	226	43	36	0.32
308	Cuttack	Sisua	7.4	620	284	224	226	36	33	37	3.0	0	275	32	9	0.18
309	Cuttack	Telengapentha	7.3	510	265	154	154	48	8	33	10.4	0	187	50	24	0.12
310	Deogarh	Deogarh	8.06	640	330	234	141	44	30	37	4.4	0	172	88	43	0.34
311	Deogarh	Kalamati	8.31	500	235	209	146	42	26	13	2	6	167	38	26	0.28
312	Deogarh	kalkat	8.3	430	197	174	180	30	24	16	3.1	6	208	13	3	0.29
313	Deogarh	Purumunda	8.15	430	226	104	98	22	12	46	7.5	0	119	65	15	0.26
314	Deogarh	Rengalbeda	8.36	830	442	109	219	20	15	132	1.9	9	250	93	48	2.11
315	Deogarh	Riamal	8.22	1310	694	239	219	38	35	180	15.4	0	268	204	90	1.19
316	Deogarh	Tarang	8.3	510	265	159	141	48	10	40	1.6	15	143	68	13	0.54
317	Deogarh	Talimunda	8.52	420	196	174	151	40	18	15	2.6	15	155	28	2	0.43
318	Dhenkanal	Hindol1	7.65	610	302	255	185	34	41	20	3.5	0	226	61	31	0.24
319	Dhenkanal	Balmi	7.82	460	224	190	180	46	18	17	1	0	220	32	2	0.37
320	Dhenkanal	Bhapur2	7.92	520	238	185	200	30	27	30	3.9	0	244	26	2	0.27

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
321	Dhenkanal	Jhumpuria	7.66	580	298	235	180	22	44	20	8.2	0	220	59	38	0.29
322	Dhenkanal	Rasol	7.6	1020	487	460	105	56	78	20	2.5	0	128	221	47	0.22
323	Dhenkanal	Bhagabanpur	7.74	1350	735	450	195	28	92	100	2.8	0	238	290	105	0.43
324	Dhenkanal	Babandh	7.86	1030	500	415	230	34	80	44	2.9	0	281	159	43	0.65
325	Dhenkanal	Bompa	7.77	500	248	205	185	38	27	18	1.2	0	226	35	18	0.2
326	Dhenkanal	Balrampur	7.92	290	140	110	115	28	10	13	2.8	0	140	15	2	0.24
327	Dhenkanal	Bandhnuagaon	7.74	440	220	175	110	30	24	19	0.8	0	134	72	8	0.22
328	Dhenkanal	Joranda	7.67	230	122	70	55	24	2	18	1.6	0	67	38	5	0.22
329	Dhenkanal	Shyamchandrapur	7.81	370	177	140	105	26	18	20	1.2	0	128	32	17	0.21
330	Dhenkanal	Kaimati	7.91	540	245	205	205	24	35	28	1.1	0	250	32	2	0.81
331	Dhenkanal	Deogaon	8.23	450	231	175	205	38	19	20	3.9	0	250	20	7	0.99
332	Dhenkanal	Gondia	7.73	550	273	220	145	32	34	20	6.2	0	177	72	22	0.44
333	Dhenkanal	Sarangi	7.68	440	220	175	125	38	19	19	1.8	0	153	55	12	0.22
334	Dhenkanal	Mandar	7.63	830	425	285	200	76	23	57	4.2	0	244	130	16	0.28
335	Dhenkanal	Bhuban	7.76	510	267	210	210	62	13	20	1.2	0	256	32	13	1.6
336	Dhenkanal	Samole	8.01	440	216	175	125	28	26	18	1.9	0	153	45	23	0.38
337	Dhenkanal	Goda	7.64	160	80	65	60	20	4	5	3.2	0	73	10	3	0.18

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
338	Dhenkanal	Mathakaragola	7.22	140	67	60	40	20	2	2	1.9	0	49	17	0	0.13
339	Dhenkanal	Hatwari	7.58	630	306	275	240	56	33	16	2.8	0	293	43	12	0.23
340	Dhenkanal	Kankadahad	7.95	400	197	135	130	26	17	28	0.8	0	159	43	5	0.8
341	Dhenkanal	Muktaposi	7.86	1080	554	415	150	106	36	56	1.5	0	183	192	72	0.4
342	Dhenkanal	Badajhara	7.75	540	253	220	120	42	28	20	1.6	0	146	78	12	0.5
343	Dhenkanal	Parjang1	8.03	580	303	175	155	50	12	49	2.8	0	189	61	35	0.91
344	Dhenkanal	Kandarsingha	7.31	4420	2335	1945	85	497	171	118	2.9	0	104	1410	85	0.75
345	Dhenkanal	Motanga	8.3	1480	798	495	440	54	87	110	3.2	0	537	187	93	1.34
346	Dhenkanal	Dhaulpur	8.2	1300	710	465	240	110	46	83	0.8	0	293	184	142	0.67
347	Dhenkanal	Dhenkanal	8	930	466	295	200	42	46	62	25.8	0	244	146	24	1.26
348	Dhenkanal	Baldiabandh	7.41	320	155	115	95	18	17	18	1.8	0	116	43	0	0.13
349	Gajapati	Adaba	7.99	300	136	116	92	18	17	13	1.8	0	112	26	5	0.23
350	Gajapati	Applanandupeta	8.05	680	358	152	213	18	26	60	30.5	0	260	68	28	0.9
351	Gajapati	Badakhoni	8.34	780	444	141	243	20	22	20	153.4	20	254	55	29	0.46
352	Gajapati	Chandiput	8.04	350	169	131	82	36	10	13	6.1	0	101	50	4	0.23
353	Gajapati	Chandragiri	7.9	800	436	222	136	34	33	65	28.4	0	166	152	42	1.24
354	Gajapati	Dantarinalo	8.12	300	134	121	112	16	19	12	1.2	0	136	16	3	0.32

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
355	Gajapati	Garabandha	8.08	1450	731	379	257	38	68	156	2.9	0	314	310	3	1.04
356	Gajapati	Gosani	8.11	920	494	192	204	22	33	103	22.3	0	249	142	50	0.36
357	Gajapati	K.sitapur	8.47	1250	624	212	393	20	39	186	0.8	0	479	142	2	0.67
358	Gajapati	Kantragada	6.95	380	183	141	97	38	11	17	4.6	0	118	39	15	0.27
359	Gajapati	Kashinagar	7.35	490	229	177	170	38	19	28	3	0	207	24	15	0.68
360	Gajapati	Kattalakanita	8.01	1190	624	303	175	51	43	118	22.2	0	213	247	39	0.78
361	Gajapati	Kirema	7.87	520	250	207	82	40	26	22	2.9	0	101	105	4	0.16
362	Gajapati	Ladruma	8.14	300	144	116	102	24	13	14	2	0	124	29	1	0.13
363	Gajapati	Lavanyakhota	8	560	275	162	150	28	22	53	1.9	0	183	76	4	0.44
364	Gajapati	Lavanyagada	8.08	700	342	177	204	22	29	76	0.5	0	249	71	21	0.75
365	Gajapati	Lilygada	7.92	520	237	167	141	36	18	26	1.9	0	172	60	10	0.7
366	Gajapati	Luhaguda	8.41	1340	751	227	412	24	40	51	207.2	29	444	121	62	0.44
367	Gajapati	Madhuramba	8.1	340	156	126	94	28	13	19	1.8	0	160	24	2	0.36
368	Gajapati	Minigaon	8.21	420	185	157	155	18	27	22	0.7	0	189	24	0	0.65
369	Gajapati	Mohana	8.35	400	196	101	136	36	2	36	1.1	17	130	37	3	1.18
370	Gajapati	Narayanapur	7.83	200	96	66	73	16	6	11	3	0	89	16	1	0.16
371	Gajapati	Parasmba	7.93	270	127	106	68	22	12	12	0.5	0	83	39	1	0.2

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
372	Gajapati	Paralakhemundi	7.99	1000	527	273	160	48	36	79	46	0	195	178	44	0.26
373	Gajapati	Pegoba	7.94	230	104	81	73	26	4	10	3	0	89	16	2	0.19
374	Gajapati	Rayagada	7.74	390	201	116	136	30	10	19	19.8	0	166	26	14	0.25
375	Gajapati	Sebakpur	8.31	1100	611	303	257	97	15	55	91.4	26	260	152	47	0.29
376	Gajapati	Shantinagar	7.82	440	208	162	94	32	19	20	6.3	0	115	73	13	0.23
377	Gajapati	Sukilipadar	8.01	520	240	217	92	48	23	13	4.9	0	112	94	2	0.21
378	Gajapati	Taramala	8.3	750	391	242	233	32	39	15	76.3	0	284	52	37	0.61
379	Gajapati	Tattipati	7.84	1020	492	348	112	53	52	65	2.2	0	136	207	46	0.28
380	Gajapati	Zubagaon	7.89	280	124	116	89	16	18	7	4	0	109	31	4	0.12
381	Ganjam	Aska	7.81	450	251	157	110	43	12	28	8.8	0	134	68	25	0.38
382	Ganjam	Badakholi	8.16	400	204	157	153	35	17	16	2.6	0	186	39	4	0.21
383	Ganjam	Bhetnai	8.05	620	325	152	200	35	16	65	1.3	0	244	73	15	0.3
384	Ganjam	Cheramaria	8.3	750	384	157	300	24	24	92	1	0	366	49	15	0.76
385	Ganjam	Kendupadar	7.7	1700	853	736	243	122	105	61	2.5	0	296	347	71	0.17
386	Ganjam	Khandrabali	8.08	890	502	193	157	49	17	90	28.3	0	192	168	55	0.16
387	Ganjam	Koitra	8.07	1650	917	376	295	20	79	234	1.9	0	360	318	88	0.69
388	Ganjam	Nuagaon	8.11	900	489	340	324	61	46	55	22	0	395	90	22	0.51

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
389	Ganjam	Ambapua	7.93	470	265	117	166	26	13	55	2.6	0	203	39	31	0.85
390	Ganjam	Balipadar	8.3	870	467	228	362	22	42	120	0.7	0	441	58	9	0.82
391	Ganjam	Belaguntha	8.26	430	223	173	176	35	21	21	2	0	215	29	10	0.32
392	Ganjam	Bhanjanagar-ii	7.9	1640	869	320	367	41	53	189	32	0	447	277	58	0.33
393	Ganjam	Buguda	8.23	420	231	96	148	0	23	47	18	0	180	49	5	0.26
394	Ganjam	Buguda	8.3	950	498	294	276	69	30	60	24.4	0	337	121	29	0.36
395	Ganjam	Kalamb	8.3	2200	1180	370	590	71	47	210	148.8	0	720	291	59	0.11
396	Ganjam	Karachuli	8.09	550	299	167	185	41	16	48	1.8	0	226	75	7	0.23
397	Ganjam	Kontaipalli	7.83	270	145	81	76	24	5	16	12	0	93	36	6	0.11
398	Ganjam	Lathipada	8.22	1040	572	294	295	37	49	122	1	0	360	143	44	1.05
399	Ganjam	Mangalpur	7.74	900	485	259	200	75	17	72	20	0	244	136	45	0.16
400	Ganjam	Dadralunda	8.15	750	395	193	267	33	27	82	5.2	0	325	87	2	0.46
401	Ganjam	Mujhagarh	7.96	975	549	198	190	47	20	143	2	0	232	197	27	0.32
402	Ganjam	Tilisingi	8.25	900	501	360	229	37	65	47	24	0	279	160	31	0.39
403	Ganjam	Turumu	8.05	450	249	147	95	41	11	31	6.1	0	116	90	13	0.2
404	Ganjam	Chatrapur	7.82	650	333	233	129	69	15	31	2	0	157	124	16	0.13
405	Ganjam	Ganjam	8.25	1100	567	410	281	83	49	53	10.7	0	343	148	55	0.25

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
406	Ganjam	Govindpur	8.02	970	493	244	181	41	34	93	1.9	0	221	180	34	0.26
407	Ganjam	Hummuri	8.63	1700	893	386	438	59	58	145	79	0	534	209	82	0.25
408	Ganjam	Narendrapur	8.02	350	200	178	124	45	16	12	0.4	0	151	44	9	0.29
409	Ganjam	Tanganapalli	8.18	900	480	239	171	69	16	76	22.5	0	209	163	31	0.18
410	Ganjam	Chikiti	8.2	2550	1367	244	414	33	39	423	14.9	0	505	595	14	0.65
411	Ganjam	Jakara	7.67	2650	1372	914	210	234	80	139	3.2	0	256	707	84	0.29
412	Ganjam	Surlaroad	8.17	725	403	223	205	43	28	81	1	0	250	109	19	0.44
413	Ganjam	Badagarh	7.87	1170	613	279	176	59	32	120	2.4	0	215	260	34	0.25
414	Ganjam	Balrampur	7.72	1250	658	370	157	98	30	91	9.2	0	192	296	39	0.35
415	Ganjam	Dharkote	8.04	630	329	173	157	49	12	42	20	0	192	83	29	0.25
416	Ganjam	Gangapur	8.08	450	213	152	143	39	13	27	1	0	174	39	8	0.29
417	Ganjam	Suramani	8.01	2950	1459	1106	414	96	210	149	6.1	0	505	653	97	0.49
418	Ganjam	Huma	7.9	2100	1112	558	276	79	88	96	145.6	0	337	498	41	0.38
419	Ganjam	Poirasi	8.05	650	346	259	181	39	39	29	6.9	0	221	90	34	0.43
420	Ganjam	Badakhandi	8.05	440	241	127	138	28	14	43	4.8	0	168	56	13	0.35
421	Ganjam	Hinjlikatu	8.3	830	445	198	229	47	20	95	4.3	0	279	104	39	0.47
422	Ganjam	Jamuni	7.79	1500	806	416	229	92	45	131	40.1	0	279	304	57	0.24

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
423	Ganjam	Pochilima	7.97	930	511	213	176	51	21	85	44	0	215	160	45	0.23
424	Ganjam	Baragam	8	900	469	264	185	49	34	65	15.7	0	226	170	24	0.21
425	Ganjam	Chadeiapalli Chhak	8.06	850	470	183	224	35	23	95	22.5	0	273	117	44	0.38
426	Ganjam	Chamkahandi	7.98	240	127	81	86	18	9	12	6.9	0	105	27	3	0.15
427	Ganjam	Gayagonda	8.16	500	267	178	200	28	26	39	5.5	0	244	39	10	0.39
428	Ganjam	Jagannathprasad	8.22	1750	918	355	353	57	52	176	56.9	0	430	325	41	0.4
429	Ganjam	Jhadabhumi	8.12	850	416	305	281	45	47	51	0.8	0	343	90	14	0.29
430	Ganjam	Saishamuli	7.96	1100	612	269	195	47	37	127	15	0	238	257	13	0.25
431	Ganjam	Tarasingi	8.3	1330	709	406	338	114	29	102	27.5	0	412	197	37	0.38
432	Ganjam	Gudiali	8.3	1200	634	213	358	26	36	185	0.8	0	436	136	37	1.18
433	Ganjam	K.S.Nagar	7.82	2530	1378	604	305	94	90	168	171.4	0	372	593	80	0.13
434	Ganjam	Khalikot	7.97	770	424	259	224	47	34	68	1.7	0	273	112	28	0.24
435	Ganjam	Kodala	7.86	375	207	157	86	45	11	13	4	0	105	73	9	0.13
436	Ganjam	Rambha	8.27	665	378	254	205	85	10	38	14.5	0	250	92	16	0.22
437	Ganjam	Digapahandi	7.8	4450	2560	568	248	77	91	820	15.9	0	302	1314	94	0.6
438	Ganjam	Kanakia	8.11	1200	602	315	238	49	47	103	1.7	0	290	194	65	0.34
439	Ganjam	Kukudahandi	8.07	340	195	132	148	37	10	24	8	0	180	27	1	0.17

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
440	Ganjam	Lanjia	8.26	1180	1271	264	385	28	47	184	6.8	0	470	736	39	0.77
441	Ganjam	Lathi	7.84	550	290	157	114	41	13	40	16.9	0	139	80	31	0.14
442	Ganjam	Pitamberpur	7.94	1280	659	518	166	45	99	70	5.3	0	203	323	18	0.69
443	Ganjam	Ratanpur	8.1	400	232	137	153	41	8	37	3.2	0	186	41	11	0.26
444	Ganjam	Jarada	8.21	650	361	193	229	43	21	54	14.4	0	279	58	34	0.54
445	Ganjam	Jayantipur	8.15	920	475	228	181	67	15	70	29.6	0	221	163	22	0.22
446	Ganjam	Patrapur	8.01	650	294	228	210	49	26	0	0	0	256	75	19	0.58
447	Ganjam	Surangi	8.27	920	484	264	224	65	25	48	57	0	273	126	30	0.32
448	Ganjam	Polasora	8	550	304	269	138	53	33	15	1.2	0	168	102	17	0.28
449	Ganjam	Bananai	8.23	1380	691	320	414	43	52	135	16	0	505	163	35	0.35
450	Ganjam	Nuapalli	8.03	450	247	198	138	37	26	23	1.4	0	168	66	12	0.36
451	Ganjam	Purusatampur	8.03	680	355	233	138	67	16	39	12.5	0	168	107	31	0.17
452	Ganjam	Berhampur Ii	8.02	1020	561	167	229	39	17	147	6.9	0	279	194	20	0.21
453	Ganjam	Dumdumi	8.3	1840	1055	315	371	55	43	158	178.6	0	453	323	75	0.34
454	Ganjam	Golabandha	7.78	1550	813	563	166	124	61	80	6.6	0	203	374	68	0.29
455	Ganjam	Golanthara	7.97	900	457	279	181	55	34	68	0.9	0	221	160	30	0.27
456	Ganjam	Haldiapadar	8.3	1600	881	244	400	35	38	273	4.2	0	488	240	52	0.88

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
457	Ganjam	Hinjalapalli	8.2	990	546	198	205	39	24	144	0.9	0	250	155	60	0.34
458	Ganjam	Mantridi	8.09	620	335	223	195	39	30	48	2	0	238	85	14	0.29
459	Ganjam	Phulata	8.29	1300	704	370	319	102	28	100	52	0	389	187	45	0.16
460	Ganjam	Patapur	8.03	860	487	173	176	55	9	80	61	0	215	126	51	0.17
461	Ganjam	Subash Ch.Pur	7.93	450	256	188	90	57	11	20	4.6	0	110	107	2	0.17
462	Jagatsinghpur	Balikuda	7.94	390	208	29	153	4	5	70	2.2	0	187	26	8	0.55
463	Jagatsinghpur	Bhutmundi	7.9	3140	1586	547	604	117	62	400	73.5	0	737	468	101	0.21
464	Jagatsinghpur	Kanakpur	8.15	690	336	158	180	31	20	69	2.6	0	220	86	19	0.27
465	Jagatsinghpur	Mukundapur	7.97	450	223	154	140	31	19	28	0.1	0	171	38	23	0.08
466	Jagatsinghpur	Nuapole bazar	8.02	330	174	139	145	40	9	14	0.7	0	177	19	3	0.20
467	Jagatsinghpur	Raghunathpur	7.96	360	171	115	120	29	10	12	20.1	0	146	22	6	0.11
468	Jagatsinghpur	Siuli	7.99	300	162	110	130	44	0	17	0.8	0	159	17	4	0.21
469	Jajpur	Ambasar	7.18	110	54	43	25	10	5	4	1.4	0	31	17	3	0.18
470	Jajpur	Amrutmanohi	7.12	720	385	182	115	23	30	75	1.7	0	140	129	56	0.20
471	Jajpur	Arakhpur	7.58	730	379	187	188	36	23	67	1.1	0	230	89	49	0.30
472	Jajpur	Baruda	7.94	1510	760	139	695	13	26	261	0.9	0	848	29	10	1.10
473	Jajpur	Chinguripal	7.48	70	35	24	15	8	1	3	1.0	0	18	11	3	0.10

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
474	Jajpur	Danagadi	7.11	190	99	48	40	10	6	20	0.3	0	49	36	3	0.08
475	Jajpur	Dankari	7.88	1260	614	250	495	29	43	150	3.0	0	604	79	11	1.30
476	Jajpur	Dasarathpur	7.74	1340	732	259	365	58	28	110	82.5	0	445	144	90	0.29
477	Jajpur	Duburi	7.87	500	236	150	225	25	21	35	1.1	0	275	12	6	0.46
478	Jajpur	Garmian	7.4	90	45	29	20	8	2	5	1.0	0	24	14	3	0.09
479	Jajpur	Haridaspur	7.1	130	71	38	35	12	2	11	1.2	0	43	14	9	0.66
480	Jajpur	Jajpur	7.6	720	379	240	225	67	17	34	22.6	0	275	65	37	0.11
481	Jajpur	Jakhapura	7.22	120	63	20	30	2	4	12	9.1	0	37	12	7	0.10
482	Jajpur	Jamjhari	7.36	560	297	173	135	44	15	37	8.6	0	165	74	36	0.17
483	Jajpur	Jharagadhia	7.25	380	206	120	90	35	8	24	7.3	0	110	48	30	0.24
484	Jajpur	Kamatabandha	7.31	190	99	25	69	4	4	28	0.9	0	85	7	14	0.19
485	Jajpur	Kalamatia	7.56	1000	522	312	230	60	40	53	56.0	0	281	117	58	0.24
486	Jajpur	Kharadi	7.2	220	111	82	84	19	8	9	0.8	0	103	7	16	0.19
487	Jajpur	Madhupur garh	7.33	410	228	139	135	40	9	12	31.5	0	165	31	22	0.24
488	Jajpur	Phuljhor	7.43	720	360	226	265	65	15	48	1.2	0	323	50	21	0.77
489	Jajpur	Pobala	7.24	150	78	45	35	10	5	12	0.6	0	42	25	5	0.20
490	Jajpur	Puruna baulamal	7.48	500	255	130	163	31	13	46	2.3	0	199	53	12	0.37

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
491	Jajpur	Ratadiposi	7.63	770	362	264	297	40	40	39	0.7	0	362	53	9	0.51
492	Jajpur	Ragedi	7.65	400	204	120	130	33	9	30	9.9	0	159	26	17	0.27
493	Jajpur	Singpur	7.48	790	404	250	163	61	23	48	0.7	0	199	128	45	0.20
494	Jajpur	Sahupur	7.34	180	92	62	40	21	2	12	1.0	0	49	24	7	0.17
495	Jajpur	Sukinda	7.21	160	78	48	40	15	2	10	0.3	0	49	22	4	0.15
496	Jajpur	Arakhpur	7.64	490	274	178	205	36	21	37	2.6	0	250	36	18	0.39
497	Jharsuguda	Belpahar	7	500	259	139	115	34	13	51	11.5	0	170	74	19	0.140
498	Jharsuguda	Bhalupatra	7.6	270	140	114	130	38	5	13	3.9	0	152	7	1	0.290
499	Jharsuguda	Bhikhampali	7.8	590	284	204	150	40	25	39	1.1	0	176	69	23	0.710
500	Jharsuguda	Brajrajnagar	7.4	290	137	70	30	20	5	30	3.6	0	77	35	30	0.140
501	Jharsuguda	Chadnimal	7.17	200	112	90	85	24	7	14	2.2	0	118	15	2	0.390
502	Jharsuguda	Jamkani(Arda)	7.15	950	457	299	35	88	19	74	4.5	0	150	203	52	0.410
503	Jharsuguda	Katarbaga	7.55	300	187	124	145	20	18	30	9	0	170	25	9	0.360
504	Jharsuguda	Kirimera	7.78	250	145	119	135	36	7	12	3.8	0	158	10	1	0.370
505	Jharsuguda	Lakhanpur	7.6	350	221	174	110	36	21	25	1.9	0	158	60	15	0.230
506	Jharsuguda	Panchagaon	7.77	160	90	60	35	22	1	14	1.3	0	60	30	3	0.330
507	Jharsuguda	Ram kumar Chawk	7.86	600	289	254	150	72	18	23	2.8	0	224	87	1	0.210

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
508	Jharsuguda	Sahaspur	7.81	350	181	159	75	44	12	15	0.5	0	124	57	9	0.170
509	Jharsuguda	Singarpur	7.76	100	58	60	50	14	6	1	1.5	0	59	7	0	0.090
510	Jharsuguda	Sriyapalli	7.7	450	222	169	100	46	13	27	4.1	0	153	65	13	0.130
511	Kalahandi	Ampani	7.73	730	360	280	285	62	30	36	5	0	348	55	1	0.54
512	Kalahandi	Attanguda	7.92	1330	693	550	285	130	55	51	1.5	0	348	242	43	0.22
513	Kalahandi	Badbasul	8.27	2970	1682	450	610	42	84	474	3.4	0	744	280	434	3.32
514	Kalahandi	Bakatpur	7.91	220	112	100	100	34	4	1	3.2	0	122	10	0	0.25
515	Kalahandi	Baldiamal	7.48	1000	496	365	340	46	61	59	5	0	415	87	35	0.71
516	Kalahandi	Bandigaon	7.99	520	267	250	250	74	16	2	1.5	0	305	20	4	0.25
517	Kalahandi	Baner	7.67	670	333	265	145	54	32	31	1.6	0	177	102	26	0.16
518	Kalahandi	Bawanipatna	7.42	740	387	320	105	78	30	20	1.3	0	128	157	38	0.09
519	Kalahandi	Bhawanipatna	8.3	1530	732	450	400	32	90	143	2.8	0	488	187	38	1.44
520	Kalahandi	Bijamara	7.86	1100	546	425	155	68	62	54	5.6	0	189	212	52	0.29
521	Kalahandi	Biswanathppur	8.13	580	306	175	170	42	17	51	0.4	0	207	71	23	0.43
522	Kalahandi	Charbahal	7.98	390	187	185	110	38	22	2	2	0	134	42	15	0.21
523	Kalahandi	Chiliguda1	7.64	1090	571	380	140	88	39	72	2.8	0	171	250	36	0.11
524	Kalahandi	Dalguma	8.09	800	410	340	285	72	39	20	10	0	348	87	12	0.24

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
525	Kalahandi	Dharamgarh	7.8	1120	573	370	200	52	58	85	1.8	0	244	210	46	0.18
526	Kalahandi	Ghantiguda	8.08	610	284	295	300	40	47	1	2.8	0	366	10	3	1.84
527	Kalahandi	Golamunda	8.44	1460	760	185	430	40	21	245	6.1	60	525	92	39	1.7
528	Kalahandi	Golmunda	8.42	1360	690	230	460	38	33	203	5.6	84	561	25	27	1.32
529	Kalahandi	Gunupur	7.92	300	138	145	105	36	13	1	1	0	128	20	4	0.21
530	Kalahandi	Jaipatna	8.14	530	260	210	135	40	27	21	4	0	165	71	16	0.56
531	Kalahandi	Junagarh 1	7.76	720	351	255	155	38	39	45	2	0	189	106	29	0.2
532	Kalahandi	Kalampur	7.96	490	235	150	180	32	17	41	1.8	0	220	26	9	0.26
533	Kalahandi	Kegaon	7.57	890	435	325	210	38	56	52	3.8	0	256	141	19	0.36
534	Kalahandi	Koksara	8.26	1330	650	315	395	38	53	156	5.8	0	482	145	16	0.54
535	Kalahandi	Ladugaon	8.55	970	493	205	310	22	36	125	4.2	84	378	26	10	2.2
536	Kalahandi	Mahichala	7.89	1430	743	460	265	40	87	100	25.8	0	323	250	81	0.17
537	Kalahandi	Malgaon	8.08	600	279	250	265	32	41	20	2.8	0	323	20	5	1.53
538	Kalahandi	Moter	8.02	460	227	165	205	46	12	24	8.2	0	250	14	0	0.74
539	Kalahandi	M-rampur	8.15	370	187	130	130	40	7	20	5.2	0	159	37	0	0.23
540	Kalahandi	Narla	7.72	950	481	380	195	50	62	41	3.9	0	238	163	45	0.82
541	Kalahandi	Pokaribandh	7.8	510	251	205	165	34	29	20	2.1	0	201	49	18	0.17

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				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
542	Kalahandi	Risida	7.98	440	206	175	185	26	27	19	2.1	0	226	15	6	0.2
543	Kalahandi	Santapur	7.63	800	394	280	250	32	49	53	1.8	0	305	95	14	1.52
544	Kalahandi	Sargigora	7.92	1150	586	345	280	30	66	104	1.8	0	342	177	40	1.6
545	Kalahandi	Sunamala	7.98	3030	1606	770	535	44	160	341	2.8	0	653	488	250	0.93
546	Kalahandi	Tal Jaring	8.21	460	223	180	190	34	23	19	5.8	0	232	26	1	0.28
547	Kalahandi	Tulapada	7.95	430	208	165	180	42	15	20	1.8	0	220	20	2	0.2
548	Kalahandi	Tundala	7.56	1580	782	615	325	48	120	79	1.2	0	397	295	44	0.6
549	Kandhamal	Baliguda	8	180	99	41	41	14	1	20	2.6	0	49	17	20	0.15
550	Kandhamal	Dubagarh	8.2	1050	582	107	407	29	9	155	59.2	0	487	89	3	0.15
551	Kandhamal	G.Udaigiri	7.9	600	319	179	191	61	6	55	1.8	0	228	79	4	0.11
552	Kandhamal	Kalinga	7.9	250	129	87	103	10	15	14	4.7	0	123	7	18	0.14
553	Kandhamal	Katringia	8.2	500	263	117	196	37	6	58	5.0	0	234	37	6	0.15
554	Kandhamal	Khajuriapada	8.3	470	247	163	211	43	13	26	9.4	0	253	12	19	0.24
555	Kandhamal	Kurtamgarh	8.1	290	156	102	118	31	6	14	9.2	0	142	25	1	0.15
556	Kandhamal	Lingagada	8	500	268	184	129	51	13	27	5.8	0	154	94	2	0.10
557	Kandhamal	Nuagaon	8.1	160	92	56	46	20	1	7	7.9	0	55	12	17	0.12
558	Kandhamal	Paburiya	8.3	540	285	163	221	31	21	27	34.5	0	265	37	4	0.20

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				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
559	Kandhamal	Phiringia-i	8.02	290	149	97	118	25	9	18	4.4	0	142	20	3	0.12
560	Kandhamal	Phiringia-ii	8.2	210	112	66	72	20	4	15	3.6	0	86	7	20	0.12
561	Kandhamal	Kandhamal-1	8.3	420	218	148	118	41	11	20	10.7	0	142	62	4	0.15
562	Kandhamal	Raikia-ii	8.1	190	103	66	67	20	4	8	8.9	0	80	10	13	0.10
563	Kandhamal	Sankarakhol	8.04	530	277	158	216	29	21	28	32.0	0	259	35	4	0.19
564	Kandhamal	Sudrukumpa	8.2	230	120	77	72	16	9	15	4.1	0	86	25	9	0.13
565	Kandhamal	Tellapalli	8.3	430	221	158	170	45	11	19	10.8	0	203	35	1	0.17
566	Kendrapara	Aul	7.16	530	258	200	168	44	22	25	6.8	0	205	40	20	0.03
567	Kendrapara	Barua	7.19	730	379	209	221	40	27	71	1.3	0	269	65	44	0.08
568	Kendrapara	Chandi bazar	7.49	1280	657	194	259	26	31	199	1.7	0	316	164	81	0.13
569	Kendrapara	Chandol	7.73	820	426	209	288	18	40	95	13.9	0	351	60	27	0.21
570	Kendrapara	Daliji	7.89	1620	863	90	394	12	15	321	9.2	0	480	186	85	0.41
571	Kendrapara	Duhuria	7.42	1530	804	299	178	48	44	210	1.7	0	217	310	85	0.16
572	Kendrapara	Hatia	7.89	730	374	104	254	12	18	114	6.4	0	310	67	4	0.10
573	Kendrapara	Indupur	7.07	920	480	244	182	48	30	76	39.9	0	223	159	18	0.06
574	Kendrapara	Jajang	7.16	670	341	179	170	46	16	58	1.5	0	207	106	12	0.07
575	Kendrapara	Jamdhar	7.63	2510	1325	204	302	24	35	470	4.0	0	369	536	75	0.22

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				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
576	Kendrapara	Jantilo	7.41	1060	526	299	192	38	50	103	3.5	0	234	164	54	0.23
577	Kendrapara	Kajala	7.32	500	246	179	163	30	25	32	1.8	0	199	37	22	0.11
578	Kendrapara	Kasoti	7.49	1160	576	284	235	36	47	132	3.0	0	287	174	44	0.14
579	Kendrapara	Mula basant	7.21	1630	836	398	264	44	70	175	20.3	0	322	323	47	0.12
580	Kendrapara	Nikrai	7.05	950	497	249	178	48	31	67	57.2	0	217	146	41	0.06
581	Kendrapara	Pattamunda	7.21	560	283	240	96	44	32	13	10.3	0	117	87	41	0.07
582	Kendrapara	Raj nagar	7.26	810	411	245	226	56	26	57	25.9	0	275	67	45	0.05
583	Kendrapara	Ram nagar	7.79	1660	843	408	230	50	69	185	8.5	0	281	310	83	0.10
584	Kendujhar	Sorada	8.15	750	397	269	248	69	23	34	33.2	0	302	61	28	0.26
585	Kendujhar	Bhagomunda	7.83	7.15	349	285	152	52	38	23	1.5	0	185	110	33	0.45
586	Kendujhar	Nuagaon	7.68	230	142	100	59	22	11	10	8.2	0	72	34	22	0.4
587	Kendujhar	Kanjipani	7.7	75	40	25	30	10	0	5	0.7	0	36	7	0	0.15
588	Kendujhar	Suakati	7.5	55	36	20	25	8	0	5	1.3	0	30	7	0	0.15
589	Kendujhar	Champua	7.82	505	281	185	191	52	13	35	2	0	233	43	22	0.26
590	Kendujhar	Jaymangalpur	7.8	340	180	85	79	20	9	36	3	0	96	53	13	0.22
591	Kendujhar	Parsora	8.1	400	225	140	152	46	6	28	3.8	0	185	50	1	0.26
592	Kendujhar	Sasang	7.86	435	227	155	98	46	10	23	5.1	0	120	60	24	0.15

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				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
593	Kendujhar	Balarampur	7.74	835	439	235	157	46	29	57	34.4	0	191	148	31	0.36
594	Kendujhar	Barpada	7.48	320	162	135	64	26	17	13	1.3	0	78	60	6	0.1
595	Kendujhar	Birgovindpur	7.93	470	258	190	201	44	19	32	2.2	0	245	36	4	0.44
596	Kendujhar	Deogan	8.27	620	346	260	216	60	27	27	16.4	0	263	62	25	0.14
597	Kendujhar	Kesurdapal	7.53	310	173	150	108	38	13	11	2.3	0	132	34	10	0.17
598	Kendujhar	Baxibarigan	8.12	160	97	50	64	16	2	18	0.7	0	78	22	0	1.05
599	Kendujhar	Dhangadiha	7.83	175	110	60	54	14	6	17	3.4	0	66	34	3	0.11
600	Kendujhar	Dhenkikot	7.98	460	256	175	108	42	17	31	4.9	0	132	77	19	0.13
601	Kendujhar	Gadadharpur	7.46	140	79	55	34	14	5	9	1.8	0	42	29	0	0.09
602	Kendujhar	Ghatgaon	7.9	715	369	255	166	40	38	46	6.2	0	203	105	35	0.17
603	Kendujhar	Melana	7.73	355	205	110	74	22	13	28	15.4	0	90	67	15	0.12
604	Kendujhar	Patilo	8.08	650	353	215	181	40	28	36	25.3	0	221	98	18	0.21
605	Kendujhar	Rajpat	7.68	250	151	65	69	20	4	28	7.2	0	84	48	3	0.11
606	Kendujhar	Harichandanpur	8.15	725	376	285	166	46	41	31	18	0	203	103	36	0.19
607	Kendujhar	Anandapur	7.67	950	507	390	181	120	22	49	1.6	0	221	158	49	0.13
608	Kendujhar	Ghasipur	8.1	570	309	225	206	46	27	35	3.5	0	251	55	20	0.34
609	Kendujhar	Mathadai	7.73	345	179	175	112	44	16	2	1.4	0	137	38	10	0.3

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
610	Kendujhar	Nuasahi	7.78	510	268	195	166	52	16	32	1.1	0	203	48	19	0.23
611	Kendujhar	Badaposhi	7.82	420	226	150	122	48	7	25	7	0	149	55	11	0.23
612	Kendujhar	Jhumpura	7.94	260	155	75	59	26	2	29	1.2	0	72	60	1	0.22
613	Kendujhar	Katalaposhi	7.96	305	174	140	112	42	9	10	3.6	0	137	38	5	0.29
614	Kendujhar	Ukunta	7.26	1025	82	45	25	8	6	12	1.5	0	30	36	4	0.1
615	Kendujhar	Bhadrasahi	8.1	215	128	115	93	30	10	5	1.8	0	114	24	1	0.21
616	Kendujhar	Guali	7.95	180	115	90	74	26	6	9	3.1	0	90	24	3	0.26
617	Kendujhar	Joda	7.88	265	146	125	64	24	16	5	3	0	78	29	31	0.21
618	Kendujhar	Rugudi	7.92	360	199	165	127	40	16	4	9.8	0	155	41	12	0.27
619	Kendujhar	Brahmandgram	7.47	1050	561	335	181	62	44	60	41.3	0	221	175	71	0.28
620	Kendujhar	Gopalpur	7.89	350	203	145	127	48	6	14	8.3	0	155	34	16	0.42
621	Kendujhar	Haridagot	7.79	360	183	90	54	26	6	27	9.3	0	66	60	23	0.16
622	Kendujhar	Jhadbelda	7.93	500	270	190	157	38	23	26	10.3	0	191	77	2	0.17
623	Kendujhar	Keonjhar	8.23	700	388	285	255	72	26	27	22.5	0	311	60	28	0.23
624	Kendujhar	Keonjhargarh	7.64	1070	553	350	176	72	41	75	13.6	0	215	191	55	0.22
625	Kendujhar	Muktapur	8.14	375	211	165	117	40	16	21	0.3	0	143	53	10	0.48
626	Kendujhar	Naranpur	7.96	1085	557	325	226	78	32	76	9.1	0	275	182	46	0.35

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
627	Kendujhar	Padampur	8.07	555	269	230	127	72	12	13	0.7	0	155	81	15	0.23
628	Kendujhar	Balaniposi	8.13	535	253	195	162	48	18	0	0	0	197	72	18	0.25
629	Kendujhar	Burikapuri	8.16	235	122	100	84	24	10	9	0.7	0	102	29	0	0.3
630	Kendujhar	Kendeiposhi	8.24	360	203	150	117	34	16	25	0.5	0	143	50	8	0.86
631	Kendujhar	Khiritangiri	7.97	785	407	330	196	76	34	22	15.3	0	239	110	33	0.55
632	Kendujhar	Kothaghar	8.07	655	348	215	142	50	22	22	41.2	0	173	98	30	0.15
633	Kendujhar	Malliposi	7.61	225	136	65	54	16	6	21	9	0	66	43	8	0.12
634	Kendujhar	Tangarpada	7.3	175	109	50	39	10	6	22	0.9	0	48	43	4	0.81
635	Kendujhar	Turmunga	7.84	245	137	70	59	24	2	24	2.5	0	72	48	1	0.28
636	Kendujhar	Badbil	7.81	175	100	55	54	16	4	16	1.3	0	66	31	0	0.12
637	Kendujhar	Gajitangri	7.31	200	92	60	44	16	5	10	5.4	0	54	29	1	0.19
638	Kendujhar	Swampatna	7.66	445	249	155	122	40	13	17	31.3	0	149	55	19	0.14
639	Kendujhar	Udaipur	7.72	155	96	55	49	14	5	16	0.7	0	60	26	5	0.12
640	Kendujhar	Akul	7.72	195	115	85	59	20	9	8	4	0	72	38	2	0.21
641	Kendujhar	Bimala	7.97	410	207	170	112	44	15	5	10.1	0	137	55	11	0.23
642	Kendujhar	Jagmohanpur	7.94	650	326	260	132	62	26	32	1.5	0	161	120	7	0.34
643	Kendujhar	Kaliahata	7.51	100	67	35	25	10	2	9	3.9	0	30	26	1	0.15

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
644	Kendujhar	Kuntapada	7.55	80	53	30	25	10	1	8	0.7	0	30	17	1	0.18
645	Kendujhar	Padang	7.6	155	92	50	34	14	4	14	3.7	0	42	36	1	0.15
646	Kendujhar	Pitanali	7.29	115	75	35	44	12	1	13	3.3	0	54	19	0	0.17
647	Kendujhar	Telkoi	8.16	565	281	195	127	52	16	36	1.2	0	155	81	19	0.23
648	Khordha	Balipatna	8.21	450	229	173	179	40	18	17	9.8	0	218	15	23	0.27
649	Khordha	Begunia	7.81	810	413	257	198	65	23	56	16.6	0	242	106	28	0.36
650	Khordha	Bhubaneswar-i	7.6	380	191	144	134	42	9	20	0.9	0	164	35	3	0.55
651	Khordha	Bhusundapur	7.37	160	77	54	66	10	7	10	1	0	80	10	0	0.1
652	Khordha	Bolagarh	7.1	690	374	163	79	40	15	76	10.7	0	96	184	1	0.07
653	Khordha	Chandaka	7.25	440	236	149	127	38	13	22	18	0	155	43	26	0.16
654	Khordha	Gobindpur	7.75	630	337	173	226	42	17	63	2.2	0	276	55	23	0.18
655	Khordha	Jagannathpur	7.85	470	255	149	151	40	12	37	2.9	0	184	33	40	0.34
656	Khordha	Jankia	7.7	210	97	84	83	12	13	8	0.6	0	101	13	1	0.08
657	Khordha	Janla	7.52	270	157	55	77	16	4	31	7.7	0	94	35	18	0.19
658	Khordha	Jatni1	7.42	310	161	89	79	20	9	26	6.7	0	96	48	4	0.09
659	Khordha	Jayamangal	7.3	160	83	52	55	16	3	10	1.4	0	67	13	7	0.11
660	Khordha	Kapilaprasad	7.28	130	68	40	44	8	5	10	2.2	0	54	15	1	0.07

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
661	Khordha	Khurda	7.19	340	172	114	116	32	8	21	4.2	0	142	33	4	0.08
662	Khordha	Khurda Industrial Area	7.32	490	265	79	50	14	11	75	1.8	0	61	133	1	0.05
663	Khordha	Kundaidarapatna	7.52	1140	566	327	231	44	53	111	0.8	0	282	179	40	0.25
664	Khordha	Nirakarpur	7.68	220	116	80	77	30	1	13	1	0	94	23	2	0.06
665	Khordha	Niranjanpur	7.32	100	45	35	37	6	5	6	0.4	0	45	5	1	0.09
666	Khordha	Odakhanda	8.3	3050	1858	574	765	131	60	240	332	0	933	539	99	0.06
667	Khordha	Padanpur	8.22	290	147	89	102	12	14	21	7.8	0	124	30	1	0.05
668	Khordha	Patia	7.64	660	357	193	176	44	20	41	37.3	0	215	68	41	0.14
669	Khordha	Raghunathpur	7.52	310	174	81	77	22	6	27	10.8	0	94	50	12	0.15
670	Khordha	Sandhapur	8.15	680	340	238	303	46	30	43	6.6	0	370	30	3	0.49
671	Khordha	Sundarpada	8	560	290	198	165	50	18	35	2.4	0	201	63	23	0.27
672	Khordha	Tamando	7.92	260	140	74	55	16	8	21	7.3	0	67	43	12	0.09
673	Khordha	Tangi2	7.62	240	118	79	77	16	9	13	6.9	0	94	25	2	0.08
674	Khordha	Mendhasala	7.62	510	275	149	127	34	16	29	30.5	0	155	68	22	0.18
675	Khordha	B-02 Samantarapur	7.74	320	159	114	99	26	12	18	3.9	0	121	28	12	0.29
676	Khordha	B-04 Lingaraj Temple	7.85	530	279	173	181	44	15	33	14.5	0	221	48	16	0.25
677	Khordha	B-05 Rath Road	7.9	580	307	198	209	38	25	33	14.6	0	255	50	21	0.25

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
678	Khordha	B-06 Purnama Gate	7.79	420	210	144	134	20	23	25	5.5	0	164	33	23	0.11
679	Khordha	B-07 Bapuji Nagar	7.69	460	245	134	125	20	20	34	15.9	0	153	53	27	0.09
680	Khordha	B-09 Tankapani Road	7.6	230	115	59	55	16	5	18	9.5	0	67	30	4	0.1
681	Khordha	B-12 Laxmi Sagar	7.69	430	238	119	121	32	9	35	11.9	0	148	50	27	0.21
682	Khordha	B-14 Rasulgarh	7.64	460	239	172	154	44	15	24	1.2	0	188	33	30	0.17
683	Khordha	B-15 Bomikhal	7.84	470	262	118	121	42	3	43	15.1	0	148	55	31	0.16
684	Khordha	B-17 Satya Nagar	7.82	410	218	104	99	22	12	38	11.1	0	121	58	18	0.07
685	Khordha	B-20 Palasuni (NH-5)	7.74	510	260	198	165	48	19	24	1.3	0	201	43	26	0.17
686	Khordha	B-21 Haridaspur	7.76	400	207	143	127	40	10	21	6.7	0	155	38	15	0.19
687	Khordha	B-22 Mancheswar	7.57	430	210	158	132	40	14	21	6.6	0	161	33	16	0.19
688	Khordha	B-25 Sainik School	6.94	230	126	69	72	14	8	19	3.2	0	88	35	3	0.05
689	Khordha	B-26 Gadakana	7.01	200	99	54	44	12	6	19	2.4	0	54	30	3	0.04
690	Khordha	B-29 Rkamra Village	6.9	90	43	40	25	10	4	1	0.9	0	31	8	4	0.09
691	Khordha	B-31 Unit-9	6.82	450	242	149	127	38	13	28	8.5	0	155	45	33	0.08
692	Khordha	B-33 Unit-4	7.12	360	183	104	88	22	12	30	5	0	107	48	14	0.06
693	Khordha	B-34 Ganga Nagar	7.6	310	156	84	111	12	13	29	4.5	0	135	20	11	0.05
694	Khordha	B-35 Unit-6	7.42	460	241	149	146	36	14	32	8.3	0	178	45	18	0.12

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
695	Khordha	B-37 OUAT	7.62	290	155	74	67	14	9	29	4.5	0	82	43	15	0.06
696	Khordha	B-38 Bhimpur	7.7	440	224	139	88	40	9	32	5.6	0	107	58	26	0.18
697	Khordha	B-39 Bhimatangi	7.46	500	268	158	123	40	14	37	6.6	0	150	68	29	0.18
698	Khordha	B-40 Kapilaprasad	7.22	140	68	40	44	12	2	11	2.1	0	54	13	1	0.05
699	Khordha	B-41 Pokhariput	7.28	190	94	59	50	14	6	14	2.8	0	61	20	7	0.14
700	Khordha	B-42 Kargil Basti	6.98	480	242	129	143	20	19	47	4.7	0	174	63	3	0.07
701	Khordha	B-43 Gandamunda	6.95	200	103	59	55	16	5	16	3.3	0	67	25	5	0.13
702	Khordha	B-44 Baramunda	7.21	420	227	114	116	22	14	30	21.1	0	142	53	17	0.16
703	Khordha	B-45 Delta Square	7.13	380	209	94	61	22	9	39	7.9	0	74	70	24	0.07
704	Khordha	B-47 Ghatikia	7	220	119	54	50	12	6	23	2.1	0	61	28	18	0.08
705	Khordha	B-48 Dumuduma	6.92	330	158	104	100	14	17	25	2.1	0	122	40	0	0.06
706	Khordha	B-50 Janla	6.86	400	198	119	105	18	18	33	4.3	0	128	60	2	0.06
707	Khordha	B-51 DAV (Unit-8)	6.93	400	218	104	86	20	13	39	8.3	0	105	65	21	0.06
708	Koraput	Ambaguda1	7.41	340	160	92	64	35	1	21	9.1	0	78	54	1	0.17
709	Koraput	Anta	7.22	660	322	192	188	24	32	30	34.0	0	229	78	11	0.19
710	Koraput	Baipariguda	7.23	190	95	69	79	24	2	10	1.5	0	96	10	1	0.12
711	Koraput	Bajiguda	7.06	200	95	59	45	22	1	9	6.3	0	55	29	1	0.09

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				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
712	Koraput	Balia	7.02	480	226	127	89	41	6	36	10.2	0	109	78	1	0.12
713	Koraput	Bangalaguda	7.07	400	188	130	94	39	8	18	7.0	0	115	59	1	0.11
714	Koraput	Bheja 1	7.44	100	46	46	44	10	5	1	0.2	0	54	3	0	0.09
715	Koraput	Bijapur	7.25	930	461	279	297	75	23	37	48.2	0	362	98	2	0.25
716	Koraput	Boriguma	7.5	230	114	85	84	29	3	12	3.3	0	102	17	0	0.13
717	Koraput	Burja	7.37	640	306	172	139	39	18	29	38.2	0	170	98	1	0.11
718	Koraput	C.kusimi-ii	7.45	280	134	87	84	25	6	15	2.1	0	102	35	1	0.15
719	Koraput	Chandli	7.56	370	176	120	109	33	9	23	2.2	0	133	42	1	0.10
720	Koraput	Chingudichuan	7.71	100	46	41	45	10	4	2	1.1	0	55	3	0	0.09
721	Koraput	C-kusumi-i	7.49	290	137	90	84	21	9	16	1.9	0	102	39	0	0.08
722	Koraput	Damanahandi	7.55	130	61	51	54	12	5	6	0.1	0	66	5	0	0.06
723	Koraput	Dasmanthapur	7.38	200	92	75	64	17	8	7	1.4	0	78	20	0	0.12
724	Koraput	Deoghati	7.64	130	62	46	50	10	5	8	0.8	0	61	7	0	0.09
725	Koraput	Dhamanaganda	7.69	220	113	79	99	25	4	11	2.3	0	121	10	1	0.12
726	Koraput	Dhaulapur	7.85	130	63	51	50	12	5	4	2.2	0	61	10	0	0.07
727	Koraput	Disarikaraguda-New Colony	7.66	150	70	50	56	10	6	10	1.2	0	68	10	0	0.17
728	Koraput	Doraguda	7.62	540	259	169	158	43	15	24	14.3	0	193	68	0	0.07

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				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
729	Koraput	Dumuriput	7.18	110	52	48	45	6	8	2	1.1	0	55	7	0	0.06
730	Koraput	Ghatarala	7.84	480	223	169	119	43	15	20	1.6	0	145	73	0	0.19
731	Koraput	Gumur	7.03	200	93	62	54	19	4	10	2.5	0	66	24	0	0.06
732	Koraput	Jayantigiri	7.78	900	412	330	252	35	59	47	2.2	0	307	117	1	0.18
733	Koraput	Jeypore1	7.22	640	303	223	183	48	25	33	0.4	0	223	86	1	0.11
734	Koraput	Jujari	6.6	540	271	158	129	38	16	49	3.7	0	157	74	13	0.25
735	Koraput	Kakriguma	7.49	590	284	223	233	52	23	32	1.5	0	284	31	6	0.12
736	Koraput	Kantarkhal 1	7.23	480	245	163	134	42	14	31	3.6	0	164	74	0	0.09
737	Koraput	Kenduguda	7.22	150	66	64	60	8	11	3	0.7	0	73	7	0	0.11
738	Koraput	Khaliaguda	7.03	140	64	59	59	8	10	3	3.5	0	72	5	0	0.10
739	Koraput	Konga	6.89	130	63	50	55	8	7	4	3.8	0	67	7	0	0.18
740	Koraput	Koraput-i	7.23	680	338	297	223	77	25	19	1.1	0	272	59	24	0.18
741	Koraput	Koraput-ii	7.13	140	66	59	54	10	8	4	1.5	0	66	10	0	0.12
742	Koraput	Kotpad	7.01	240	117	94	89	20	11	7	5.3	0	108	19	1	0.13
743	Koraput	Kunduli	7.08	630	347	168	164	42	16	44	37.1	0	200	76	34	0.21
744	Koraput	Kusumguda	6.93	180	87	74	75	20	6	5	1.2	0	91	10	0	0.12
745	Koraput	Lamtaput	6.99	120	53	54	50	8	8	2	0.3	0	61	5	0	0.11

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				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
746	Koraput	Laxmipur1	6.87	210	104	59	65	12	7	18	2.4	0	79	26	0	0.10
747	Koraput	Mandalguda Colony	7.12	270	129	104	119	20	13	13	1.8	0	145	10	0	0.18
748	Koraput	Miriguda	7.08	290	143	89	80	10	16	18	10.3	0	98	40	0	0.19
749	Koraput	Mundaguda	6.86	100	51	40	35	12	3	3	1.1	0	43	10	0	0.16
750	Koraput	Nandapur	6.77	120	55	50	50	14	4	2	0.3	0	61	5	0	0.08
751	Koraput	New Ghasarda	7.08	380	194	144	148	38	12	19	2.6	0	181	29	4	0.51
752	Koraput	Panasaputbagh	7.62	170	77	75	66	14	10	4	1.0	0	81	8	1	0.10
753	Koraput	Panchada	7.11	180	81	79	79	14	11	3	0.4	0	97	5	0	0.16
754	Koraput	Patraput	6.99	280	138	114	124	28	11	7	7.0	0	151	10	0	0.18
755	Koraput	Pitaguda	7.04	130	63	59	35	18	4	2	0.8	0	45	17	0	0.10
756	Koraput	Podagada	7.3	390	182	163	183	28	23	11	2.5	0	223	7	1	0.11
757	Koraput	Potangi	7.53	110	50	50	50	10	6	1	0.5	0	61	2	0	0.14
758	Koraput	Ramgiri1	7.46	500	242	208	213	46	23	17	2.7	0	260	26	0	0.19
759	Koraput	Randapalli-Bj-I	7.05	120	56	45	45	12	4	5	0.7	0	55	7	0	0.18
760	Koraput	Sasanhandi-ii	7.29	130	61	54	55	10	7	3	1.1	0	67	7	0	0.13
761	Koraput	Satsimile	7.19	100	47	45	35	12	4	2	0.8	0	45	7	0	0.11
762	Koraput	Similiguda1	7.05	220	107	79	80	10	13	12	2.2	0	98	21	0	0.13

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				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
763	Koraput	Soguru	6.71	220	112	79	85	18	8	12	4.1	0	104	19	0	0.11
764	Koraput	Subai	6.89	100	51	45	44	16	1	1	1.4	0	54	5	0	0.10
765	Koraput	Sunki 1	6.95	310	153	134	148	38	10	5	4.0	0	181	7	0	0.22
766	Koraput	Tanginiguda	7.14	130	60	50	55	6	9	6	1.1	0	67	5	0	0.13
767	Koraput	Teraguda	6.99	120	53	50	50	8	7	3	1.0	0	61	5	0	0.13
768	Koraput	Tikaguda	7.02	120	54	50	50	8	7	2	1.6	0	61	5	0	0.14
769	Koraput	Umeri1	6.64	340	176	119	90	32	10	22	1.2	0	110	55	1	0.11
770	Malkangiri	Balimela	7.22	780	388	327	351	58	45	33	1.1	0	428	21	19	0.94
771	Malkangiri	Balimela Chowk	7.55	630	310	233	255	40	33	36	2.4	0	311	42	4	0.30
772	Malkangiri	Bejaguda	7.56	340	171	129	157	28	15	20	0.4	0	192	10	3	0.24
773	Malkangiri	Chitapari	7.6	410	210	158	199	40	14	22	4.9	0	243	7	3	0.25
774	Malkangiri	Govindpali 1	7.89	1170	588	356	332	97	28	38	55.0	0	405	112	59	0.15
775	Malkangiri	Katameta	7.79	780	367	302	233	65	34	28	5.4	0	284	93	2	0.30
776	Malkangiri	Khairput1	7.73	770	362	287	158	75	24	35	2.5	0	193	107	24	0.26
777	Malkangiri	Korukonda 1	7.87	1090	546	356	375	58	52	49	52.5	0	458	59	51	0.21
778	Malkangiri	Kudumuluguma1	7.82	920	475	272	324	95	8	39	59.8	0	395	74	5	0.25
779	Malkangiri	Kumbharguda	7.85	440	224	168	194	58	6	23	1.3	0	237	17	2	0.47

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
780	Malkangiri	M.V 37	8.16	60	30	25	26	10	0	1	0.4	0	32	0	3	0.04
781	Malkangiri	M.v.7	7.36	510	259	178	198	60	7	17	23.4	0	241	31	2	0.21
782	Malkangiri	M.V.9	7.67	690	340	262	252	50	34	33	3.7	0	307	43	26	0.15
783	Malkangiri	M.V1- 19	7.77	540	262	213	202	56	18	21	3.7	0	247	40	2	0.40
784	Malkangiri	Maithili1	7.78	270	134	124	132	34	10	3	4.3	0	161	2	2	0.07
785	Malkangiri	Malkangiri 1	7.43	1700	816	327	245	54	47	170	5.2	0	299	314	79	0.30
786	Malkangiri	Mundiguda	7.7	930	439	332	214	75	35	44	2.8	0	261	126	28	0.19
787	Malkangiri	Parkannala	7.81	940	467	302	264	63	35	29	51.5	0	322	81	50	0.16
788	Malkangiri	Pongam	7.75	610	285	198	133	42	23	38	3.6	0	162	93	5	0.54
789	Malkangiri	Sindhimal	7.86	540	270	208	179	65	11	26	2.2	0	218	36	23	0.29
790	Malkangiri	Somnathpur 1	7.87	460	227	188	204	40	22	22	1.7	0	249	14	5	0.63
791	Mayurbhanj	Amarda	7.72	440	267	99	100	30	6	38	19.8	0	122	69	25	0.14
792	Mayurbhanj	Badasahi	7.46	385	200	54	38	14	5	56	4.6	0	46	79	44	0.1
793	Mayurbhanj	Bagra	8.01	390	199	114	105	30	10	26	14.8	0	128	55	19	0.13
794	Mayurbhanj	Baidipur	7.3	150	105	40	43	10	4	20	0.2	0	52	26	0	0.1
795	Mayurbhanj	Bangriposi	7.95	480	273	218	162	48	24	20	2.1	0	197	65	20	0.26
796	Mayurbhanj	Baripada	7.27	490	268	149	114	34	16	38	5	0	139	69	18	0.09

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
797	Mayurbhanj	Bedhakudar	8.3	590	332	243	214	44	33	47	4.9	0	261	74	38	0.39
798	Mayurbhanj	Belam	8.07	325	210	124	147	30	12	20	4.1	0	180	22	1	0.35
799	Mayurbhanj	Betnati	7.84	510	267	94	95	24	9	67	4.9	0	116	98	34	0.14
800	Mayurbhanj	Brundabanchandrapur	7.72	140	133	54	57	12	6	20	4	0	70	24	7	0.11
801	Mayurbhanj	Budhamara	8.05	810	472	188	228	42	21	100	4.9	0	279	120	33	0.77
802	Mayurbhanj	Chitrada	7.14	800	349	218	133	52	22	54	25	0	163	115	47	0.16
803	Mayurbhanj	Deoli	7.73	260	154	89	86	20	10	20	5	0	105	45	1	0.11
804	Mayurbhanj	Devsol	7.85	150	125	59	71	22	1	19	4.9	0	87	26	3	0.11
805	Mayurbhanj	Dukura	7.51	330	189	94	67	22	10	34	4.1	0	81	67	10	0.09
806	Mayurbhanj	Hatjori	7.82	280	150	89	57	28	5	20	4.1	0	70	50	13	0.14
807	Mayurbhanj	Jamsola	7.7	220	124	59	43	24	0	20	3.7	0	52	43	8	0.16
808	Mayurbhanj	Jharpokhria	8.04	440	290	163	86	48	11	20	4.9	0	105	93	7	0.11
809	Mayurbhanj	Kalama	7.75	660	307	168	81	38	18	69	4.6	0	99	127	62	0.11
810	Mayurbhanj	Khunta	7.87	246	125	89	90	18	11	18	2.6	0	110	22	2	0.11
811	Mayurbhanj	Krishnachandrapur	7.44	165	134	54	57	10	7	20	5	0	70	33	0	0.11
812	Mayurbhanj	Kuchei	7.86	440	213	134	105	46	5	20	18.8	0	128	60	24	0.12
813	Mayurbhanj	Kuliana	7.52	210	133	69	57	22	4	20	5	0	70	48	0	0.11

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
814	Mayurbhanj	Nechuapada	7.48	60	125	35	52	8	4	17	3.8	0	64	22	0	0.08
815	Mayurbhanj	Pathuri	8.4	850	411	342	328	30	66	41	15.4	3	395	62	38	0.43
816	Mayurbhanj	Pitabhata	7.74	105	98	50	57	14	4	18	2.7	0	70	24	1	0.17
817	Mayurbhanj	Poradiha	7.5	60	127	30	48	6	4	18	2.4	0	58	17	1	0.11
818	Mayurbhanj	Saraskona	8.24	870	413	297	200	56	39	56	12.8	0	244	115	52	0.27
819	Mayurbhanj	Shamakhunta	8.25	440	242	203	157	46	22	20	3	0	192	57	15	0.23
820	Mayurbhanj	Sullyapada	7.37	80	87	30	38	10	1	17	1.4	0	46	19	0	0.11
821	Mayurbhanj	Udala	7.92	570	285	129	105	34	11	54	12.7	0	128	91	17	0.12
822	Mayurbhanj	Kaptipada	8.1	300	174	124	109	30	12	20	2.9	0	134	24	20	0.24
823	Mayurbhanj	Talia	7.92	460	242	158	124	36	17	20	19.6	0	151	60	20	0.15
824	Mayurbhanj	Nuagaon	8.14	420	218	168	157	30	23	20	3.4	0	192	41	16	0.26
825	Mayurbhanj	Rajabasa	8.33	400	247	178	185	56	10	20	5	0	226	38	7	0.26
826	Mayurbhanj	Dantiamuhan	7.8	200	131	64	67	14	7	20	13.4	0	81	33	7	0.13
827	Mayurbhanj	Manitri	8.1	340	186	119	128	38	6	19	5	0	157	33	4	0.24
828	Mayurbhanj	Rasgovindapur-2	7.6	210	190	54	43	12	6	21	4.1	0	52	41	9	0.16
829	Mayurbhanj	Itighar	7.79	430	215	186	153	39	22	3	14.4	0	187	36	9	0.19
830	Mayurbhanj	Mananda	8.13	270	128	127	110	27	14	1	2.6	0	134	17	0	0.26

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
831	Mayurbhanj	Tongabila Chhak	7.8	310	142	147	104	29	18	3	0.9	0	127	26	3	0.16
832	Mayurbhanj	Singada Chhak	7.63	240	116	113	71	26	12	1	1	0	87	19	15	0.15
833	Mayurbhanj	Begna	7.79	200	91	98	77	16	14	0	1	0	94	14	0	0.12
834	Mayurbhanj	Bisoi	7.98	360	163	176	153	33	23	1	1	0	187	14	0	0.11
835	Mayurbhanj	Karanjei-Bijatola Chhak	8.02	680	338	294	153	51	40	20	0.6	0	187	79	55	0.2
836	Mayurbhanj	Ambadiha	8.26	300	145	147	126	20	24	1	0.6	0	154	19	5	0.13
837	Mayurbhanj	Bademtolia	8.44	560	270	235	126	31	38	20	0.5	24	154	60	21	0.19
838	Mayurbhanj	Champrai	8.3	290	152	108	82	27	10	14	4.2	0	100	41	7	0.09
839	Mayurbhanj	Jamda	8.43	910	514	221	219	39	30	72	59.9	18	267	106	58	0.14
840	Mayurbhanj	Bahalda Road(kona)	8.06	560	300	230	170	24	41	20	4	0	207	55	54	0.54
841	Mayurbhanj	Poilakunda	8.02	1320	677	510	208	77	77	67	0.1	0	254	260	71	0.59
842	Mayurbhanj	Bahalda	7.45	580	277	260	159	29	46	12	0.2	0	194	50	45	0.31
843	Mayurbhanj	Nischintapur	8.18	890	429	397	148	59	61	20	0.2	0	180	154	47	0.21
844	Mayurbhanj	Tiring	8.26	730	374	225	170	45	27	63	0.5	0	207	65	72	0.91
845	Mayurbhanj	Gambharia	8.09	800	433	216	137	39	29	84	0	0	167	127	72	0.16
846	Mayurbhanj	Dandabose	8.06	440	225	127	137	31	12	41	0.3	0	167	53	6	0.67
847	Mayurbhanj	Purunapani	8.19	270	135	113	82	26	12	3	8.5	0	100	34	3	0.12

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				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
848	Mayurbhanj	Chadheibhol	8.01	640	346	157	126	41	13	74	0.9	0	154	120	21	0.09
849	Mayurbhanj	Indupur	8.29	480	250	206	120	59	14	15	0.1	0	147	82	8	0.11
850	Mayurbhanj	Khiching	8.51	340	170	162	93	35	18	2	0.2	24	114	26	9	0.17
851	Mayurbhanj	Thianali	8.12	230	116	108	98	27	10	1	0.9	0	120	7	11	0.13
852	Mayurbhanj	Matigarh	8.17	130	63	59	39	14	6	1	0.2	0	47	14	5	0.11
853	Mayurbhanj	Padampur	8.03	430	184	211	186	22	38	1	0.1	0	227	10	2	0.42
854	Mayurbhanj	Jamukeswar	8.3	280	126	137	93	12	26	0	0.1	0	114	29	3	0.13
855	Mayurbhanj	Kherna	8.15	430	224	167	143	27	24	20	1.5	0	174	50	16	0.13
856	Mayurbhanj	Naujara	8.18	250	124	118	104	43	3	1	0.1	0	127	14	1	0.23
857	Mayurbhanj	Tato	7.98	90	41	39	33	6	6	1	0.1	0	40	7	1	0.11
858	Mayurbhanj	Kendumundi	7.51	370	180	181	82	39	20	1	0.1	0	100	70	1	0.15
859	Mayurbhanj	Asanbani	7.75	260	135	127	110	29	13	1	0.1	0	134	12	14	0.13
860	Mayurbhanj	Kendujani	7.98	250	116	118	88	29	11	1	0.1	0	107	19	3	0.21
861	Mayurbhanj	Thakurmunda	8.16	420	187	201	164	39	25	2	0.1	0	200	22	1	0.27
862	Mayurbhanj	Chandanpur	8.24	160	78	74	55	22	5	1	0.1	0	67	14	3	0.18
863	Mayurbhanj	Taramara	8.08	560	275	245	202	22	46	6	15	0	247	43	22	0.36
864	Mayurbhanj	Satkosia	8.46	330	152	152	98	31	18	1	4.8	18	120	19	1	0.48

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				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
865	Mayurbhanj	Nada	8.53	580	295	196	153	45	20	42	0.6	54	187	38	3	0.36
866	Nabarangpur	Anchalguma1	7.96	1040	501	347	306	71	41	38	41.8	0	373	121	5	0.34
867	Nabarangpur	Baheda	7.88	1300	645	416	469	81	52	82	28.0	0	572	114	7	0.42
868	Nabarangpur	Baksaguda	7.95	470	232	129	158	26	16	32	14.8	0	193	43	5	0.26
869	Nabarangpur	Bhaskel-dam sit	7.63	630	307	233	203	52	25	23	12.2	0	248	52	21	0.35
870	Nabarangpur	Dadia-Majhiguda	7.81	420	204	218	219	32	34	2	0.6	0	267	0	5	0.13
871	Nabarangpur	Daibata	7.72	200	96	79	82	16	10	9	1.1	0	100	7	4	0.08
872	Nabarangpur	Debugaon	7.51	340	172	124	131	32	11	9	16.3	0	160	14	11	0.17
873	Nabarangpur	Dengaguda	7.61	630	294	252	204	40	37	17	3.8	0	249	69	5	0.20
874	Nabarangpur	Digi	7.8	900	451	243	279	65	19	38	66.6	0	340	90	6	0.28
875	Nabarangpur	Dondasora	7.88	350	171	144	87	30	17	8	1.2	0	106	10	53	0.34
876	Nabarangpur	Fupugaon	7.56	360	179	119	121	36	7	18	9.3	0	148	31	5	0.27
877	Nabarangpur	Jharigan	7.62	900	458	297	331	77	25	34	48.4	0	404	64	11	0.39
878	Nabarangpur	Karchamal	8	500	239	272	245	44	40	1	1.1	0	299	2	4	0.17
879	Nabarangpur	Kodinga	8.19	190	92	59	66	10	8	14	0.5	0	81	17	3	0.07
880	Nabarangpur	Kosagumuda	7.83	520	246	124	91	36	8	41	9.8	0	111	93	4	0.06
881	Nabarangpur	Kosagumunda	7.57	430	211	223	209	48	25	4	2.5	0	255	2	4	0.14

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				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
882	Nabarangpur	Kurlaghati	7.66	370	188	134	162	40	9	17	9.1	0	198	12	4	0.36
883	Nabarangpur	Maidalpur1	7.84	870	446	287	351	81	20	44	34.0	0	428	50	7	0.29
884	Nabarangpur	Nandahandi	8.16	610	318	173	264	34	22	21	60.1	0	322	19	4	0.26
885	Nabarangpur	Nowrangpur 1	8.2	470	220	124	106	22	17	38	2.7	0	129	74	3	0.09
886	Nabarangpur	Papadahandi1	7.75	840	421	277	270	71	24	48	29.6	0	329	62	25	0.40
887	Nabarangpur	Rangamatiguda	7.76	860	393	337	179	77	35	27	2.6	0	218	140	4	0.14
888	Nabarangpur	Sagarmunda	7.9	320	161	134	152	26	17	15	1.1	0	186	7	3	0.30
889	Nabarangpur	Sonamasigan	7.89	440	209	223	199	40	30	4	0.8	0	243	12	3	0.14
890	Nabarangpur	Tentulikunti 1	7.79	440	215	168	152	44	14	15	7.5	0	185	40	4	0.17
891	Nabarangpur	Udaipur	7.74	730	378	208	250	60	14	22	62.9	0	305	55	14	0.33
892	Nabarangpur	Umarkote	7.76	880	429	252	234	71	18	69	4.2	0	285	112	15	0.64
893	Nayagarh	Adakata	7.12	500	246	172	109	32	23	34	1.8	0	133	76	14	0.27
894	Nayagarh	Anandapalli	7.85	1240	670	345	371	63	46	132	11.7	0	453	162	34	0.83
895	Nayagarh	Badapandeswar	7.9	910	498	222	193	59	18	59	77.2	0	236	121	49	0.18
896	Nayagarh	Benagadia	8.23	1490	855	172	495	55	9	96	232.1	0	604	116	50	0.37
897	Nayagarh	Bherupada	7.9	1580	785	438	252	47	79	118	40.7	0	308	266	84	0.07
898	Nayagarh	Darpanarayanpur	7.86	230	109	64	30	14	7	17	3.5	0	36	45	6	0.10

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				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
899	Nayagarh	Daspalla	7.64	480	245	138	99	26	18	41	6.9	0	121	69	25	0.14
900	Nayagarh	Daspalla-i	7.82	1000	504	246	371	49	30	110	2.1	0	453	71	20	0.36
901	Nayagarh	Dhipisahi(Ghanasalia)	7.78	360	172	143	104	30	17	15	1.1	0	127	36	10	0.40
902	Nayagarh	Gania	7.7	360	174	148	99	32	17	11	4.2	0	121	40	11	0.32
903	Nayagarh	Ghasadeipur	7.73	490	251	187	144	39	22	24	6.9	0	175	55	19	0.17
904	Nayagarh	Gholahandi	7.79	260	123	99	104	20	12	14	0.6	0	127	14	1	0.33
905	Nayagarh	Jhada gadia	7.89	650	321	212	218	53	19	50	1.1	0	266	55	12	1.00
906	Nayagarh	Jogibandh	8.15	1170	561	497	431	99	62	32	6.7	0	525	88	17	0.87
907	Nayagarh	Kalyanpur	8.24	1890	965	428	653	73	61	223	4.8	0	797	185	27	1.80
908	Nayagarh	Kanasingi(Rajkiari)	7.93	1490	782	438	416	71	64	109	47.6	0	507	192	50	0.55
909	Nayagarh	Kantilo	8.04	380	180	148	129	30	18	15	4.1	0	157	19	17	0.32
910	Nayagarh	Khandapada	7.94	150	82	54	54	12	6	9	3.0	0	66	19	1	0.12
911	Nayagarh	Kishore Pra	7.83	1650	856	591	267	181	34	101	5.3	0	326	309	66	0.35
912	Nayagarh	Koilama	8.12	320	150	113	94	20	16	17	1.0	0	115	33	7	0.56
913	Nayagarh	Kumdharpara	8.02	1350	695	251	371	45	34	164	36.9	0	453	143	50	0.63
914	Nayagarh	Madhyakha	8.23	820	409	251	342	37	39	70	0.3	0	417	40	18	1.20
915	Nayagarh	Mahipur	7.94	590	299	197	223	53	16	32	14.3	0	272	43	8	0.29

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				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
916	Nayagarh	Majuniapali (Itamati)	7.97	570	290	177	178	39	19	44	3.9	0	217	67	11	0.39
917	Nayagarh	Nuabausabati(upar Bausabati)	7.94	1050	523	409	178	61	63	51	3.7	0	217	183	55	0.42
918	Nayagarh	Nuagaon 1	8.47	1450	744	138	599	35	12	251	2.0	30	670	67	19	3.10
919	Nayagarh	Odagaon	7.67	650	308	231	134	35	35	37	5.1	0	163	97	19	0.26
920	Nayagarh	Purusottampur	7.92	1190	590	310	337	43	50	104	22.7	0	411	102	67	0.31
921	Nayagarh	Ranpur	8.06	610	286	231	208	37	34	23	1.1	0	254	57	10	0.50
922	Nayagarh	Ranpur 1	7.98	620	311	227	178	63	17	29	15.8	0	217	64	17	0.30
923	Nayagarh	sampada	8	300	148	123	89	28	13	11	2.9	0	109	36	3	0.23
924	Nayagarh	Sanagada	7.84	410	200	148	104	26	21	21	2.7	0	127	52	15	0.21
925	Nayagarh	Sarankul	8.17	1040	504	350	366	53	53	52	8.5	0	447	83	35	0.37
926	Nayagarh	Subalaya	8.09	350	177	128	134	37	9	16	5.2	0	163	24	6	0.25
927	Nayagarh	Durgaprasad	7.87	1500	808	510	157	87	72	100	3.5	0	192	366	80	1.48
928	Nayagarh	Kuanria	7.93	1530	746	495	162	81	72	100	3.2	0	197	373	86	1.61
929	Nayagarh	Kuluru Kumpa	8.17	750	415	267	195	59	29	38	5	0	238	84	20	0.31
930	Nayagarh	Rangamatia	7.95	1510	752	510	162	95	67	100	2.4	0	197	364	84	1.28
931	Nayagarh	Takara	8.19	750	344	282	200	42	44	38	5	0	244	86	27	0.57
932	Nuapada	Bada-Mahes	7.93	470	263	163	134	55	6	26	10.7	0	160	67	20	0.52

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
933	Nuapada	Bargaon-k	8.3	370	197	168	144	61	4	3	5.3	0	173	25	14	0.29
934	Nuapada	Bhajipala	8.18	550	278	204	216	31	30	31	5.5	0	259	25	29	1.40
935	Nuapada	Darlimunda	8.18	430	227	153	129	27	21	22	9.4	0	154	47	25	0.73
936	Nuapada	Deobahal	8	520	277	250	165	67	19	3	5.3	0	197	40	46	0.24
937	Nuapada	Dharambandha	8.3	1210	656	224	350	43	28	173	3.9	0	419	186	17	0.19
938	Nuapada	Ghantiguda	8.1	1060	623	87	376	27	5	148	93.5	0	450	94	35	0.20
939	Nuapada	Godphula	8.1	520	276	194	160	37	24	25	8.8	0	191	65	22	0.65
940	Nuapada	Gotama	8.3	570	321	173	180	39	18	50	3.0	0	216	20	86	0.46
941	Nuapada	Junen	8.12	1630	925	362	644	88	34	126	139.0	0	770	119	42	0.22
942	Nuapada	Kalyanpr	8	760	412	219	160	45	26	71	2.8	0	191	151	22	0.42
943	Nuapada	Khariar	8.3	680	363	224	180	47	26	52	1.0	0	216	45	87	0.23
944	Nuapada	Komna	7.9	3740	1872	1546	386	39	345	92	118.1	0	462	985	67	0.25
945	Nuapada	Kurumpuri	8.1	1310	769	367	278	43	62	69	110.4	0	333	261	60	0.19
946	Nuapada	Loharpalli	8.3	2410	1265	526	402	41	101	312	3.0	0	481	501	71	1.03
947	Nuapada	Loharpalli	8.2	880	439	398	237	39	72	19	2.2	0	283	151	17	0.32
948	Nuapada	Nawapara	8.24	390	201	153	129	31	18	18	2.2	0	154	12	44	0.43
949	Nuapada	Padmapur	8.2	610	308	214	211	41	27	40	0.6	0	253	69	6	0.36

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
950	Nuapada	Patparpalli	8.3	340	167	122	129	37	7	18	3.3	0	154	20	6	0.39
951	Nuapada	Potara	8.3	830	475	143	288	41	10	90	54.5	0	345	20	90	0.41
952	Nuapada	Ranipur	8	1210	624	296	469	22	57	141	3.3	0	561	87	38	0.52
953	Nuapada	Rishigaon	8.14	1310	745	219	484	35	32	118	139.0	0	579	104	33	0.48
954	Nuapada	Sahipala	8.3	1390	739	255	515	59	26	198	5.2	0	616	149	0	0.08
955	Nuapada	Sanmaheswar	8.3	570	284	250	216	35	39	16	1.6	0	259	17	49	0.92
956	Nuapada	Sirthol	8.21	880	546	270	149	51	34	76	3.1	0	179	111	138	0.21
957	Nuapada	Somarsingh	8.3	1030	551	403	299	94	40	48	7.2	0	357	166	21	0.07
958	Nuapada	Tarbod	8.2	530	303	158	113	53	6	30	33.5	0	136	99	15	0.54
959	Puri	Krupasindurapatna	7.95	2600	1087	371	312	73	46	221	111.7	0	381	388	60	0.3
960	Puri	Police Lane	7.85	900	403	248	226	48	32	57	10.3	0	275	77	45	0.2
961	Puri	Chhapanachhak	7.75	840	363	198	182	14	40	61	15.5	0	223	108	15	0.17
962	Puri	Gaudabadasahi	7.8	950	455	292	250	36	50	66	12	0	305	101	40	0.15
963	Puri	Sadarblock	7.84	1050	495	317	283	65	38	65	17.9	0	346	103	36	0.1
964	Puri	ITI Chhak	7.91	1200	533	317	254	79	29	72	25.1	0	310	124	52	0.09
965	Puri	Shree Vihar	7.88	230	129	99	96	18	13	15	1.7	0	117	17	6	0.16
966	Puri	Haragouri Sahi	7.5	550	289	183	154	36	23	41	11.6	0	187	67	19	0.07

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
967	Puri	Balagandi	7.88	900	384	213	197	57	17	66	6	0	240	84	35	0.06
968	Puri	GobardhanMatha	7.86	400	200	144	134	38	12	18	7	0	164	24	21	0.04
969	Puri	Sorbodaya Nagar	8.06	1100	503	243	216	53	27	87	20.6	0	264	136	50	0.07
970	Puri	SidhaMahavir	8.02	1150	519	327	307	85	28	74	14.2	0	375	101	33	0.07
971	Puri	Kumbharapada	7.97	1500	741	351	274	79	38	154	15.2	0	334	225	66	0.04
972	Puri	Gosala	8.15	1250	505	327	322	26	64	76	18.3	0	392	110	19	0.08
973	Puri	Grand Road	7.98	1400	580	292	283	63	33	94	47.3	0	346	163	10	0.04
974	Puri	Balighat	8.08	1300	547	228	235	34	35	93	61.3	0	287	151	32	0.06
975	Puri	Mandap Sahi	7.98	900	419	198	134	40	24	65	38.3	0	164	129	43	0.04
976	Puri	Jagannath Temple	7.95	1400	562	312	317	79	28	82	42.7	0	386	112	29	0.03
977	Puri	Balipur	8.12	1200	534	267	278	61	28	88	34.2	0	340	103	52	0.06
978	Puri	Beherasahi	7.91	1100	486	297	293	73	28	66	29.9	0	357	93	21	0.04
979	Puri	Ramchandisahi	7.99	950	395	233	226	65	17	49	23.6	0	275	67	38	0.04
980	Puri	Algum	7.88	1200	647	153	333	32.0	19.0	112	106.0	0	407	141	37	0.1
981	Puri	Alipada	7.58	2175	1181	367	323	87.0	39.0	245	102.0	0	395	304	210	0.12
982	Puri	Baleswarpatna	7.52	590	306	181	109	54.0	12.0	38	4.0	0	134	55	77	0.15
983	Puri	Balighai	7.26	300	164	126	124	43.0	5.0	10	5.0	0	152	26	1	0.23

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
984	Puri	Baliguari	7.35	630	320	177	169	54.0	11.0	38	28.5	0	206	48	40	0.12
985	Puri	Bisimatri	7.33	492	237	158	179	58.0	4.0	22	8.0	0	219	29	9	0.1
986	Puri	Brahmagiri	7.37	500	233	140	104	39.0	11.0	29	3.0	0	127	77	11	0.14
987	Puri	Budhiabar	7.56	850	443	177	164	43.0	18.0	85	12.0	0	200	124	63	0.09
988	Puri	Chandanpur	7.47	350	201	135	159	41.0	9.0	19	9.0	0	194	24	4	0.12
989	Puri	Charichhak	7.4	220	110	65	85	24.0	1.0	16	2.0	0	103	17	0	0.16
990	Puri	Chhanijanga	7.82	790	460	121	269	45	2	41	132	0	328	41	38	0.1
991	Puri	Dandamukundapur	7.85	1750	867	335	473	76	38	95	138	0	577	182	56	0.18
992	Puri	Delang	7.81	1130	550	265	269	63	28	72	57.3	0	328	120	49	0.19
993	Puri	Dhauli	7.83	290	155	112	100	33	7	20	1.3	0	121	29	5	0.19
994	Puri	Garapada	7.67	1430	759	377	498	47	68	120	39	0	608	110	34	0.22
995	Puri	Girala	8.2	1090	613	332	288	72	36	63	59.1	0	345	186	28	0.16
996	Puri	Gokhara	7.78	250	133	71	67	22	4	20	7.3	0	80	38	3	0.14
997	Puri	Gop-1	8.03	750	413	230	258	57	21	63	6.1	0	308	88	27	0.26
998	Puri	Haripur	7.25	160	90	26	21	8	1	25	0.7	0	25	40	4	0.06
999	Puri	Harirajpur	8.11	820	393	311	386	45	47	42	8.3	0	462	24	0	0.21
1000	Puri	Jagannathpur	7.9	360	200	107	129	22	12	26	14.1	0	154	33	17	0.18

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
1001	Puri	Jogeswarpur	7.75	340	196	82	134	12	12	21	35.2	0	160	29	9	0.05
1002	Puri	Juinti	8.3	1120	650	179	350	37	21	69	180.3	0	419	98	40	0.02
1003	Puri	Kakatpur II	8.3	1880	1100	327	443	84	28	183	165.5	0	530	290	90	0.11
1004	Puri	Kanas	7.97	230	124	92	103	33	2	5	8.5	0	123	10	5	0.06
1005	Puri	Konark I	8.16	570	296	189	196	57	11	23	34.0	0	234	50	6	0.18
1006	Puri	Kumareswar	8.08	380	213	77	144	20	6	49	6.7	0	173	38	9	0.17
1007	Puri	Mahapur	8.14	480	221	189	180	31	27	19	6.2	0	216	29	3	0.33
1008	Puri	Maunimathha	8.11	370	198	102	124	39	1	26	20.5	0	148	24	15	0.22
1009	Puri	Nimapara(Patapur)	7.94	390	207	122	129	33	10	27	6.9	0	154	43	12	0.13
1010	Puri	Pipili	8.3	1720	948	362	479	63	49	183	77.0	0	573	235	60	0.16
1011	Puri	Pratapramchandrapur	8.14	440	238	153	139	37	15	20	14.3	0	166	55	15	0.06
1012	Puri	Ramchandi	8.16	660	366	194	196	49	17	56	8.4	0	234	86	35	0.14
1013	Puri	Rebananuagaon	8.13	1670	926	260	319	51	32	215	81.8	0	382	224	135	0.08
1014	Puri	Rendagada	8.1	880	495	214	263	29	34	82	35.3	0	314	119	42	0.46
1015	Puri	Sadanadapur	8.17	1940	1084	291	474	16	60	285	45.9	0	567	257	142	0.25
1016	Puri	Sakhigopal	8.18	1750	1036	245	412	20	46	274	30.0	0	493	264	160	0.34
1017	Puri	Sakhigopal	8.12	490	250	173	118	35	21	29	6.1	0	142	55	35	0.13

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
1018	Puri	Tikarapara-I	8.02	1290	657	444	314	27	90	92	3.0	0	376	109	152	0.33
1019	Puri	Malatipatapur	8.25	1980	1176	342	556	53	50	197	171.8	0	665	343	35	0.16
1020	Puri	Uansdiha	8.18	710	391	235	299	78	10	39	24.6	0	357	55	10	0.35
1021	Rayagada	Akhusingi	7.88	1220	570	383	292	33	73	97	3.5	0	356	154	35	0.38
1022	Rayagada	Ambadola	7.59	160	80	48	54	16	2	6	8.0	0	66	15	0	0.18
1023	Rayagada	Bangi Chowk	7.18	420	211	143	183	31	16	33	0.8	0	223	20	1	0.30
1024	Rayagada	Chakunda	7.11	430	221	125	188	35	9	41	0.9	0	229	22	1	0.39
1025	Rayagada	Dambasara	7.52	1270	656	229	386	49	26	106	86.7	0	471	127	31	0.28
1026	Rayagada	Gorakhpur	7.81	130	61	58	54	10	8	2	0.4	0	66	7	1	0.15
1027	Rayagada	Gumda	7.33	960	486	216	272	65	13	45	89.8	0	332	108	1	0.28
1028	Rayagada	Gumma	7.22	450	223	171	193	47	13	20	2.7	0	235	24	1	0.32
1029	Rayagada	Gunupur1	7.11	290	144	102	109	26	9	18	1.2	0	133	24	0	0.29
1030	Rayagada	Kaliapada	7.07	170	82	54	59	10	7	12	1.1	0	72	15	0	0.50
1031	Rayagada	Kashipur	6.87	980	455	307	193	75	29	57	5.1	0	235	171	2	0.18
1032	Rayagada	Kenduguda	7.01	1240	595	316	272	67	36	102	1.2	0	332	203	23	0.37
1033	Rayagada	Kodapadu	7.3	240	119	74	79	20	6	16	1.7	0	96	27	0	0.32
1034	Rayagada	Minajhola	7.04	320	160	113	144	27	11	21	1.4	0	176	12	1	0.21

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				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
1035	Rayagada	Mukundpur	6.98	300	145	105	109	29	8	16	1.9	0	133	24	1	0.17
1036	Rayagada	Narainpur	7.03	200	99	69	84	16	7	9	3.4	0	102	12	1	0.15
1037	Rayagada	Nua Dakasikula	7.37	650	342	136	302	20	21	91	2.0	0	368	24	3	0.54
1038	Rayagada	Padampur2	7.39	580	292	132	193	20	20	52	22.1	0	235	59	3	0.30
1039	Rayagada	Ramnaguda2	7.57	650	323	216	243	63	14	41	0.4	0	296	56	2	0.30
1040	Rayagada	Shirikona	7.52	650	321	260	277	59	27	31	3.1	0	338	32	3	0.29
1041	Rayagada	Tandikana	7.77	310	151	126	134	29	13	16	0.4	0	163	12	1	0.25
1042	Rayagada	Therabali	7.71	450	226	118	183	20	17	46	7.8	0	223	24	2	0.49
1043	Sambalpur	Babubandha	7.87	350	183	114	134	28	11	12	20.3	0	164	22	10	0.33
1044	Sambalpur	Baduapali	8.12	520	236	168	187	30	23	25	2.2	0	228	24	20	0.59
1045	Sambalpur	Baijamunda	7.88	1550	783	505	341	57	89	105	1.9	0	416	256	71	1.10
1046	Sambalpur	Baragoan	8.34	570	257	233	216	67	16	11	7.7	23	217	19	6	0.43
1047	Sambalpur	Batemura	8.38	800	352	337	312	50	52	16	8.5	23	334	34	4	0.48
1048	Sambalpur	Bausenmura	8.38	1680	874	599	336	170	43	81	53.3	20	369	251	76	0.30
1049	Sambalpur	Chhachanpali	8.31	520	257	178	192	44	17	29	1.4	9	217	36	14	0.34
1050	Sambalpur	Chiplima	8.21	270	135	109	91	34	6	9	2.9	0	111	19	10	0.20
1051	Sambalpur	Christianpara	8.18	540	276	193	206	50	17	24	13.5	0	252	31	17	1.30

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
1052	Sambalpur	Deogaon	7.28	380	171	153	125	34	17	11	1.8	0	152	26	7	0.29
1053	Sambalpur	Dhama	8.08	520	271	158	101	36	17	40	7.8	0	123	48	63	0.86
1054	Sambalpur	Dhanakauda	7.36	620	307	223	125	30	36	34	6.9	0	152	77	48	0.55
1055	Sambalpur	Gainpura	8.23	860	435	337	254	71	39	25	28.6	0	310	79	40	0.33
1056	Sambalpur	Golgunda	8.18	260	123	94	96	18	12	15	1.3	0	117	17	3	0.49
1057	Sambalpur	Gosala	8.12	1310	654	450	274	95	52	63	25.7	0	334	175	79	0.36
1058	Sambalpur	Goudpalli	8.27	650	311	223	168	55	21	39	3.9	0	205	79	12	0.36
1059	Sambalpur	Gunchamal	8.09	690	338	218	264	30	35	42	10.2	0	322	34	29	0.18
1060	Sambalpur	Gunderpur	8.15	650	337	243	144	71	16	33	2.0	0	176	93	36	0.43
1061	Sambalpur	Gutanpada	8.2	930	423	337	379	28	66	42	2.7	0	463	48	9	0.68
1062	Sambalpur	Hirakud	8.29	580	286	223	197	42	29	31	0.6	0	240	41	25	0.26
1063	Sambalpur	Hotapala	8.48	930	442	198	432	16	39	105	0.7	29	468	22	0	1.40
1064	Sambalpur	Jamadarpali	8.35	530	249	208	226	42	26	17	2.1	26	223	14	13	0.82
1065	Sambalpur	Jugipali	8.19	570	272	213	115	36	30	17	2.7	0	141	86	31	1.00
1066	Sambalpur	Jhankarbahli	8.2	850	416	228	307	28	39	92	1.3	0	375	43	29	1.20
1067	Sambalpur	Khunti	7.54	490	240	203	163	42	24	15	2.7	0	199	48	11	0.28
1068	Sambalpur	Larasara	8.12	840	411	327	317	95	22	31	5.6	0	386	65	4	0.26

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
1069	Sambalpur	Maltisubanpur	8.21	920	455	356	283	75	41	31	27.6	0	346	74	36	0.24
1070	Sambalpur	Pitapali	8.09	360	189	124	130	40	6	21	5.5	0	158	22	18	0.13
1071	Sambalpur	Remerha	8.12	530	264	188	182	48	17	27	3.5	0	223	38	21	0.44
1072	Sambalpur	Rupapali	8.09	640	318	218	149	51	22	44	3.1	0	182	101	9	0.65
1073	Sambalpur	Sahaspur	7.94	3310	1553	1262	269	253	154	140	2.0	0	328	754	89	0.25
1074	Sambalpur	Sambalpur	8.42	860	438	312	269	93	19	33	35.4	29	269	62	35	0.22
1075	Sambalpur	Amlipani	7.96	300	133	112	119	28	10	10	1.6	0	146	7	4	0.53
1076	Sambalpur	Badarama	7.97	660	334	237	189	54	25	35	11.3	0	231	60	34	0.43
1077	Sambalpur	Badsahir	7.71	1870	871	670	289	91	108	86	9.7	0	352	318	79	0.49
1078	Sambalpur	Bampei	7.88	460	200	177	124	37	20	11	0.9	0	152	29	26	0.31
1079	Sambalpur	Bamra	7.78	1440	712	474	214	154	22	89	5.7	0	261	220	93	0.27
1080	Sambalpur	Barodungri(Orampara)	8	690	314	246	154	43	34	28	2.7	0	188	69	42	0.46
1081	Sambalpur	Bhabanipali	7.8	880	392	339	299	54	50	25	1.8	0	364	29	50	0.91
1082	Sambalpur	Bhaluchuan	8.13	920	420	242	388	20	47	79	9.7	0	473	19	10	1.80
1083	Sambalpur	Bhoipali	8.26	890	437	205	358	24	35	98	1.8	0	437	31	31	1.70
1084	Sambalpur	Boxma	8.04	780	382	233	184	61	19	58	5.6	0	225	81	45	0.49
1085	Sambalpur	Chandrapura	8.06	910	416	335	229	54	49	39	2.3	0	279	98	34	0.31

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
1086	Sambalpur	Charmal	8.04	460	204	181	184	48	15	13	1.8	0	225	12	3	0.56
1087	Sambalpur	Daincha	7.76	640	296	274	179	56	33	10	1.4	0	219	72	15	0.25
1088	Sambalpur	Dandeipalli	7.9	300	131	102	100	22	11	10	4.4	0	121	12	11	0.45
1089	Sambalpur	Gargarbahal	8.02	400	181	130	154	45	5	14	4.5	0	188	17	3	0.29
1090	Sambalpur	Gorupali	7.94	720	336	270	289	22	52	31	5.2	0	352	38	11	0.27
1091	Sambalpur	Hathibari	8.16	620	302	167	204	37	18	56	2.6	0	249	38	28	0.83
1092	Sambalpur	Jamankira 1	7.98	380	194	107	95	24	11	36	2.3	0	115	43	21	0.74
1093	Sambalpur	Jayantpur	8.03	665	305	246	164	45	33	26	0.9	0	200	72	29	0.58
1094	Sambalpur	Jhargulanda	8.08	640	284	233	254	22	43	31	3.5	0	310	19	11	1.60
1095	Sambalpur	Jujumura	8.05	820	397	302	204	69	32	36	3.9	0	249	74	57	0.71
1096	Sambalpur	Kadalipali	8.04	750	346	284	299	28	52	30	5.2	0	364	36	13	0.37
1097	Sambalpur	Katar kela	7.97	440	219	177	119	50	12	17	0.8	0	146	38	28	0.36
1098	Sambalpur	Kesaibahal	7.86	510	244	177	109	28	26	26	3.6	0	134	69	24	0.29
1099	Sambalpur	Koakud	7.98	290	143	121	124	47	1	9	1.4	0	152	7	3	0.42
1100	Sambalpur	Kuagola	8.02	950	491	428	189	95	47	24	0.2	0	231	158	50	0.33
1101	Sambalpur	Kuchinda	7.7	220	102	84	60	13	12	8	2.1	0	73	29	1	0.27
1102	Sambalpur	Kusumi	7.85	1240	636	395	169	121	23	90	5.1	0	206	220	75	0.28

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
1103	Sambalpur	Loiraguna	8.2	540	233	209	219	35	30	10	3.4	0	267	14	7	0.29
1104	Sambalpur	Luhapank	8.27	720	370	158	209	33	18	86	2.5	0	255	77	28	0.25
1105	Sambalpur	Majhipal	7.97	120	54	33	35	6	5	4	4.7	0	42	10	2	0.22
1106	Sambalpur	Mochibahal	8.09	530	249	200	199	47	20	22	4.4	0	243	22	12	0.47
1107	Sambalpur	Nagadihi Chawk	8.04	140	60	37	45	6	6	8	1.5	0	55	7	4	0.39
1108	Sambalpur	Naktideol	7.76	1010	503	381	209	99	33	49	1.4	0	255	146	48	0.32
1109	Sambalpur	Naxapali	8.05	1890	883	679	368	71	123	96	2.9	0	449	270	92	1.00
1110	Sambalpur	Nildungri	8.39	700	340	195	308	30	30	51	10.9	24	328	22	9	0.88
1111	Sambalpur	Padiabahal	8.08	1140	539	223	373	22	41	143	3.1	0	455	65	39	1.70
1112	Sambalpur	Parmanpur	8.3	680	331	84	269	13	12	101	0.7	12	304	41	1	3.60
1113	Sambalpur	Paruabhari	7.79	1190	542	321	179	76	32	90	6.2	0	219	179	50	1.00
1114	Sambalpur	Rairakhol (rampu)	8.11	740	350	302	189	52	42	22	0.9	0	231	79	38	0.60
1115	Sambalpur	Rengali	8.16	650	331	116	259	22	15	91	1.2	0	316	43	3	1.30
1116	Sambalpur	Sason 1	7.95	380	186	144	139	24	20	17	3.7	0	170	14	22	0.51
1117	Sambalpur	Simlipal Chawk	7.92	150	79	42	40	6	7	8	9.3	0	49	19	5	0.26
1118	Sambalpur	Subarnapali	7.63	550	262	140	114	41	9	49	1.4	0	140	53	39	0.51
1119	Sambalpur	Taipali	8.16	470	229	186	194	39	22	17	2.9	0	237	17	15	0.38

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
1120	Sambalpur	Telitiliamal	7.96	650	311	251	169	58	26	24	3.3	0	206	53	44	0.60
1121	Sambalpur	Terebera	8.18	640	288	251	279	32	42	22	1.2	0	340	17	4	0.88
1122	Sonepur	Ankhidadar	8.06	1230	675	198	139	67	8	169	31	0	169	232.0	86	2.50
1123	Sonepur	Antarda	8.02	810	446	177	158	54	10	71	34	0	193	133.0	48	0.90
1124	Sonepur	Arjunpur	7.28	870	446	198	254	48	19	80	26	0	310	118.0	3	0.68
1125	Sonepur	Bagedia	7.36	1030	544	177	270	58	8	125	17	0	329	166.0	9	0.49
1126	Sonepur	Baghahandi	7.72	1200	596	400	150	44	71	82	11	0	183	214.0	84	0.81
1127	Sonepur	Barkarle	7.65	880	468	234	166	50	27	68	14	0	202	143.0	68	0.68
1128	Sonepur	Bausuni	8.03	820	429	270	112	48	37	53	15	0	136	164.0	46	0.47
1129	Sonepur	Bhimtikra	8.37	560	271	187	231	52	14	27	6	16	249	25.0	9	0.53
1130	Sonepur	Binka	7.92	520	257	203	185	64	10	21	6	0	225	38.0	7	0.54
1131	Sonepur	B. M. Pur	7.91	1100	615	343	108	131	4	77	17	0	132	264.0	57	0.48
1132	Sonepur	Bishalapali	8.19	410	207	130	154	50	1	30	2	0	188	30.0	1	0.36
1133	Sonepur	Borumunda	8.1	430	207	177	166	60	6	15	2	0	202	23.0	1	0.74
1134	Sonepur	Chinajuri	8.12	640	328	125	200	25	15	76	3	0	244	68.0	21	.550
1135	Sonepur	Cherupali	8.26	520	269	151	162	50	6	39	3	0	197	50.0	24	0.66
1136	Sonepur	Danipali	8.41	1140	605	229	412	67	15	125	30	35	432	81.0	41	0.65

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
1137	Sonepur	Dhaurakhaman	8.02	470	230	187	142	44	19	18	4	0	174	38.0	23	0.79
1138	Sonepur	Gajabandha	8.17	310	156	114	119	35	6	15	3	0	146	20.0	5	0.53
1139	Sonepur	Gahmaripali	7.81	470	233	135	119	33	13	43	4	0	146	68.0	1	0.45
1140	Sonepur	Gariamunda	7.71	1200	657	343	89	98	24	108	13	0	108	284.0	77	0.52
1141	Sonepur	Ichchapur	8.26	800	424	151	131	37	14	105	12	0	160	123.0	54	0.53
1142	Sonepur	Jatesingha	7.37	980	516	218	196	67	13	93	20	0	240	201.0	6	0.57
1143	Sonepur	Karlajuri	7.92	1460	795	442	77	156	13	120	16	0	94	350.0	94	0.63
1144	Sonepur	Kartanga	8.16	270	131	109	85	29	9	10	2	0	103	18.0	12	0.72
1145	Sonepur	Khaliapali	7.94	1040	544	354	119	106	21	66	14	0	146	201.0	64	0.71
1146	Sonepur	Koidamunda	8.09	480	251	177	100	64	4	25	4	0	122	48.0	46	0.62
1147	Sonepur	Mahada	7.93	590	310	208	96	64	11	33	9	0	117	91.0	44	0.57
1148	Sonepur	Mahadevpali	8.33	500	255	120	193	42	4	48	5	18	197	30.0	10	0.46
1149	Sonepur	Metkani	7.52	3720	1769	1665	116	173	300	76	20	0	141	1065.0	67	1.50
1150	Sonepur	Naikpada	8.34	500	257	151	135	42	11	34	3	12	141	55.0	31	0.63
1151	Sonepur	Phulmuthi	7.68	1770	949	546	92	96	75	142	20	0	113	468.0	93	0.57
1152	Sonepur	Rampur	8.41	490	243	172	181	50	11	21	4	16	188	30.0	18	0.52
1153	Sonepur	S.ptarapali	8	810	420	265	119	52	33	55	13	0	146	126.0	70	0.47

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
1154	Sonepur	Sakama	7.89	1010	523	343	100	69	42	64	17	0	122	201.0	71	0.74
1155	Sonepur	Saledi	8.14	890	456	312	92	56	42	51	17	0	113	181.0	54	0.38
1156	Sonepur	Samae aichuan	8.36	530	266	187	131	37	23	34	3	12	136	53.0	39	0.59
1157	Sonepur	Sankara	8.4	360	183	120	131	35	8	18	5	14	132	23.0	16	0.82
1158	Sonepur	Sangamura	8.24	430	230	140	108	48	5	31	3	0	132	58.0	21	0.55
1159	Sonepur	Sarangapali	8.28	280	139	109	96	31	8	9	6	0	117	20.0	8	0.49
1160	Sonepur	Sarasmal	7.36	470	236	134	190	40	8	35	4.9	0	232	19	14	0.47
1161	Sonepur	Sindor	7.21	430	215	150	119	46	8	27	4.8	0	145	46	11	0.19
1162	Sonepur	Sighijuba	7.15	250	122	86	79	23	7	10	2.6	0	97	28	3	0.33
1163	Sonepur	Sonepur	7.12	880	444	245	280	54	27	71	1.2	0	342	74	48	0.62
1164	Sonepur	Subaliya	7.53	560	262	230	245	42	30	13	0.5	0	299	14	13	0.65
1165	Sonepur	Sukha	7.3	1080	564	322	230	65	38	94	4.9	0	281	151	72	0.42
1166	Sonepur	Tebhapadar	7.05	1530	831	734	233	192	62	42	1.6	0	284	301	92	0.30
1167	Sonepur	Ulunda	7.24	850	423	330	220	86	28	26	4.7	0	268	139	6	0.30
1168	Sonepur	Nandanmal	7.48	1540	765	528	396	129	50	76	3.3	0	483	241	27	0.86
1169	Sonepur	Dunguripali	7.59	470	235	158	185	40	14	29	4.1	0	226	26	9	0.62
1170	Sonepur	Kotsamalai	7.52	370	179	149	160	48	7	9	1.9	0	195	10	7	0.31

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
1171	Sonepur	Bagduli	8.23	860	450	204	350	29	32	91	20.5	0	419	40	31	0.71
1172	Sonepur	Palspada	8	730	385	332	129	47	51	12	6.6	0	154	141	53	0.35
1173	Sonepur	Sargaj	8.3	950	464	444	263	33	86	15	1.6	0	314	169	6	0.42
1174	Sundargarh	Aleikera	7.73	810	417	307	255	73	30	44	1.9	0	311	89	25	0.26
1175	Sundargarh	Badbahal	7.9	350	175	96	105	27	7	30	2.0	0	128	24	21	0.21
1176	Sundargarh	Balijori	7.93	200	113	67	90	17	6	19	1.8	0	110	12	3	0.43
1177	Sundargarh	Banki	7.52	800	379	283	220	12	62	44	3.1	0	268	89	37	0.18
1178	Sundargarh	Bargad	7.8	160	82	43	20	8	6	15	1.8	0	24	28	11	0.09
1179	Sundargarh	Bhasma	7.62	220	104	82	50	23	6	10	2.2	0	61	31	2	0.14
1180	Sundargarh	Bihabandh	8.18	440	207	197	195	42	22	3	2.7	0	238	12	7	0.59
1181	Sundargarh	Birangtoli	8.1	350	169	158	140	44	12	3	3.2	0	171	17	6	0.21
1182	Sundargarh	Biramitrapur	7.55	1360	652	571	395	96	80	47	6.9	0	482	103	80	0.74
1183	Sundargarh	Bandamunda	7.99	290	146	101	100	27	8	14	3.0	0	122	22	12	0.47
1184	Sundargarh	Chandipos	8.09	440	219	154	140	36	15	22	2.7	0	171	45	13	0.19
1185	Sundargarh	Deokaranpur	7.76	690	337	264	153	83	14	35	0.6	0	187	108	5	0.07
1186	Sundargarh	Kundukela	7.67	530	278	202	30	58	14	25	7.6	0	36	152	3	0.04
1187	Sundargarh	Durubaga	7.77	220	115	67	35	19	5	15	6.8	0	43	38	9	0.06

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
1188	Sundargarh	Ekma	8.01	600	281	226	120	56	21	28	1.4	0	146	101	2	0.48
1189	Sundargarh	Garjanbahal	8.03	260	132	72	70	17	7	17	5.2	0	85	31	12	0.19
1190	Sundargarh	Karamdihi	7.91	560	252	220	235	40	29	27	0.7	0	296	12	1	0.40
1191	Sundargarh	Katra	8.08	360	183	130	129	40	7	13	5.8	0	157	26	13	0.26
1192	Sundargarh	Kuarmunda	7.95	1250	624	520	163	94	69	45	4.7	0	199	220	93	0.22
1193	Sundargarh	Kumjharia	8.1	760	392	150	267	46	8	89	2.0	0	326	50	36	0.64
1194	Sundargarh	Kutra	8.22	390	176	163	160	36	17	11	4.1	0	195	10	1	0.20
1195	Sundargarh	Lathikata	8.12	720	364	269	139	61	28	25	2.0	0	169	131	33	0.15
1196	Sundargarh	Ledimung	8.32	380	184	115	168	33	8	26	2.7	7	177	12	1	0.63
1197	Sundargarh	Lefripada	8.24	410	192	170	158	40	17	15	2.1	0	193	21	1	0.30
1198	Sundargarh	Lokdega	8.11	450	229	182	65	42	19	16	3.5	0	79	98	11	0.11
1199	Sundargarh	Mahulpali	8.09	260	127	86	90	23	7	19	2.4	0	120	14	7	0.12
1200	Sundargarh	Medinipur	8.05	340	172	106	75	35	5	27	1.6	0	92	53	6	0.11
1201	Sundargarh	Masanikani	7.9	210	103	53	55	12	6	22	1.9	0	67	26	2	0.10
1202	Sundargarh	Panchamahala	8.34	730	358	293	185	61	34	26	5.6	7	198	79	40	0.19
1203	Sundargarh	Panderpali	7.96	170	88	53	40	15	3	13	2.3	0	49	26	3	0.14
1204	Sundargarh	Putudihi	8.22	400	200	154	170	44	10	18	1.0	0	207	12	11	0.54

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
1205	Sundargarh	Suruguda	8.21	390	198	154	150	40	13	9	9.9	0	183	19	17	0.18
1206	Sundargarh	Rabandihi	8.25	270	125	100	99	27	8	14	1.4	0	130	14	1	1.00
1207	Sundargarh	Rajgangpur	7.37	1500	781	576	185	138	56	68	4.4	0	226	345	58	0.21
1208	Sundargarh	Rangiamunda	7.92	330	173	101	75	29	7	23	1.9	0	92	48	19	0.18
1209	Sundargarh	Subdega	7.9	910	472	288	287	73	26	64	2.3	0	350	82	52	0.90
1210	Sundargarh	Sargipali	8.33	550	273	155	220	52	6	40	5.4	9	231	36	1	0.29
1211	Sundargarh	Sahajbahal	8.22	600	287	245	129	52	28	25	1.4	0	157	99	4	0.43
1212	Sundargarh	Talsara	8.08	270	136	58	85	21	1	35	0.5	0	104	26	1	0.90
1213	Sundargarh	R-01 Jalda C-Block	8.17	760	398	270	192	45	38	47	5.6	0	234	82	65	0.99
1214	Sundargarh	R-02 Jalda Rangila Chhak	8.23	1080	573	270	263	39	42	119	8	0	321	127	81	0.76
1215	Sundargarh	R-06 Basanti Colony	8.78	1610	874	250	449	41	36	252	1.7	66	414	199	76	2.06
1216	Sundargarh	R-08 Udit Nagar-2	8.29	520	274	181	170	41	19	31	7.5	0	207	43	31	0.25
1217	Sundargarh	R-09 Power House Road	8.07	570	292	216	159	47	24	29	4.1	0	194	53	40	0.22
1218	Sundargarh	R-10 Raghunathpalli	8.46	580	318	201	148	59	13	39	1.9	30	120	84	32	0.19
1219	Sundargarh	R-12 Gangadharpally	8	800	417	235	153	47	29	67	12.7	0	187	132	38	0.18
1220	Sundargarh	R-13 Chhend	8.17	340	166	152	148	37	14	7	0.5	0	180	14	5	0.5
1221	Sundargarh	R-14 Banposh (Urban)	7.79	310	151	108	93	20	14	19	1.5	0	114	41	0	0.12

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
1222	Sundargarh	R-17 Jhumpudibasti(Nuabazar)	7.79	610	331	176	88	49	13	56	2.3	0	107	96	62	0.21
1223	Sundargarh	R-18 Koel Nagar	8.42	400	204	157	119	37	16	18	2.7	48	47	26	34	0.19
1224	Sundargarh	R-19 Jagada	8.25	700	354	181	110	29	26	74	5.4	0	134	137	17	0.16
1225	Sundargarh	R-20 Jhirpani	7.18	680	349	172	197	22	28	71	10.5	0	240	94	5	0.16
1226	Sundargarh	R-21 Sector-1	8.58	650	323	250	219	49	31	33	0.5	36	194	58	20	0.37
1227	Sundargarh	R-22 Sector-2	8.44	420	225	123	118	43	4	34	6.5	18	107	46	17	0.21
1228	Sundargarh	R-23 Sector-3	8.56	480	241	162	127	43	13	28	10	30	94	60	11	0.19
1229	Sundargarh	R-24 Sector-5	8.24	250	130	103	60	24	10	9	1.1	0	73	22	28	0.15
1230	Sundargarh	R-25 Ambagaon	7.93	650	362	162	148	33	19	64	16.6	0	180	99	42	0.15
1231	Sundargarh	R-26 Sector-6	8.09	290	141	127	66	24	16	5	2.2	0	80	41	13	0.17
1232	Sundargarh	R-27 Sector-7	8.26	270	138	113	98	29	10	9	1.9	0	120	24	5	0.27
1233	Sundargarh	R-29 Sector-9	8.28	260	128	108	110	24	12	9	1.2	0	134	12	4	0.27
1234	Sundargarh	R-30 Sector-13	8.11	190	100	78	55	26	3	6	2.9	0	67	22	7	0.18
1235	Sundargarh	R-31 Sector-14	8.2	170	89	69	71	22	3	5	3.7	0	87	10	2	0.3
1236	Sundargarh	R-32 Sector-20	8.27	330	168	113	93	31	9	21	4.8	0	114	31	16	0.18
1237	Sundargarh	R-33 Sector 18	8.22	340	176	93	82	31	4	31	4.4	0	100	34	23	0.14
1238	Sundargarh	R-34 Sector-17	7.9	240	118	93	49	18	12	8	4.5	0	60	41	5	0.14

SL NO.	District	Village	pH	EC	TDS	TH	Alkalinity	Ca^{++}	Mg^{++}	Na^{+}	K^{+}	$CO_3^{=}$	HCO_3^{-}	Cl^{-}	$SO_4^{=}$	F^{-}
				µs/cm at 25°C	mg/L	mg/L as $CaCO_3$		<----------mg/L---------->								
1239	Sundargarh	R-36 Sector-15	8.27	340	156	147	131	29	18	9	2.2	0	160	14	5	0.26
1240	Sundargarh	R-37 Vedvyas	8.26	740	378	270	126	77	19	44	1.5	0	154	156	5	0.21
1241	Sundargarh	R-38 Kalunga	8.24	340	173	152	77	51	6	6	2.4	0	94	53	9	0.23