



**GOVERNMENT OF INDIA
MINISTRY OF WATER RESOURCES AND GANGA REJUVENATION
CENTRAL GROUND WATER BOARD**

**GROUND WATER YEAR BOOK
OF
CHHATTISGARH
2016 - 17**

**NORTH CENTRAL CHHATTISGARH REGION
RAIPUR
October 2017**

FOREWORD

Central Ground Water Board, North Central Chhattisgarh Region, Raipur monitors the water levels in the State four times a year through a network of 1324 number of observation wells(both dug wells and piezometers). Water quality is also assessed once in a year. The generated data from these observation wells are compiled, analyzed and presented in the form of reports from time to time and circulated to various Central and State Government Departments. The present report embodies data and information collected during monitoring in the year 2016-17.

The water level data and sample collection was done by the officers of CGWB, NCCR Raipur. The report has been compiled and prepared by Shri M. M. Sonkusare, Senior Hydrogeologist, (Scientist 'D'). I appreciate the efforts put by Sh. KBN Soni, Sc'D', In charge of Report Processing Section in bringing out this report. I am sure this report will be of immense help to all the stakeholders of groundwater in the State.

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1. INTRODUCTION

The State of Chhattisgarh lies between North Latitude 17°47' to 24°06' and East Longitude 80°14' to 84°24' (Fig. 1.1). Central Ground Water Board, North Central Chhattisgarh Region, Raipur is carrying out ground water regime monitoring in the State. The State covers a geographical area of 1,37,360 sq. km. Nearly 65.90 % of the total area is covered by tribals and hence it is said as tribal dominated State. The ground water regime is monitored through a network of observation dug wells and piezometers. Dug wells represent the shallow phreatic aquifer system where as piezometers represent the shallow un-confined as well as deeper semi-confined aquifer system. The network of observation stations form a part of All India Network Hydrograph Stations, which is being monitored by various Regional offices of the department, located at different parts of the country.

As on March 2017, a network of 1324 observation wells (both dug wells and purpose built piezometers) are monitored four times a year. The monitoring includes measurement of ground water level and quality. The purpose is to observe the behavior of ground water and their levels in different hydro geological environments in order to estimate the ground water resource from time to time and to know the water quality changes.

The monitoring database on water levels and chemical parameters helps to simulate models of forecasting, planning and management of ground water resources. The behavior of the ground water level and quality during the period from May 2016 to January 2017 is presented in this report with the idea that it will enable the user agencies to plan the development strategy for optimum utilization of ground water resources in the state.

2. GEOMORPHOLOGY

2.1 Physiography

Physiographically, Chhattisgarh can be divided into three distinct units i.e.

- i) Bastar plateau region on the southern part,
- ii) Chhattisgarh Plain region on the central part and
- iii) Northern hilly region on the northern parts of the State.

The Bastar Plateau Region

It covers Bastar, Kondagaon, Narayanpur, Kanker, Bijapur, Sukma and Dantewada districts lying on the southern parts of the State. Except Indravati River plains, most of the area is covered by evergreen dense reserve forests and hilly tracts. The major landforms are high-level plateaus, structural hills and valleys and pediments and pediplains. The altitude varies from 400 to 600 m amsl. In the plains of Indravati River covering central parts, and along the Shabri River, covering southeastern parts the altitude varies from 250 to 300 m amsl.

The Chhattisgarh Plain

It is spread over the central part of the State and covers parts of Bilaspur, Mungeli, Janjgir-Champa, Mahasamund, Dhamtari, Raipur, Balodabazar, Gariyaband Durg, Balod, Bemetara, Rajnandgaon and Kawardha districts. It forms the structural plains on Proterozoic rocks and mature pediplain with remnants of few isolated hills and ridges in between flood plains of numerous tributaries of Mahanadi River system. It is characterised by a gently undulating and flat terrain. The overall altitude varies from 750 m amsl on northwestern parts of the area to 284 m amsl on southeastern parts.

Northern Hilly Region

It covers from north to the north central part of the area and occupies parts of Sarguja, Balrampur, Surajpur Koriya, Korba, Bilaspur, Jashpur and Raigarh districts. It is a part of Maikal and Hazaribagh hill ranges of central India. It represents structural plains of Gondwana rocks, pediment/pediplains, structural and denudational plateaus, structural and denudational hills and valleys. It supports north flowing tributaries of Son River

and south flowing Hasdeo and other tributaries of Mahanadi River. The Narmada, an important west-flowing River of central India, originates from Amarkantak in the central part of this physiographic unit.

The highest point in the State is 1197 m amsl at Tulisi Dongri range in Dantewada district and the lowest point is 50 m amsl at Konta in Dantewada district.

2.2 Drainage

The major Rivers flowing in Chhattisgarh State are given in Table 2.1. The Mahanadi River and its tributaries Seonath, Hasdeo, Mand and Arpa drain part of Raipur, Durg, Rajnandgaon, Bilaspur, Raigarh and Surguja districts. The Indravati River is a tributary to Godavari River and drains the districts of Kanker, Bastar and Dantewada. Most of the Rivers are perennial in nature. The Drainage patterns in the state are dendritic, parallel, angular and radial types. Son is the tributary of Ganga River and drains parts of Sarguja and Koriya districts. Fig. 2.1 shows the physiography and Fig 2.2 shows the drainage existing in the State.

Table 2.1: Major River Basins in Chhattisgarh State

S.No.	Major Rivers	Tributaries	Districts
1.	Ganga 18407 Sq.Km.	Son	Surguja, Koriya, Jashpur and Bilaspur
2.	Mahanadi 75858 Sq.Km.	lb, Hasdeo, Seonath, Tel, Mand	Raipur, Mahasamund, Dhamtari and parts of Durg, Rajnandgaon, Kawardha, Korba, Kanker, Bastar, Surguja, Raigarh and Bilaspur.
3.	Godavari 38694 Sq.Km.	Indravati, Sabari Wain ganga	Parts of Durg, Bastar, Rajnandgaon, Kanker and Dantewada
4.	Narmada 744 sq.Km.	Narmada	Parts of Rajnandgaon, Bilaspur, and Kawardha
5.	Bramhani 1394 sq.Km.	Sankh	Part of Jashpur

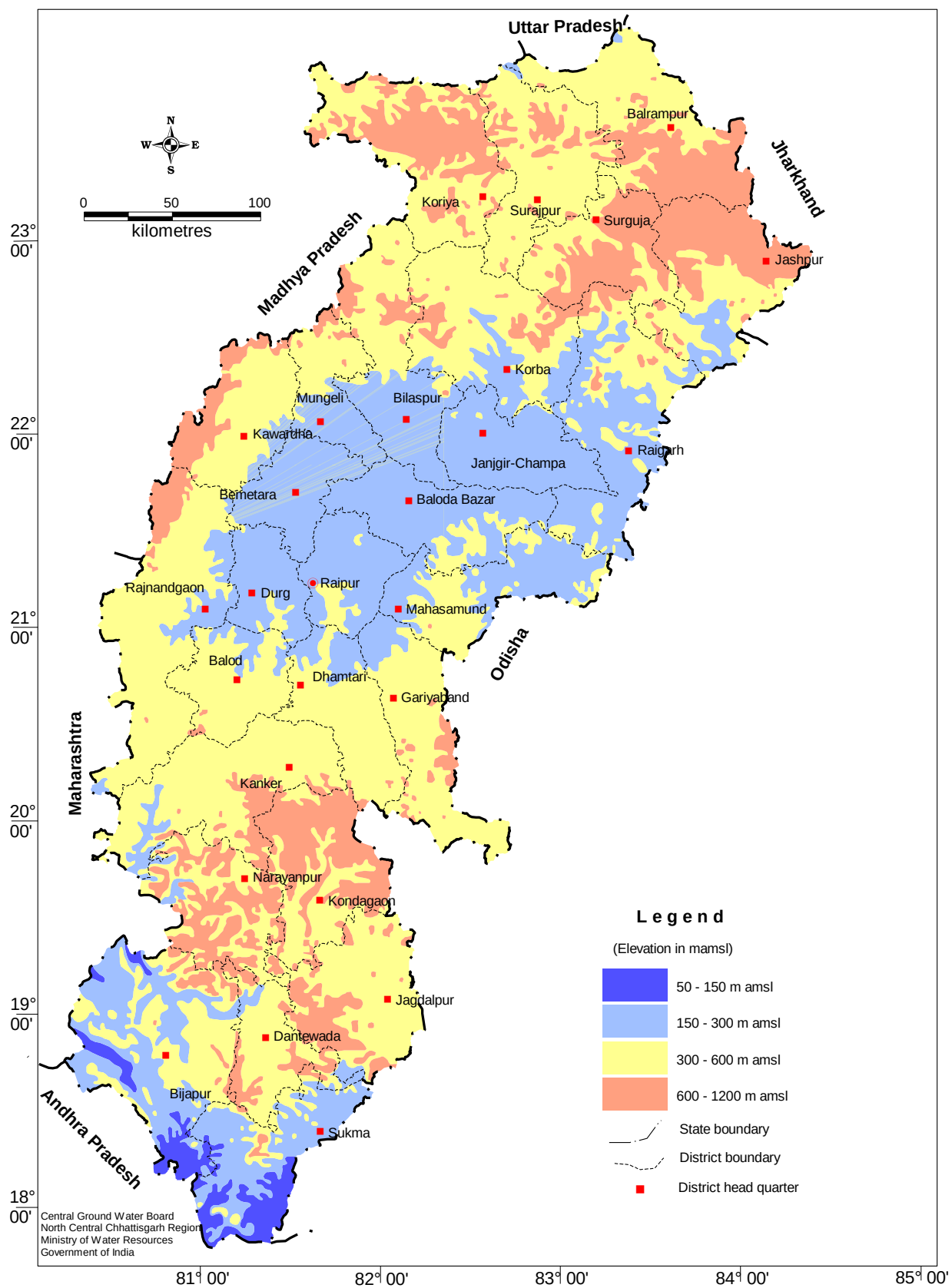


Fig 2.1 Physiography of Chhattisgarh state

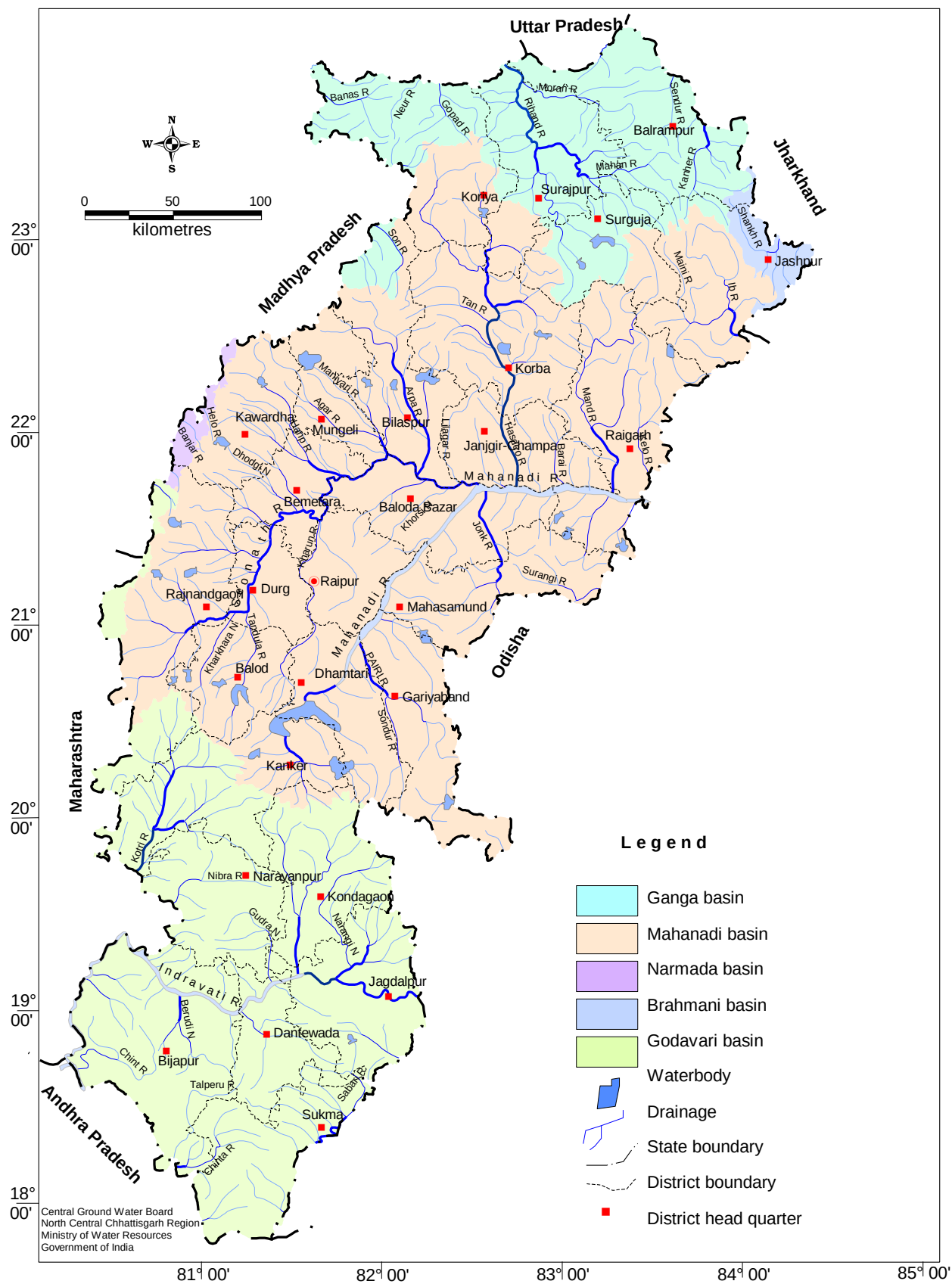


Fig 2.2 Drainage map of Chhattisgarh state

3. CLIMATE AND RAINFALL

3.1 Rainfall

The region is endowed with sub-tropical monsoon climate with three distinct seasons i.e. summer, monsoon, and winter. The southwest monsoon starts from June and continues till middle of September. Winter season spreads from October to February. Summer season extends from March to middle of June. Rainfall is the major source of ground water recharge in the area and receives maximum (85%) rainfall during the southwest monsoon season. The winter rainfall is meagre (10 - 15%). The Indian Meteorological Department (IMD), various State Government departments; Agricultural Universities etc. are maintaining number of rain gauge stations which comes to more than 200 in the State. The isohyetal map is shown in Fig 3.1.

Table 3.1 shows the District wise annual rainfall in mm for Chhattisgarh for the eight years.

Table 3.1 District wise average annual Rainfall (mm) of Chhattisgarh

Sl. No.	District	Year								Average
		2007	2008	2009	2010	2011	2012	2013	2014	
1	Bastar	1259.2	1398.3	1038.3	1623.2	1160.5	1320	1434.5	1476.6	1338.82
2	Bilaspur	1269.4	1047	854.8	973.9	1290.1	1189	1449.5	1348.2	1177.73
3	Dantewara	1685.6	1206	709.1	1631.2	1219.7	1254		1440.2	1306.54
4	Dhamtari	1007.2	901	1113	1211.1	1102.4	1130	1462.1	1289.2	1152
5	Durg	1068.5	904.8	794.9	1149.7	1282.3	1197	1568	1379.7	1168.11
6	Janjgir-Champa	1396	1404.6	873.7	1212.6	1319.6	1256	1224.8	1169.7	1232.12
7	Jashpur	1233.5	1412	1064	1133.9	1858.7	1298	1003.3	786.2	1223.7
8	Kanker	1235.7	652.2	868.6	1480.8	1211.5	1205	1622.2	1364.4	1205.05
9	Korba	857.4	1233.6	822.6	1093.1	1490.4	1187	1219.4	1304	1150.93
10	Koriya	1318.7	998.4	816.9	702.2	1808.7	1254	1606.5	1511.4	1252.1
11	Kawardha	654.5	694.7	612.4	1225	1028.2	943	1074	1289.1	940.11
12	Mahasamund	1174.6	944.9	1190.1	1130	1298.6	1234	1511.3	1519.8	1250.41
13	Raigarh	1291.8	1513.9	978.2	988.3	1288.5	1200	1221.3	1227.8	1213.72
14	Raipur	1434.2	1114.5	948.3	1109.1	1322.9	1232	1443.6	1233.2	1229.72
15	Rajnandgaon	769.8	812.7	734.9	1221.9	1169.8	1075	1470.1	1119	1046.65
16	Surguja	1153.4	1019.6	616.8	596.7	1383.6	1009	809	840	928.51
Chhattisgarh										

Source: India Meteorological Department (IMD)

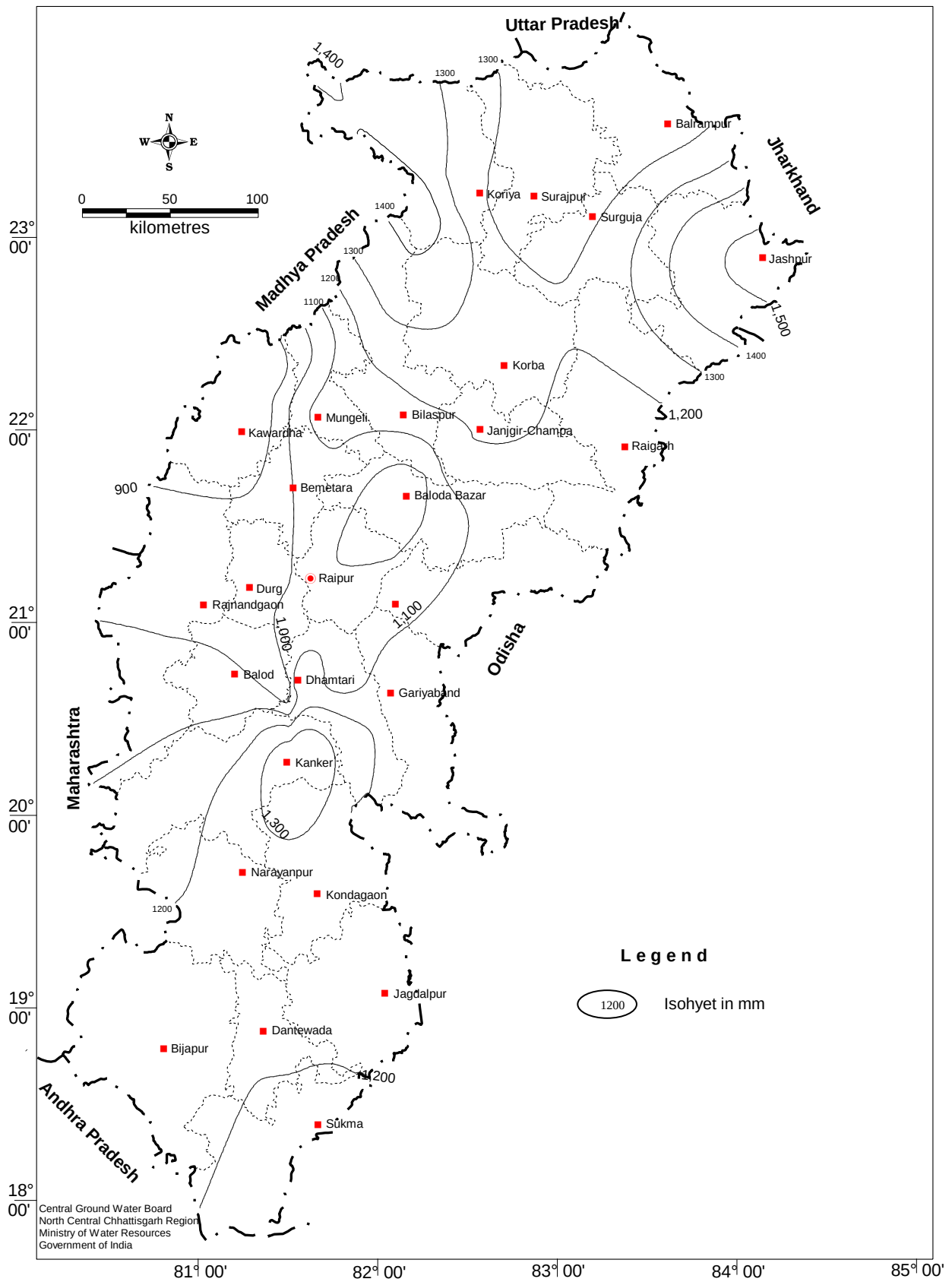


Fig 3.1 Isohyetal map of Chhattisgarh

3.1 Temperature

The State experiences sub-tropical climate characterized by extreme summer and moderate winter. The summer extends from March to mid June and May is the hottest month. The mean daily maximum temperature during the month of May goes upto 46°C. The winter season lasts till end of February. January is the coldest month with the mean daily maximum temperature at 30°C and the mean daily minimum temperature at 10.2°C. In Raipur area, the average temperature varies from 13°C during winter to 46°C in summer. However, in the plateau areas on the northern part, the variation was from 10°C in winters to 39°C in summers.

4. SOIL AND LANDUSE

4.1 Soil

The soils in the upper reaches of the drainage are shallow, young and are eroding in nature. Changes in soil properties indicate the drainage conditions, transport of eroded material and redeposition of soil constituents. Down the slope, the soil depth, water holding capacity, ion exchange capacity, and preponderance of calcium and magnesium increases. The colour changes from red to dark brown. The texture also changes from sandy loam to clayey, and sticky to very sticky. The various soil types existing in the State and their suitability for various crops is enumerated in Table 4.1 and fig 4.1.

Table 4.1: Distributions of Soils and suitability of crops in Chhattisgarh State

Type of soil	Parent Rock	Distribution (Districts/tehsils)	Suitable Crops
Red-yellow soil (Matasi)	Gondwana, Chhattisgarh Supergroup	Surguja, Koriya, Jashpur, Raigarh, Korba, Bilaspur Kawardha, Durg, Raipur, Dhamtari and and Mahasamund districts	Paddy
Red-sandy soil	Archaean Granite	Bastar, Dantewada, Kanker, Durg, Rajnandgaon and Dhamtari districts	Kodo-Kutki, Jawar, Maize, Potato Coarse grains etc
Red-domat soil	Archaean Granite	Dantewara and Konta tehsils	Paddy
Laterite soil	Mixed	Bagicha, Samri, Sitapur, Ambikapur, Kawardha, Chhui-Khaddan, Saja, Bemetera and Jagdalpur tehsils	Potato, Jawar, Kuddo-Kutti, Oilseeds, Pulses etc.
Black soil	Mixed	Mungeli, Ariya, Raipur, Rajim, Mahasamund, Kurud and Kawardha tehsils	Paddy, Wheat, Cotton, Gram, Sugarcane And Rabi crops

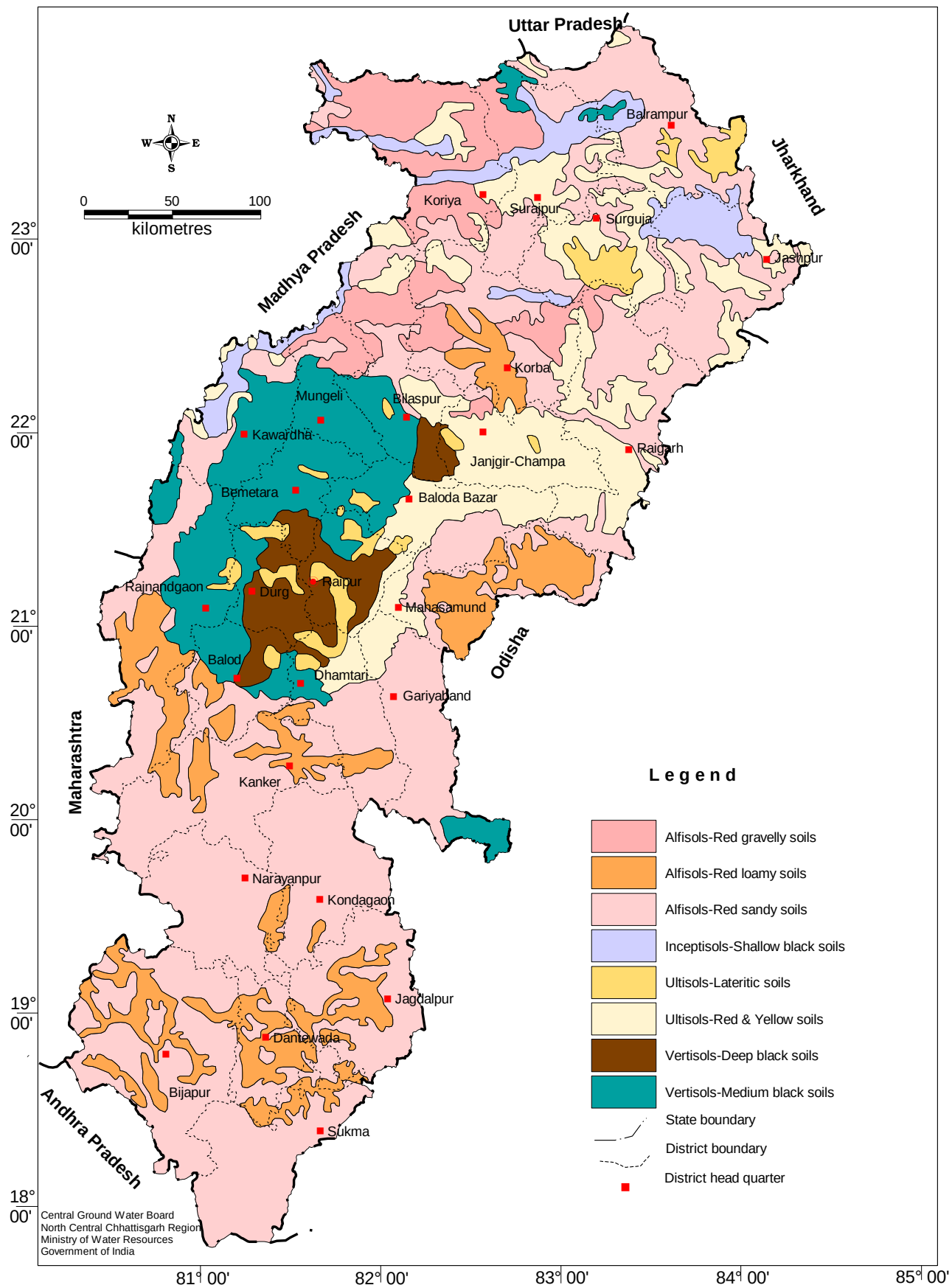


Fig 4.1 Distribution of soil in the State

4.2 Land use

The land use pattern is an important index of the human, social, cultural, and economic developments. As per the available statistics (Department of Statistics, Govt. of Chhattisgarh), 6352413 Ha. (46 %) of the total area in the State is covered by forests. The forests include protected forests, reserved forests, revenue forests and others. Nearly 85.14 % of Narayanpur district (638801 Ha) is covered and also area wise Narayanpur district has the maximum forest cover (638801 Ha). Bemetara district has the lowest forest cover in terms of percentage of the total area (0.015 %,40 Ha) and also area wise Bemetara has the lowest forest cover (40Ha).The net sown area in Chhattisgarh is just 33.87% (4671469Ha).The double cropped area is 1019386 Ha. Nearly 37 % of the net sown area has irrigation facilities. Land use map is presented in fig 4.2.

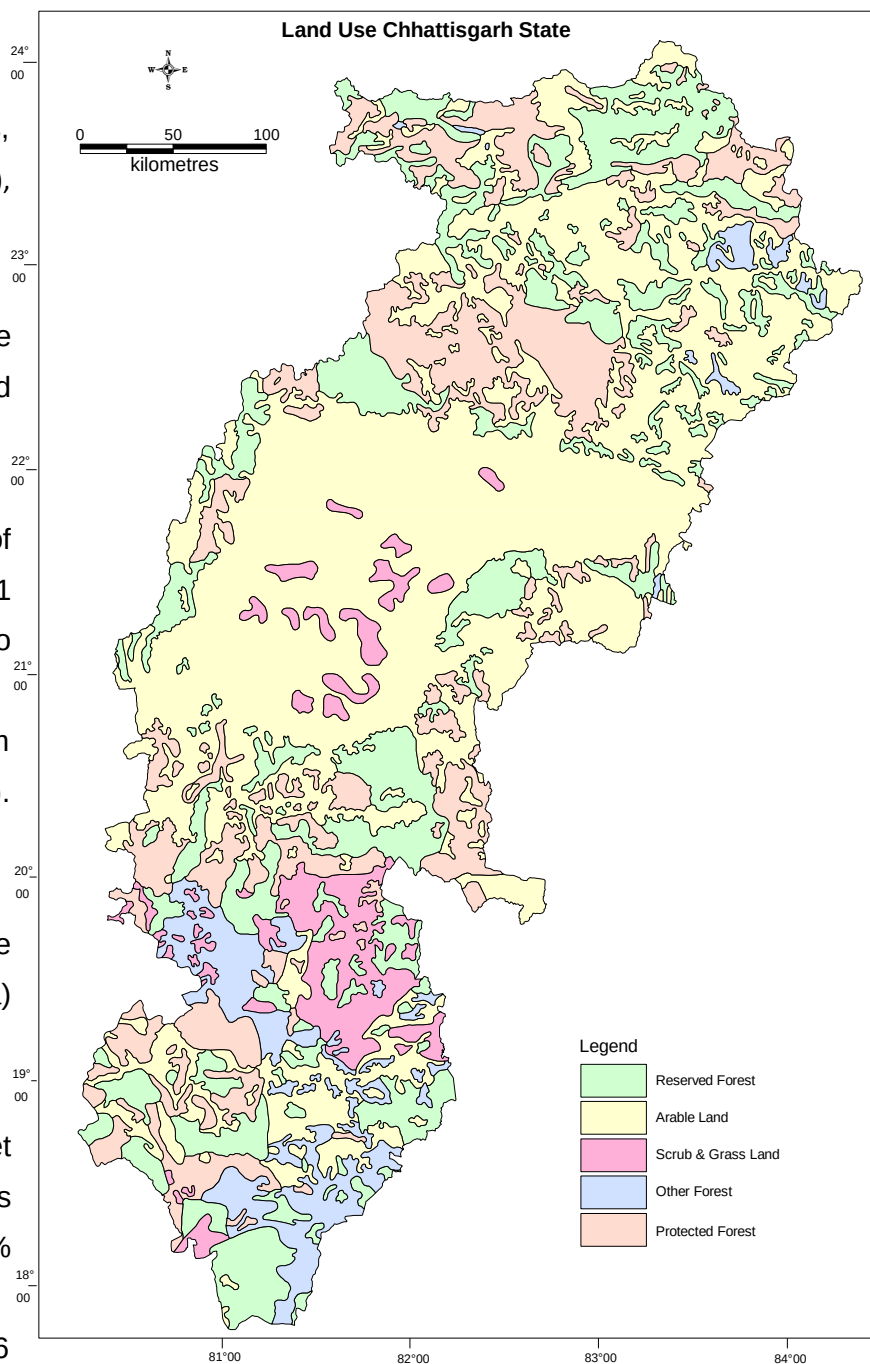


Fig 4.2 Landuse map of the State

5. HYDROGEOLOGICAL CONDITIONS

The occurrence and movement of ground water is related to the existing geology of the area. The State is underlain by various rock types belonging to different geological ages, from Azoic to Quaternary. The major litho units are shown in Fig. 5.1 and the general geological succession is given in Table 5.1.

Nearly 58 % of the State is covered by Crystalline and Metamorphic rocks, around 27 % of the area is covered by Chhattisgarh Group of rocks. The semi-consolidated Gondwana Supergroup of rocks covers 13 % of the area and the remaining 2 % by Daccan trap, Lameta, Laterite and River Alluvium.

The Archaean crystallines comprising of granites and gneisses form the major litho unit in the area. The ground water occurs under unconfined to semi-confined conditions. All the districts except Janjgir- Champa are covered by crystallines. The weathered formation and the fractures form the main repository for ground water in these rocks. The second important litho unit in the area is the Proterozoic arenaceous–argillaceous- calcareous rocks of Chhattisgarh, Indravati, Khariyar and Sukma Groups. The weathered formation, caverns, fractures and formation contacts form the potential ground water zones. The karstified argillo –calcareous rocks are much more productive than compact –silicified arenaceous sediments. The gypsum karsts are more intense than calcareous karsts in the Chhattisgarh basin. The overall karstification in Indravati basin is much higher than in the Chhattisgarh basin. Karsts, though few and far in between are the best repository for ground water. These rocks cover the districts of Bastar, Narayanpur, Kondagaon, Dantewada, Bijapur, Sukma, Kanker, Raipur, Dhamtari, Mahasamund, Durg, Rajnandgaon, Kawardha, Bilaspur, Mungeli, Janjgir- Champa, Korba and Raigarh.

The rocks belonging to Gondwana Supergroup are the third major litho unit in the area. The sandstones shows primary and occasional secondary porosity. They form thick and extensive unconfined to confined aquifers extending to a depth of 300 mbgl. At some places free flow conditions are existing and at places the temperature of

ground water goes up to 50°C. The Gondwana formations are covering the districts of Raigarh, Korba, Koriya and Surguja and are exhibiting confined conditions.

Table 5.1: Geological Succession for Chhattisgarh State

Age	Formation	Lithology
Quaternary	Recent to sub recent	Alluvium – clay, silt, sand pebble, gravel, laterite ferruginous concretions
Cenozoic	Deccan traps	Traps with or without intertrappean sediments
Cenozoic, Mesozoic, upper Palaeozoic	Gondwana Super group	Sandstone, shale, conglomerate, quartzite, silt – stone, clay stone.
Proterozoic	Chhattisgarh Super group Chilipi, Kotri, Dongargarh, Iron Ore Super group	Limestone and shale Arkose, conglomerate, sand stone, silt stone, shale Schist, phyllite, slate, gneiss, marble, BHQ.
Azoic	Basement crystallines Basement crystallines	Charnockite, khondalite, granulite, gneisses and meta sediments Granites, gneisses and associated basic and ultra basic intrusive

The unconsolidated formation of Quaternary age comprising alluvium, clay, silt and laterite form as a thin and extensive unconfined aquifer in several isolated patches along major River courses. The thickness of alluvium extending up to a depth of 30 mbgl along Mahanadi, Arpa, Hasdeo, Seonath, Kharun, Mand, Kelo Rivers.

From the hydrogeological point of view, all rock types existing in the State can broadly be divided into three groups as i) the consolidated formations, ii) the semi consolidated formations and iii) the unconsolidated formations. The hydrogeological map of the state is presented in Fig. 5.2.

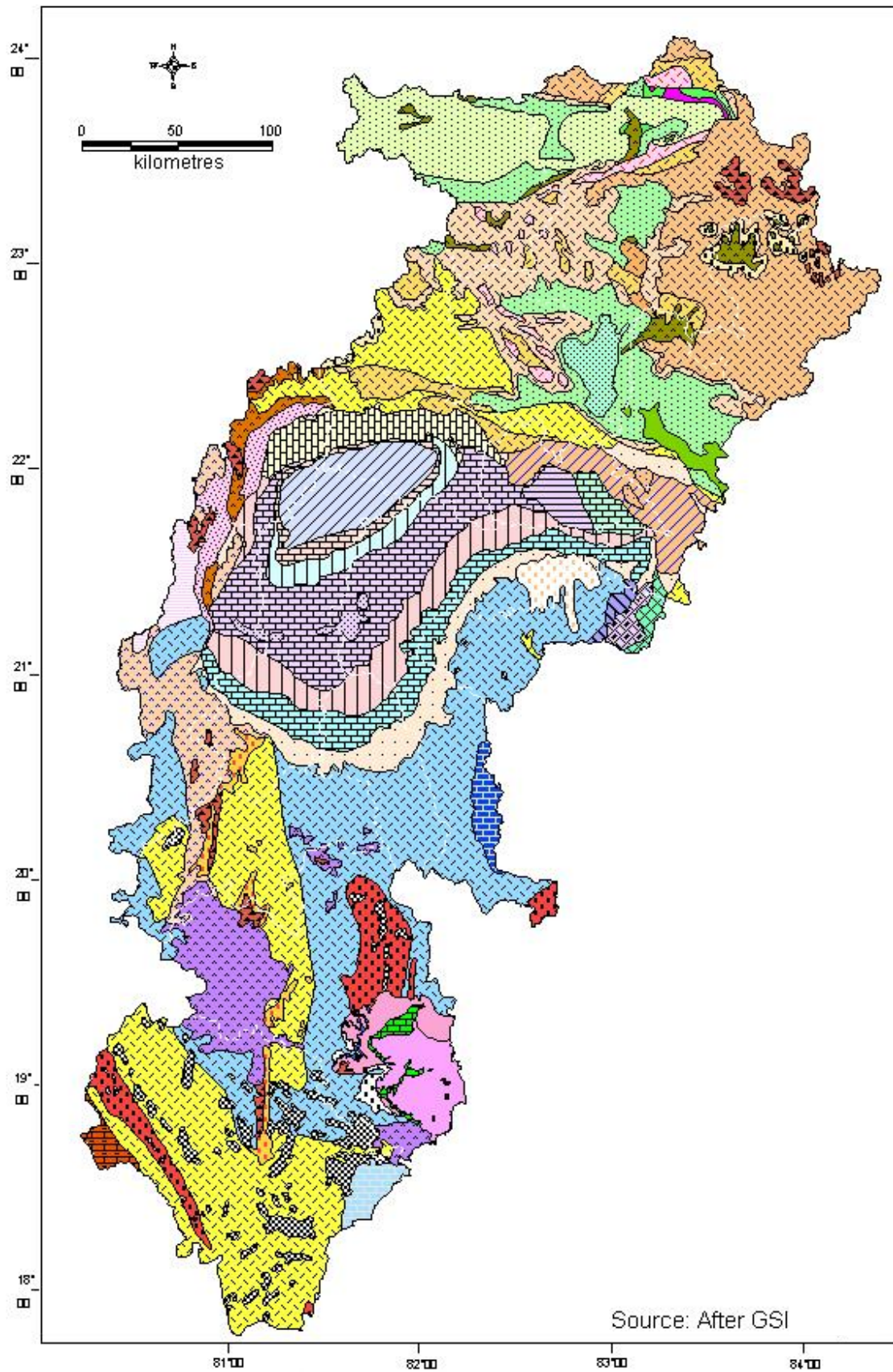


Fig. 5.1: Geological map of Chhattisgarh State

Geology Legend

	Laterites		Kanger Limestone
	Deccan Trap		Cherakur Shale
	Lameta Group		Cherakur Sandstone
	Mahadeva Formation		Tirathgarh Sandstone
	Jabalpur, Parsora, Tiki Formation		Nawagarh Group
	Panchet Formation		Sabri Group
	Kamthi Formation		Pakhal Group
	Barakar Formation		Saraipali Formation
	Raniganj Formation		Chhuipali Formation
	Talchir Formation		Rehalikhol Formation
	Maniari Formation		Chilpi Group
	Hirri Formation		Khairagarh Group
	Saradih Formation		Abujhmar Group
	Tarenga Formation		Bijli Rhyolite
	Chandi Sandstone		Pitepani Volcanics
	Chandi Limestone		Dongargarh Granite
	Bamnidih Formation		Granite of Bilas-Raig-Sug
	Pandaria Formation		Sonakhan Group
	Gunderdehi Formation		Unclassified Metamorphics_BRA
	Charmuria Formation		Bailadila Group
	Raigarh Formation (Sandstone)		Chhotanagpur Gneissic Rocks
	Raigarh Formation		Bastar Gneisses
	Chandrapur Group		Bengpal Group
	Machkot Dolomite		Charnokite- Khondalite Group
	Jagdarpur Formation		

5.1 Consolidated Formations

The consolidated formations include the crystallines and the metamorphosed sedimentary formations belonging to Proterozoic age. They are mainly granites, granite gneisses, schistose rocks, charnockites, quartzites, calcsilicate rocks, shales, phyllites and limestones. These rocks are devoid of primary porosity, the ground water occurs in the secondary porosity resulting from fracturing, jointing and weathering. These hard rock aquifers exhibit considerable variations laterally as well as depth wise. The weathered formation is composed of loose regolith with secondary intergranular porosity, which facilitates free circulation of ground water. Also the fractures at depth form potential repository of ground water. In general the average thickness of weathered formation varies from 15 to 20 m. The ground water occurs under water table conditions. The water bearing fracture zones are generally occurring within a depth of 100m, but deeper potential fractures are also encountered in some of the boreholes.

Deccan Trap basalts are typical hard rock formations. The lava flows are generally 10 to 20 m thick. The top of each flow comprises of 25 to 40 % vesicular/fragmentary basalt. The vesicles are generally filled with secondary minerals like calcite and zeolite. The characteristic red bole beds form the marker horizons and occur as inter-trappean beds between successive flows. Deccan Traps with primary vesicular structure and secondary fractures and joints are moderately productive from ground water point of view. The ground water occurs under both unconfined to semi confined conditions. The Deccan Trap basalts are occurring at few places in the state.

5.2 Semi-consolidated formations

The semi-consolidated formations include Gondwana Supergroup of sedimentary rocks and ranging in age from Upper Carboniferous to Cretaceous. This group includes sandstone, shale, siltstone and conglomerate beds. These formations are generally highly compact and possess less intergranular porosity. The coarse to medium grained, weathered, fractured and friable sandstone forms good aquifer. The ground water occurs under water table conditions in the near surface aquifers and under confined conditions in the deeper aquifers. The depth of weathering in Gondwana Group of rocks generally extends to a depth of 15 m.

5.3 Unconsolidated formations

The unconsolidated formations include alluvium and laterite. Alluvium occurs as discontinuous patches along the River courses where its thickness is limited. The sand and gravel layers act as a good repository for ground water. The ground water occurs under unconfined conditions. The laterites occur as cap rocks on basalts or granites. The laterites are vesicular, essentially ferruginous and form good repository of ground water.

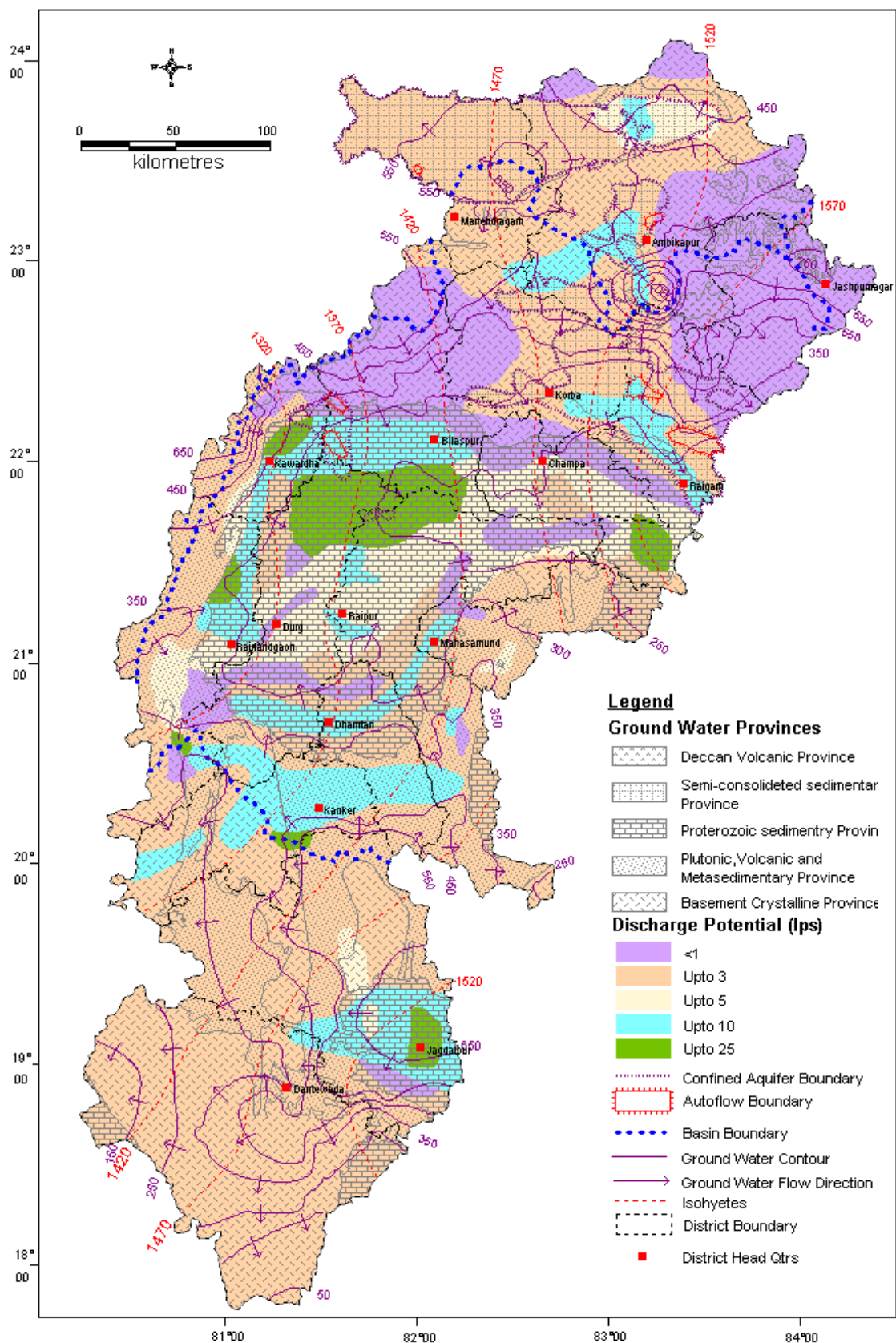


Fig. 5.2: Hydrogeological map of Chhattisgarh State

6. GROUND WATER REGIME MONITORING

Ground water level is not static. It is always under the influence of time-dependant recharge and discharge factors. As a result the water level in the aquifer system fluctuates and the range depends on the period of influence. The recharge is due to many factors such as rainfall, seepage from reservoirs, lakes, ponds, rivers and irrigation, etc. The discharge includes ground water withdrawal through manual and pumping systems, natural seepage to rivers and sea, evaporation from shallow water table and transpiration through vegetation.

The Central Ground Water Board is monitoring the ground water regime through the length and breadth of the country since the year 1969 through a network of Hydrograph Stations (NHS). The density of observation wells is increased from year to year. As on 31st March 2017, a total of 1324 number of observation wells, which included both dug wells (1061) and piezometers (263) were established in Chhattisgarh state for monitoring purposes. Location of the NHS wells is shown in Fig. 6.1.

The hydrograph network stations (NHS) are established permanently and are monitored during every set of measurements. The existing network provides information on ground water regime with fair degree of accuracy. The NHS wells are monitored four times in a year during the following months. They are;

<i>May</i>	<i>- 21st to 31st of the month - represents water level of Pre-monsoon period.</i>
<i>August</i>	<i>- 21st to 31st of the month - represents peak monsoon water level</i>
<i>November</i>	<i>- 1st to 10th of the month- represents water level of Post-monsoon period.</i>
<i>January</i>	<i>- 1st to 10th of the month- represents the recession stage of water level</i>

Water samples were collected from each network station during the month of May 2016 (Pre-monsoon) to assess the chemical quality of ground water.

6.1 Distribution of Hydrograph Network Stations (NHS)

a) District-wise

The total number of hydrograph network stations (NHS) in the State are 1324. Out of these 1061 are dug wells tapping the shallow aquifer and 263 are piezometers tapping both shallow and deeper aquifers. District-wise distribution of the hydrograph network stations is given in Table 6.1 and is also shown in Fig. 6.1.

Table 6.1 District-wise distribution of the hydrograph network stations in the state of Chhattisgarh

Sl No	Name of the District	Total No. of Ground Water Monitoring Wells (As on 31, Mar, 2016)			Total No. of Ground Water Monitoring Wells Established upto March, 2017)			Total No. of Ground Water Monitoring Wells (As on March, 2017)		
		DW	PZ	Total	DW	PZ	Total	DW	PZ	Total
1	Bastar	45	14	59	7	0	7	52	14	66
2	Bilaspur	90	17	107	22	0	21	112	17	129
3	Dhamtari	32	12	44	9	0	9	41	12	53
4	Durg	80	25	105	24	0	22	104	25	129
5	Janjgir-Champa	52	14	66	2	0	2	54	14	68
6	Jashpur	63	11	74	5	0	5	68	11	79
7	Kanker	20	3	23	6	0	6	26	3	29
8	Kawardha	15	10	25	2	0	2	17	10	27
9	Korba	71	30	101	10	0	10	81	30	111
10	Koriya	36	6	42	11	0	11	47	6	53
11	Mahasamund	31	20	51	8	0	8	39	20	59
12	Raigarh	105	30	135	22	0	20	127	30	157
13	Raipur	106	42	148	15	0	15	121	42	163
14	Rajnandgaon	66	8	74	8	0	8	74	8	82
15	Surguja	83	21	104	20	0	20	103	21	124
	Total	890	263	1158	171	0	166	1061	263	1324

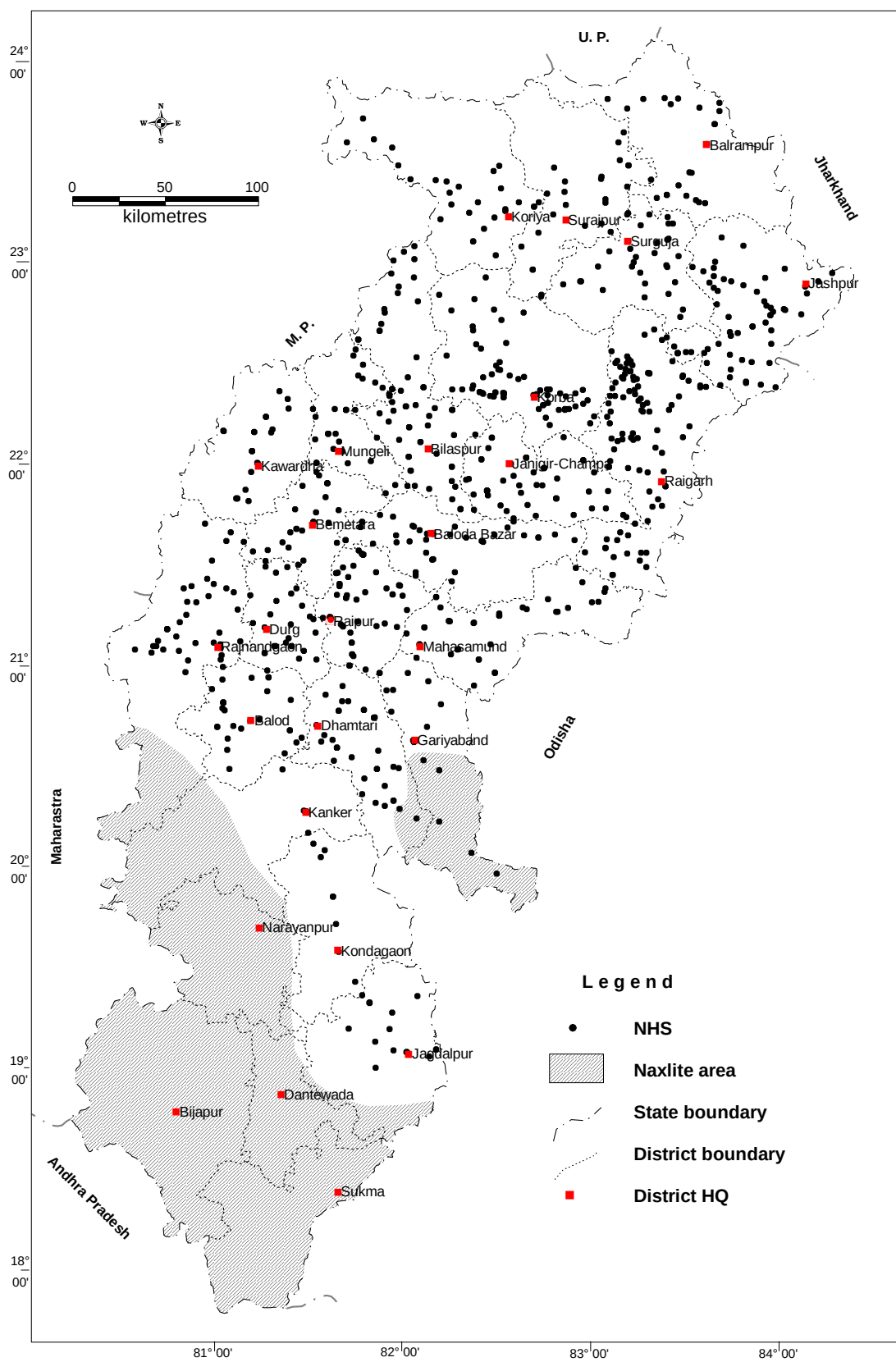


Fig.6.1 Location of NHNS monitoring in Chhattisgarh

7. ANALYSIS OF WATER LEVELS

The ground water levels observed over a period provides valuable information on the behaviour of the ground water regime, which is constantly subjected to changes due to recharge and discharge phenomena. A balance between these two factors results in the decline or rise in the ground water storage. When the recharge exceeds discharge there will be a rise in the ground water storage and vice versa. The decline in water level may be due to increase in draft (for different purposes) or decrease in precipitation (less recharge to ground water). On the other hand a rise in water level may be due to an increase in rainfall and/or due to changes in irrigation practices.

The dug wells are tapping the phreatic aquifer which is mostly limited to a depth of 15 m. The depth of piezometers which are tapping both the phreatic and deeper aquifers varies from 18 to 90 m. Hence the water level recorded in the piezometers may not be the same as that of dug wells for a particular period though both the structures are in the same place. In this report the water level data collected from the dug wells is presented. The water level in some of the wells on the southern part of the State could not be measured due to various reasons. Hence those areas are left blank while preparing different maps.

The NHS (dug wells) water level data collected four times during the year 2016-17 was analysed and for every set of measurements, write up and maps were prepared and are presented here under various paragraphs. The NHS (dug well) water level data is given in Annexure-I. The purpose of water level data analysis is;

- i) Four measurements of depth to water level give an overall idea regarding the ground water level in the state during the year of measurement.
- ii) The fluctuation in comparison to the same month in the previous year gives an idea about the change in the ground water level for a particular period with respect to that of the level during the same month in the previous year. This gives an idea about the change in the amount of draft and rainfall between the two years.

- iii) The water level fluctuation during the pre-monsoon period in comparison to last year gives an idea about the seasonal fluctuation, which ultimately reflects the change in dynamic ground water resources.
- iv) The water level fluctuation during a particular month of measurement with reference to the decadal mean for the same months gives an idea of the behaviour of the ground water level on long-term basis.

7.1 Depth to Water Level

7.1.1 May 2016

In general, the depth to water level range up to 5 mbgl is observed in approximately 16.53% of the wells and depth to water level range up to 10 mbgl is observed in 70.78% of the wells in the state. Deeper water levels ranging between 10 and 20 mbgl occur only in 26.48% of the observation wells and mostly in parts of Koriya, Surguja, Raipur, Dhamtari, Bilaspur and Mahasamund districts. The deepest water level of 28.50 m bgl was monitored in Chakrabhata- d observation well (piezometer) of Bilaspur district.

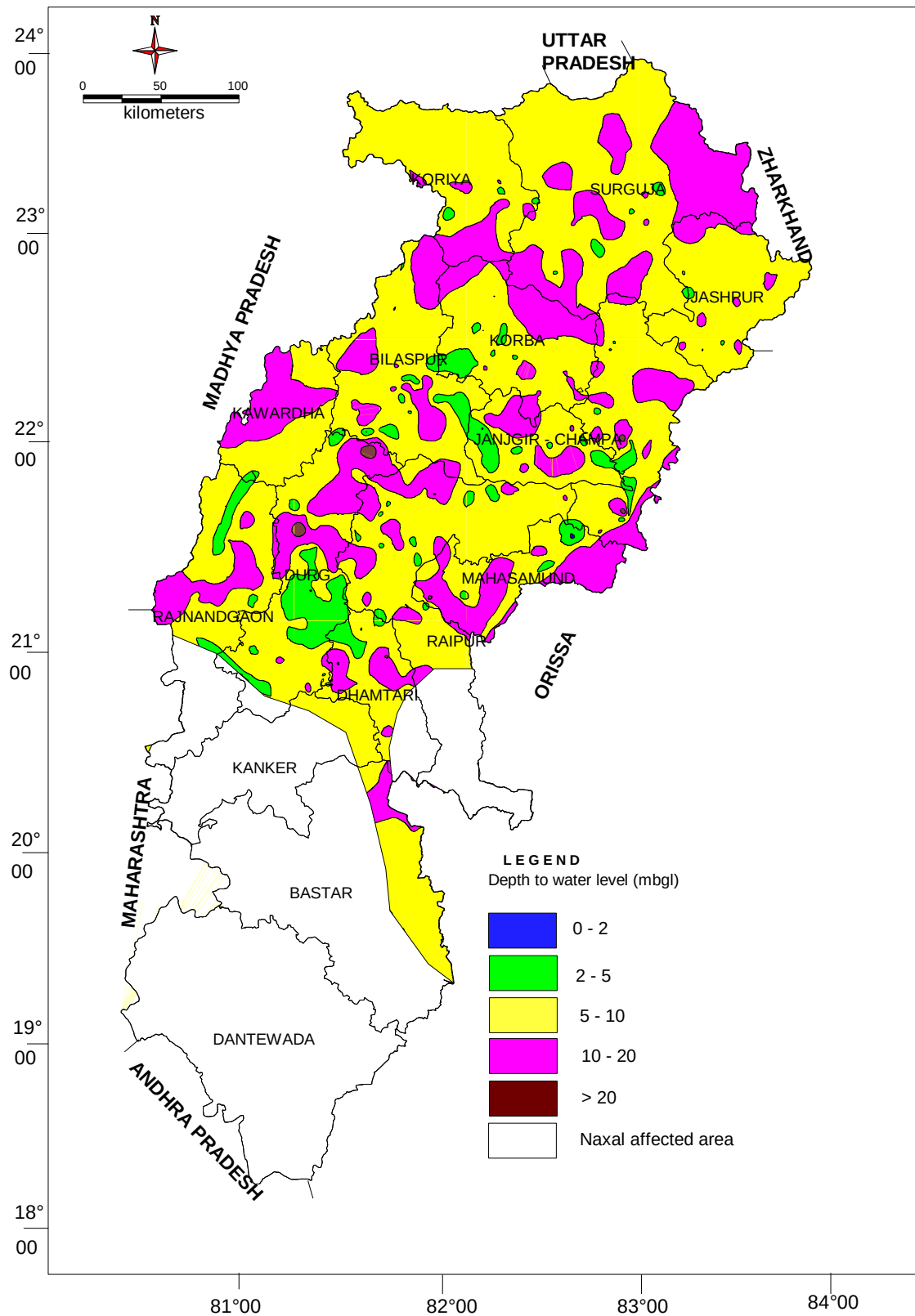
8 numbers of wells (approximately 1.3% of the monitored wells) in the state are showing water levels between 0-2 m bgl in almost all the districts of Chhattisgarh State except Dhamtari, Bastar, Jashpur, Kanker, kawardha, Korba, koriya, Rajnandgaon and Surguja. Water levels in the range of 2-5 m bgl are recorded in about 95 (15.24) of the observation wells monitored. The highest percentages of wells in this range are in Durg (31.58%), Raipur (19.44%), and Jnagjir-Champa (20.93%) districts. Nearly 54.25% of observation wells are exhibiting water level in the range of 5-10 mbgl in most of the districts of the state.

The district wise frequency distributions of different ranges of depth to water level are furnished in Annexure-I. District wise distribution of percentage of observation wells at different ranges of depth to water level as observed in May 2016 are given in Table 7.1 and represented on a map and appended as Fig 7.1.

**Table 7.1 District wise distribution of percentage of observation wells at differen ranges
of depth to water level in May' 2016**

State :	Chhattisgarh								
District	No. of Wells Analysed	Depth to Water Table (mbgl)		No. / Percentage of Wells Showing Depth to Water Table (mbgl) in the Range of					
		Min	Max	0.0 -2.0	2.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 -40.0	> 40.0
BASTAR	17	3.02	18.65	0	3	11	3	0	0
					17.65%	64.71%	17.65%		
BILASPUR	69	1.80	28.50	2	12	37	17	1	0
				2.90%	17.39%	53.62%	24.64%	1.45%	
DHAMTARI	28	2.10	24.10	0	3	14	8	3	0
					10.71%	50.00%	28.57%	10.71%	
DURG	57	1.63	25.55	1	18	22	12	4	0
				1.75%	31.58%	38.60%	21.05%	7.02%	
JANJGIR - CHAMPA	43	1.85	23.76	2	9	20	10	2	0
				4.65%	20.93%	46.51%	23.26%	4.65%	
JASHPUR	55	4.10	19.07	0	4	43	8	0	0
					7.27%	78.18%	14.55%		
KANKER	4	6.21	12.09	0	0	3	1	0	0
						75.00%	25.00%		
KAWARDHA	17	4.60	24.55	0	1	10	4	2	0
					5.88%	58.82%	23.53%	11.76%	
KORBA	47	3.25	14.47	0	9	27	11	0	0
					19.15%	57.45%	23.40%		
KORIYA	21	2.85	17.15	0	3	9	9	0	0
					14.29%	42.86%	42.86%		
MAHASAMUND	27	1.51	24.60	1	2	9	14	1	0
				3.70%	7.41%	33.33%	51.85%	3.70%	
RAIGARH	66	2.00	25.85	1	7	43	13	2	0
				1.52%	10.61%	65.15%	19.70%	3.03%	
RAIPUR	72	1.99	27.00	1	14	34	21	2	0
				1.39%	19.44%	47.22%	29.17%	2.78%	
RAJNANDGAON	37	2.56	13.50	0	6	22	9	0	0
					16.22%	59.46%	24.32%		
SURGUJA	63	3.00	19.50	0	4	34	25	0	0
					6.35%	53.97%	39.68%		
Total	623	1.51	28.50	8	95	338	165	17	0

Fig 1 Depth to water level map (May'2016)



7.1.2 August 2016

In general, the depth to water level range up to 5 mbgl is observed in approximately 80% of the wells and depth to water level range up to 10 mbgl is observed in approximately 95.6% of the wells in the state. Deeper water levels ranging between 10 and 20 mbgl occur only in 3.85% of the observation wells and mostly in parts of Bilaspur, Durg, Dhamtari, Kawardha, Raigarh, Korba, Mahasamund and Surguja districts. The deepest water level of 36.60 mbgl was monitored in Chakrabhata-d observation well (Shallow piezometer) of Bilaspur district.

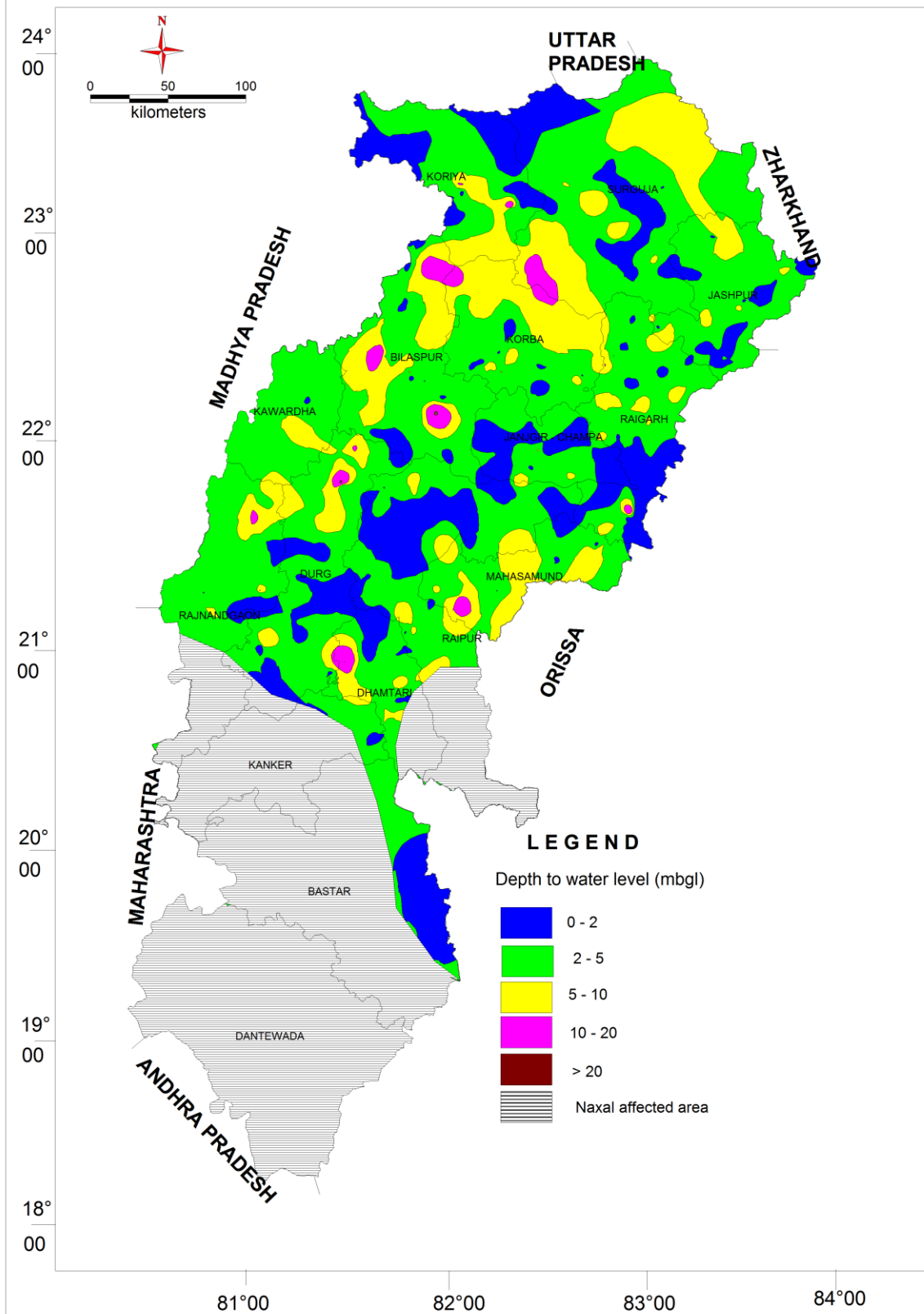
215 numbers of wells (approximately 34.5% of the monitored wells) in the state are showing water levels between 0-2 m bgl in almost all the districts of Chhattisgarh State. Water levels in the range of 2-5 m bgl are recorded in about 289 of the observation wells monitored (approximately 46.38%). The highest percentages of wells in this range are in Surguja (40.68%), Korba (55.10%), Kawardha (72.73%), Bilaspur (56.34%), Raigarh (46.97%), Mahasamund (50%), Jashpur (58.93%) and Rajnandgaon (65.63%) districts. Nearly 15% of observation wells are exhibiting water level in the range of 5-10 mbgl in most of the districts of the state.

The district wise frequency distribution of different ranges of depth to water level are furnished in Annexure-I and II. District wise distribution of percentage of observation wells at different ranges of depth to water level as observed in August'2016 are given in Table 7.2 and represented on a map and appended as Fig 7.2.

Table 7.2 District wise distribution of percentage of observation wells at different ranges of depth to water level in August' 2016

State	Chhattisgarh								
District	No. of Wells Analysed	Depth to Water Table (mbgl)		No. / Percentage of Wells Showing Depth to Water Table (mbgl) in the Range of					
		Min	Max	0.0 -2.0	2.0-5.0	5.0-10.0	10.0-20.0	20.0-40.0	>40.0
BASTAR	22	1.32	10.04	10	11	0	1	0	0
				45.45%	50.00%		4.55%		
BILASPUR	71	0.35	36.30	12	40	15	3	1	0
				16.90%	56.34%	21.13%		1.41%	
DHAMTARI	26	1.00	20.18	10	9	6	0	1	0
				38.46%	34.62%	23.08%		3.85%	
DURG	56	0.55	21.50	19	26	7	3	1	0
				33.93%	46.43%	12.50%	5.36%	1.79%	
JANJGIR - CHAMPA	44	0.50	9.70	25	14	5	0	0	0
				56.82%	31.82%	11.36%			
JASHPUR	56	0.40	9.90	16	33	7	0	0	0
				28.57%	58.93%	12.50%			
KANKER	6	1.28	4.08	3	3	0	0	0	0
				50.00%	50.00%				
KAWARDHA	11	1.87	13.40	2	8	0	1	0	0
				18.18%	72.73%		9.09%		
KORBA	49	1.00	11.40	9	27	12	1	0	0
				18.37%	55.10%	24.49%	2.04%		
KORIYA	27	0.65	14.90	12	9	4	2	0	0
				44.44%	33.33%	14.81%	7.41%		
MAHASAMUND	26	1.15	16.42	4	13	7	2	0	0
				15.38%	50.00%	26.92%	7.69%		
RAIGARH	66	0.10	18.10	21	31	11	3	0	0
				31.82%	46.97%	16.67%	4.55%		
RAIPUR	72	0.47	8.60	46	20	6	0	0	0
				63.89%	27.78%	8.33%			
RAJNANDGAON	32	1.24	12.00	6	21	3	2	0	0
				18.75%	65.63%	9.38%	6.25%		
SURGUJA	59	0.65	15.68	20	24	9	6	0	0
				33.90%	40.68%	15.25%	10.17%		
Total	623	0.10	36.30	215	289	92	24	3	0

Fig 7.2 Depth to Water Level Map(August'2016)



7.1.3 November 2016

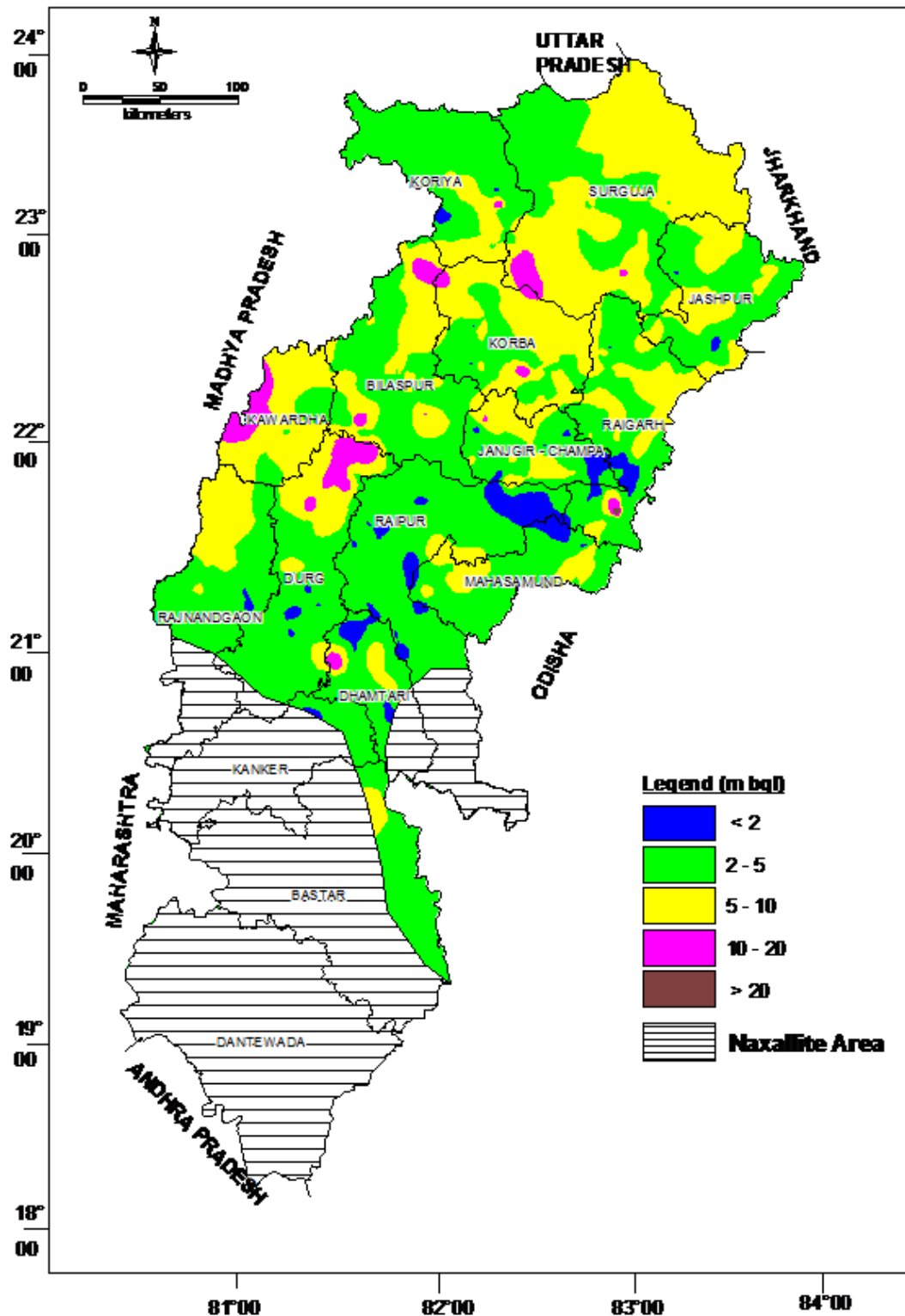
In general, the depth to water level from 2 to 5 mbgl is observed in approximately 57.92% of the wells and depth to water level from 5 to 10 mbgl is observed in approximately 25.20% of the wells in the state. Deeper water levels ranging between 10 and 20 mbgl occur only in 5.67% of the observation wells and mostly in parts of Bilaspur, Durg, Kawardha, Raigarh and Surguja districts. The deepest water level of 29.40 m bgl was monitored in Baramkela observation well (shallow piezometer) of Raigarh district.

66 numbers of wells (approximately 11.01% of the monitored wells) in the state are showing water levels between 0-2 m bgl in almost all the districts of Chhattisgarh State. Water levels in the range of 2-5 m bgl are recorded in about 347 (57.92%) of the observation wells monitored. The highest percentages of wells in this range are in Bastar (87.50%), Kanker (42.86%), Jashpur(61.11%), Korba (61.70%), Dhamtari (47.83%), Raipur (69.23%), Koriya (68.00%), Mahasamund (52.00%) and Bilaspur (64.06%) districts. Nearly 25.20% of observation wells are exhibiting water level in the range of 5-10 mbgl in most of the districts of the state.

The district wise frequency distribution of different ranges of depth to water level are furnished in Annexure-I and II. District wise distribution of percentage of observation wells at different ranges of depth to water level as observed in November '2016 are given in Table 7.3 and represented on a map and appended as Fig 7.3.

Table 7.3 District wise distribution of percentage of observation wells at different ranges of depth to water level in November' 2016								
District	No. of Wells Analysed	Depth to Water Table (mbgl)	No. / Percentage of Wells Showing Depth to Water Table (mbgl) in the Range of					
		Min	Max	0.0-2.0	2.0-5.0	5.0-10.0	10.0-20.0	20.0-40.0
BASTAR	16	2.16	11.21	0 87.50%	14 6.25%	1 6.25%	1 6.25%	0
BILASPUR	64	1.90	19.70	3 4.69%	41 64.06%	16 25.00%	4 6.25%	0
DHAMTARI	23	1.32	14.74	6 26.09%	11 47.83%	5 21.74%	1 4.35%	0
DURG	52	1.05	21.25	7 13.46%	30 57.69%	8 15.38%	7 13.46%	0
JANJGIR - CHAMPA	43	1.20	11.40	7 16.28%	17 39.53%	18 41.86%	1 2.33%	0
JASHPUR	54	0.80	14.60	2 3.70%	33 61.11%	17 31.48%	2 3.70%	0
KANKER	7	1.30	5.31	3 42.86%	3 42.86%	1 14.29%	0	0
KAWARDHA	15	1.55	19.08	2 13.33%	3 20.00%	7 46.67%	3 20.00%	0
KORBA	47	1.45	14.47	2 4.26%	29 61.70%	14 29.79%	2 4.26%	0
KORIYA	25	1.11	14.49	3 12.00%	17 68.00%	3 12.00%	2 8.00%	0
MAHASAMUND	25	1.55	12.18	3 12.00%	13 52.00%	8 32.00%	1 4.00%	0
RAIGARH	67	1.00	29.40	7 10.45%	37 55.22%	19 28.36%	3 4.48%	1 1.49%
RAIPUR	65	0.94	5.64	18 27.69%	45 69.23%	2 3.08%	0	0
RAJNANDGAON	33	1.60	8.00	3 9.09%	23 69.70%	7 21.21%	0	0
SURGUJA	63	2.18	15.44	0 49.21%	31 39.68%	25 39.68%	7 11.11%	0
Total	599	0.80	29.40	66	347	151	34	1

Fig 7.3 Depth to water level map (November'2016)



7.1.4 January 2017

In general, the depth to water level range up to 5 mbgl is observed in approximately 38.90% of the wells and depth to water level range up to 10 mbgl is observed in approximately 89.20% of the wells in the state. Deeper water levels ranging between 10 and 20 mbgl occur only in 8.96% of the observation wells and mostly in parts of Bilaspur, Durg, Janjgir- Champa, Kawardha and Surguja districts. The deepest water level of 29.15 m bgl was monitored in Sambalpur observation well (piezometer) of Durg district.

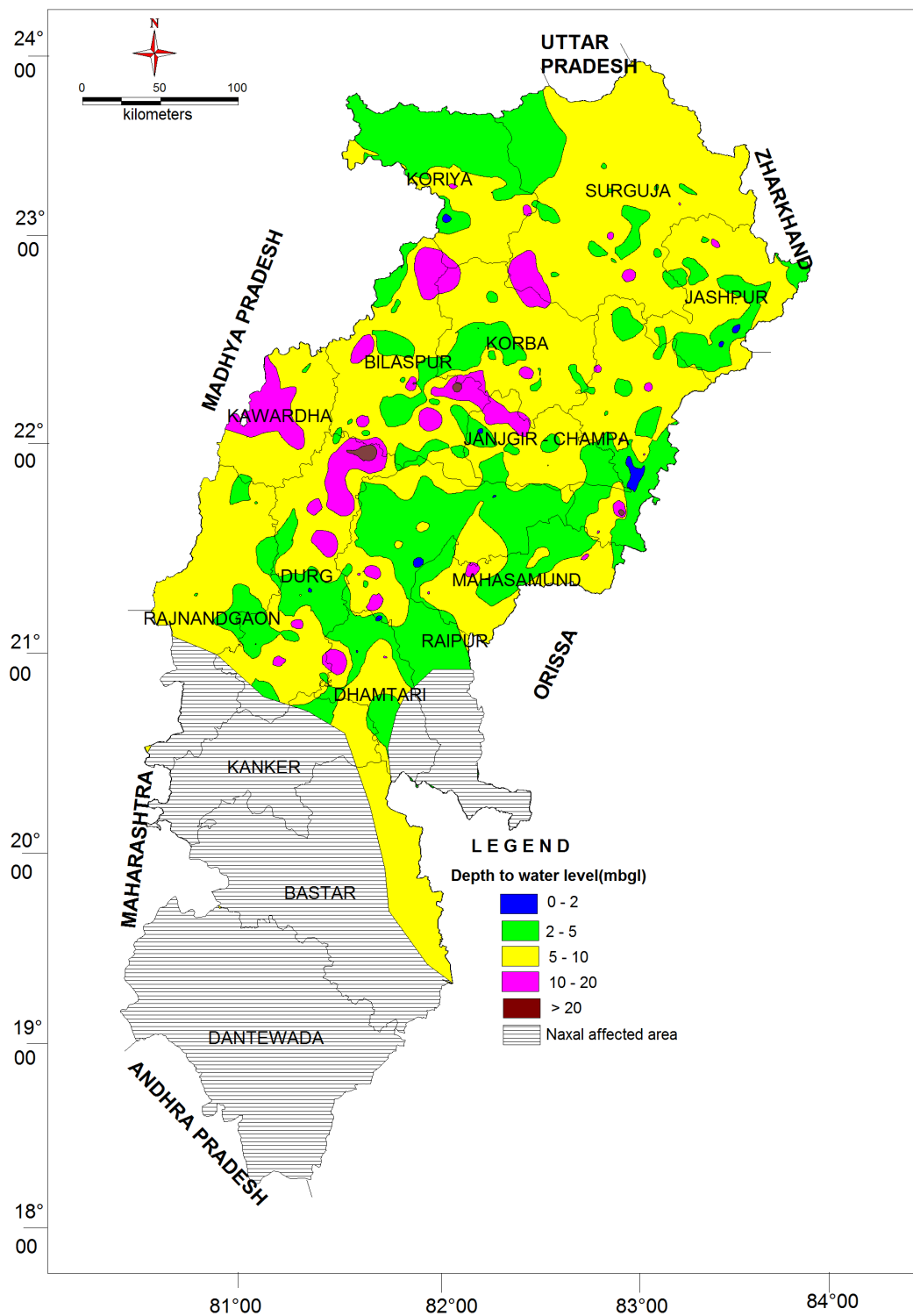
17 numbers of wells (2.58% of the monitored wells) in the state are showing water levels between 0-2 m bgl in almost all the districts of Chhattisgarh State. Water levels in the range of 2-5 m bgl are recorded in about 239 (36.32%) of the observation wells monitored. The highest percentages of wells in this range are in Raipur (63.77%), Dhamtari (53.85%), Mahasamund (40.74%), Rajnandgaon (39.39%), Korba (35.56%), and Jashpur (35.19%) districts. Nearly 50.30% of observation wells are exhibiting water level in the range of 5-10 mbgl in most of the districts of the state.

The district wise frequency distribution of different ranges of depth to water level are furnished in Annexure-I and II. The district wise frequency distributions of different ranges of depth to water level are furnished in Table 7.4. Different ranges of depth to water table as observed in January 2017 are represented on a map and appended as Fig 7.4

Table 7.4 District wise distribution of percentage of observation wells at different ranges of depth to water level in Jan' 2017

District	No. of Wells Analysed	Depth to Water Table (mbgl)	No. / Percentage of Wells Showing Depth to Water Table (mbgl) in the Range of					
			Min	Max	0.0-2.0	2.0-5.0	5.0-10.0	10.0-20.0
BASTAR	25	3.441	11.56	0	7 28.00%	17 68.00%	1 4.00%	0
BILASPUR	78	1.85	21.00	1 1.28%	28 35.90%	37 47.44%	7 8.97%	5 6.41%
DANTEWADA	2	6.19	7.81	0	0	2 100.00%	0	0
DHAMTARI	26	1.80	18.44	1 3.85%	14 53.85%	9 34.62%	2 7.69%	0
DURG	61	1.50	29.15	1 1.64%	21 34.43%	26 42.62%	9 14.75%	4 6.56%
JANJGIR - CHAMPA	41	1.40	14.90	2 4.88%	12 29.27%	20 48.78%	7 17.07%	0
JASHPUR	54	1.00	15.80	3 5.56%	19 35.19%	29 53.70%	3 5.56%	0
KANKER	13	2.50	7.81	0	4 30.77%	9 69.23%	0	0
KAWARDHA	19	4.00	23.45	0	3 15.79%	9 47.37%	5 26.32%	2 10.53%
KORBA	45	1.87	14.47	1 2.22%	16 35.56%	25 55.56%	3 6.67%	0
KORIYA	31	1.30	12.00	1 3.23%	9 29.03%	19 61.29%	2 6.45%	0
MAHASAMUND	27	2.10	18.87	0	11 40.74%	13 48.15%	3 11.11%	0
RAIGARH	67	1.50	27.20	4 5.97%	21 31.34%	36 53.73%	5 7.46%	1 1.49%
RAIPUR	69	1.31	19.90	3 4.35%	44 63.77%	19 27.54%	3 4.35%	0
RAJNANDGAON	33	2.40	9.00	0	13 39.39%	20 60.61%	0	0
SURGUJA	67	3.09	15.44	0	17 25.37%	41 61.19%	9 13.43%	0
Total	658	1.00	29.15	17	239	331	59	11

Fig 7.4 Depth to water level map(Jan'2017)



7.2 Water Level Fluctuation

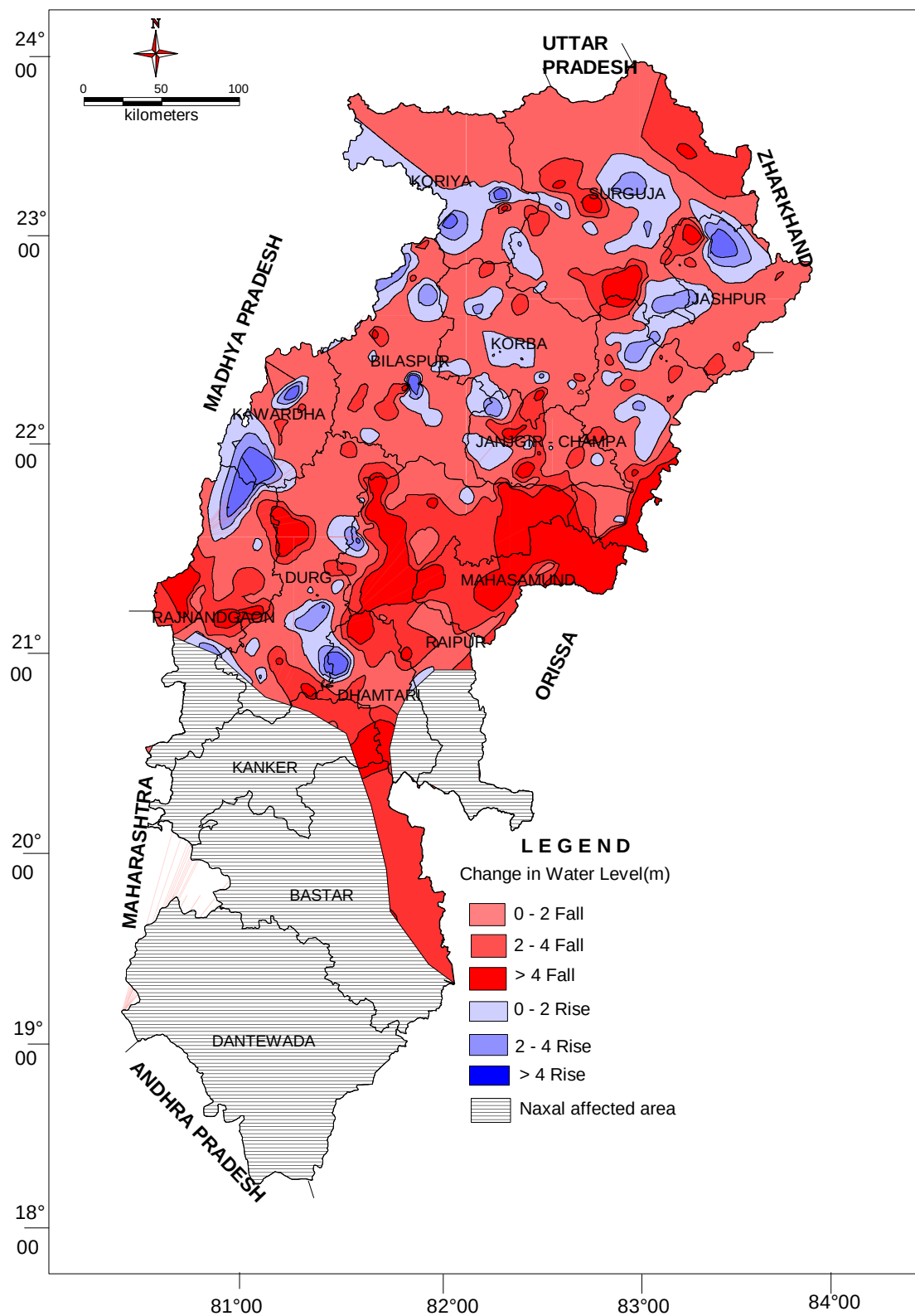
7.2.1 May 2015 vs May 2016

When compared to water level in May 2015, nearly 20.31% of the observation wells are showing rise in water level in May' 2016. Rise of water level in the range of 0-2 m is observed in 13.02 % of the wells distributed in almost all the districts. Rise of water level in the range of 2-4 m is observed in 4.40 % of the wells distributed in almost all the districts except, Mahasamund, Kanker, Dhamtari, Kawardha and Koriya districts. Rise of water level by more than 4 m is also observed in 2.87 % of the monitored wells except Bastar, kanker, Korba, Surguja and Mahasamund districts. Fall of water level is recorded in nearly 79.12 % of the monitored wells. Fall of water level in the range of 0-2 m, 2-4 m and more than 4 m are observed in 49.61%, 15.7% and 13.8% of the monitored wells, respectively in the State.

The district wise frequency for different fluctuation ranges is presented in Table 7.5. Different ranges of fluctuation in May 2016 as compared to May 2015 are represented on a map and appended as Fig 7.5 and Table 7.5.

Table 7.5 District wise frequency for different fluctuation ranges between May'2015 Vs May'2016													
State	Chhattisgarh												
District Name	No. of Wells	Range of Fluctuation (m)				No. of Wells/Percentage Showing Fluctuation						Total No. of Wells	
		Rise		Fall		Rise			Fall			Rise	Fall
		Min	Max	Min	Max	0 to 2	2 to 4	>4	0 to 2	2 to 4	>4		
BASTAR	9	-	-	0.93	7.42	0	0	0	3	3	3	0	9
									33.33%	33.33%	33.33%		
BILASPUR	65	0.06	27.97	0.05	24.70	7	3	1	38	10	5	11	53
						10.77%	4.62%	1.54%	58.46%	15.38%	7.69%		
DHAMTARI	19	8.78	8.78	0.24	8.80	0	0	1	8	6	4	1	
								5.26%	42.11%	31.58%	21.05%		
DURG	47	0.27	7.91	0.17	37.58	5	1	2	25	7	7	8	39
						10.64%	2.13%	4.26%	53.19%	14.89%	14.89%		
JANJGIR - CHAMPA	42	0.10	6.52	0.14	14.40	7	1	2	20	5	6	10	31
						16.67%	2.38%	4.76%	47.62%	11.90%	14.29%		
JASHPUR	48	0.05	7.02	0.04	6.81	4	2	1	34	5	1	7	40
						8.33%	4.17%	2.08%	70.83%	10.42%	2.08%		
KANKER	2	-	-	1.42	4.34	0	0	0	1	0	1	0	2
									50.00%		50.00%		
KAWARDHA	16	6.32	11.65	0.60	5.78	0	0	3	9	2	2	3	13
								18.75%	56.25%	12.50%	12.50%		
KORBA	42	0.04	3.20	0.18	6.95	9	4	0	24	4	1	13	29
						21.43%	9.52%		57.14%	9.52%	2.38%		
KORIYA	11	0.06	8.81	0.39	6.46	3	0	2	4	1	1	5	6
						27.27%		18.18%	36.36%	9.09%	9.09%		
MAHASAMUND	21	0.40	0.40	0.22	11.71	1	0	0	3	6	11	1	20
						4.76%			14.29%	28.57%	52.38%		
RAIGARH	59	0.10	4.37	0.16	10.61	11	2	1	33	8	4	14	45
					18.64	18.64%	3.39%	1.69%	55.93%	13.56%	6.78%		
RAIPUR	57	0.44	4.55	0.15	14.07	4	1	1	19	16	16	6	51
						7.02%	1.75%	1.75%	33.33%	28.07%	28.07%		
RAJNANDGAON	33	1.01	9.19	0.20	8.24	1	1	1	20	6	4	3	30
						3.03%	3.03%	3.03%	60.61%	18.18%	12.12%		
SURGUJA	51	0.04	3.34	0.12	11.55	16	8	0	18	3	6	24	27
						31.37%	15.69%		35.29%	5.88%	11.76%		
Total	522	(8.78)	(0.40)	0.04	37.58	68	23	15	259	82	72	106	413

Fig 7.5 Water Level Fluctuation, (May'2015 Vs May'2016)



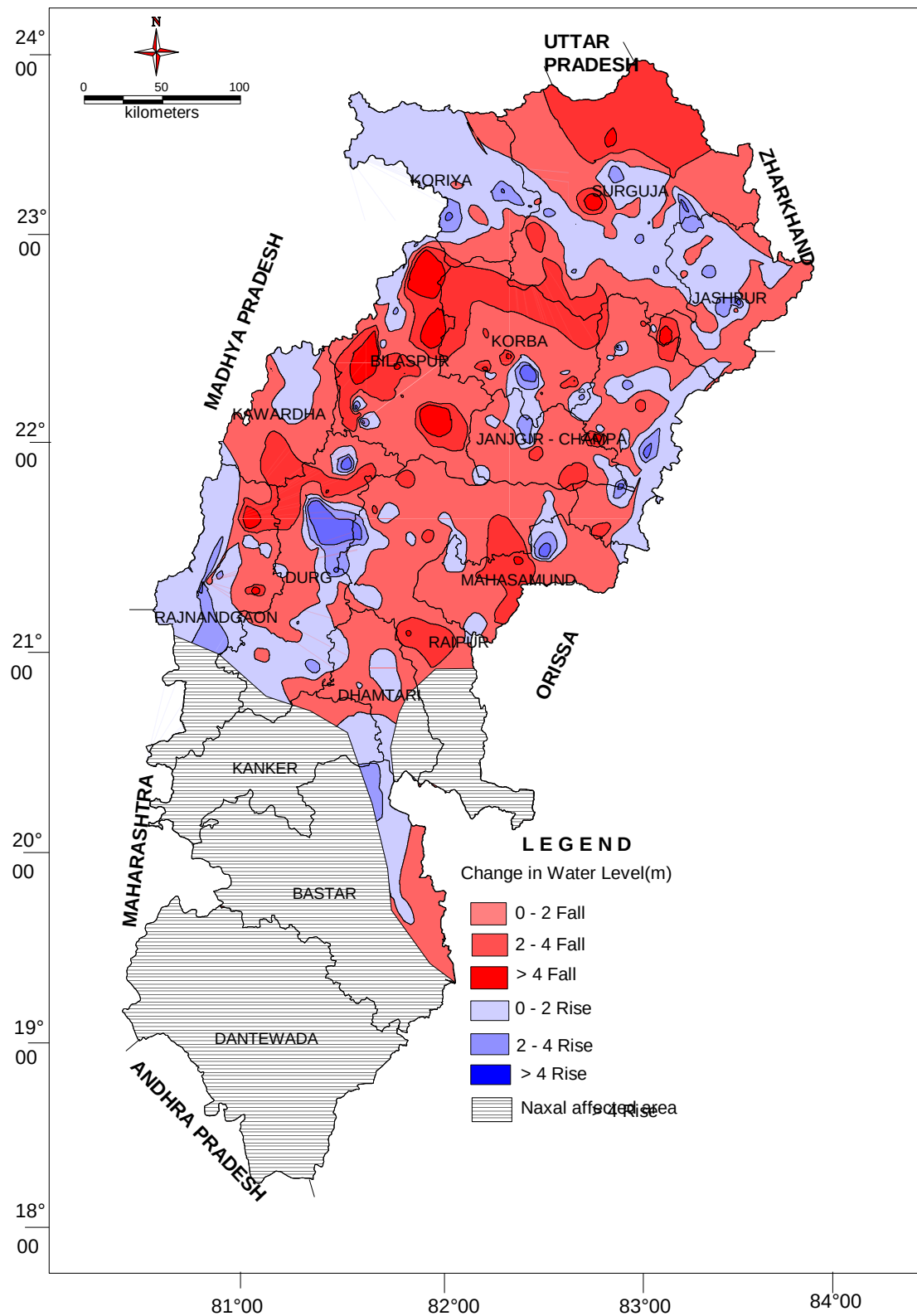
7.2.2 August 2015 vs August 2016

When compared to water level in August 2015, nearly 34% of the observation wells are showing rise in water level in August' 2016. Rise of water level in the range of 0-2 m is observed in 24 % of the wells distributed in almost all the districts. Rise of water level in the range of 2-4 m is observed in 5 % of the wells. Rise of water level by more than 4 m is observed in 4.7% of the monitored wells. Fall of water level is recorded in nearly 65% of the monitored wells. Fall of water level in the range of 0-2 m, 2-4 m and more than 4 m are observed in 49%, 12% and 5% of the monitored wells, respectively in the State.

The district wise frequency for different fluctuation ranges is presented in table 7.6. Different ranges of fluctuation in Aug 2016 as compared to Aug 2015 are represented on a map and appended as fig 7.6.

Table 7.6 District wise frequency for different fluctuation ranges between August'2015 Vs August'2016													
State	Chhattisgarh												
District Name	No. of Wells	Range of Fluctuation (m)				No. of Wells/Percentage Showing Fluctuation						Total No. of Wells	
		Rise		Fall		Rise			Fall			Rise	Fall
		Min	Max	Min	Max	0 to 2	2 to 4	>4	0 to 2	2 to 4	>4		
BASTAR	16	0.08	5.67	0.22	2.14	2	1	1	10	2	0	4	12
						12.50%	6.25%	6.25%	62.50%	12.50%			
BILASPUR	64	0.50	12.20	0.08	19.73	3	3	2	31	14	11	8	56
						4.69%	4.69%	3.13%	48.44%	21.88%	17.19%		
DHAMTARI	13	0.01	0.50	0.08	1.19	4	0	0	9	0	0	4	9
						30.77%			69.23%				
DURG	43	0.02	8.46	0.03	4.12	9	3	5	20	5	1	17	26
						20.93%	6.98%	11.63%	46.51%	11.63%	2.33%		
JANJGIR - CHAMPA	40	0.09	5.18	0.04	3.36	6	1	2	28	3	0	9	31
						15.00%	2.50%	5.00%	70.00%	7.50%			
JASHPUR	51	0.10	11.42	0.05	9.75	21	1	2	21	3	1	24	25
						41.18%	1.96%	3.92%	41.18%	5.88%	1.96%		
KANKER	1	0.05	0.05	-	-	1	0	0	0	0	0	1	0
						100.00%							
KAWARDHA	9	0.40	0.99	0.28	3.26	4	0	0	2	3	0	4	5
						44.44%			22.22%	33.33%			
KORBA	37	0.16	9.68	0.34	5.11	6	2	1	17	7	4	9	28
						16.22%	5.41%	2.70%	45.95%	18.92%	10.81%		
KORIYA	22	0.02	4.43	0.44	0.99	11	4	2	5	0	0	17	5
						50.00%	18.18%	9.09%	22.73%				
MAHASAMUND	16	1.34	5.86	0.83	4.30	2	0	1	9	3	1	3	13
						12.50%		6.25%	56.25%	18.75%	6.25%		
RAIGARH	63	0.05	11.68	0.10	9.62	11	2	2	39	7	1	15	47
						17.46%	3.17%	3.17%	61.90%	11.11%	1.59%		
RAIPUR	52	0.11	6.25	0.05	4.26	11	2	2	31	5	1	15	37
						21.15%	3.85%	3.85%	59.62%	9.62%	1.92%		
RAJNANDGAON	29	0.08	7.01	0.03	8.23	9	2	2	12	2	2	13	16
						31.03%	6.90%	6.90%	41.38%	6.90%	6.90%		
SURGUJA	54	0.11	5.57	0.07	6.49	22	6	2	15	6	2	30	23
						40.74%	11.11%	3.70%	27.78%	11.11%	3.70%		
Total	510	(1.34)	(0.05)	0.00	19.73	122	27	24	249	60	24	173	333

Fig 7.6 Water Level Fluctuation, (Aug'2015 Vs August 2016)



7.2.3 November 2015 vs November 2016

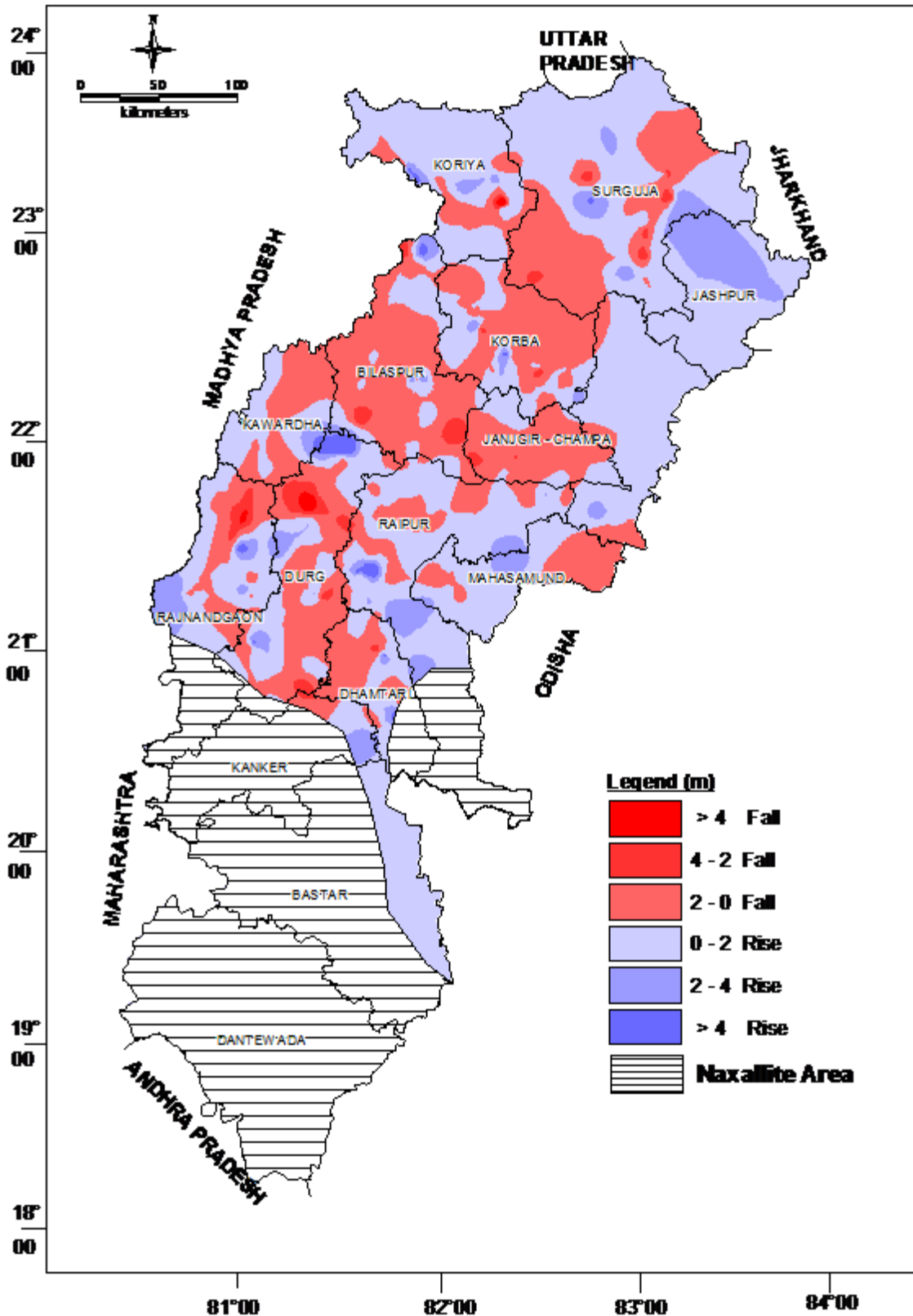
When compared to water level in November 2015, nearly 46.20% of the observation wells are showing rise in water level in November' 2016. Rise of water level in the range of 0-2 m is observed in 33.88 % of the wells distributed in almost all the districts. Rise of water level in the range of 2-4 m is observed in 8.53 % of the wells in almost all the districts except Kawardha and Dhamtari districts. Rise of water level by more than 4 m fall is observed in 3.79 % of the monitored wells. Fall of water level is recorded in nearly 53.55% of the monitored wells. Fall of water level in the range of 0-2 m, 2-4 m and more than 4 m are observed in 46.91%, 5.68% and 1% of the monitored wells, respectively in the State.

The district wise frequency for different fluctuation ranges is presented in Table 7.7. Different ranges of fluctuation in Nov' 2016 as compared to Nov' 2015 are represented on a map and appended as Fig. 7.7.

Table 7.7 District wise frequency for different fluctuation ranges between Nov 2015 vs Nov 2016

District	No. of Wells	Range of Fluctuation (m)				No. of Wells/Percentage Showing Fluctuation						Total No. of Wells	
		Rise		Fall		Rise			Fall			Rise	Fall
		Min	Max	Min	Max	0 to 2	2 to 4	>4	0 to 2	2 to 4	>4		
BASTAR	13	0.04	4.09	-	-	8 61.54%	4 30.77%	1 7.69%	0	0	0	13	0
BILASPUR	62	0.10	5.77	0.10	4.10	12 19.35%	3 4.84%	1 1.61%	40 64.52%	5 8.06%	1 1.61%	16	46
DHAMTARI	21	0.11	5.13	0.32	2.75	7 33.33%	0	2 9.52%	9 42.86%	2 9.52%	0	9	11
DURG	44	0.01	5.24	0.01	6.23	14 31.82%	3 6.82%	4 9.09%	20 45.45%	2 4.55%	1 2.27%	21	23
JANJGIR - CHAMPA	40	0.54	3.80	0.01	3.18	4 10.00%	1 2.50%	0	31 77.50%	4 10.00%	0	5	35
KANKER	5	0.42	3.94	-0.93	-	3 60.00%	2 40.00%	0	0	0	0	5	0
KAWARDHA	7	0.31	1.19	0.20	1.82	3 42.86%	0	0	4 57.14%	0	0	3	4
KORBA	42	0.10	4.87	0.28	3.00	12 28.57%	2 4.76%	2 4.76%	24 57.14%	2 4.76%	0	16	26
KORIYA	23	0.37	4.52	0.21	7.96	8 34.78%	2 8.70%	2 8.70%	10 43.48%	0	1 4.35%	12	11
MAHASAMUND	21	0.02	3.39	0.43	1.69	11 52.38%	3 14.29%	0	7 33.33%	0	0	14	7
RAIGARH	9	0.05	2.96	0.01	0.43	7 77.78%	1 11.11%	0	1 11.11%	0	0	8	1
RAIPUR	61	0.05	8.73	0.12	2.67	27 44.26%	7 11.48%	2 3.28%	23 37.70%	2 3.28%	0	36	25
RAJNANDGAON	26	0.24	5.30	0.02	4.87	10 38.46%	3 11.54%	1 3.85%	11 42.31%	0	1 3.85%	14	12
SURGUJA	48	0.09	4.28	0.00	3.22	17 35.42%	5 10.42%	1 2.08%	18 37.50%	7 14.58%	0	23	25
Total	422	0.54	1.19	0.00	7.96	143	36	16	198	24	4	195	226

Fig 7.7 Water level fluctuation(November'15 Vs November'16)



7.2.4 January 2016 vs January 2017

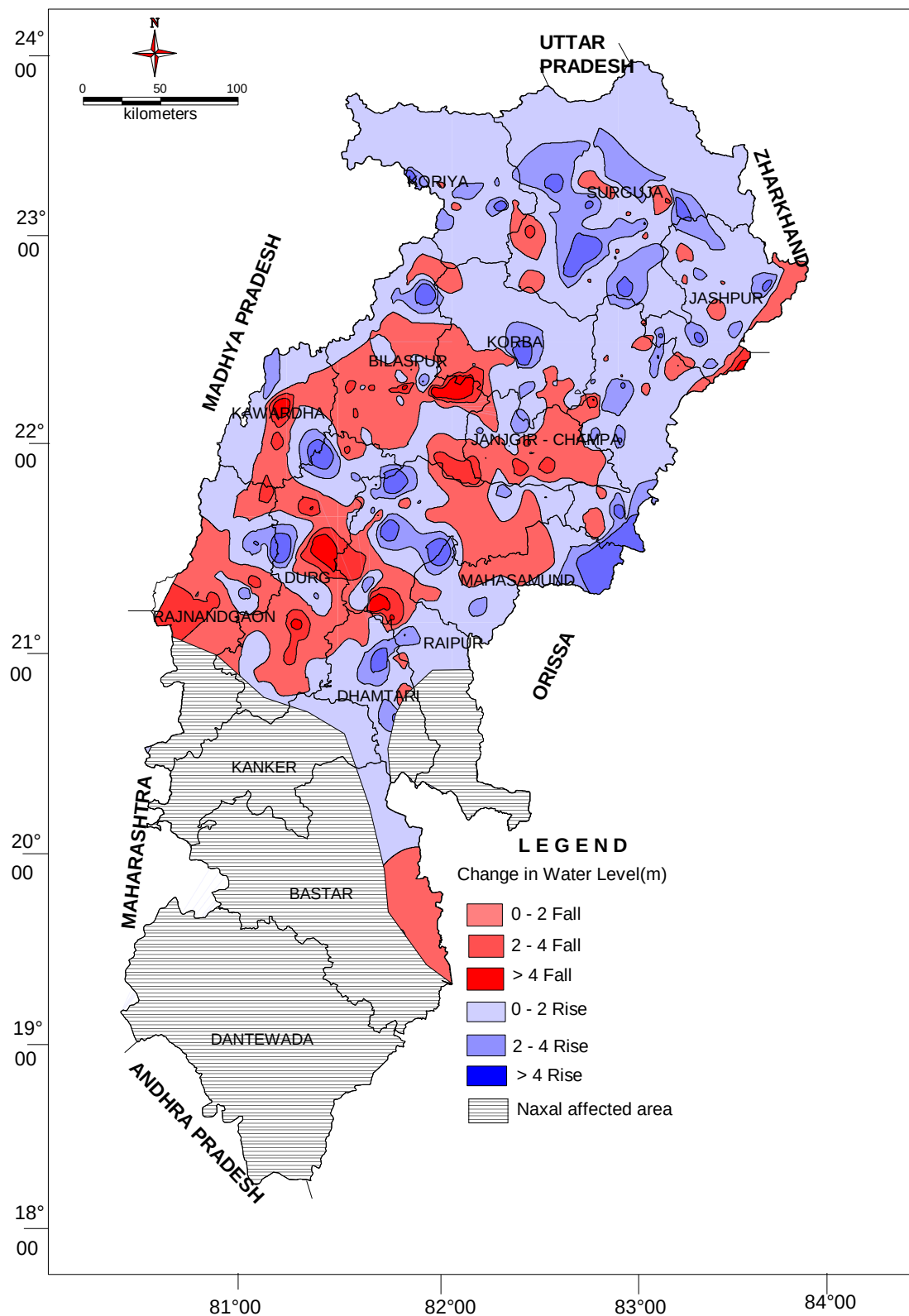
When compared to water level in January 2016, nearly 63.26% of the observation wells are showing rise in water level in January' 2017. Rise of water level in the range of 0-2 m is observed in 45.19 % of the wells distributed in almost all the districts. Rise of water level in the range of 2-4 m is observed in 11.34 % of the wells monitored in almost all the districts except Bastar and Dantewara districts. Rise of water level by more than 4 m fall is observed in 6.73 % of the monitored wells in almost all the districts except Kanker, Kawardha, Bastar and Dantewara districts. Fall of water level is recorded in nearly 35.76% of the monitored wells. Fall of water level in the range of 0-2 m, 2-4 m and more than 4 m are observed in 24.42%, 8.07% and 3.26% of the monitored wells, respectively in the State.

The district wise frequency for different fluctuation ranges is presented in Table 7.8. Different ranges of fluctuation in January 2017 as compared to January 2016 are represented on a map and appended as Fig 7.8.

Table 7.8 District wise frequency for different fluctuation ranges between January 2016 vs January 2017

District	No. of Wells	Range of Fluctuation (m)				No. of Wells/Percentage Showing Fluctuation						Total No. of Wells	
		Rise		Fall		Rise			Fall			Rise	Fall
		Min	Max	Min	Max	0 to 2	2 to 4	>4	0 to 2	2 to 4	>4		
BASTAR	18	0.10	1.92	0.37	5.64	10 55.56%	0	0	6 33.33%	0	2 11.11%	10	8
BILASPUR	70	0.2	6.75	0.14	12.90	32 45.71%	2 2.86%	2 2.86%	16 22.86%	12 17.14%	4 5.71%	36	32
DANTEWADA	2	1.07	1.07	1.00	1.00	1 50.00%	0	0	1 50.00%	0	0	1	1
DHAMTARI	11	0.28	7.81	0.21	2.03	5 45.45%	1 9.09%	2 18.18%	2 18.18%	1 9.09%	0	8	3
DURG	46	0.01	9.45	0.04	8.97	20 43.48%	2 4.35%	3 6.52%	1 21.74%	6 13.04%	5 10.87%	25	21
JANJGIR - CHAMPA	41	0.05	4.70	0.04	3.48	12 29.27%	4 9.76%	1 2.44%	13 31.71%	10 24.39%	0	17	23
JASHPUR	47	0.25	5.92	0.02	4.47	26 55.32%	8 17.02%	3 6.38%	8 17.02%	1 2.13%	1 2.13%	37	10
KANKER	10	0.09	2.84	0.71	0.71	8 80.00%	1 1.00%	0	1 10.00%	0	0	9	1
KAWARDHA	10	1.37	2.84	0.02	7.38	1 10.00%	1 1.00%	0	6 60.00%	1 10.00%	1 10.00%	2	8
KORBA	38	0.10	8.21	0.04	3.22	21 55.26%	1 2.63%	1 2.63%	12 31.58%	2 5.26%	0	23	14
KORIYA	26	0.27	8.47	0.23	0.76	13 50.00%	7 26.92%	2 7.69%	3 11.54%	0	0	22	3
MAHASAMUND	14	0.23	7.36	0.23	1.66	6 42.86%	2 14.29%	2 14.29%	4 28.57%	0	0	1	4
RAIGARH	62	0.02	9.80	0.02	4.27	35 56.45%	6 9.68%	6 9.68%	13 20.97%	0	2 3.23%	47	15
RAIPUR	46	0.43	11.23	0.19	13.90	16 34.78%	7 15.22%	4 8.70%	15 32.61%	2 4.35%	2 4.35%	27	19
RAJNANDGAON	23	0.02	4.40	0.21	3.44	8 34.78%	2 8.70%	1 4.35%	7 30.43%	5 21.74%	0	11	12
SURGUJA	56	0.15	6.17	0.13	2.71	21 37.50%	15 26.79%	8 14.29%	10 17.86%	2 3.57%	0	44	12
Total	520	0.01	11.23	0.02	13.90	235	59	35	127	42	17	329	186

Fig 7.8 Water Level Fluctuation, (Jan'2016 Vs Jan'2017)



Water Level Fluctuation with Reference To Pre monsoon Water Level

7.3.1 May 2016 vs August 2016

There is mostly a rise in water levels in August' 2016 when compared with the water levels of May, 2016. About 95.73% of the monitored wells exhibits rise in the water level. Out of this, about 15.39% of the monitored wells exhibits rise of water level in the range of 0-2 m covering parts of almost all the districts except Kanker district. In 26.15 % of the monitored wells, the water levels show rise in the range of 2-4 m covering parts of all the districts monitored while the remaining 58.44 % of the observation wells also show rise of more than 4 m covering parts of all the districts monitored. Fall of water level as compared to May'16 is observed in about 4% of the observation wells monitored. Most of the wells exhibit falls in the range of 0-2 m.

The district wise frequency for different fluctuation ranges is presented in Table 7.9. Fluctuation of water level (May' 2016 vs Aug' 2016) is represented on a map appended as Fig 7.9.

7.2.5 May 2016 vs November 2016

There is mostly a rise in water level in November 2016 when compared to water level in May 2016. About 94.76% of the monitored wells exhibit rise in the water level. Out of this, about 23.23% of the monitored wells exhibit rise in the water level in the range of 0-2 m in parts of all the districts. In 35.61 % of the monitored wells the water levels show rise in the range of 2-4 m in most of the districts while the remaining 41.14% of the observation wells show rise of more than 4 m mostly in almost all the districts. Fall of water level as compared to May'16 is observed in about 4.33% of the observation wells monitored. Most of the wells exhibit falls in the range of 0-2m.

The district wise distribution of different fluctuation ranges is presented in Table 7.10 and is also shown in Fig. 7.10.

7.2.6 May 2016 vs January 2017

The water levels in nearly 83.81% of the observation wells were showing a rise for the month of January 2017 in comparison to that of the water levels measured during the month of May 2016. The rise in water levels in the range of 0 to 2 m was observed in nearly 41.41% of the observations wells and in 35.83% of the observation wells it was in the range of 2 to 4 m. The rise in water level more than 4 m was recorded in 22.74% of observation wells. The fall in water levels was recorded in 14.74 % of the observation wells in almost all the districts.

The district wise distribution of different fluctuation ranges is presented in Table 7.11 and is also shown in Fig. 7.11.

Table 7.9 District Wise - Fluctuation and Frequency Distribution From Different Ranges from One Period to Other May 2016 vs Aug 2016

SN	District	No. of Wells	No of wells Range of Fluctuation (m)				No. of Wells/Percentage Showing Fluctuation						Total No. of Wells	
			Rise		Fall		Rise			Fall				
			Min	Max	Min	Max	0 to 2	2 to 4	>4	0 to 2	2 to 4	>4	Rise	Fall
1	Bastar	17	1.32	15.25	-	-	1 5.88%	4 23.53%	12 70.59%	0	0	0	17	0
2	Bilaspur	66	0.05	13.65	0.18	7.80	18 27.27%	20 30.30%	24 36.36%	3 4.55%	0	1 1.52%	62	4
3	Dhamtari	25	0.29	19.15	2.27	2.27	4 16.00%	5 20.00%	15 60.00%	0	1 4.00%	0	24	1
4	Durg	51	0.07	14.76	0.20	1.92	12 23.53%	14 27.45%	22 43.14%	2 3.92%	0	0	48	2
5	Janjgir - champa	4	0.5	20.64	0.50	0.50	8 20.00%	9 22.50%	22 55.00%	1 2.50%	0	0	39	1
6	Jashpur	54	0.50	17.69	0.05	2.12	4 7.41%	13 24.07%	34 62.96%	2 3.70%	1 1.85%	0	51	3
7	Kanker	3	4.36	7.46	-	-	0	0	3 100.00%	0	0	0	3	0
8	Kawardha	9	0.20	10.13	-	-	2 22.22%	1 11.11%	6 66.67%	0	0	0	9	0
9	Korba	46	0.70	10.68	0.06	2.20	5 10.87%	18 39.13%	18 39.13%	3 6.52%	2 4.35%	0	41	5
10	Koriya	20	1.20	11.39	-	-	2 10.00%	9 45.00%	9 45.00%	0	0	0	20	0
11	Mahasamund	22	0.25	20.98	1.37	1.37	7 31.82%	1 4.55%	13 59.09%	1 4.55%	0	0	21	1
12	Raigarh	63	0.7	21.55	0.44	0.44	7	18	37	1	0	0	62	1

Table 7.9 District Wise - Fluctuation and Frequency Distribution From Different Ranges from One Period to Other May 2016 vs Aug 2016

							11.11%	28.57%	58.73%	1.59%				
13	Raipur	62	0.90	13.9	-	-	5 8.06%	15 24.19%	42 67.74%	0	0	0	62	0
14	Rajnandgaon	3	0.44	10.77	0.81	1.35	3 10.00%	5 16.67%	19 63.33%	2 6.67%	0	0	27	2
15	Surguja	55	1.05	17.41	0.58	0.75	5 9.09%	9 16.36%	39 70.91%	2 3.64%	0	0	53	2
	Total	563	0.05	21.95	0.05	7.80	83	141	315	17	4	1	539	22

Table 7.10 District wise frequency for different fluctuation ranges between May 2016 vs November 2016

District	No. of Wells	Range of Fluctuation (m)				No. of Wells/Percentage Showing Fluctuation						Total No. of Wells	
		Rise		Fall		Rise			Fall			Rise	Fall
		Min	Max	Min	Max	0 to 2	2 to 4	>4	0 to 2	2 to 4	>4		
BASTAR	15	1.01	14.02	1.20	1.20	2 13.33%	4 26.67%	8 53.33%	1 6.67%	0	0	14	1
BILASPUR	62	0.13	11.7	0.10	11.00	15 24.19%	24 38.71%	18 29.03%	3 4.84%	1 1.61%	1 1.61%	57	5
DHAMTARI	23	0.36	18.34	-	-	3 13.04%	6 26.09%	14 6.87%	0	0	0	23	0
DURG	48	0.15	23.40	0.09	1.55	21 43.75%	10 20.83%	12 25.00%	4 8.33%	0	0	43	4
JANJGIR - CHAMPA	41	0.33	16.13	0.25	1.20	13 31.71%	13 31.71%	11 26.83%	3 7.32%	0	0	37	3
JASHPUR	52	0.75	11.55	1.19	2.0	3 5.77%	32 61.54%	13 25.00%	4 7.69%	0	0	48	4
KANKER	3	4.91	8.33	-	-	0	0	3 100.00%	0	0	0	3	0
KAWARDHA	13	1.30	12.40	-	-	2 15.38%	2 15.38%	9 69.23%	0	0	0	13	0
KORBA	46	0.15	7.40	-	-	15 32.61%	20 43.48%	10 21.74%	0	0	0	45	0
KORIYA	19	0.70	8.01	-	-	4 21.05%	9 47.37%	6 31.58%	0	0	0	19	0
MAHASAMUND	20	0.92	1.65	0.64	0.64	2 10.00%	2 10.00%	15 75.00%	1 5.00%	0	0	19	1
RAIGARH	65	0.20	19.65	2.21	4.40	16 24.62%	20 30.77%	26 40.0%	0	1 1.54%	1 1.54%	62	2
RAIPUR	59	0.16	15.46	0.65	0.65	8 13.56%	13 22.03%	37 62.71%	1 1.69%	0	0	58	1
RAJNANDGAON	31	0.26	1.65	-	-	5 16.13%	11 35.48%	15 48.79%	0	0	0	31	0
SURGUJA	57	0.24	11.52	0.45	1.35	13 22.81%	21 36.84%	19 33.33%	3 5.26%	0	0	53	3
Total	554	0.13	23.40	0.1	11.00	122	187	216	20	2	2	525	24

Table 7.11 District wise frequency for different fluctuation ranges between May 2016 vs January 2017

District	No. of Wells	Range of Fluctuation (m)				No. of Wells/Percentage Showing Fluctuation						Total No. of Wells	
		Rise		Fall		Rise			Fall			Rise	Fall
		Min	Max	Min	Max	0 to 2	2 to 4	>4	0 to 2	2 to 4	>4		
BASTAR	15	0.13	11.52	0.39	2.43	5 33.33%	5 33.33%	2 13.33%	2 13.33%	1 6.67%	0	12	3
BILASPUR	66	0.06	12.55	0.62	19.36	30 45.45%	21 31.82%	8 12.12%	4 6.06%	0	1 1.52%	59	5
DHAMTARI	23	0.06	15.04	0.54	0.54	4 17.39%	9 39.13%	9 39.13%	1 4.35%	0	0	22	1
DURG	53	0.04	19.42	0.02	12.47	26 49.06%	3 5.66%	3 5.60%	13 24.53%	6 11.32%	2 3.77%	32	21
JANJGIR - CHAMPA	38	0.13	8.86	0.20	6.80	18 47.37%	9 23.68%	4 10.53%	5 13.16%	1 2.63%	1 2.63%	31	7
JASHPUR	51	0.45	7.90	0.19	3.39	12 23.53%	24 47.06%	9 17.65%	2 3.92%	3 5.88%	0	45	5
KANKER	4	3.63	5.30	-	-	0	2 50.00%	2 50.00%	0	0	0	4	0
KAWARDHA	17	0.10	7.4	0.29	0.40	6 35.29%	6 35.29%	2 11.76%	3 17.65%	0	0	14	3
KORBA	41	0.05	5.58	0.04	1.40	18 43.90%	12 29.27%	4 9.76%	5 12.20%	0	0	34	5
KORIYA	20	0.25	9.38	0.05	0.62	8 40.00%	5 25.00%	3 15.00%	3 15.00%	0	0	16	3
MAHASAMUND	20	0.98	9.74	0.07	0.29	3 15.00%	4 20.00%	10 50.00%	3 15.00%	0	0	17	3
RAIGARH	62	0.03	14.75	0.15	2.20	23 37.10%	22 35.48%	11 17.74%	5 8.06%	1 1.61%	0	56	6
RAIPUR	60	0.41	14.07	0.9	12.77	10 16.67%	18 30.00%	25 41.67%	4 6.67%	2 3.33%	1 1.67%	53	7
RAJNANDGAON	30	0.16	5.53	0.07	5.36	11 36.67%	11 36.67%	3 10.00%	3 10.00%	0	1 3.33%	25	4
SURGUJA	56	0.18	9.41	0.06	1.81	19 33.93%	16 28.57%	11 19.64%	9 16.07%	0	0	46	9
Total	556	0.03	19.42	0.02	19.36	193	167	106	62	14	6	466	82

Fig 7.9 Water Level Fluctuation, (May'16 Vs Aug 16)

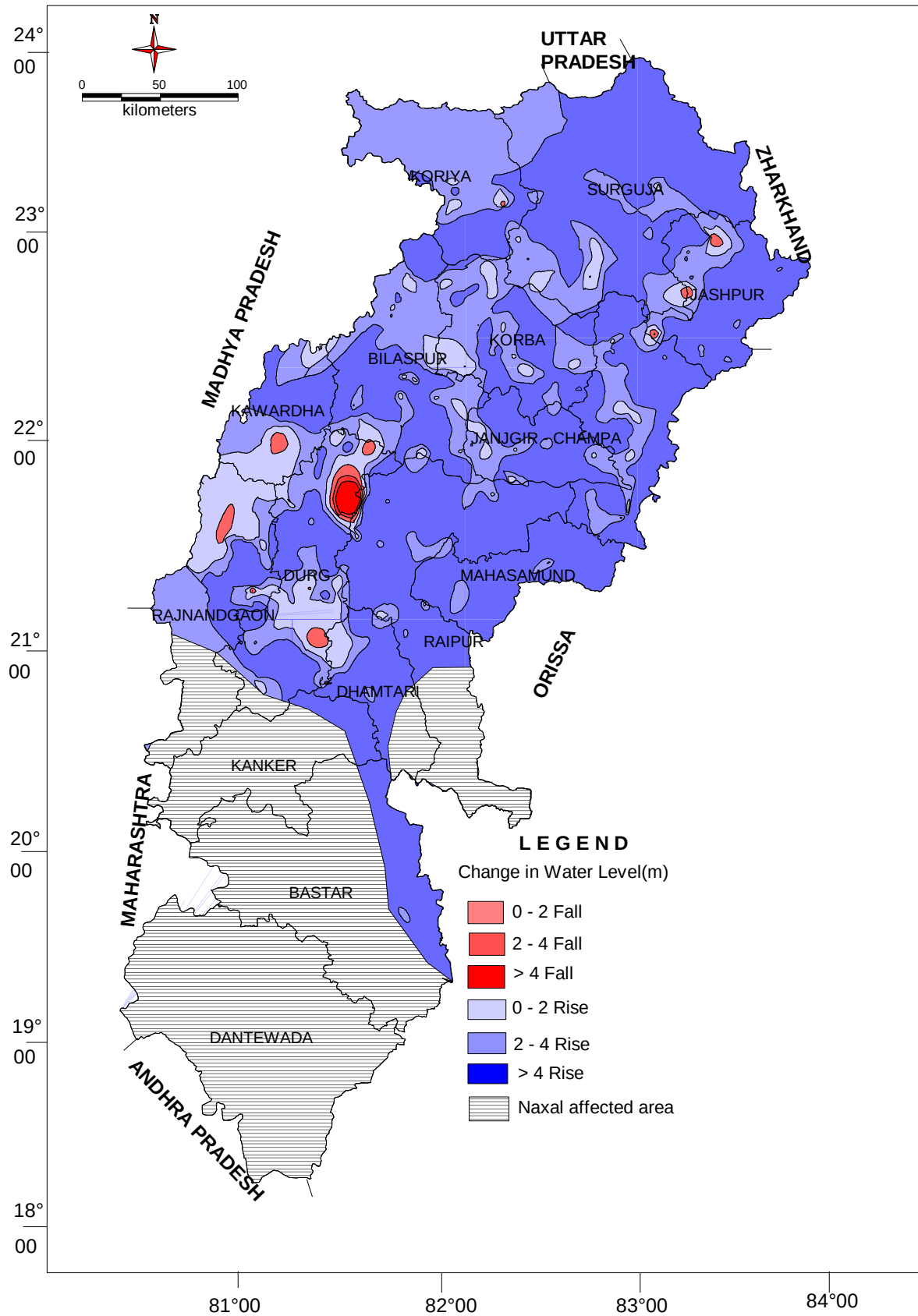


Fig 7.10 Water Level Fluctuation, (May'16 Vs Nov' 16)

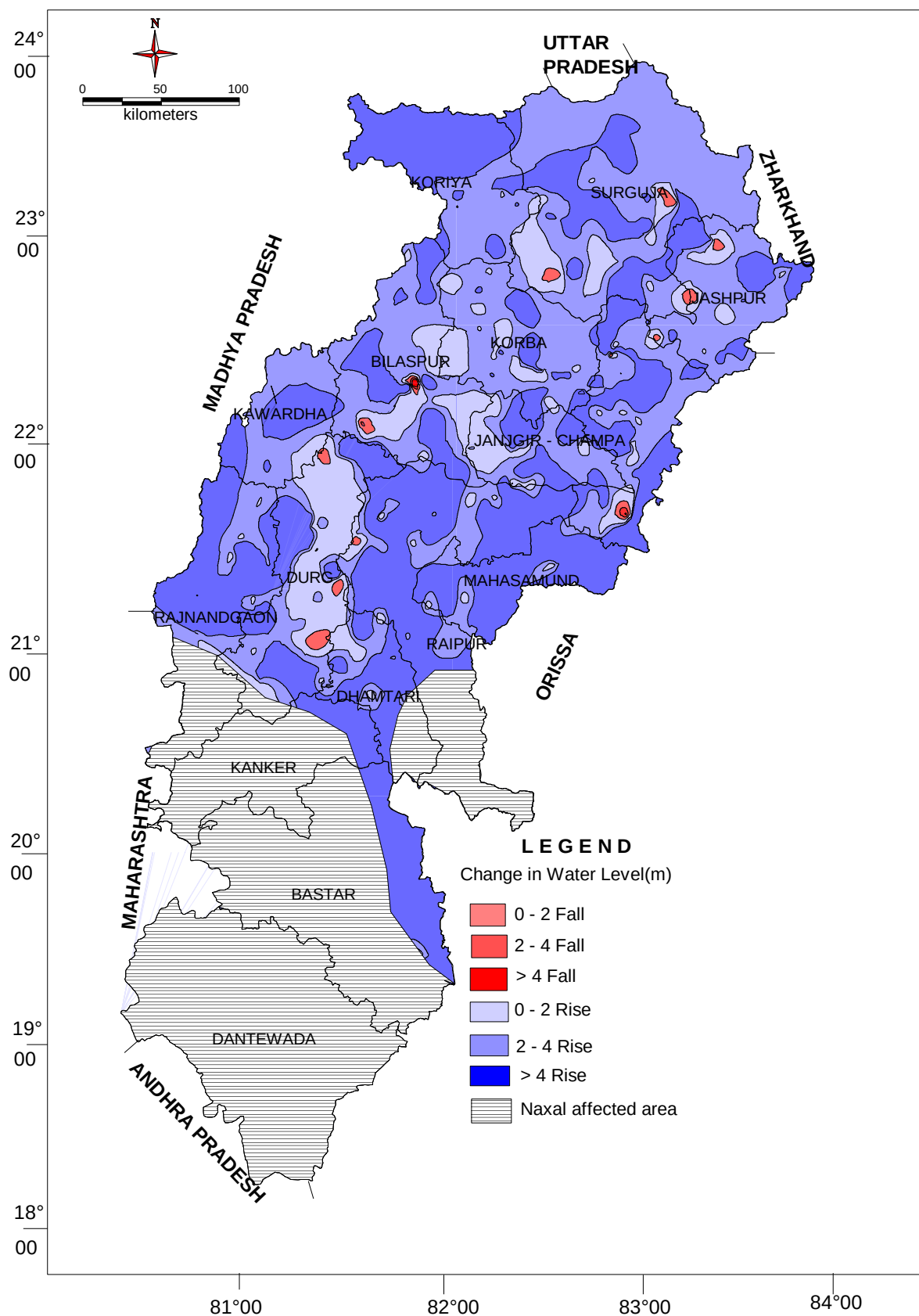
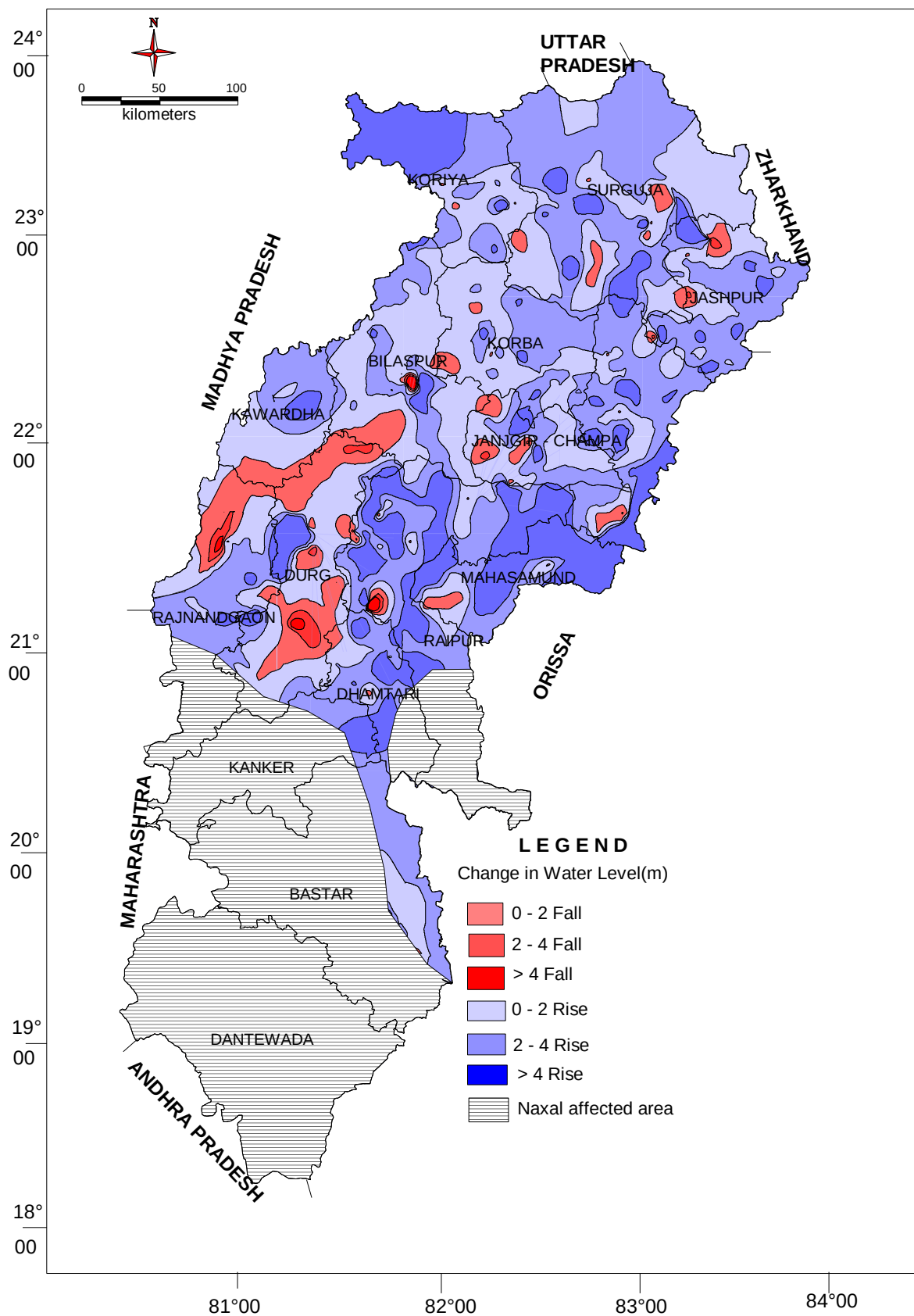


Fig 7.11 Water Level Fluctuation, (May'16 Vs Jan'17)



7.3 Water Level Fluctuation With Reference To Decadal Mean

7.4.1 Mean of May (May 2006 to May 2015) Vs May 2016

When compared to the decadal mean water level (May' 2006 to May'2015), 73.27% of observation wells are showing a fall in water level in May'2016. Out of the wells monitored, 69.35% of the wells are showing a fall upto 2 m, 22.37% between 2 to 4 metres and 8.27% of the monitored wells are showing a fall in water level of more than 4 m. Fall of water level as compared to the decadal mean by more than 4m is observed in almost all the districts except Kanker. Nearly 26.72% of monitored wells are showing a rise in the water level, mostly in the range of 0-2 meter (66.87%). About 20.24% of the monitored wells are showing a rise in the range of 2-4 metre whereas 12.88% of the monitored wells are showing a rise of more than 4 m. The district wise categorisation of decadal change in water level is presented in Table 7.12. The decadal range of fluctuation has been shown in the Fig 7.12.

7.4.2 Mean of August (Aug 2006 to August 2015) Vs August 2016

When compared to the decadal mean water level (August 2006 to August 2015), 74.27% of observation wells are showing a fall in water level in August 2016. Out of which, 76.03% of the wells are showing a fall upto 2 m, 16.55% between 2 to 4 metres and 7.40% of the monitored wells are showing a fall in water level of more than 4 m. Fall of water level as compared to the decadal mean by more than 4m is observed in most of the district except Bastar, Janjgir-Champa, Kanker, Kawardha and Raipur districts. Nearly 25.56% of monitored wells are showing a rise in the water level, mostly in the range of 0-2 meter (79.11%). About 8.86% of the monitored wells are showing a rise in the range of 2-4 metre whereas 12.02% of the monitored wells are showing a rise of more than 4 m.

The district wise categorisation of decadal change in water level is presented in Table 7.13. The decadal range of fluctuation has been shown in the Fig 7.13

7.4.3 Mean of November (Nov 2006 to November 2015) Vs November 2016

When compared to the decadal mean water level (November'2006 to November'2015), 67.56% of observation wells are showing a fall in water level in

November'2016. Out of which, 84.57% of the wells are showing a fall upto 2 m, 12.43% between 2 to 4 metres and 2.98% of the monitored wells are showing a fall in water level of more than 4 m. Fall of water level as compared to the decadal mean by more than 4m is observed in most of the district except Bastar, Dhamtari, Kanker, Kawardha, Mahasamund, Raipur and Rajnandgaon districts. Nearly 32.43% of monitored wells are showing a rise in the water level, mostly in the range of 0-2 meter (84.97%). About 12.95% of the monitored wells are showing a rise in the range of 2-4 metre whereas 2.07% of the monitored wells are showing a rise of more than 4 m. The district wise categorisation of decadal change in water level is presented in Table 7.14. The decadal range of fluctuation has been shown in the Fig 7.14.

7.4.4 Mean of January (January 2007 to January 2016) Vs January 2017

When compared to the decadal mean water level (January' 2007 to January'2016), 63.08% of observation wells are showing a fall in water level in January'2017. Out of which, 76.84% of the wells are showing a fall upto 2 m, 16.28% between 2 to 4 metres and 6.87% of the monitored wells are showing a fall in water level of more than 4 m. Fall of water level as compared to the decadal mean by more than 4m is observed in Bastar, Bilaspur, Durg, Janjgir-Champa, Jashpur, Raigarh, Raipur, and Kawardha districts. Nearly 36.59% of monitored wells are showing a rise in the water level, mostly in the range of 0-2 meter (81.57%). About 11.84% of the monitored wells are showing a rise in the range of 2-4 metre whereas 6.57% of the monitored wells are showing a rise of more than 4 m.

Water level fluctuations during January 2017 with respect to the decadal mean(January 2007 to January 2016) are shown in Table 7.15 and Fig 7.15.

Table 7.12 District wise categorization of decadal change in water level(May' 2006- 2015 Vs May' 2016)

District	No. of Wells	Range of Fluctuation (m)				No. of Wells/Percentage Showing Fluctuation						Total No. of Wells	
		Rise		Fall		Rise			Fall			Rise	Fall
		Min	Max	Min	Max	0 to 2	2 to 4	>4	0 to 2	2 to 4	>4		
BASTAR	17	0.20	5.32	0.03	5.55	3 17.65%	0	1 5.88%	10 58.82%	2 11.76%	1 5.88%	4	13
BILASPUR	69	0.02	23.11	0.04	13.18	12 17.39%	4 5.80%	1 1.45%	32 46.38%	17 24.64%	3 4.35%	17	52
DHAMTARI	28	0.07	0.60	0.06	5.44	4 14.29%	0	0	12 42.86%	10 35.71%	2 7.14%	4	24
DURG	57	0.10	18.09	0.02	6.61	9 15.79%	4 7.02%	6 10.53 %	30 52.63%	5 8.77%	3 5.26%	19	38
JANJGIR – CHAMPA	43	0.02	6.17	0.37	1.07	13 30.23%	3 6.98%	2 4.65%	14 32.56%	7 16.28%	4 9.30%	18	25
JASHPUR	54	0.08	6.68	0.29	5.55	6 11.11%	2 3.70%	1 1.85%	35 64.81%	9 16.67%	1 1.85%	9	45
KANKER	4	2.14	2.14	1.67	3.24	0	1 25.00%	0	2 50.00%	1 25.00%	0	1	3
KAWARDHA	17	0.67	2.34	0.10	4.62	4 23.53%	1 5.88%	0	9 52.94%	2 11.76%	1 5.88%	5	12
KORBA	45	0.02	3.22	0.03	5.05	9 20.00%	4 8.89%	0	28 62.22%	3 6.67%	1 2.22%	13	32
KORIYA	18	0.06	6.71	0.39	9.88	2 11.11%	0	1 5.56%	9 50.00%	5 27.78%	1 5.56%	3	15
MAHASAMUND	27	0.57	7.19	0.56	8.29	2 7.41%	0	2 7.41%	14 51.85%	4 14.81	5 18.52 %	4	23
RAIGARH	66	0.56	8.82	0.01	14.10	7 10.61%	3 4.55%	3 4.55%	39 59.09%	12 18.18%	2 3.03%	13	53
RAIPUR	71	0.01	8.17	0.04	7.74	14 19.72%	3 4.23%	2 2.82%	32 45.07%	11 15.49%	9 12.68 %	19	52
RAJNANDGAON	37	0.10	6.75	0.28	5.98	10 27.03%	1 2.70%	1 2.70%	17 45.95%	6 16.22%	2 5.41%	12	25
SURGUJA	57	0.05	5.63	0.01	6.59	14 24.56%	7 12.28%	1 1.75%	27 47.37%	6 10.53%	2 3.51%	22	35
Total	610	0.02	23.11	0.01	14.10	109	33	21	310	100	37	163	447

Table 7.13 District wise categorization of decadal change in water level(Aug' 2006- 2015 Vs Aug' 2016)

District	No. of Wells	Range of Fluctuation (m)				No. of Wells/Percentage Showing Fluctuation						Total No. of Wells	
		Rise		Fall		Rise			Fall			Rise	Fall
		Min	Max	Min	Max	0 to 2	2 to 4	>4	0 to 2	2 to 4	>4		
BASTAR	21	0.12	1.36	0.13	1.77	4 19.05%	0	0	17 80.95%	0	0	4	17
BILASPUR	71	0.18	16.28	0.20	22.28	6 8.45%	4 5.63%	5 7.04%	31 43.66%	19 26.76%	6 8.45%	15	56
DHAMTARI	26	-	-	0.25	4.18	0	0	0	19 73.08%	4 15.38%	3 11.54%	0	26
DURG	54	0.06	14.11	0.08	8.27	10 18.52%	1 1.85%	3 5.56%	31 57.41%	6 11.11%	3 5.56%	14	40
JANJGIR - CHAMPA	44	0.14	4.35	0.05	2.92	7 15.91%	1 2.27%	1 2.27%	32 72.73%	3 6.82%	0	9	35
JASHPUR	56	0.07	12.92	0.01	4.82	16 28.57%	1 1.79%	2 3.57%	29 51.79%	6 10.71%	2 3.57%	19	37
KANKER	6	2.77	2.77	0.20	1.25	0	1 16.67%	0	5 83.33%	0	0	1	5
KAWARDHA	11	0.16	1.82	0.34	1.79	4 36.36%	0	0	7 63.64%	0	0	4	7
KORBA	49	0.08	9.18	0.11	6.87	9 18.37%	0	1 2.04%	26 53.06%	7 14.29%	6 12.24%	10	39
KORIYA	27	0.08	5.19	0.11	9.79	10 37.04%	0	1 3.70%	12 44.44%	3 11.11%	1 3.70%	11	16
MAHASAMUND	26	0.12	6.47	0.61	13.42	4 15.38%	0	1 3.85%	11 42.31%	6 23.08%	4 15.38%	5	21
RAIGARH	66	0.23	11.97	0.02	10.51	12 18.18%	2 3.03%	2 3.03%	40 60.61%	7 10.61%	3 4.55%	16	50
RAIPUR	70	0.02	1.65	0.09	3.84	10 14.29%	0	0	49 70.00%	11 15.71%	0	10	60
RAJNANDGAON	32	0.11	3.12	0.18	7.72	5 15.63%	2 6.25%	0	21 65.63%	0	3 9.38%	7	24
SURGUJA	59	0.04	5.63	0.11	5.67	28 47.46%	2 3.39%	3 5.08%	19 32.20%	4 6.78%	3 5.08%	33	26
Total	618	0.04	16.28	0.01	22.28	125	14	19	349	76	34	158	459

Table 7.14 District wise categorisation of decadal change in water level(Nov' 2006- 2015 Vs Nov' 2016)

District	No. of Wells	Range of Fluctuation (m)				No. of Wells/Percentage Showing Fluctuation						Total No. of Wells	
		Rise		Fall		Rise			Fall			Rise	Fall
		Min	Max	Min	Max	0 to 2	2 to 4	>4	0 to 2	2 to 4	>4		
BASTAR	16	0.10	2.14	0.06	3.00	6 37.50%	2 12.50%	0	7 43.75%	1 6.25%	0	8	8
BILASPUR	63	0.03	4.87	0.01	7.99	7 11.11%	1 1.59%	1 1.59%	48 76.19%	5 7.94%	1 1.59%	9	54
DHAMTARI	23	0.17	3.45	0.03	2.94	7 30.43%	2 8.70%	0	13 56.52%	1 4.35%	0	9	14
DURG	52	0.24	12.82	0.01	7.94	8 15.38%	2 3.85%	2 3.85%	31 59.62%	6 11.54%	3 5.77%	12	40
JANJGIR – CHAMPA	43	0.03	0.53	0.06	6.57	4 9.30%	0	0	31 72.09%	6 13.95%	2 4.65%	4	39
JASHPUR	54	0.01	2.71	0.06	4.61	11 20.37%	2 3.70%	0	38 70.37%	1 1.85%	2 3.70%	13	41
KANKER	6	0.14	3.66	1.75	1.75	3 50.00%	2 33.33%	0	1 16.67%	0	0	5	1
KAWARDHA	14	1.00	2.16	0.38	3.62	5 35.71%	1 7.14%	0	5 35.71%	3 21.43%	0	6	8
KORBA	47	0.08	2.91	0.12	4.53	8 17.02%	1 2.13%	0	31 65.96%	6 12.77%	1 2.13%	9	38
KORIYA	25	0.28	4.05	0.01	5.79	8 32.00%	1 4.00%	1 4.00%	14 56.00%	0	1 4.00%	10	15
MAHASAMUND	25	0.13	2.31	0.01	3.78	5 20.00%	3 12.00%	0	16 64.00%	1 4.00%	0	8	17
RAIGARH	67	0.04	1.99	0.01	14.71	25 37.31%	0	0	37 55.22%	4 5.97%	1 1.49%	25	42
RAIPUR	65	0.17	3.05	0.06	1.84	33 50.77%	3 4.62%	0	29 44.62%	0	0	36	29
RAJNANDGAON	32	0.06	2.95	0.29	3.87	11 34.38%	1 3.13%	0	14 43.75%	6 18.75%	0	12	20
SURGUJA	63	0.11	3.30	0.05	5.00	23 36.51%	4 6.35%	0	25 39.68%	10 15.87%	1 1.59%	27	36
Total	595	0.01	12.82	0.01	14.71	164	25	4	340	50	12	193	402

Table 7.15 District wise categorisation of decadal change in water level(Jan' 2007- 2016 Vs Jan' 2017)

District	No. of Wells	Range of Fluctuation (m)				No. of Wells/Percentage Showing Fluctuation						Total No. of Wells	
		Rise		Fall		Rise			Fall			Rise	Fall
		Min	Max	Min	Max	0 to 2	2 to 4	>4	0 to 2	2 to 4	>4		
BASTAR	24	0.14	3.19	0.11	5.23	5 20.83%	1 4.17%	0	12 50.00%	5 20.83%	1 4.17%	6	18
BILASPUR	71	0.03	6.76	0.01	25.35	10 14.08%	1 1.41%	2 2.82%	43 60.56%	7 9.86%	7 9.86%	13	57
DANTEWADA	2	0.77	0.77	2.43	2.43	1 50.00%	0	0	0	1 50.00%	0	1	1
DHAMTARI	23	0.01	4.58	0.17	2.51	15 65.22%	0	1 4.35%	6 26.09%	1 4.35%	0	16	7
DURG	59	0.08	14.09	0.06	12.92	4 6.78%	4 6.78%	5 8.47%	29 49.15%	9 15.25%	8 13.56%	13	46
JANJGIR – CHAMPA	41	0.08	1.84	0.08	6.49	7 17.07%	0	0	23 56.10%	9 21.95%	2 4.88%	7	34
JASHPUR	54	0.01	3.94	0.12	4.74	15 27.78%	5 9.26%	0	33 61.11%	0	1 1.85%	20	34
KANKER	11	0.08	3.51	0.93	2.64	3 27.27%	2 18.18%	0	3 27.27%	3 27.27%	0	5	6
KAWARDHA	19	0.04	1.49	0.25	5.37	4 21.05%	0	0	10 52.63%	1 5.26%	4 21.05%	4	15
KORBA	45	0.01	2.40	0.02	3.52	9 20.00%	1 2.22%	0	30 66.67%	5 11.11%	0	10	35
KORIYA	28	0.03	3.61	0.44	3.34	12 42.86%	2 7.14%	0	12 42.86%	2 7.14%	0	14	14
MAHASAMUND	25	0.31	7.19	0.30	3.08	12 48.00%	0	1 4.00%	10 40.00%	2 8.00%	0	13	12
RAIGARH	65	0.03	4.98	0.03	5.37	21 32.31%	2 3.08%	2 3.08%	34 52.31%	5 7.69%	1 1.54%	25	40
RAIPUR	65	0.01	4.84	0.08	14.53	28 43.08%	5 7.69%	2 3.08%	27 41.54%	0	2 3.08%	35	29
RAJNANDGAON	31	0.04	2.55	0.15	5.69	8 25.81%	1 3.23%	0	14 45.16%	7 22.58%	1 3.23%	9	22
SURGUJA	60	0.11	4.68	0.06	3.44	32 53.33%	3 5.00%	2 3.33%	16 26.67%	7 11.67%	0	37	23
Total	623	0.01	14.09	0.01	25.35	186	27	15	302	64	27	228	393

Fig 7.12 Water Level Fluctuation, Decadal mean (May'2006-May 2015) Vs May'2016

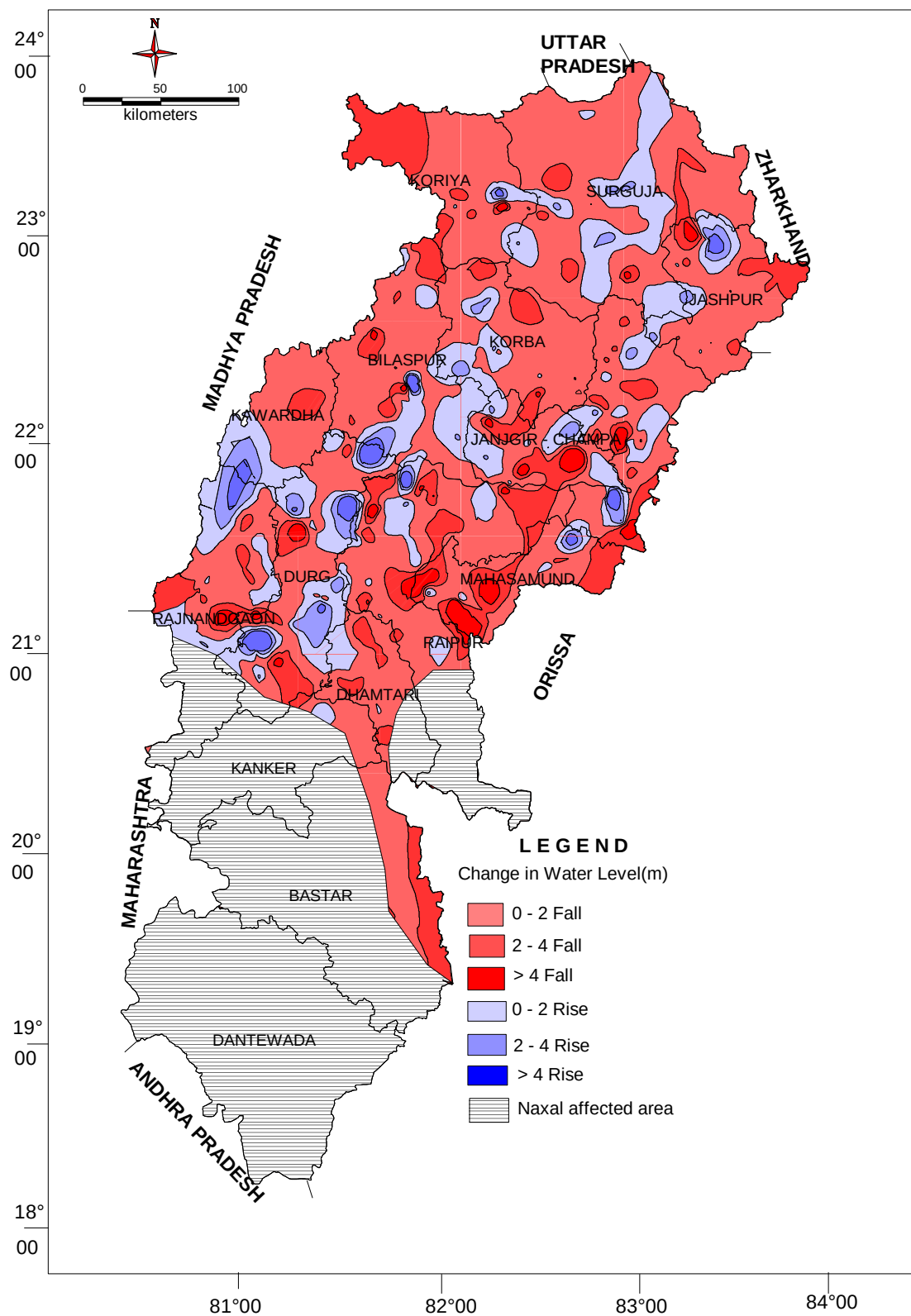


Fig 7.13 Water Level Fluctuation, Decadal mean(Aug'2006-2015 Vs Aug'2016)

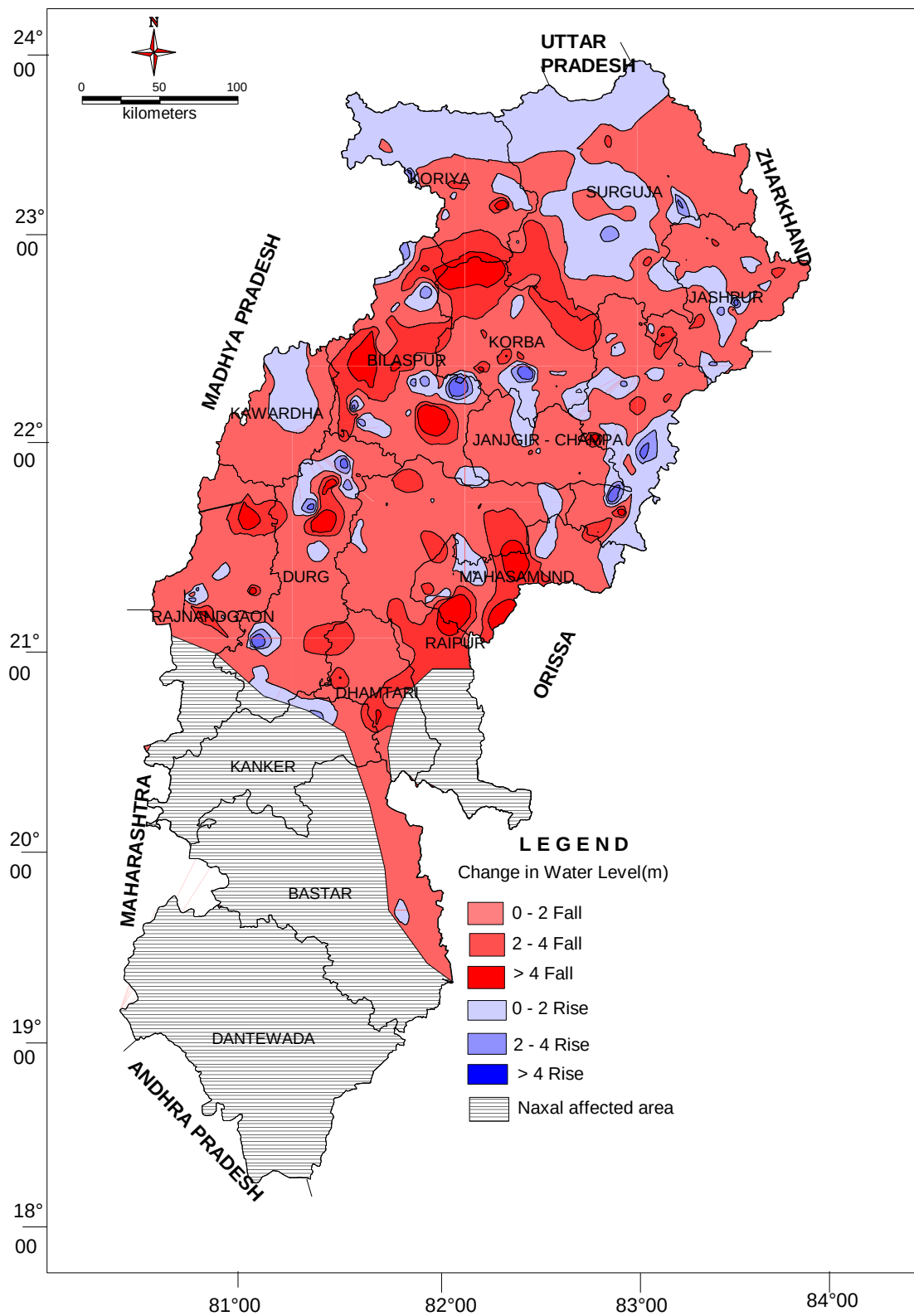


Fig 7.14 Water Level Fluctuation, Decadal mean(Nov'2006-2015 Vs Nov'2016)

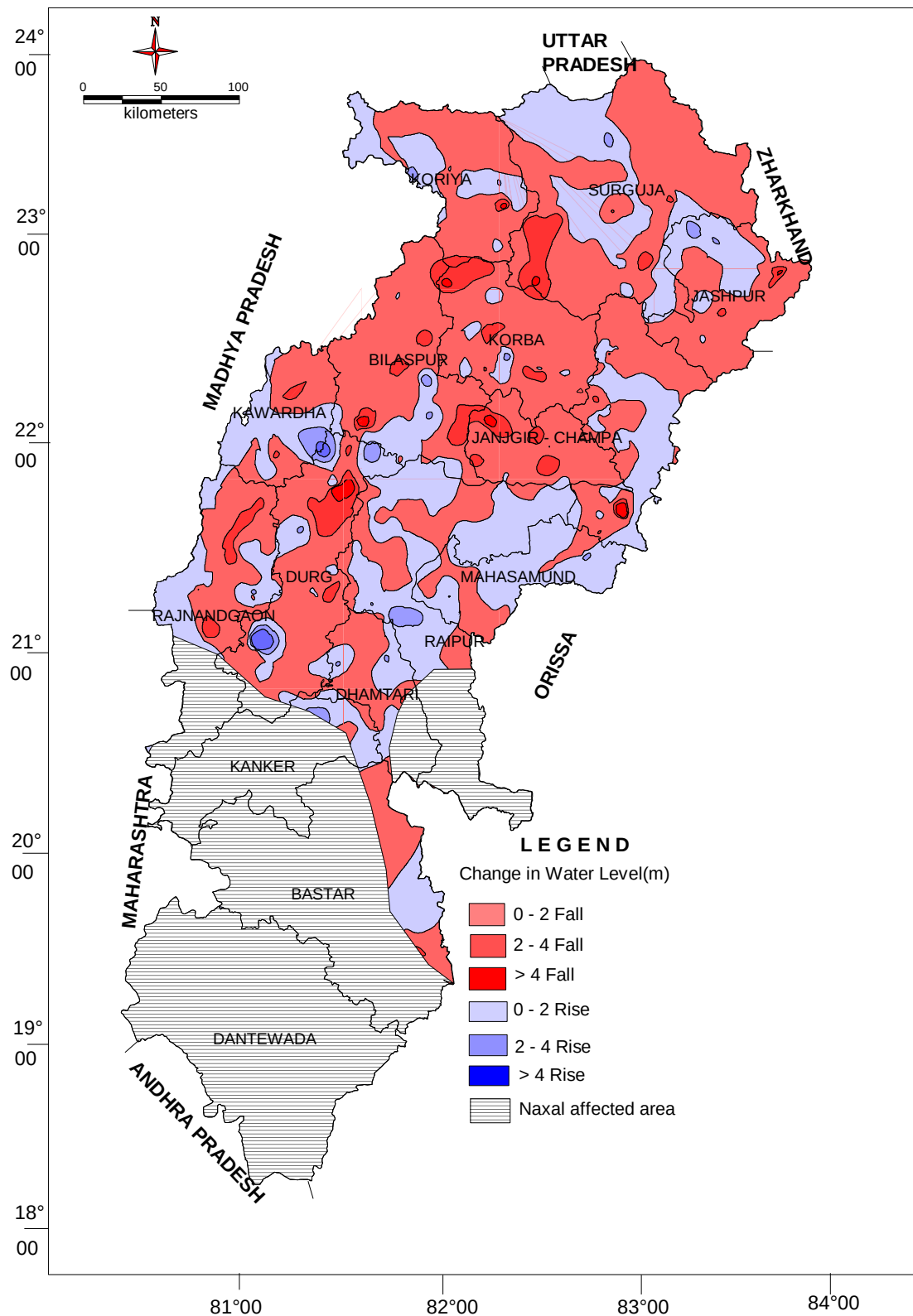
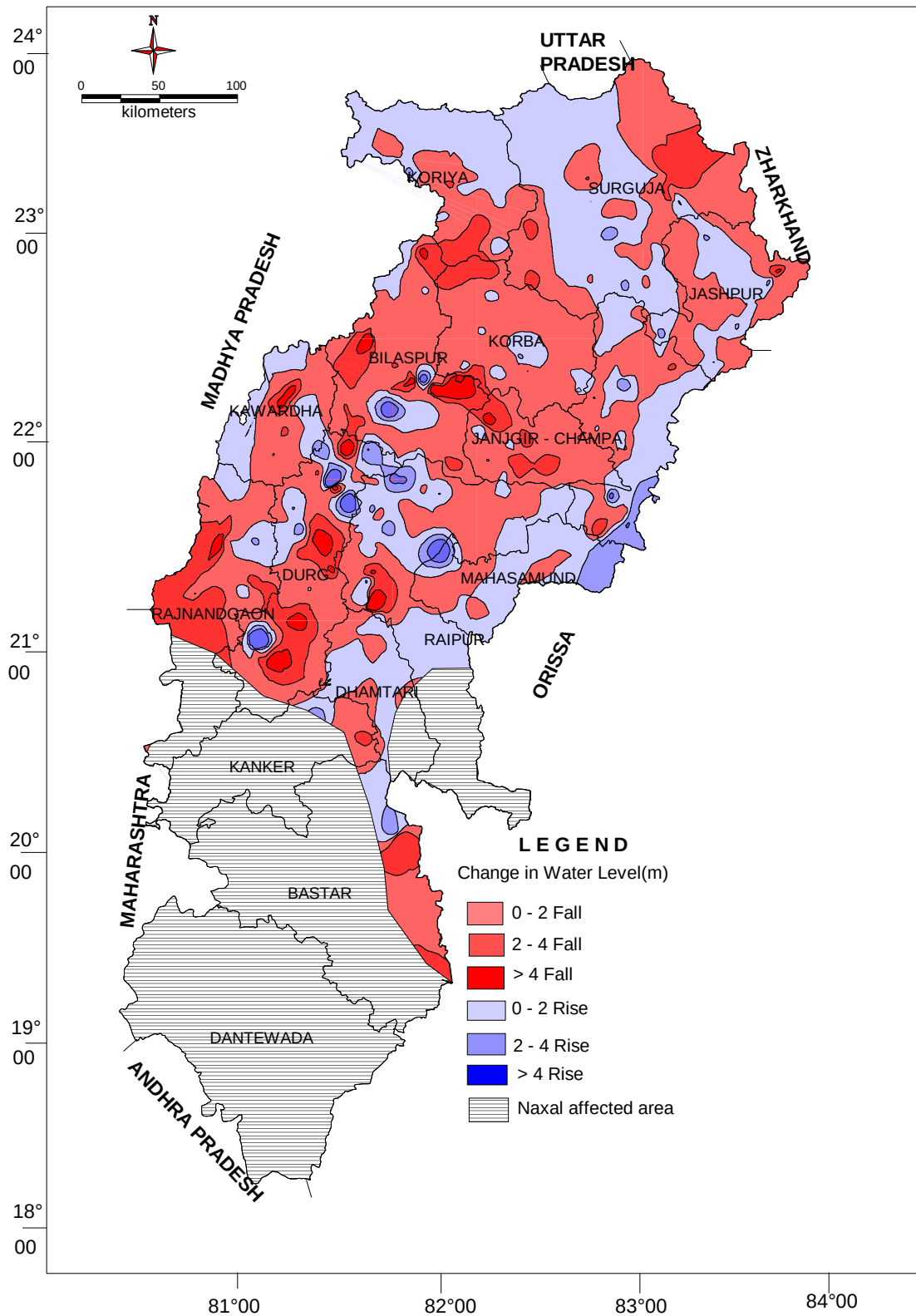


Fig 7.15 Water Level Fluctuation, Decadal mean(Jan'2007-2016 Vs Jan'2017)



7.5 Long Term Water Level Trend (2007-2016)

The long term water level trend (2007-2016) of the phreatic aquifer was plotted for both the pre and post monsoon periods. For the pre monsoon period, the major part of Chhattisgarh shows water level trend between -10 to +10 cm/yr which can be categorized as safe but many parts of Durg, Jashpur, Surguja, Korba, Janjgir-Champa, Kawardha, Rajnandgaon show significant falling trend of more than 20 cm/yr which is a cause of concern.

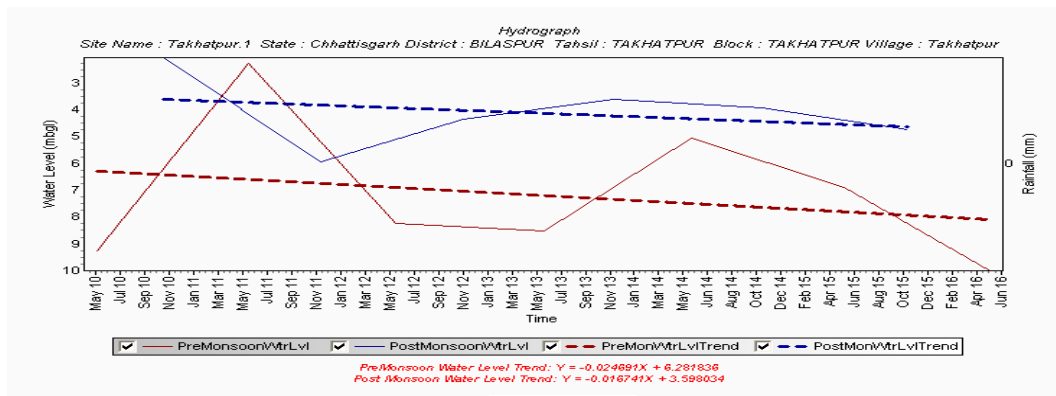


Fig 7.16

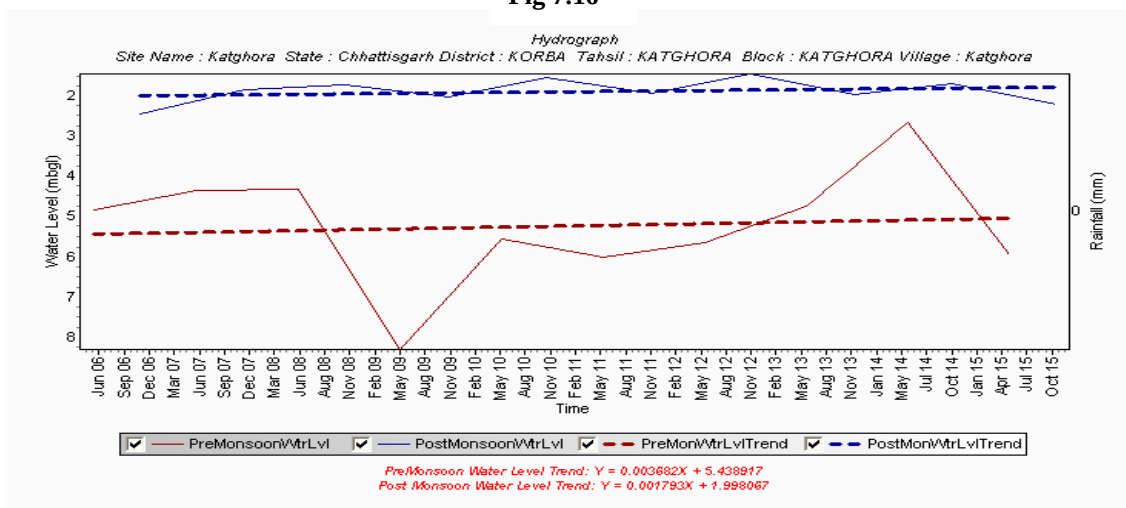


Fig 7.17

The post monsoon decadal water level trend map of the phreatic aquifer presents a more alarming picture. It shows large tracts of Durg, Surguja, Koriya, Jashpur, Kawardha, Rajnandgaon etc with significant decline in water level of more than 20 cm/yr during the last 10 years. This long term trend is also depicted from the individual hydrographs of network stations. Some representative hydrographs are given above.

8. GROUNDWATER QUALITY MONITORING

8.1 Factors controlling ground water quality

The factors contributing to the ground water quality are the chemical composition of the rainwater, the soil types and the mineralogy of the rock formations. The geochemical processes in the soil zone and in the underlying unsaturated and saturated zones, temperature, pressure, duration of contact of the percolating water and the surrounding media, and other associated factors determine the chemical composition of the ground water. Pollution from near surface sources arising out of the human activities like industrial wastes disposal, use of fertilizers, pesticides also influence the ground water quality.

Climate and precipitation: The temperature and precipitation influence weathering, climate, vegetation, soil types and the composition of the water draining the area. The rainwater containing SiO_2 , CO_2 , O_2 picks up organic acids after reaching the earth's surface and reacts with the minerals, which get dissolved. In humid temperate climate the bicarbonates are predominant and are rather high in arid climate. The wet and dry climate promotes release of considerable soluble inorganic matter through weathering. Very cold climate inhibit weathering and restrict solute concentration in water.

Soil forming process: The geochemical reactions involved in the soil forming processes also dictate the chemical composition of the ground water. In soils dissolution of CO_2 and the H^+ , HCO_3^- , CO_3^{2-} ions in percolatin water control pH of water and thereby increaseng its capacity to react with rocks and minerals.

Geological factors: The mineral constituents in rock influence the geochemical evolution of water passing through the rock. The mineralogical sources of major ions are listed in Table 8.1.

Table 8.1: Mineralogical Sources of Major Chemical Constituents

Chemical constituents	Source Minerals
Silica	Feldspars, Feldspathoids, Amphiboles, Pyroxenes, Mica.
Iron	Pyroxenes, Amphiboles, Mica, Pyrites, Chalcopyrite, Magnetite and Haematite.
Mn	Common Mn. bearing minerals in metamorphic & sedimentary rocks as oxides, hydroxides, carbonates, silicates.
Ca	Plagioclase, Pyroxene, Amphibole, among igneous and metamorphic rocks. Limestone, dolomite, gypsum among sedimentary rocks.
Mg	Dunites, Pyroxinites, Amphibolites, Basalt, Talc, Tremolite Schists, Dolomite.
Na	Sodium salts in soils, sea water ingress, ground water, also due to base exchange reactions with clays.
K	Orthoclase, Microcline, Nepheline, Lucite, Biotite in igneous and metamorphic rocks, Evaporites in sedimentary rocks.
HCO ₃ & CO ₃	Dissolved CO ₂ in rains, water charged with CO ₂ dissolves carbonate minerals, in solid rocks to give bicarbonate.
SO ₄	Sulphides of heavy metals igneous and metamorphic rocks. Gypsum and hydrite in sedimentary rocks.
Cl	Atmospheric sources and sea water contamination.
F	Fluorite, Apatite, Amphiboles and Micas.

Human activities: The untreated industrial effluents discharged through nearby streams and unlined drains may percolate underground and reaches the aquifers on the downstream side thereby affecting the quality of ground water. The migration of the pollutant to the saturated zone is considerable in sandy strata. The urban areas in India also generate substantial quantity of wastewater and find its way into the natural water courses causing contamination of surface and ground water. The solid waste dumped in low-lying areas becomes a potential source of ground water pollution.

Organic and inorganic fertilizers, pesticides, insecticides and other chemicals used in the agricultural fields are often leached to the ground water. Nitrate, potassium and phosphate are the common fertilizer used in agriculture land and are the potential pollutants in the ground water. The major contaminants associated with the waste disposal practices are summarized in Table 8.2.

Table 8.2: Contaminants Associated With the Waste Disposal Practices

Source	Possible contaminants
<u>Landfills:</u>	
Municipal	Heavy metals, chlorides, sodium, calcium
Industrial	Wide variety of inorganic and organic constituents.
Hazardous waste disposal sites	Wide variety of inorganic (particularly heavy metals) and organic compounds (pesticides, priority pollutants, etc).
Liquid waste storage ponds (Lagoons, leaching ponds, compounds reaching basins)	Heavy metals, Solvents, inorganic, Compounds
Subsurface sewage disposal systems	Organic compounds (degreasers, solvents), nitrogen compounds, sulphates, sodium, microbiological contaminants.
Deep-well waste injection.	Variety of inorganic and/or organic compounds.
Agricultural activities.	Fertilizers, herbicides, pesticides.
Land application (sludge, waste water)	Heavy metals, inorganic compounds, organic compounds.
Urban runoff infiltration.	Inorganic compounds, heavy metals, petroleum products.
Decaying activities.	Chlorides, sodium, calcium radioactivity.
Radioactive wastes.	Radioactive wastes and radionuclides.

8.2 Hydrochemical quality evolution

As ground water moves along the flow paths in the saturated zone, it is enriched with total dissolved solids and with major ions. The shallow zone is characterized by active ground water flushing through relatively well-leached rocks has HCO_3^- as the

dominant anion and is low in total dissolved solids. The intermediate zone has less active ground water circulation, and higher total dissolved solids while sulphate is normally the dominant anion in this zone. The lower zone with very little ground water flushing has high Cl^- concentration and high total dissolved solids. The HCO_3^- content in ground water is normally derived from soil zone CO_2 and from dissolution of calcite and dolomite. There are several soluble sedimentary minerals that release SO_4^- or Cl^- upon dissolution. The process of evolution from stage to stage is controlled by the availability of minerals along the ground water flow paths. In some ground water flow system the water does not evolve past the HCO_3^- stage or past the SO_4^- .

The notable in this regard is the increase in HCO_3^- and decrease in SO_4^- that can occur as a result of biochemical SO_4^- reduction. Large variations in major cations occur in ground water flow systems because of cation exchange process.

8.3 Ground water quality sampling

The purposes of ground water quality sampling are varied viz. evaluation of regional water quality, detection and assessment of the extent of the contaminant release. In this context the important attributes are location and number of monitoring wells for ground water sampling. The information from the ground water sampling network is related to the number of stations to be sampled and the frequency of sampling. Due to slow rate of ground water movement, the ground water quality does not change rapidly. Similarly in contrast to unconfined aquifers, the quality change in confined aquifer is rather slow.

Sample location: The factors that influence sampling location are site geology, hydrology, source characteristic, contaminant characteristic and size of the area under investigation. The degree and details of temporal and spatial variations, which also characterise sub-surface hydrogeochemical conditions, are also considered. The existing wells may be used to gather information on the regional ground water quality and ambient trends. Disused wells are not selected for water sampling. Hydrogeological information on ground water flow paths and gradients will initially guide the sampling network. The vertical control of sampling location is another important factor for sampling the ground water.

Sampling frequency: *More the water quality varies, the more samples will be required to obtain reliable estimate of statistical parameters used to describe its behavior. Variance should determine sampling frequency. The commonly used statistical parameter for water quality variable in selecting sampling frequencies is the “mean”. The approach is to select a sampling frequency, which yields an estimate of the “mean” within a prescribed degree of accuracy (confidence limits). The “population mean” of random variable will lie within a certain interval (the confidence interval) around the “sample mean”. The confidence limit on the mean quantitatively relates sampling frequency to the variation in water quality.*

The simplest case of sampling frequency design would be to select the sampling frequency, which results in the desired confidence intervals width about the annual mean for a specified water quality variable at a specified station.

In case of single station and multiple variable separate sampling frequencies for each water quality variable may be computed and then all such values averaged to decide the designed frequency.

In general, changes in the ground water quality take place much slower than the surface water quality. Experience shows that the changes in ground water quality usually can be described satisfactorily by seasonal or annual sampling schedules. Studies corroborate that the quality of the ground water outside the influence of the polluting sources, hardly shows any short-term changes. Hence, the current annual sampling schedule in the month of May serves the purpose of regional background monitoring and for study of long-term quality changes.

8.4 Results and Discussion

The chemical quality of ground water was determined from 763 water samples collected from the phreatic aquifer randomly distributed throughout Chhattisgarh. The samples were collected in pure cleaned polythene containers after rinsing with the water samples and were stored in cool place. These samples were collected during the month of May 2016 in the pre monsoon period, when the concentrations of ions

were maximum. The water samples were analyzed for the major ions viz. pH, EC, CO₃, HCO₃, Cl, Ca, Mg, TH, TA, Na, K, SO₄, NO₃ and F. The TDS, Total alkalinity were calculated by the obtained conductivity value and carbonate, bi carbonate ion concentration. The chemical analysis data are given in Annexure III. From the annexure it may be seen that the chemical quality of the ground water is suitable for drinking, domestic, industrial and agriculture uses in most of the places whereas in few places instinct of contamination is observed that is due to local phenomena.

The chemical analysis shows that the ground water is neutral to low alkaline in nature. The pH value was determined with direct reading pH meter. The determination of pH is an important factor because the solubility of CO₂ and the concentration of the various carbonate species depend on the pH value. The pH value is in between 6.45 and 8.84. The electrical conductivity of water is also expressed as inverse of the electrical resistance across one cm cube of water. It is related to the TDS because it is a function of concentration of all ionic solutes. The EC is temperature dependent and all the readings are related to the equivalent reading at 25° C. The EC values for the groundwater in Chhattisgarh varied between 68 and 3840 micro-Siemens/cm at 25° C. In around 90.82% of the water samples (693 samples), the EC values are found less than 1000 micro-Siemens/cm at 25° C (i.e. 650 mg/l TDS) and is within the prescribed BIS limit for drinking purposes. In 5 water samples, the EC values are found in between 1000 and 2000 micro-Siemens/cm at 25° C. Exceptionally higher EC values are observed at Sitalkunda (3840 micro-siemens/cm at 25° C) observation well in Bilaspur district Distribution of EC in the State is presented as contour map in Fig 8.1.

Calcium (Ca⁺²) was the predominant ion in the ground water of the state and in certain regions Magnesium (Mg⁺²) was high. As per the BIS guidelines the acceptable and permissible limits for Ca in drinking water are 75 mg/l and 200 mg/l, respectively. The concentration of Ca in about 87.81% (670 samples) of the samples was within the acceptable limits (< 75 mg/l) and in only around 11% (85 samples) the concentration was greater than the acceptable and within the permissible limits (75 – 200 mg/l). At eight locations where high Ca concentration was found >200 mg/l. Highest value of Ca was found in Bemetara observation well at Durg district.

Similarly the acceptable limit for Mg in drinking water is 30 mg/l and permissible limit is 100 mg/l. The undesirable affect outside the acceptable limit include encrustation in

water supply structure and adverse affects on domestic uses. The concentration of Mg in about 99.4% (758 samples) of the samples was within the permissible limit and in the remaining samples (5 samples) the concentration was greater than the permissible limit. A very high concentration of Mg was found in Sitalkunda (170.4 mg/l) of Bilaspur district.

The Ca and Mg when combined with HCO_3 , SO_4 and other ions contribute to the hardness in the water. As per the BIS guidelines the acceptable and permissible limits for the hardness as CaCO_3 are 200 and 600 mg/l, respectively. In about 98% (748 samples) of the ground water samples, hardness was within the permissible limit and in 2% (15 samples) of the samples; the hardness was greater than the permissible limit thereby indicating that the ground water is soft or moderately hard in nature. The high hardness value was found in Bemetara observation well (1175 mg/l) at Durg district.

The sodium concentration varies from 0.2 mg/l to 484.5 mg/l and Potassium concentration varies from <0.1 mg/l to 130 mg/l.

The chloride (Cl^-) concentration in the ground water was within the BIS prescribed limits for drinking purposes. Acceptable and maximum permissible limit (IS 10500: 2012) in drinking water are 250 and 1000 mg/l respectively. In almost all of the analysed samples, Cl concentrations were observed within permissible limit. The distribution of chloride in the State is shown in Fig. 8.2.

Higher content of Sulphate (SO_4^{2-}) in drinking water causes gastrointestinal irritation. The SO_4 concentration in the State was found between < 0.1 mg/l and 1154.76mg/l. As per the BIS guidelines the acceptable and permissible limits for SO_4 in drinking water are 200mg/l and 400 mg/l, respectively. The Sulphate concentration in 98.43% of the water samples was within the permissible limits. In 12 water samples, the SO_4 concentrations were beyond the permissible limits. The highest concentration was found in Bitkuli (1154.76 mg/l) of Bemetara district. The villages where the high concentration of sulphate is due to the dissolution of gypsum veins present within shale formation. The distribution of Sulphate is shown in Fig. 8.3.

The acceptable and maximum permissible limit (IS 10500: 2012) of total alkalinity in drinking water are 200 and 600 mg/l respectively. In the study area the total alkalinity in the ground water was observed within the permissible limits in almost all the water

samples. The highest carbonate concentration (12 mg/l) was observed at Kumhari of Durgdistrict. The bicarbonate concentration was observed in between 12.2 and 610 mg/l. A high concentration of Bicarbonate was observed at Salhebara (610 mg/l) of Rajnandgaon district.

Very high value of fluoride in ground water causes mottling of teeth and fluorosis. High values also cause dental carries and teeth decay. In 89.26% (677 samples) of samples the fluoride concentration was observed < 1.0 mg/l. In 8.12% water samples (62 samples) the fluoride concentration was observed within the acceptable range (1-1.5 mg/l) recommended by BIS and only in 3.14% (24 samples) of samples the fluoride concentration was more than the prescribed limits (>1.5 mg/l). The maximum fluoride concentration was recorded at Salkhiya (5.1 mg/l) in Raigarh district. The distribution of fluoride is shown in Fig. 8.3.

The presence of iron in natural water can be attributed to the resultant of geological, hydrogeological and biological processes. The presence of iron in drinking water supplies is objectionable for a number of reasons related to health. Such water is usually unpalatable and stains laundry and plumbing fixtures. Iron ingestion in large quantities results in a condition known as haemochromatosis wherein tissue damage results from iron accumulation. The concentration of iron above the permissible limit (0.3 mg/l,) is found in many wells i.e in 42.85% samples. The highest value of iron reported was from Katangdih observation well (19.29 mg/l) in Raigarh district. The distribution of iron is shown in Fig. 8.3.

The results of chemical analysis of water samples collected during May'2016 is presented in Annexure-II.

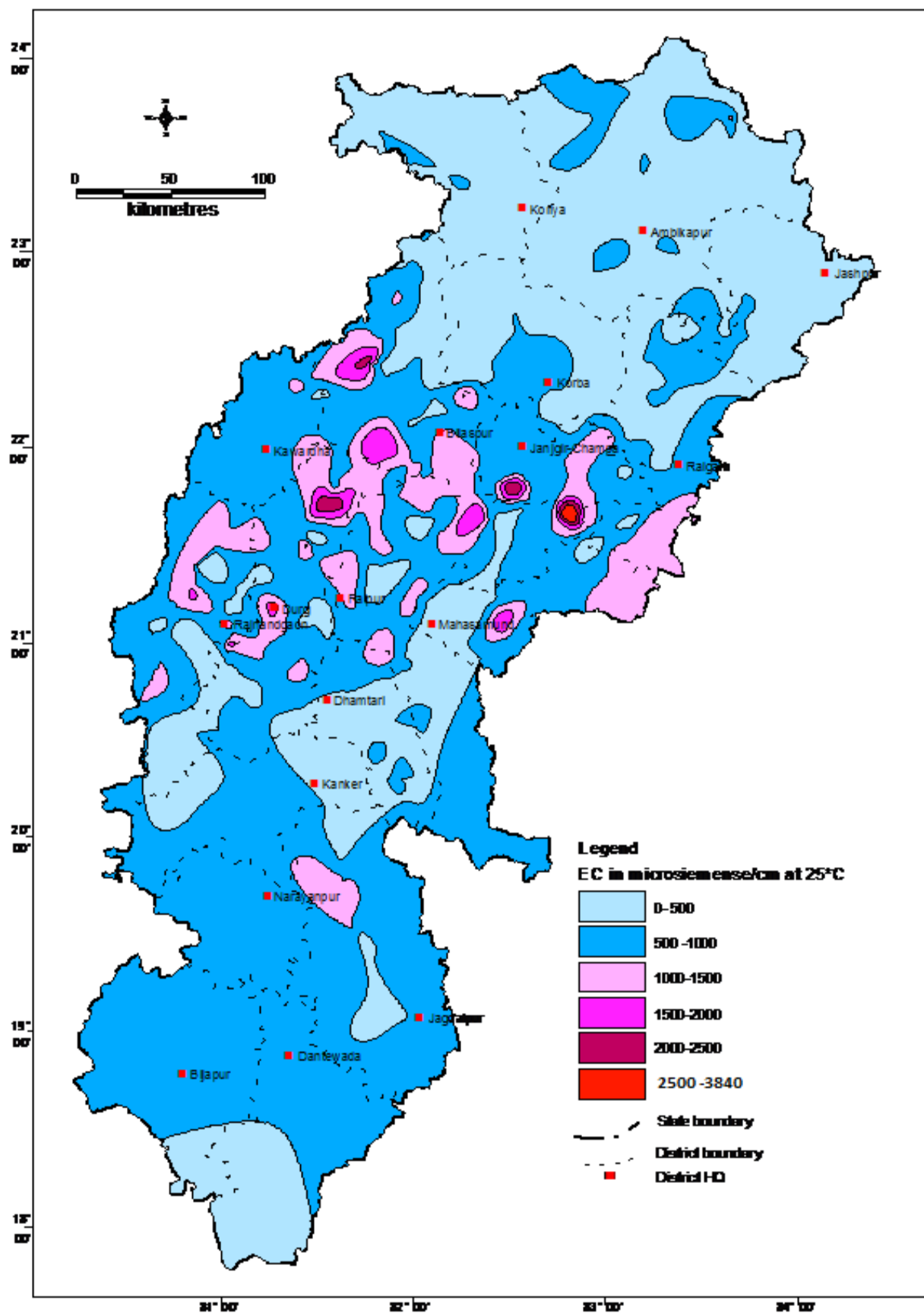


Fig 8.1 EC distribution in Chhattisgarh State

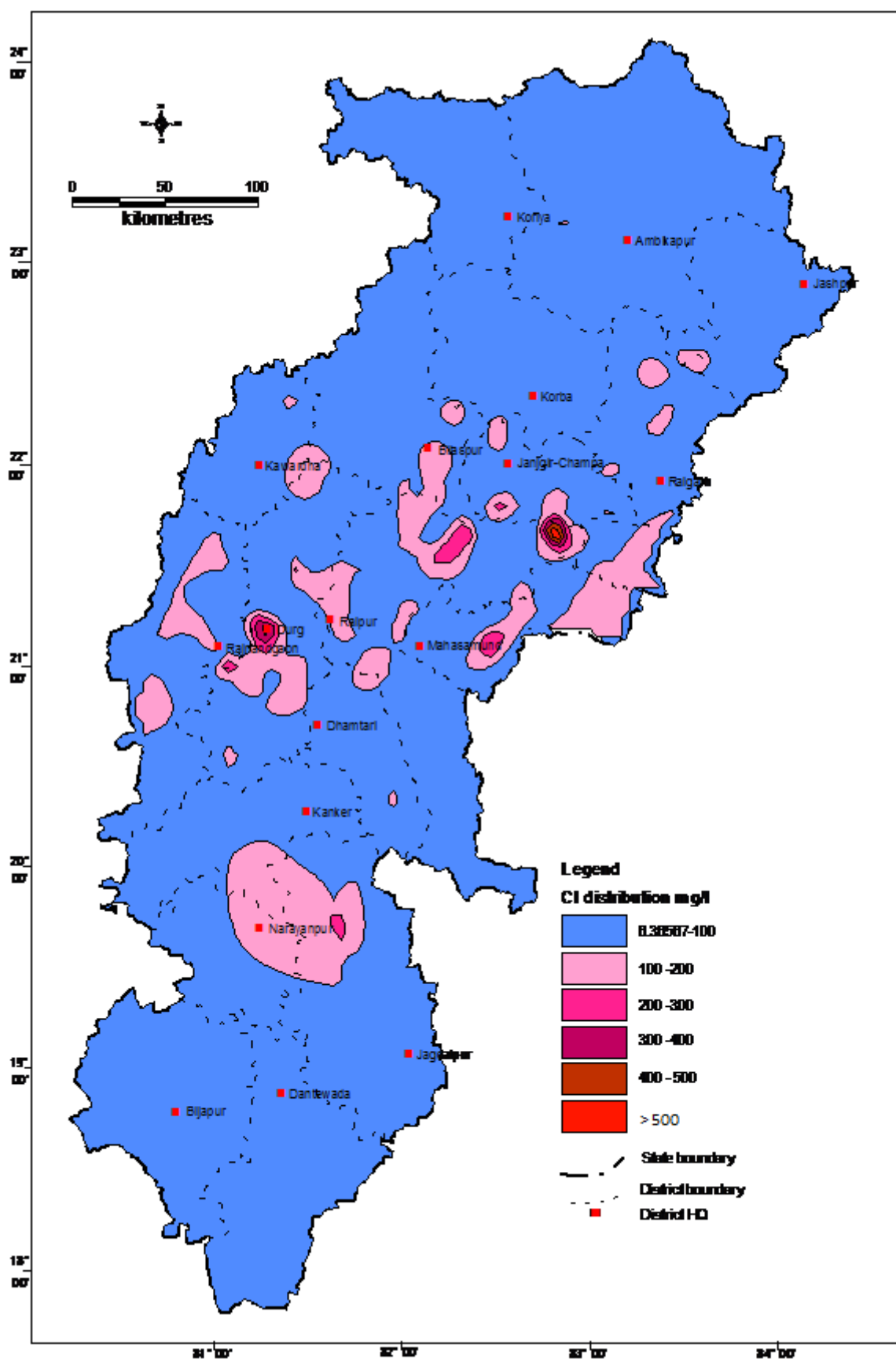


Fig 8.2 Chloride distribution in Chhattisgarh State

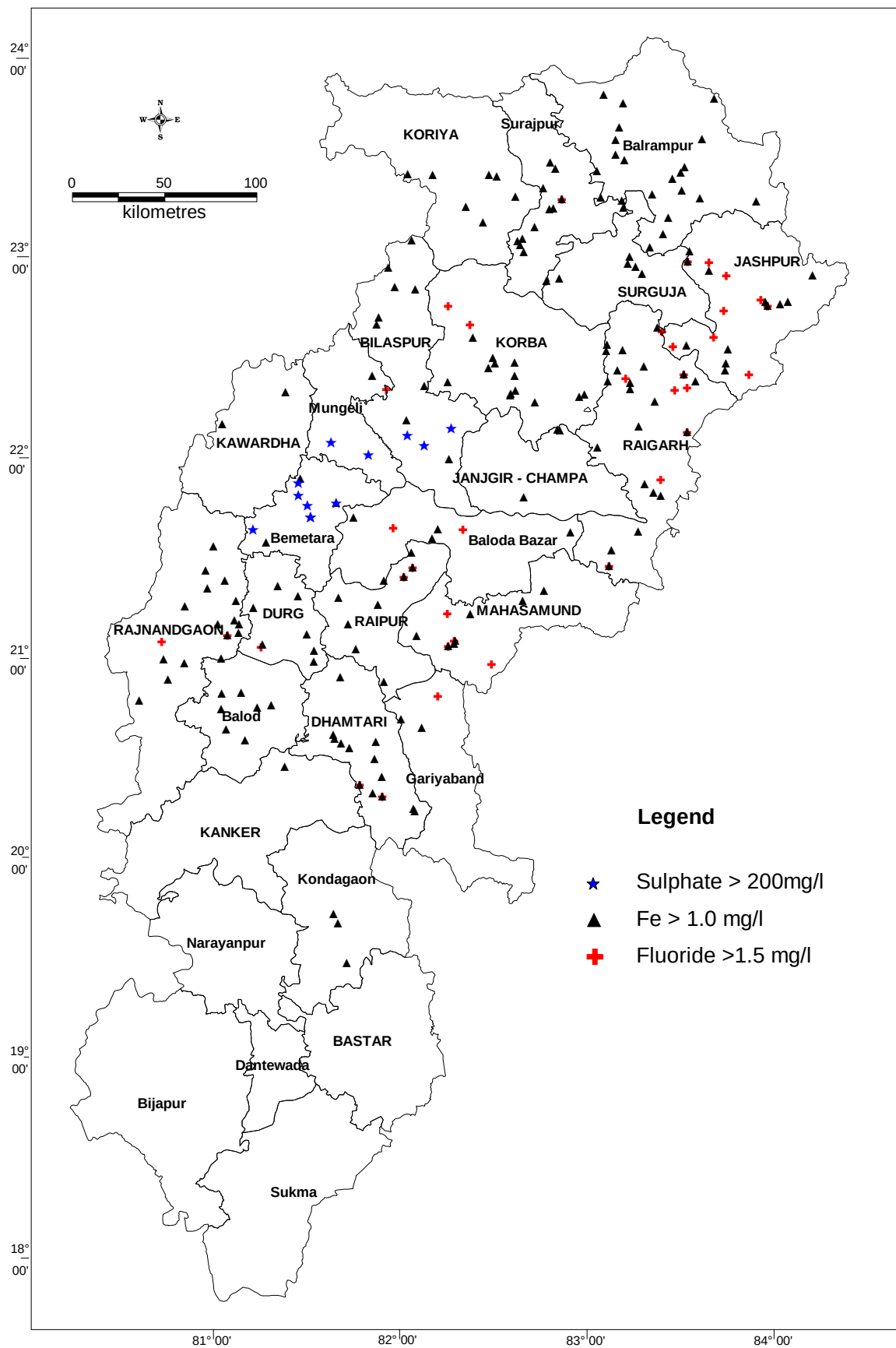


Fig 8.3 Fluoride, Iron and SO₄ distribution in Chhattisgarh State

DEPTH TO WATER LEVELS OF NATIONAL HYDROGRAPH STATIONS					
SI No.	District	May'2016 (mbgl)	Aug'2016 (mbgl)	Nov'2016 (mbgl)	Jan'2017 (mbgl)
	BASTAR				
1	Amravati		1.47		
2	Bare arapur	6.21	1.47	2.16	
3	Bastar	11.20	2.56	4.06	7.22
4	Batrail	6.20	1.48	2.37	4.87
5	Bhanpuri	5.42	1.60	2.31	6.21
6	Bhanpuri-d	18.65	3.40	4.63	7.13
7	Bhanpuri-s		2.85	3.13	7.13
8	Chhapanbhanpuri	4.62	2.17	2.49	7.05
9	Chitrakot	7.19	3.96		
10	Ghodagaon	7.38	2.60	3.16	4.60
11	Jagdarpur	6.21	1.84	5.20	6.87
12	Joba	7.31	2.67	2.91	5.08
13	Keskal		2.40		6.10
14	Kumharwand	3.02	1.70	4.22	3.41
15	Lanjora	9.18	3.85		7.55
16	Markel	9.86	1.97	3.21	7.19
17	Murwand1	4.23	1.61	2.91	4.10
18	Negandar		2.10		
19	Pharasgaon	6.98	1.32	2.76	4.78
20	Pharasgaon1 PZ	14.88	10.04	11.21	9.73
21	Sonarpal	6.55	1.54	2.19	6.03
22	Tongpal		2.36		

	BILASPUR				
23	Achanakmar1	7.32	4.26	4.40	5.67
24	Amadob	9.15	4.37		
25	Amerikhapa	6.08	3.70	4.00	4.95
26	Attaria	11.50	5.20	2.90	4.51
27	Baitalpur	5.19	1.02	2.20	3.45
28	Bansajhal	2.99	2.14	2.40	2.49
29	Bansajhal1 PZ	3.10	3.28	3.60	3.72
30	Barighat	10.71	7.77	8.00	9.14
31	Bartoli	9.45	1.70	2.55	6.35
32	Belgahana	7.74	4.55	4.65	5.56
33	Beltara	5.40	1.73	2.80	3.46
34	Bilaspur	7.26	6.25	3.95	6.80
35	Bilha	11.65	3.60	4.45	6.41
36	Bindabal	9.70	4.95	4.60	6.38
37	Chakrabhata-d PZ	28.50	36.30	16.80	21.15
38	Chandkhuri (d)		4.12		23.90
39	Chandkhuri (s)		4.12		23.90
40	Chattan	8.10	5.61	4.20	6.62
41	Chhaparwa	15.20	16.87		
42	Chilhathi		2.77	4.00	7.40
42	chilhathi		2.40		7.40
43	Chirhula	1.80	1.06	1.90	2.80
44	Dagauri	5.36	4.60	4.60	4.55
45	Danikundi	20.00	16.56	15.30	16.20

46	Deori	9.20	9.15	7.95	8.40
47	Dhanpur	9.22	8.22	5.70	6.60
48	Ganiyari	15.55			3.00
49	Ganiyari.2		2.17		
50	Gatori	3.34	1.70	2.15	2.88
51	Gaurela	6.72	1.42	2.65	4.01
52	Godkhami	8.18	6.00	5.40	7.45
53	Hirri	8.45	2.43	4.70	6.90
54	Jhingatpur	7.34	3.66	4.00	5.20
55	Jogipur	12.10	4.67	5.15	4.04
56	Kanteli.1	11.20	2.73	7.80	8.80
57	Kargikhurud	13.00	2.73	4.21	9.90
58	Kenda	8.43	6.30	7.20	8.07
59	Keonchi	7.70	4.26	4.26	4.63
60	Keonchi (D)	9.10		5.60	7.00
61	Keonchi (s)	7.10	6.12	5.90	6.20
62	Khamharia1	4.84	2.60	4.00	4.26
63	Kota PZ	3.10	3.52	14.10	22.46
64	Kota(kargi)	2.85	1.70	2.00	2.10
65	Kotmi.1	13.10	6.27	8.15	11.00
66	Lamni	16.00			16.00
67	Lormi (d)	9.30	6.76	5.20	7.13
68	Lormi1	4.95	4.80	3.41	4.38
69	Malhar	5.19	3.40	3.20	3.83
70	Marwahi	14.12	8.27	7.30	14.12
71	Masturi	6.30	2.75	4.40	6.02

72	Mungeli(d)	17.11	16.30	19.70	16.70
73	Mungeli(s)	16.77	3.12		15.70
74	Neora	3.53	2.95	3.40	3.28
75	Nimdha	4.60	1.36	2.00	1.85
76	Pali			4.42	
76	Pali	8.31	4.80		6.12
77	Panchpedi	10.40	2.25	3.20	9.16
78	Patera	1.85	1.38	2.05	3.34
79	Patharia (chorbhatti)	3.75	1.95	2.50	5.52
80	Pendra Road	9.30	4.60	4.15	5.70
81	Piparkhuti	7.00	3.95	4.60	6.02
82	Ratanpur	9.05	3.80	5.65	6.75
83	Rupandand	4.70	0.35	2.45	4.64
84	Saraipalli	9.90	5.56	6.08	7.78
85	Seoni	8.10	2.52	7.05	5.68
86	Sewra	8.80	8.70	6.40	4.60
87	Shivtarai New	6.91	3.69	4.60	7.94
88	Sipat	3.70	2.42	3.50	6.05
89	Sitalkunda	5.44	4.54	2.40	6.41
90	Takhatpur.1	10.00	3.03		3.25
91	Tendumuda	8.55	1.02	4.05	4.76
92	Tenduwa	10.85	3.79	3.82	2.70
93	Tikthi	12.00	3.15	4.30	
94	Tilaidabra	6.10	2.70	3.00	3.96
95	Udaypur	7.80	5.67	2.20	6.68

	DHAMTARI				
96	Arsi-kanhar	12.00			
97	Banraud - I	6.70	1.58	2.10	3.74
98	Banraud D	12.08	2.62	5.42	7.18
99	Banraud S	11.85	2.25	5.19	6.73
100	Banspani	9.15	5.04	2.84	3.73
101	Birgudi	11.00	2.34	2.94	3.84
102	Chhati	2.64	1.03	1.89	1.80
103	Dhamtari1 PZ	20.47	20.18	14.74	18.44
104	Dorgardula	9.28	6.45	1.32	3.84
105	Dugli	7.80	1.58	1.74	2.45
106	Gangrel S	14.20	8.90		
107	Gattasilli	6.45	5.07		
108	Jabarra	5.90	1.86		5.62
109	Keregaon	5.08	3.75	3.96	6.01
110	Kondapar	8.90	1.69	2.65	2.04
111	Kosmarra	2.10	4.37	1.74	4.92
112	Kurud.1	4.86	1.86	2.22	2.70
113	Magarlod	7.00	1.86	3.59	5.42
114	Magarlod D	24.10		5.76	9.06
115	Magarlod S	22.05	2.90		12.00
116	Marod	10.20	1.18	1.45	2.01
117	Mega	11.00		7.44	8.93
118	Murrumsilli S		9.25		
119	Nagari PZ	6.90	1.00	4.55	6.13
120	Nagri	7.00	2.00	1.82	3.13

121	Sankra	8.75	4.76	3.74	
122	Seadei	6.78	3.26	3.14	3.97
123	Sihawa	7.12	3.30	3.16	4.62
124	Singhpur	10.68	5.70	5.50	6.77
	DURG				
125	Ahiwara	4.16	1.04	4.25	7.03
126	Anda	3.83	3.32	2.70	3.41
127	Andhiyarkhor	12.30	3.32	12.15	12.25
128	Arjunda	6.10	2.12	2.55	5.88
129	Armarikalan	3.72	3.92	4.80	6.30
130	Ashoga	3.20	2.56		4.19
131	Baklitola	8.00	3.10	4.00	6.03
132	Balod	10.50	2.68	3.25	11.15
133	Balod Gahan	4.51	1.47	2.37	3.50
134	Batera	4.48	2.03	1.95	4.02
135	Bemetara New		2.40	8.75	12.68
136	Bemetera-s		21.50	15.95	13.00
137	Bhailai	4.18	2.40	3.92	3.60
138	Bharnabhat		2.86	3.37	4.79
139	Bitkuli	7.65	4.92	4.70	5.77
140	Dadhi	6.02	5.42	6.60	6.30
141	Dargaon	5.10		3.60	6.61
142	Delli Rajhara	3.45	1.39	2.60	3.00
143	Dhamdha-s	25.55		2.15	6.13
144	Durg	3.70	1.83	2.40	2.40
145	Funda	6.23	1.10	4.99	

146	Ganiyari	13.00	2.51	4.90	5.90
147	Gatapar	9.50	6.36		7.95
148	Girhola	17.50	2.74		15.77
149	Gunderdehi	6.01	0.84	2.75	6.40
150	Gunderdehi1	8.83	5.18		21.30
151	Gurur	5.30	1.62	2.20	4.72
152	Gurur-s	12.60	6.98	6.62	10.73
153	Jagtara	5.90	2.00	4.28	5.70
154	Jamgaon	3.37	5.29		4.84
155	Jeora Sirsa	7.95	3.04	7.45	8.15
156	Kachundur	2.40	0.61	1.05	4.97
157	Khati	7.10	2.42	6.40	8.23
158	Khurmuri	14.00	3.67	14.00	
159	Kodiya	9.50	2.56	6.10	7.18
160	Kumhari	11.17	2.71	2.25	9.36
161	Kusumkasa	6.50	0.64	2.05	6.80
162	Litia	14.00	1.42	3.55	4.55
163	Lohara	3.20	0.55	1.92	2.72
164	Markatola	10.27	3.12	3.91	6.48
165	Marra	3.20	1.25	1.95	3.16
166	Motipur	2.48	1.20	4.03	4.51
167	Nahalda	7.75			
168	Nawagarh1	8.50	4.39		4.13
169	Nawagarh-d	25.30	15.68	15.45	5.10
170	Nawagarh-s	20.30	13.40	19.25	29.15
171	Ninwa	10.60	8.10	9.05	27.10

172	Paoowara	5.86			9.25
173	Parpoda	12.70	2.84	11.40	11.80
174	Patan	3.08	1.30	2.55	3.10
175	Pendri		2.73		3.40
176	Powara			3.35	5.10
177	Ranka Pz I	13.50			13.16
178	Ravelidih	3.67	1.70	2.60	5.28
179	Sambalpur	6.81	2.10	4.00	5.04
180	Sambalpur Pz I	23.60		15.45	25.92
181	Sambalpur2		17.72		
182	Selud1	4.56	1.28	2.75	3.50
183	Selud2	6.43	2.70	1.95	6.20
184	Sikosa	2.83	0.84	1.70	3.55
185	Tarkori	9.40	9.40	7.10	8.19
186	Umradah	9.49	3.00	3.75	9.80
187	Utai-Adarshnagar	1.63	1.56	1.30	1.50
	JANJGIR-CHAMPA				
188	Adbhar	3.10	1.80	2.20	
189	Akaltara	1.85	1.35	1.52	1.50
190	Akaltara S	1.90	1.20	1.42	1.40
191	Baloda -r	8.10	4.50	7.30	10.05
192	Baloda S		5.17	7.80	12.90
193	Bamhani	15.40	2.70	11.40	12.35
194	Bamnidihi	6.90	5.25	4.30	5.36
195	Baradwar D	10.66	3.20	8.65	8.95
196	Budena	2.80		2.18	3.35

197	Champa	12.30		4.35	7.60
198	Champa-d PZ	23.76	3.12	7.63	14.90
199	Champa-s PZ	21.10	0.63	7.50	14.80
200	Chandrapur1		1.86		8.90
201	Dabra	6.99	1.40	1.95	4.30
202	Damau	7.20	4.90	5.40	5.81
203	Dhardei	5.30	1.16	2.30	3.45
204	Dhurkot Nhs	7.80	1.96	2.90	4.65
205	Dongakahrod	3.50	1.40	2.98	2.35
206	Ghoghari	8.52	4.16	5.10	6.30
207	Hasoud	9.54	5.30	5.12	6.30
208	Jaijaipur	12.13	2.12	7.50	10.20
209	Jaijaipur S	11.20	4.06		9.96
210	Janjgir	10.10	2.00	4.80	6.30
211	Janjgir S	8.00	0.83	6.10	
212	Jewara	5.50	2.80	5.50	5.70
213	Jhulan Pakariya	5.25	1.56	3.99	5.12
214	Kera	6.80	3.10	5.05	5.54
215	Khartal	10.72	1.70	2.86	7.72
216	Konargarh		1.60		
217	Latesara	6.10	0.80	2.50	3.50
218	Loharsi	5.00	2.15	1.20	3.35
219	Malkhroda	15.37			
220	Mulmula	5.55	1.20	3.50	5.28
221	Pamgarh	3.20	1.70	2.20	2.54

222	Pamgarh D	4.10	3.46	5.21	10.90
223	Pamgarh S	3.90	2.40	5.10	
224	Sakti		1.45	2.10	3.70
225	Sakti S	10.20	0.50	1.81	8.56
226	Saliabhata	13.10	1.51	5.55	5.80
227	Saragaon2	6.10	1.45	2.10	3.05
228	Sasaha	6.85	1.39	4.10	6.52
229	Semra	9.30	4.02	6.05	9.95
230	Seorinarayan	9.20	9.70	9.45	9.70
231	Seorinarayan1 PZ	9.10	8.32	8.20	
232	Somthi	6.90	0.80	5.00	9.25
233	Sukda	3.70	0.78	1.30	3.25
234	Thathari	4.21	1.40	1.87	3.50
	JASHPUR				
235	Amatolli	4.90	1.10	3.10	3.80
236	Bagbahar S			4.70	6.25
237	Bagh Bahar	7.50	2.43		2.30
238	Bagicha	6.80	3.08	3.50	3.30
239	Bagicha PZ	6.78	1.10	4.60	5.15
240	Bahora	7.81	1.50	3.90	3.55
241	Balachhappar	11.70	1.65	8.90	4.20
242	Bandarchuwa	8.44	4.15	5.20	6.45
243	Banderchua S	9.56	1.50	10.80	9.75
244	Bangaon	8.24	4.30	5.10	5.50
245	Bangaon B	8.32	3.40	5.00	5.25
246	Bataikela	7.55	4.20	5.45	7.10

247	Bewrapali	8.00	2.15		4.40
248	Binjapur	5.86	0.50	3.10	3.25
249	Chhapartoli	6.30	2.50	3.20	4.30
250	Dhodidand	7.45	3.90	3.80	5.00
251	Farsabahar	4.65	0.60	0.80	1.55
252	Farsakanhi	8.30	6.40	6.10	7.00
253	Ghatmunda	8.15	4.80	4.40	5.60
254	Jakba	9.50	6.70	8.10	9.50
255	Jashpurnagar	10.10	3.20	4.50	6.20
256	Kachhor	9.80	4.50	5.00	6.45
257	Kandaibahar	6.00	2.15	3.30	4.35
258	Kandora	7.75	2.15	3.60	
259	Kansabel	11.70	9.90	7.95	9.30
260	Kasawel S	14.03	7.25	9.80	9.85
261	Kersai	5.69	1.80	3.40	1.00
262	Khutsera	7.45	2.15	2.70	3.60
263	Kotba	6.13	2.20	3.30	4.30
264	Kunjara	7.95	2.85	5.25	6.10
265	Kunkuri S	19.07	1.38	14.60	15.80
266	Kunkuri1	6.80	2.02	3.80	
267	Lavakera	9.24	3.55	5.80	6.90
268	Lavakera1	9.09	0.40	5.50	3.90
269	Ludeg	6.60	2.85	3.20	4.30
270	Maini	8.50	1.36	3.15	
271	Mauhadih		3.45		
272	Muskuti	6.88	1.95	3.60	4.60

273	Narayanbaheli	7.61	3.17	5.25	5.95
274	Narayanpur S	7.27	2.25	4.10	4.40
275	Nawaguda		1.34	3.65	5.40
276	Palidih	9.85	9.35	7.15	1.95
277	Pathalgaon	7.18	9.30	8.50	10.05
278	Patratoli	7.80	2.00	3.90	5.15
279	Peta	7.10	3.05	4.10	6.30
280	Phooldih	4.70	1.30	1.60	2.45
281	Raikera	6.92	2.15	4.50	5.45
282	Raikera(Kunkuri)	8.46	2.35	3.80	5.50
283	Raoni	5.10	3.50	4.35	5.50
284	Rupsera	7.50	1.92	3.20	4.70
285	Sanna	7.51	9.05	8.70	10.90
286	Saraipani	4.10	4.15	6.10	6.60
287	Sarkardih	9.93	2.25	3.85	5.60
288	Sonquari	16.00	3.85	4.45	8.40
289	Srishringa	8.15	2.97	4.60	5.30
290	Surangpani New	8.40	3.25	3.20	5.10
291	Tapkara	11.00	3.15	5.50	7.25
292	Tapkara S	10.56			
	KANKER				
293	Dudhawa		1.68	2.21	5.61
294	Govindpur	7.15	1.28	1.60	3.52
295	Kanker1 PZ		4.08	5.31	7.25
296	Kulgaon	9.90	2.44	1.57	4.60
297	Lakhanpuri	6.21	1.85	1.30	2.50

298	Markatola1	12.09			7.81
299	Murpar			3.16	
300	Narharpur		2.61	4.20	7.00
	KAWARDHA				
301	Bharamdeo D	19.40		12.75	17.21
302	Bharamdeo S	24.55		12.15	17.15
303	Bodla		3.41	7.15	14.50
304	Chilpi	9.10	4.34	5.90	5.50
305	Danganiya	7.75	4.28		6.56
306	Kapada	10.00			6.60
307	Kawardha1	6.02	1.87	1.55	4.00
308	Kawardha2		13.40	8.00	
309	Kharoda Kalan	12.00	1.87	4.70	5.89
310	Kui	7.28	2.63		4.77
311	Lohara-d PZ	6.37	4.70	2.25	6.69
312	Lohara-s PZ	6.19		1.75	6.00
313	Munmuna	8.15	2.54	5.30	5.63
314	Rajnanwagaon	5.20		3.90	5.49
315	Sahaspur Lohara.1	4.60	4.40		5.00
316	Saroda Dadar S	23.10		19.08	23.00
317	Singhari D	12.93		6.90	11.23
318	Singhari S	12.90		6.00	11.54
319	Uria Khurud	9.00	3.47	7.00	7.95
	KORBA				
320	Banbandha	4.45	1.70	1.90	2.70
321	Bandhakhar	6.10	3.77	3.30	

322	Batati Junction	10.20	3.54	5.40	7.25
323	Chaitama	7.80	2.83	4.30	5.65
324	Champa Mode	5.40	1.87	2.47	3.20
325	Charmar		2.20		4.90
326	Churi	3.76	2.39	3.56	3.80
327	Dhegurdih Manzipara	9.40	3.54	4.85	7.02
328	Dumardih New	6.95	4.40	5.15	5.32
329	Gopalpur	9.61	3.75	3.60	4.50
330	Jamchuwa	7.30	9.50	4.30	
331	Jatgan	7.30	6.36	6.50	8.70
332	Jhingatpur	10.30			
333	Jogipali	10.40	2.15	5.50	8.00
334	Kartala	10.90	6.77	7.20	9.70
335	Katghora	4.40	1.97	2.50	2.70
336	Khodri	3.25	2.09	1.45	1.87
337	Korba	14.47	3.79	14.47	14.47
338	Kurtha	9.77	9.83	7.94	8.87
339	Lenga	8.05	4.37	5.50	6.61
340	Madai	8.40	4.38	4.80	6.63
341	Morga	14.00	7.12	7.70	9.67
342	Nagai	10.10	6.90	6.75	8.56
343	Naktikhar	6.90	2.98	6.75	4.98
344	Naraibodh	7.50	2.09	4.90	5.80
345	Nawapara	4.95	5.30	2.22	3.89
346	Nonbirra			4.70	5.48
346	Nonbirra	8.00	3.90	3.60	

347	Nonbirra New	7.35	3.85	3.70	7.30
348	Numera	11.90	9.08	8.60	10.05
349	Nunera Pz I	8.55	9.30	4.80	
350	Nunera Pz II	7.25	9.38	4.10	
351	Pali	4.10	1.55	2.15	3.14
352	Pasan	12.10	11.40	11.40	12.10
353	Pasarkhet	5.35	2.76	3.70	4.40
354	Pondi	4.40	1.00	4.11	4.30
355	Ponri	4.20	2.75	2.60	4.85
356	Rajkamma	4.20	1.83	2.83	4.51
357	Rampur		1.12		
358	Ramtarai Pz I	7.90	5.15	4.16	5.30
359	Rewa	8.80	6.20	4.50	6.45
360	Rishdi	7.20	2.07	3.00	4.56
361	Sakdukala	8.61	4.21	6.25	6.58
362	Salihabhata	7.50	2.25	3.70	5.35
363	Sindhiya	5.10	2.54	3.45	5.20
364	Sutarra	8.88	2.76	4.10	5.60
365	Sutera		2.76		
366	Tikeja	10.60	1.60	3.20	5.42
367	Tuman	10.10	4.64	6.50	4.52
367	Tuman	6.40	3.90	5.38	5.72
368	Urga.1	7.00	1.55	3.40	4.28
	KORIYA				
369	Baharsi.1		1.82	3.10	
370	Baikunthpur	6.90	2.10	3.39	5.89

371	Baikunthpur-s	17.15	14.90	14.49	7.77
372	Belbehra	5.95	3.70	4.00	6.57
373	Biharpur	12.10	10.90	10.15	11.85
374	Bikrampur	6.30	2.32	2.98	4.68
375	Chutki		1.30	2.91	4.67
376	Dondki		3.16		3.89
377	Garundol	11.00	8.40	7.10	7.32
378	Ghugra	11.00	3.42	4.40	8.72
379	Girjapur	2.90	1.10	2.20	2.90
380	Jamgahana	6.45	0.90	2.31	6.50
381	Janakpur		2.25	3.92	4.59
382	Kelhari	10.85	2.81	3.30	7.71
383	Khadgaon	13.20			6.03
384	Khatgori	2.85	0.65	1.11	2.15
385	Kiwarpur		1.10	2.51	5.01
386	Manendragarh	4.10	0.81	1.20	1.30
387	Mansukha	10.40	5.72	7.60	8.68
388	Pendri	8.25	1.15	2.29	5.45
389	Pouri	10.35	6.10	4.92	5.93
390	Ranai	13.00	1.61		12.00
391	Rojhi		1.61	2.25	5.09
392	Sarbhoka	5.80	2.80	3.41	5.09
393	Sonhat		1.42	2.38	2.46
394	Tarabahara	5.45	2.37	3.35	5.61
395	Tilokhan	10.00	1.19	1.99	3.68

396	Ujiyarpur1	9.10	5.50	6.10	7.69
	MAHASAMUND				
397	Awaradawri S		12.68	6.81	8.13
398	Bag bahera	11.26	2.45	4.23	6.29
399	Balididih	9.75	9.50	2.71	4.57
400	Barbaspur	8.55		3.17	4.88
401	Basna	3.03	1.77	1.98	3.26
402	Belsunda	10.44	2.23	1.71	4.05
403	Hadabundh	10.90	2.71	3.19	
404	Jagdishpur	10.76	2.38	3.39	5.34
405	Jhalap	9.20	3.39	4.37	5.81
406	Jhalap S		3.27	12.18	18.87
407	Jogideepa D		5.55	5.21	7.84
408	Jogideepa S	9.95		5.33	8.92
409	Jogidipa	8.98	2.31	4.29	6.03
410	Keshwa S	17.80	16.42		
411	Khallari	3.33	1.38	2.41	3.62
412	Mahasamund Contractual S	9.20		9.84	9.27
413	Mahasamund.1	12.50	6.08	5.27	11.52
414	Mahasamund-s PZ	24.60	3.62		
415	Marban	6.95	3.01		3.41
416	Palsipani	10.65	3.53		
417	Patsenduri	8.90	1.15	1.55	2.10
418	Pithora	10.90			
419	Sagrapali	1.51	2.88		
420	Saraipali			2.84	3.94

421	Saraipalli-S PZ	17.98	7.31	7.47	10.88
422	Sirpur	13.15			
423	Sirpur1 PZ	10.30	9.30	8.26	2.29
424	Suarmar	10.25	8.50	4.29	5.49
425	Suarmar1 PZ	8.95	7.60	5.36	7.13
426	Tendukonda	12.98	1.97	2.33	3.24
427	Tumgaon	10.15	2.71	2.04	3.37
428	Tumgaon S		2.76	4.32	5.92
	RAIGARH				
429	Chhal	3.67		2.20	
430	Amapali	8.70	4.45	5.00	5.55
431	Auranar	11.11	6.40	6.70	7.25
432	Bakaruma	8.36	8.80	7.20	8.20
433	Bamsjer	7.80	0.50	1.60	
434	Baramkela	2.97	1.60	2.30	3.50
435	Baramkela S	25.00	18.10	29.40	27.20
436	Barpali	9.03	5.00	6.70	7.40
437	Bartapali	7.45	3.00	4.60	7.25
438	Bataupali	5.08	2.50	3.10	5.60
439	Bayasi	7.50	1.95	3.60	5.65
440	Bhangari	8.10	4.95	6.50	8.25
441	Bhupdeopur S	25.85	4.30	6.20	11.10
442	Bojia	6.42	2.05	3.15	4.50
443	Bonda	3.40	0.10	1.50	1.50
444	Boro	11.20	6.20	6.70	8.25

445	Chaple	6.52	1.80	2.10	4.20
446	Chaple S	8.38	1.35	6.80	5.30
447	Chimtapani	14.15	3.00	6.00	10.85
448	Damdarha	9.85	9.15	8.30	9.12
449	Derpani	6.00	1.80	2.20	2.20
450	Dharamjaigarh PZ	5.49	1.14	4.80	4.80
451	Dharmajaigarh	7.09	3.15	4.60	5.55
452	Duliamuda	9.40	6.55	6.40	8.10
453	Dumarpali	8.71	0.60	3.15	2.60
454	Durgapur	9.70	3.25	4.65	6.90
455	Edu	7.73	4.50	4.90	5.95
456	Farkanara	10.81	3.05	4.15	6.25
457	Gare Nhs	6.70	2.10	4.70	4.30
458	Gersa	6.55	3.10	4.60	5.40
459	Gharghoda	9.95	6.00	3.90	5.80
460	Golabuda	9.71	6.10	5.60	7.90
461	Hati	9.56	2.90	4.15	6.15
462	Hirri1	9.10	1.20	3.20	5.85
463	Kanakbira	10.80	5.50	8.60	11.70
464	Kandadand	8.55	2.20	3.85	5.90
465	Kapu	8.18	3.40	4.10	5.60
466	Kerajhar	4.80	1.30	3.10	3.40
467	Khadgaon1	13.20	10.40	10.50	4.65
468	Kharasia S	19.00	12.45	8.10	11.85
469	Kharsia	7.10	1.80	2.70	9.05
470	Kotra	2.00	0.60	1.50	2.10

471	Kurekela	14.55	7.70	8.70	1.60
472	Lailunga1	9.69	3.40	6.00	9.35
473	Lailunga2	8.29	4.70	5.50	9.35
474	Lakha	7.10			7.56
475	Lakshmipur	4.30	3.50	4.30	7.90
476	Laripani	10.35	1.30	5.10	2.10
477	Lendra S	13.07	0.38	2.50	4.50
478	Lipti	6.72	3.90	3.80	7.10
479	Malda B		3.25	5.50	7.30
480	Milupara-Sidarpara	11.58	6.15	8.50	4.00
481	Mumund	6.10	2.19	3.25	4.00
482	Pakargaon		1.15	2.90	3.45
483	Pindri	5.82	0.80	1.50	3.90
484	Raigarh	3.93	3.00	3.15	17.00
485	Raiharg S	19.30	2.42	12.40	4.30
486	Rajpur.1	7.14	4.00	3.30	2.70
487	Rera	5.41	1.48	1.90	6.00
488	Salkhiya	7.20	4.15	4.30	5.20
489	Samaruma	6.05	4.55	4.70	
490	Saria1	3.00	1.30	2.80	2.90
491	Shahpur Colony	10.45	4.55	4.95	6.90
492	Sisinga	8.15	2.80	3.90	5.95
493	Tadola	6.50	0.10	1.00	1.50
494	Taraimal		8.40		
495	Taraimal1.1	6.00	2.35	3.30	4.36

496	Taraimar	8.19		10.40	9.05
497	Tetla	6.81	1.65	2.00	1.85
	RAIPUR				
498	Abhanpur	7.13	2.27	1.89	19.90
499	Abhanpur D	15.33	2.93	4.37	7.05
500	Abhanpur S	8.83	2.90	4.18	5.26
501	Amera	6.10	1.12	2.31	3.66
502	Aouri	6.65	1.12		
503	Arang	9.15			
504	Arjuni	7.05	1.60	2.38	4.28
505	Arjuni S	16.20	3.60		
506	Bajrangpur	1.99	1.03	1.66	1.31
507	Baloda bazar	15.40	2.28	2.89	4.57
508	Baloda bazar1	21.20			
509	Bhatgaon	9.05	1.17	1.33	2.24
510	Bhattapara-S	8.20	5.78		6.72
511	Biladi	18.00	4.10	2.54	3.93
512	Bilaigarh	5.35		1.02	2.37
513	Bilaigarh S	10.16	1.97		
514	Bindra nawagarh	8.50			
515	Chanderi	9.60	1.34	1.92	4.75
516	Chandi	7.00	0.85	1.74	2.59
517	Charauda		1.40	1.36	2.83
518	Chhura	6.40	4.48	3.92	4.41
519	Chicholi	12.65	0.76	1.72	2.75
520	Darchura	10.54	2.00	1.44	3.40

521	Devpuri	14.04	2.83	3.52	10.50
522	Devri	6.60	5.45	3.03	3.30
523	Dhamarkhera		2.00	2.72	3.81
524	Dharsiwa	3.10	0.47	3.75	5.42
525	Dharsiwa S			5.64	
526	Dumartarai	10.42	1.64	2.02	5.67
527	Fingeshwar	11.65	2.70	2.13	2.89
528	Gariabandh-s	13.40	8.60	5.64	
529	Gariyaband	10.50	3.67	2.86	3.84
530	Gariyaband-d	13.40			
531	Haswa	14.83	1.82	1.74	2.74
532	Kanekera	2.25	1.35	1.37	3.22
533	Kanki	3.90	1.31	1.81	3.49
534	Kanki D	4.26	2.10	3.64	5.16
535	Kanki S	4.26	1.50		
536	Kasdol	7.20	1.77	3.19	4.63
537	Kasdol-d	9.93	2.86	3.62	5.58
538	Kasdol-s PZ		2.60		
539	Khapri	11.20	5.33	4.77	5.97
540	Kharora	12.10	1.73	3.41	5.39
541	Lahaud	7.71	1.80	2.67	4.72
542	Lawan	3.70		2.89	3.79
543	Manabasti	7.78	2.70	3.12	4.55
544	Mandalpur	4.07	1.40	0.94	
545	Mandhar		0.97	2.54	
546	Mandhar D		2.70		

547	Mandhar S		1.34		
548	Mandirhasud		3.00	3.84	14.50
549	Mudhipar	5.80	0.71	2.95	4.72
550	Mundagaon		2.21	1.64	2.76
551	Palari	9.80	1.67	3.41	4.84
552	Palari D		1.67		
553	Palari S		1.67		
554	Pandan Bhata	5.82	1.85	2.61	3.49
555	Panderbhata S	5.00	1.89	4.59	7.18
556	Panduka	6.57	1.88	1.22	2.54
557	Raipur	5.20		2.51	3.16
558	Raita Satna Ni Para	9.00	1.76		3.16
559	Rajim	10.80	7.90	3.67	4.15
560	Rajim-s PZ	9.70	7.64		8.62
561	Ranisagar	4.12	1.81	1.12	
562	Ravi Shankar University Raipur	6.70	2.00	4.24	1.59
563	Risda	8.70	1.05	2.01	5.12
564	Sakara	12.40	2.60		3.22
565	Sandi	8.90	3.56	3.21	7.02
566	Sandi1	7.92	1.04	3.64	4.61
567	Saragaon	4.15	1.45	2.04	5.63
568	Sarsiwa	10.14		3.72	5.37
569	Sel	2.41	0.55	1.10	1.89
570	Semariya	11.15	1.18	2.79	4.12
571	Simga	3.50	1.25	2.18	2.76

572	Simga-s	27.00			
573	Suhela	7.96	1.10	3.63	
574	Sursabandha	8.16	1.94	1.81	2.63
575	Tarenga	16.00		4.24	5.88
576	Tarpongi	5.55	1.32	2.81	2.98
577	Tatibandh MVM	9.20	2.21	4.02	6.30
578	Tilda Purani Basti	3.98	1.93	3.82	4.72
579	Udela	4.55	1.78	2.15	3.42
580	Umaria station	8.32	1.70	3.06	5.40
	RAJNANDGAON				
581	Badaitola	13.30	4.21	2.65	
582	Baigatola	2.80			8.16
583	Bandha Bazar	3.61		2.05	
584	Chinohola	9.70	2.62		8.95
585	Chirchari	12.02	2.72	2.40	9.00
586	Chuikhadan	12.00	12.00	8.00	
587	Dhaba		2.39		
588	Dhaneli	7.98	3.92	4.35	5.51
589	Dhara	7.80	2.46	5.40	5.51
590	Dongargaon.1	8.94	1.39	3.20	4.49
591	Dongargarh	10.70	3.42	5.90	7.28
592	Dongargarh-d PZ	9.38	3.91	2.65	7.74
593	Dongargarh-sPZ	9.22		2.52	7.50
594	Gandaipandaria	8.25	7.20		8.32
595	Gandatola	8.25			
596	Govindpur	7.15	1.92	3.65	4.50

597	Khairagarh	8.20	5.72	6.80	8.20
598	Kokpur			4.22	
599	Kokpur-I	6.80	5.72		5.36
600	Kumarda.1	9.40		4.80	5.74
601	Lal bhadurnagar	9.20	2.39	3.15	
602	Madrakuhi	5.60	2.10	3.15	5.10
603	Mohgaon	3.01	3.82		3.95
604	Narmada	5.40	2.21	3.70	4.95
605	Rajnandgaon	2.56	2.12	2.30	2.40
606	Rajnandgaon-S PZ	9.05	10.40	3.65	8.60
607	Ramatola	13.50	3.24	7.70	
608	Rampur	4.63		2.05	4.05
609	Rangkathera	5.85	1.42	3.05	4.20
610	Ranitarai	9.70	1.24	2.00	4.17
611	Ravagahan		2.82	1.80	2.95
612	Reevagaon	8.30	2.42	4.25	5.10
613	Salgapat	9.31	4.29	8.00	
614	Salhe Bara	10.10		7.29	8.00
615	Saloni	6.48	1.84	2.80	3.90
616	Singhola	4.28	1.27	1.60	2.80
617	Somni	5.82	2.02	2.15	7.25
618	Talai	13.30	2.53	3.15	8.50
619	Tappa	11.30	2.84	4.50	8.91
620	Uraidabritola	11.40	2.29	4.65	7.82
	SURGUJA				
621	Alkadih	3.00	1.95	3.45	4.81

622	Ambikapur	9.10	2.00	4.56	5.65
623	Ambikapur-D	17.50	11.17	12.70	14.05
624	Ambikapur-s	17.30	11.98	11.07	13.09
625	Amdih	5.60	1.02	2.94	4.16
626	Bachwar	6.45	2.56	3.93	5.05
627	Badsara	6.35	2.10	4.98	6.17
628	Baghima	4.50	1.20	2.49	3.87
629	Balrampur	18.00			
630	Balrampur D	16.10			
631	Balrampur S	16.85			
632	Bandana	8.10	4.98	6.91	6.80
633	Batauli		6.72	7.94	
634	Batauli S	12.10	4.50	8.30	6.75
635	Bhaiyathan	12.15	5.16	5.09	6.61
636	Bulga	6.70	0.76	2.80	3.81
637	Chandora	6.40	0.80	2.73	4.08
638	Chatakpur	5.60		3.68	4.90
639	Dandgaon	4.30	5.05	5.37	3.92
640	Darima	8.30	1.30	4.42	5.92
641	Deonagar	7.90	1.20	3.66	5.31
642	Dhamni	7.90			3.53
643	Dhaurpur	6.10	1.50	4.19	6.16
644	Dhaurpur S	11.50	1.06	2.18	5.16
645	Ganeshpur	5.15	3.44	4.67	6.11
646	Ghorghadi	7.50	3.14	4.13	4.73

647	Gonda	6.78	1.75	5.03	6.98
648	Jagannathpur	5.10	0.65	2.51	4.88
649	Jaynagar	10.10	3.55	5.30	6.54
650	Jhasi	7.10	2.52	4.90	5.39
651	Kakalo	6.85	1.17	3.98	5.60
652	Kalyanpur		2.18	4.73	5.87
653	Kamleswarpur	16.70	2.24	5.18	7.79
654	Kanakpur	8.40	4.34	5.60	7.23
655	Karmdiha	8.40			
656	Kunni	6.15	3.56	5.66	7.10
657	Kurji	7.90	1.21	5.40	5.92
658	Lamgaon	6.70			
659	Lundra	6.40	2.51	6.15	7.38
660	Mahewa	7.45	1.98	4.82	5.79
661	Makanpur	8.50	2.57	4.63	5.37
662	Mangari	8.70	0.96	3.54	5.26
663	Nagadand	18.60	1.19	11.66	13.20
664	Nawapara	7.40	1.80	3.21	7.72
665	Odigi		3.68	4.30	5.15
666	Parsa	10.00	4.89	5.50	4.57
667	Pasta	8.10	3.14	4.77	6.20
668	Pasta S	10.15	5.18	7.61	5.23
669	Pratapgarh	7.82	4.05	4.90	9.57
670	Pratappur	10.90	2.50	7.05	4.60
671	Pratappur1			6.67	
672	Premnagar	11.60	9.60	9.80	11.70

673	Premnagar D	16.15	12.56	14.78	15.22
674	Rajpur	10.30	1.87	4.50	3.94
675	Rajpur1	11.55	2.60	7.73	6.69
676	Ramanuj nagar	9.50	7.70	8.18	9.89
677	Reonti	12.10	6.87	7.15	9.02
678	Sargaon	5.85	3.89	7.20	7.60
679	Shankargarh S	16.50	4.98	8.86	10.39
680	Sirsi	8.40		4.92	
681	Songara	13.50	8.20	4.80	6.79
682	Songara1			7.65	
683	Surajpur		4.78	7.31	4.58
684	Tara	15.44	13.10	15.44	15.44
685	Tara1	15.10	15.68	13.48	14.17
686	Udaipur	11.20	2.64	4.75	6.70
687	Udaipur Dhah	3.85	1.30	3.61	4.40
688	Udaipur-s	19.50	10.24	13.16	10.09
689	Wadrafnagar	12.00	5.92	7.69	8.39

Chemical Results of NHNS 2016-17 (Annexure-II)

S. No.	District	Location	pH	EC	TA	TH	Ca	Mg	Na	K	CO ₃	HCO ₃	Cl	SO ₄	F	SiO ₂	PO ₄	Fe
1	Balod	Chichalgondi	8.21	1188	255	210	32	31.2	161.5	4.3	0	311	188.2	70.0	0.3	21.5	0.3	0.221
2	Balod	Danganiya	7.83	1579	100	615	148	58.8	60.4	1	0	122	323.1	156.6	0.1	21.7	0.1	0.091
3	Balod	Gujara	8.3	514	215	210	40	26.4	32.8	0.2	3	256	53.3	11.0	0.6	25.0	0.1	0.554
4	Balod	Kalangpur	7.98	1081	140	355	126	9.6	43.5	0.5	0	171	181.1	62.1	0.2	42.7	0.6	0.214
5	Balodabazar	Kharghata	7.59	412	105	135	36	10.8	33.6	1.8	0	128	56.8	30.3	0.8	37.6	0.0	0.046
6	Balodabazar	Kedar	7.39	481	105	170	60	4.8	24.8	1.7	0	128	49.7	54.9	0.6	8.9	0.0	0.123
7	Balodabazar	Pahangaon	7.51	403	75	150	52	4.8	17.9	1.7	0	92	28.4	90.6	0.7	7.2	0.0	0.123
8	Balodabazar	Udela	7.48	1595	150	365	90	33.6	101	130	0	183	269.8	41.3	0.7	30.3	0.0	0.000
9	Bastar	Murwand	8.3	333	170	150	30	18	15.8	0.4	6	195	14.2	7.5	0.8	13.2	0.1	0.296
10	Bastar	Keskal	8	821	190	300	56	38.4	43.6	0.8	0	232	131.4	36.0	1.2	24.3	0.1	0.148
11	Bastar	Batrail	8.3	386	115	100	34	3.6	37.9	2.3	6	128	49.7	12.8	1.0	11.8	0.1	0.132
12	Bastar	Pharasgaon	8.1	335	75	115	36	6	14.3	2.8	0	92	49.7	2.7	0.8	32.7	0.2	0.345
13	Bastar	Lanjora	7.8	1157	180	435	102	43.2	27.3	2.9	0	220	241.4	22.3	0.1	30.9	0.2	1.020
14	Bastar	Jaitpuri	8.3	337	95	110	30	8.4	13.7	10.7	6	104	35.5	5.1	0.0	2.7	0.2	1.497
15	Bastar	Chikalphuti	8.1	225	60	70	24	2.4	10.8	5.8	0	73	17.8	3.5	0.0	11.8	0.1	0.099
16	Bastar	Dahikonga	8.2	531	110	220	70	10.8	14.4	0.4	0	134	78.1	10.4	0.0	22.3	0.2	1.447
17	Bastar	Joba	8.5	308	140	120	34	8.4	19.2	0.6	9	153	21.3	1.5	1.4	3.6	0.2	0.609
18	Bastar	Kumharwand	8.2	271	115	120	46	1.2	4.1	1.5	0	140	14.2	7.3	0.0	0.0	0.3	0.164
19	Bastar	Chhapan Bhanpuri	8.1	253	105	110	34	6	6.6	0.6	0	128	17.8	3.8	0.1	0.0	0.1	0.049
20	Bastar	Chitrakot	8.5	272	135	125	32	10.8	8.6	1.7	6	153	14.2	1.2	0.0	8.2	0.1	0.510
21	Bastar	Usari Beda	7.9	390	175	170	62	3.6	3.9	1.3	0	214	14.2	1.4	0.0	6.8	0.1	0.115
22	Bastar	Jagdapur	8	459	70	125	32	10.8	44	1.2	0	85	71.0	1.9	0.0	3.5	0.1	0.066
23	Bastar	Markel	8.6	330	130	140	40	9.6	4.5	1.2	6	146	21.3	2.5	0.0	7.7	0.1	0.510
24	Bastar	Kudalgaon	8.2	331	155	155	22	24	3.4	0.9	0	189	14.2	1.7	0.0	3.6	0.1	0.395
25	Bastar	Bastar	8.1	390	135	160	54	6	10.3	0.7	0	165	46.2	1.6	0.0	0.0	0.1	0.954
26	Bastar	Sonarpal	8	317	130	120	42	3.6	11.9	3.1	0	159	21.3	3.5	0.0	0.0	0.1	0.082

27	Bastar	Bhanpuri	8	310	130	140	46	6	3.6	0.9	0	159	21.3	2.3	0.0	0.0	0.1	0.609
28	Bastar	Ghorigaon	8.1	412	140	175	46	14.4	10.4	0.7	0	171	46.2	2.1	0.0	7.3	0.1	0.888
29	Bemetara	Baba Mohtara	8.11	703	120	335	92	25.2	23.9	2.6	0	146	39.1	209.9	0.0	16.1	0.1	0.000
30	Bemetara	Bahera	7.88	1407	110	625	142	64.8	47.2	2.7	0	134	188.2	323.5	0.2	17.9	0.1	0.000
31	Bemetara	Baiji	7.82	1363	100	665	182	50.4	30	2.6	0	122	95.9	403.9	0.4	21.8	0.1	0.000
32	Bemetara	Bijabhat	8.03	724	160	305	66	33.6	20	11.5	0	195	81.7	42.8	0.1	18.6	0.3	0.000
33	Bemetara	Chilphi	7.91	1730	140	680	156	69.6	110	14.5	0	171	113.6	620.9	0.5	22.1	0.3	0.017
34	Bemetara	Dunra	8.2	737	215	280	52	36	46.5	1.4	0	262	24.9	35.6	0.2	13.2	0.3	0.000
35	Bemetara	Jata	8.17	520	170	240	40	33.6	9.4	0.8	0	207	28.4	69.5	0.5	14.3	0.3	0.000
36	Bemetara	Khilora	8.11	637	175	275	54	33.6	21.4	1.1	0	214	99.4	34.3	0.7	15.4	0.2	0.017
37	Bemetara	Ninwa	8.04	806	180	295	62	33.6	40.1	19.6	0	220	24.9	120.7	0.3	14.1	0.2	0.000
38	Bemetara	Parpoda	8.19	383	115	140	40	9.6	30.2	0.8	0	140	71.0	11.3	0.2	14.1	0.3	0.000
39	bemetara	Rampur (Bhand)	8.11	1246	220	415	126	24	25.4	60	0	268	67.5	236.5	0.0	16.8	0.7	0.128
40	Bemetara	Sondh	8.18	506	90	190	54	13.2	23.2	10	0	110	110.1	29.3	0.5	13.6	0.3	0.017
41	Bemetara	Suwartala	7.9	968	110	430	100	43.2	22.8	0.8	0	134	63.9	277.2	0.2	33.0	0.4	0.214
42	Bemetara	Bemetara	7.92	2470	95	1145	336	73.2	58.7	2.2	0	116	46.2	993.0	0.9	8.5	0.2	0.135
43	Bemetara	Pendri	7.86	2020	115	825	202	76.8	77.1	3.6	0	140	351.5	200.6	0.4	7.3	0.3	0.241
44	Bilaspur	Achanakmar	8.19	359	130	125	32	10.8	24.2	3.1	3	153	28.4	13.9	0.3	45.7	0.1	4.326
45	Bilaspur	Amerikapa (Tala)	8.26	1428	190	575	88	85.2	45.3	6.17	0	232	227.2	175.2	0.3	5.4	0.1	0.034
46	Bilaspur	Attaria	8.21	632	150	150	42	10.8	82.11	7.7	6	171	60.4	19.5	0.4	44.3	0.7	0.000
47	Bilaspur	Baitalpur	8.27	910	150	335	58	45.6	55.1	1.5	0	183	32.0	252.3	0.4	2.7	0.4	0.013
48	Bilaspur	Banabel	8.25	789	225	250	42	34.8	48.7	3.2	0	275	92.3	33.9	0.4	18.6	0.5	0.000
49	Bilaspur	Bansajhal	8.26	350	135	70	20	4.8	55.4	4.4	0	165	24.9	10.6	0.3	11.3	1.0	0.120
50	Bilaspur	Barighat	8.27	376	165	140	36	12	20.5	0.9	0	201	10.7	6.5	0.3	47.5	0.5	0.721
51	Bilaspur	Bartoli	8.24	838	175	290	40	45.6	42.5	1.3	0	214	106.5	49.9	0.0	7.0	0.2	0.034
52	Bilaspur	Belgahana	8.27	536	180	150	36	14.4	36.38	22.5	0	220	46.2	25.2	0.1	31.9	0.2	0.034
53	Bilaspur	Beltara	8.25	1393	215	480	114	46.8	67.8	1	0	262	241.4	72.6	0.5	30.4	0.1	0.077
54	Bilaspur	Bilaspur (Hemunagar)	8.11	2090	80	620	204	26.4	256.9	1.4	0	98	142.0	816.5	0.3	4.3	0.2	0.979
55	Bilaspur	Bilha	8.29	640	190	235	38	33.6	36.3	0.2	0	232	35.5	85.0	0.3	3.7	0.3	0.034

56	Bilaspur	Binauri	8.28	586	200	195	42	21.6	46.5	6.5	0	244	21.3	56.3	0.4	11.1	0.5	0.000
57	Bilaspur	Bindabal	8.24	548	155	220	40	28.8	25.9	1.6	0	189	35.5	37.2	0.5	28.8	0.3	0.206
58	Bilaspur	Bitkuli	8.21	843	120	370	74	44.4	28	3.3	0	146	60.4	190.8	0.2	3.3	0.2	0.056
59	Bilaspur	Bothidih	8.27	188	55	55	16	3.6	15.4	2.6	0	67	14.2	7.1	0.1	38.8	0.8	0.000
60	Bilaspur	Chakarbhata	8.28	647	170	275	62	28.8	20.5	1.8	0	207	63.9	40.8	0.1	10.9	0.6	0.034
61	Bilaspur	Chchghohana	7.45	327	100	90	24	7.2	33	1.3	0	122	10.7	7.2	0.1	57.7	0.2	0.099
62	Bilaspur	Chhapparwa	8.08	1039	155	460	122	37.2	20.7	1	0	189	28.4	53.7	0.4	80.0	0.2	0.957
63	Bilaspur	Chhatan	7.65	433	125	190	46	18	12.6	1.4	0	153	28.4	8.0	0.2	15.8	0.1	0.313
64	Bilaspur	Chilhathi	7.4	417	160	170	24	26.4	59.5	7.1	0	195	10.7	15.6	0.3	2.5	0.1	0.000
65	Bilaspur	Chirhula	8.27	849	155	370	94	32.4	24.5	1	0	189	21.3	100.9	0.2	4.1	0.5	0.185
66	Bilaspur	Dagauri	7.45	1150	100	515	124	49.2	17.2	1.4	0	122	21.3	302.8	0.0	1.9	0.6	0.013
67	Bilaspur	Ganiyari	7.24	395	100	85	30	2.4	44.4	1.3	0	122	53.3	11.0	0.2	75.5	2.2	7.567
68	Bilaspur	Daukapa	7.51	720	235	145	16	25.2	85	24.5	0	287	28.4	79.1	0.2	6.6	0.5	0.013
69	Bilaspur	Deori	8.44	1878	410	800	152	100.8	24.4	1.5	6	488	220.1	81.7	0.3	34.9	0.6	0.013
70	Bilaspur	Dhanpur	7.34	323	75	45	10	4.8	56.5	1.9	0	92	35.5	20.1	1.4	59.4	0.6	0.013
71	Bilaspur	Danikundi	7.21	431	150	110	24	12	47	1	0	183	21.3	22.1	0.3	34.5	0.2	0.000
72	Bilaspur	Gatori	7.3	206	45	45	14	2.4	26	1.5	0	55	24.9	11.1	0.0	9.6	0.1	0.013
73	Bilaspur	Gaurela	7.54	226	70	90	28	4.8	9.3	0.7	0	85	24.9	10.2	0.2	51.2	0.5	0.399
74	Bilaspur	Ghansipur (sainik camp)	8.28	603	130	275	58	31.2	10	2.7	0	159	71.0	28.5	0.1	37.2	0.2	15.830
75	Bilaspur	Godkhami	7.61	414	190	170	38	18	14.6	0.5	0	232	10.7	5.8	0.2	22.5	0.3	0.077
76	Bilaspur	Hirri	7.9	662	160	270	46	37.2	24.5	0.6	0	195	49.7	73.6	0.4	18.4	0.1	0.077
77	Bilaspur	Jhingatpur	8.27	544	30	225	74	9.6	18.1	1.4	0	37	49.7	23.3	0.4	37.4	0.2	0.077
78	Bilaspur	Kanteli.1	8.27	478	140	160	28	21.6	25.2	2.9	0	171	42.6	16.5	0.4	16.6	0.2	0.770
79	Bilaspur	Kenda	8.48	308	125	115	34	7.2	21	1.2	6	140	21.3	8.8	0.3	46.9	0.2	0.099
80	Bilaspur	Keonchi	8.65	328	130	100	28	7.2	31.6	1	6	146	17.8	8.8	0.1	33.5	0.2	0.421
81	Bilaspur	Khamharia1	8.15	539	130	205	48	20.4	18.4	0.8	0	159	10.7	90.8	1.0	13.9	0.5	0.120
82	Bilaspur	koni	8.43	402	110	120	14	20.4	31.6	1.4	6	122	46.2	20.0	0.2	13.7	1.0	0.142
83	Bilaspur	Kota(kargi)	8.2	623	95	220	50	22.8	25.9	1.1	0	116	110.1	41.1	0.2	9.0	1.2	0.120
84	Bilaspur	Kotmi.1	7.6	526	100	175	54	9.6	30.6	2.1	0	122	88.8	13.8	0.0	110.9	1.0	0.142

85	Bilaspur	Kudwahi	8	347	100	125	34	9.6	23.2	2.9	0	122	49.7	4.7	0.0	57.9	0.8	0.485
86	Bilaspur	Lamni	8	348	105	135	38	9.6	13.6	3.3	0	128	28.4	9.9	0.0	53.1	0.8	0.270
87	Bilaspur	Lormi	8.2	545	225	180	34	22.8	44.8	1	0	275	39.1	16.1	0.0	39.2	0.7	0.142
88	Bilaspur	Madanpur	7.8	750	150	285	82	19.2	28.8	1.5	0	183	110.1	38.1	0.0	39.6	0.8	0.185
89	Bilaspur	Malhar	8	782	210	255	58	26.4	33.5	33	0	256	88.8	48.4	0.0	61.2	1.1	0.206
90	Bilaspur	Marwahi	8.1	167	60	60	20	2.4	11.8	2.2	0	73	21.3	2.5	0.0	90.1	1.9	0.270
91	Bilaspur	Masturi	7.8	1395	145	420	96	43.2	121.5	4	0	177	273.4	117.4	0.0	36.5	0.8	1.021
92	Bilaspur	Narmada khapri	8	924	130	360	76	40.8	51.5	1.7	0	159	21.3	293.0	0.2	51.2	0.7	0.000
93	Bilaspur	Nawapara	8.25	533	195	225	26	38.4	24.5	7.2	0	238	32.0	22.1	0.1	76.7	1.8	0.110
94	Bilaspur	Neora	8.2	392	165	170	32	21.6	11.1	1.3	0	201	17.8	3.8	0.1	31.9	1.0	0.000
95	Bilaspur	Nimdha	8.1	318	80	100	10	18	24.9	1.9	0	98	42.6	15.1	0.8	91.6	1.0	4.790
96	Bilaspur	Pali (Lormi)	8.2	491	160	180	34	22.8	28.1	0.8	0	195	46.2	17.1	0.2	35.5	0.8	0.741
97	Bilaspur	Panchpedi	8.2	411	170	170	28	24	17	1.4	0	207	17.8	11.7	0.4	31.7	0.9	0.015
98	Bilaspur	Patera	8.2	497	120	145	36	13.2	32.8	11.7	0	146	56.8	27.5	0.1	19.8	0.9	0.150
99	Bilaspur	Patharia (Chorbhatti)	7.9	1176	90	500	136	38.4	58.9	2.3	0	110	49.7	467.9	0.0	45.5	1.5	0.000
100	Bilaspur	Pendari	8	1353	50	610	208	21.6	24.8	2.3	0	61	32.0	559.0	0.1	32.3	1.5	0.000
101	Bilaspur	Piperkhuti	8.3	387	100	125	40	6	26.2	1.3	3	116	42.6	20.6	0.9	55.1	1.2	3.033
102	Bilaspur	Ratanpur	8	611	180	250	64	21.6	23.2	0.6	0	220	71.0	24.2	1.1	65.1	1.7	0.000
103	Bilaspur	Rupandand	8.4	406	165	40	12	2.4	80.6	0.8	6	189	21.3	9.7	0.1	37.6	2.1	1.467
104	Bilaspur	Saraipalli	7.9	963	135	355	98	26.4	41.2	1.4	0	165	159.8	33.6	1.7	68.1	2.5	0.150
105	Bilaspur	Seoni	8.2	264	100	80	26	3.6	23.2	0.6	0	122	17.8	10.5	1.1	68.7	1.3	0.015
106	Bilaspur	Sewra	8.1	495	105	185	70	2.4	21.23	0.8	0	128	63.9	27.5	0.1	83.6	2.1	1.180
107	Bilaspur	Shekhwa	8.1	134	50	35	10	2.4	13.7	1.2	0	61	14.2	1.0	0.1	116.8	1.1	1.027
108	Bilaspur	Shivtarai	8.1	609	205	230	40	31.2	36.5	0.5	0	250	63.9	8.4	0.2	69.6	1.6	0.034
109	Bilaspur	Sipat	7.9	2060	70	600	192	28.8	202.5	6.3	0	85	138.5	743.4	0.0	30.4	1.7	0.760
110	Bilaspur	Sitalkunda	8.1	3840	395	890	72	170.4	484.5	2.3	0	482	330.2	1024.5	0.4	32.3	1.3	0.000
111	Bilaspur	Takhatpur.1	7.9	1185	170	455	126	33.6	65.3	1.6	0	207	17.8	383.0	0.0	45.7	2.0	0.000
112	Bilaspur	Tenduwa	8	457	175	195	46	19.2	16	0.7	0	214	24.9	18.2	0.1	34.5	1.1	0.159
113	Bilaspur	Tikthi	8.2	164	60	70	26	1.2	6.9	0.7	0	73	14.2	3.4	0.1	63.4	1.7	4.771

114	Bilaspur	Tilaidabra	8.15	501	195	220	56	19.2	21.9	2.4	0	238	32.0	14.1	0.3	101.4	0.5	0.130
115	Bilaspur	Udaypur	8.1	363	145	135	42	7.2	18.4	0.5	0	177	24.9	10.8	0.5	48.4	0.2	0.454
116	Bilaspur	Bakarkuda	8.2	626	190	270	46	37.2	20.4	1.9	0	232	71.0	20.2	0.4	23.1	0.1	0.000
117	Bilaspur/Mungeli	Chandli	7.85	447	140	205	46	21.6	7.2	0.8	0	171	28.4	10.8	0.0	21.1	0.8	0.335
118	Dhamtari	Arsi-kanhar	7.46	349	95	125	42	4.8	21	1	0	116	42.6	8.5	1.0	60.3	0.1	7.100
119	Dhamtari	Banraud	6.68	102	25	45	12	3.6	2.8	1.3	0	31	17.75	6.8	0.4	7.1	0.1	2.000
120	Dhamtari	Banspani	7.62	482	185	120	26	13.2	46.3	7.9	0	226	21.3	2.3	3.4	40.8	0.1	1.200
121	Dhamtari	Baspara(Kukrel)	7.24	288	65	90	22	8.4	18.7	7.7	0	79	49.7	11.3	0.4	12.4	0.1	1.100
122	Dhamtari	Bhatagaon	7.4	409	120	135	44	6	18.5	13.5	0	146	56.8	6.1	0.5	13.5	0.1	0.046
123	Dhamtari	Birgudi	7.5	335	75	125	40	6	8.6	14	0	92	46.15	0.2	1.0	63.7	0.1	15.200
124	Dhamtari	Budaraon	7.41	342	105	110	34	6	26.3	2.9	0	128	49.7	0.2	0.8	7.8	0.1	0.230
125	Dhamtari	Chhati	7.56	390	150	155	44	10.8	18.6	1.1	0	183	35.5	10.3	0.7	13.3	0.1	0.200
126	Dhamtari	Dorgardula	7.73	351	105	125	46	2.4	21	0.9	0	128	42.6	11.4	1.2	59.0	0.1	2.200
127	Dhamtari	Dugli	7.58	366	115	125	42	4.8	25	1.8	0	140	35.5	3.3	1.3	55.9	1.0	1.570
128	Dhamtari	Gangrel	7.41	157	70	80	18	8.4	7.3	1.6	0	85	10.65	14.4	0.7	7.1	0.1	0.700
129	Dhamtari	Gattasilli	7.48	615	165	185	56	10.8	47.2	8	0	201	78.1	12.4	0.9	34.3	0.2	0.700
130	Dhamtari	Jabarra	7.59	366	125	130	40	7.2	24.4	1.8	0	153	31.95	0.2	0.8	54.5	0.1	0.200
131	Dhamtari	Kaskera	7.56	474	130	185	50	14.4	22.4	1.5	0	159	63.9	12.0	0.7	58.1	0.1	0.100
132	Dhamtari	Keregaon	7.65	141	50	50	16	2.4	8	2.5	0	61	14.2	4.6	0.3	25.1	0.1	8.900
133	Dhamtari	Khadadaha	7.67	348	165	100	30	6	34.2	7	0	201	3.55	0.0	0.6	40.2	0.0	1.570
134	Dhamtari	Kondapar	7.51	717	130	220	48	24	51.9	4.3	0	159	117.2	11.5	0.3	21.4	0.1	0.700
135	Dhamtari	Kosmarra	7.45	397	85	140	44	7.2	24.7	1.7	0	104	42.6	4.5	0.5	6.2	0.1	0.140
136	Dhamtari	Kurud	7.8	941	215	250	70	18	61.6	72	0	262	131.4	0.2	0.6	17.3	0.5	0.140
137	Dhamtari	Magarload	7.23	247	40	70	24	2.4	22.2	4	0	49	39.05	0.2	0.3	11.1	0.1	0.000
138	Dhamtari	Marod	7.7	488	95	150	30	18	31.7	2.2	0	116	92.3	0.2	0.8	19.1	0.1	7.600
139	Dhamtari	Mechka (Sondur)	7.75	355	100	115	40	3.6	20.5	1	0	122	42.6	0.2	0.7	56.1	0.1	3.600
140	Dhamtari	Mega	7.62	225	95	95	30	4.8	9.2	1.8	0	116	3.55	22.9	0.9	16.0	0.0	0.440
141	Dhamtari	Mudagaon	7.64	286	120	125	34	9.6	7	0.8	0	146	3.55	23.3	0.0	41.9	0.1	0.650
142	Dhamtari	Mulgaon	7.26	145	40	45	14	2.4	6.1	6.4	0	49	21.3	3.6	0.7	9.1	0.0	0.046

143	Dhamtari	Nagri	7.42	945	90	275	78	19.2	72.9	6.9	0	110	195.3	3.4	0.2	40.5	0.2	0.500
144	Dhamtari	Sankra	7.42	946	95	270	76	19.2	72.1	7	0	116	198.8	0.2	0.3	40.0	0.1	0.410
145	Dhamtari	Seadei	7.52	456	120	130	36	9.6	37.2	2.4	0	146	56.8	0.0	0.0	2.6	0.0	0.230
146	Dhamtari	Sihawa	7.71	356	140	105	24	10.8	37.1	1.4	0	171	28.4	14.1	1.8	36.2	0.0	10.200
147	Dhamtari	Singhpur	7.25	213	30	85	24	6	2.9	6.9	0	37	24.85	2.9	0.2	25.6	0.1	4.300
148	Dhamtari	Dhamtari	7.61	362	95	95	26	7.2	32.3	7.8	0	116	31.95	22.1	0.9	17.6	0.0	0.070
149	Dhamtari	Murrumsilli	7.63	311	120	85	28	3.6	31.3	5.6	0	146	7.1	26.4	0.8	32.2	0.0	0.500
150	Durg	Gurur	7.8	503	135	200	52	16.8	14.4	1.4	0	165	74.6	15.5	0.4	0.0	0.1	0.000
151	Durg	Kuliya	8.2	492	165	180	56	9.6	26	4.5	0	201	42.6	31.2	0.0	8.3	0.1	0.000
152	Durg	Balodgahan	7.9	805	170	290	76	24	45.1	0.7	0	207	103.0	56.5	0.4	1.9	0.1	0.987
153	Durg	Jagtara	8.1	427	125	180	54	10.8	18	2.5	0	153	46.2	39.8	0.1	0.0	0.1	0.855
154	Durg	Markatola	8.5	286	130	110	36	4.8	12.7	1.4	6	146	14.2	3.3	0.0	9.4	0.1	0.016
155	Durg	Ahiwara	7.9	561	105	190	64	7.2	29.2	2	0	128	85.2	15.4	0.1	16.1	0.2	0.000
156	Durg	Anda	7.9	853	110	285	76	22.8	47.6	4.1	0	134	145.6	55.3	0.3	25.3	0.2	2.126
157	Durg	Andhiyarkhor	8.2	673	230	200	40	24	70.6	1.2	0	281	28.4	95.0	0.6	29.7	0.2	0.905
158	Durg	Arjunda	8.1	397	155	140	40	9.6	31.4	0.4	0	189	21.3	10.5	0.3	39.6	0.1	0.110
159	Durg	Armari kalan	7.9	1079	170	315	92	20.4	47.9	34	0	207	170.4	56.3	0.2	49.7	0.1	0.000
160	Durg	Ashoga	8.2	397	190	180	54	10.8	15.8	0.2	0	232	17.8	4.3	0.5	22.9	0.2	0.535
161	Durg	Balod	8	853	205	285	38	45.6	55	3.1	0	250	117.2	59.6	0.9	38.4	0.2	0.000
162	Durg	Batera	8	214	55	80	22	6	10.7	4.1	0	67	21.3	8.9	0.1	51.4	0.2	0.017
163	Durg	Bhalukonha	8.3	375	180	160	30	20.4	22.6	2.3	3	214	10.7	13.2	0.5	71.5	0.2	16.125
164	Durg	Bhilai	8.2	564	85	175	50	12	43.3	3.2	0	104	74.6	30.9	0.1	22.0	0.1	0.000
165	Durg	Binayakpur	8.3	496	205	105	22	12	70	1.2	3	244	21.3	15.7	1.6	34.0	0.2	0.000
166	Durg	Bitkuli	7.8	2190	105	1040	288	76.8	76	2.2	0	128	17.8	1154.8	0.5	27.7	0.2	2.385
167	Durg	Bortara	7.8	1270	120	480	108	50.4	81	2.7	0	146	46.2	481.9	0.1	13.1	0.2	0.000
168	Durg	Dadhi	8.1	629	150	230	44	28.8	41.4	1	0	183	42.6	134.5	0.1	26.0	0.2	1.664
169	Durg	Dargaon	8	849	150	330	72	36	47.2	2.1	0	183	28.4	257.0	0.2	12.7	0.2	0.000
170	Durg	Delli Rajhara	8.27	248	85	110	24	12	13.2	3.3	0	104	21.3	13.6	0.1	27.4	0.2	0.184
171	Durg	Dewada	8.33	346	140	155	50	7.2	8.6	2.1	0	171	28.4	11.3	0.2	25.9	0.2	0.461

172	Durg	Dhaba	8.2	536	155	185	62	7.2	31.5	3.1	0	189	56.8	29.4	0.3	34.7	0.1	0.000
173	Durg	Funda	8.17	408	110	165	58	4.8	17.1	0.2	0	134	49.7	20.1	0.1	22.8	0.2	0.942
174	Durg	Ganiyari	7.92	1121	95	405	120	25.2	42.8	7.3	0	116	170.4	68.8	0.1	25.9	0.2	2.496
175	Durg	Girola	7.98	961	115	395	142	9.6	10.7	1.3	0	140	149.1	9.6	0.1	34.7	0.1	0.702
176	Durg	Gunderdehi	7.94	1947	135	535	118	57.6	128.5	1.5	0	165	461.5	53.8	0.6	24.8	0.2	0.000
177	Durg	Jamgaon	8.12	720	120	260	78	15.6	30.2	11.5	0	146	113.6	45.6	0.1	25.9	0.2	1.997
178	Durg	Janjiri	7.85	1710	90	585	164	42	84.8	16	0	110	330.2	108.6	0.0	24.8	0.3	0.831
179	Durg	Jeora	8.2	925	175	225	56	20.4	58.5	44	0	214	99.4	126.4	0.0	27.4	0.2	0.073
180	Durg	Jeora-sirsa	8.09	514	115	205	66	9.6	14.1	0.3	0	140	71.0	25.3	0.1	28.6	0.2	0.276
181	Durg	Kachandur	8.16	639	205	160	48	9.6	62.3	11	0	250	63.9	31.0	0.3	25.3	0.2	0.000
182	Durg	Kashi	8.31	529	180	175	56	8.4	26.8	23	3	214	53.3	32.1	0.2	35.1	0.2	0.000
183	Durg	Kodiya	8.18	252	140	125	40	6	5.1	0.3	0	171	3.6	3.9	0.1	35.2	0.2	1.331
184	Durg	Kusumkasa	8.41	395	190	145	34	14.4	26.1	1.5	6	220	14.2	6.0	0.5	49.2	0.3	1.220
185	Durg	Lohara	8.25	547	170	210	44	24	29.7	3.8	0	207	60.4	24.3	0.4	32.0	0.2	0.036
186	Durg	Marra	8.09	526	145	215	52	20.4	28	0.5	0	177	74.6	16.9	0.5	24.0	0.2	0.000
187	Durg	Motipur	8.06	798	165	200	62	10.8	35.2	53	0	201	92.3	63.8	0.1	37.9	0.2	0.110
188	Durg	Nagpura	7.84	1230	130	430	114	34.8	41.8	17	0	159	227.2	71.2	0.8	19.9	0.2	2.848
189	Durg	Parpoda	8.15	613	230	235	52	25.2	41.9	2.3	0	281	53.3	14.6	0.4	15.4	0.3	0.165
190	Durg	Powara	7.83	1044	115	375	122	16.8	50.5	12	0	140	181.1	66.2	0.1	19.2	0.3	0.091
191	Durg	Ravelidih	8.06	523	70	215	70	9.6	17.8	1.3	0	85	78.1	7.3	0.0	13.1	0.2	0.276
192	Durg	Sagona	7.81	2120	110	1075	242	112.8	60.9	2.7	0	134	24.9	896.4	0.3	24.0	0.3	0.017
193	Durg	Selud	8.18	309	145	150	48	7.2	10.6	0.3	0	177	21.3	9.9	0.2	14.6	0.2	0.165
194	Durg	Sikosa	7.97	634	135	205	64	10.8	43.6	4.5	0	165	92.3	26.7	0.4	35.0	0.2	0.054
195	Durg	Tarra	8.13	457	135	195	56	13.2	19	1.6	0	165	46.2	17.6	0.1	16.3	0.2	2.163
196	Durg	Umaradah	8.05	587	150	195	50	16.8	46.3	2.4	0	183	71.0	47.5	0.8	22.9	0.3	0.000
197	Durg	Utai(Adarshnagar)	8.05	447	140	200	64	9.6	13.1	0.3	0	171	53.3	19.8	0.3	18.2	0.2	0.000
198	Durg	Zhit	8.09	454	165	175	46	14.4	25.9	9.6	0	201	42.6	13.0	0.1	22.2	0.3	0.000
199	Durg	Murmunda	8.08	582	85	130	36	9.6	46.4	48	0	104	103.0	8.9	0.1	12.2	0.2	1.022
200	Durg	Arasnara	8.18	462	140	155	56	3.6	39.8	5	0	171	46.2	10.8	0.1	18.1	0.3	0.122

201	Durg	Kharra	7.97	1397	105	470	150	22.8	35	0.5	0	128	308.9	63.0	0.3	14.5	0.3	1.459
202	Durg	Bemetera-d	7.89	2040	95	1175	360	66	83	6.3	0	116	53.3	1006.7	0.5	3.6	0.2	0.135
203	Durg	Bhatagaon	8.16	690	140	200	70	6	36.7	2.1	0	171	106.5	22.4	0.4	1.4	0.4	0.254
204	Durg	Bohardih	8.11	755	125	280	68	26.4	46.9	1.9	0	153	134.9	24.2	0.4	4.2	0.3	0.744
205	Durg	Dhamda-D	8.32	320	165	145	36	13.2	29.6	0.5	3	195	17.8	5.9	0.1	0.1	0.3	0.373
206	Durg	Koba(Pz-I)	8.14	463	175	210	50	20.4	8.1	0.9	0	214	35.5	21.8	0.1	2.2	0.1	1.935
207	Durg	Kumhari	8.84	911	225	370	78	42	36.1	1.2	12	250	81.7	114.1	0.9	10.1	0.1	0.797
208	Durg	Nawagarh-d	8.24	850	170	115	22	14.4	167	1.9	0	207	39.1	208.5	0.3	5.2	0.1	0.320
209	Durg	Padkibhat	8.2	402	135	85	32	1.2	65.2	1.5	0	165	42.6	16.2	0.3	3.1	0.2	3.100
210	Durg	Perpar	8.14	503	150	170	52	9.6	27.6	1	0	183	56.8	20.4	0.1	3.4	0.1	0.228
211	Durg	Pipercherri	8.48	754	210	285	50	38.4	30.8	4.2	6	244	92.3	28.2	0.7	9.8	0.1	1.128
212	Durg	Sambalpur	8.4	384	175	25	8	1.2	79	3.5	6	201	10.7	4.9	0.4	0.1	0.3	17.290
213	Durg	Sankri	8.12	767	120	255	64	22.8	27.9	0.7	0	146	131.4	29.1	0.2	0.1	0.1	0.360
214	Durg	Patan	8.23	526	110	145	50	4.8	55.3	1.3	0	134	60.4	22.5	0.2	5.3	0.1	1.009
215	Gariyaband	Umaria station	7.76	646	225	255	78	14.4	18.4	1	0	275	28.4	39.5	0.7	26.7	0.0	0.258
216	Janjgir-Champa	Chandrapur	7.54	1156	185	325	68	37.2	90	32	0	226	149.1	84.9	0.5	20.6	0.1	0.038
217	Janjgir-Champa	Adbhar	8.21	569	155	105	28	8.4	90	1.8	0	189	21.3	90.3	0.5	46.3	0.3	0.000
218	Janjgir-Champa	Akaltara	8.1	619	155	160	42	13.2	44.7	26.2	0	189	60.4	38.3	0.1	33.1	0.3	0.000
219	Janjgir-Champa	Asunda	7.8	1023	85	370	118	18	54.5	2.4	0	104	223.7	55.2	0.1	51.4	0.3	0.340
220	Janjgir-Champa	Baloda	8.1	440	160	165	52	8.4	26.9	0.5	0	195	32.0	17.5	0.3	69.8	0.4	0.034
221	Janjgir-Champa	Bamhani	8.2	454	170	165	56	6	26.9	0.4	0	207	28.4	17.4	0.3	71.0	0.4	0.000
222	Janjgir-Champa	Bamhanidihi	8.1	202	55	75	16	8.4	10.6	0.9	0	67	21.3	13.4	0.0	55.9	0.4	0.000
223	Janjgir-Champa	Budena	8.2	849	195	195	48	18	64.9	61	0	238	113.6	53.6	0.3	56.7	0.4	0.000
224	Janjgir-Champa	Champa	8.2	394	130	150	46	8.4	20.9	1	0	159	32.0	16.1	0.1	59.8	0.5	0.000
225	Janjgir-Champa	Dabra	8.1	817	215	345	54	50.4	24.7	3.6	0	262	110.1	31.7	0.2	40.6	0.3	0.000
226	Janjgir-Champa	Damau	8.26	225	100	100	22	10.8	5.7	2.3	0	122	7.1	0.8	0.3	27.6	0.1	9.620
227	Janjgir-Champa	Dhardei	8.1	605	135	185	42	19.2	53	1.4	0	165	88.8	38.9	0.2	40.0	0.3	0.550

228	Janjgir-Champa	Dongakahrod	7.8	1501	100	405	134	16.8	136.5	35.5	0	122	344.4	116.5	0.0	59.6	0.5	0.000
229	Janjgir-Champa	Ghoghari	8.2	672	200	210	34	30	57.4	1.4	0	244	67.5	41.5	0.1	44.1	0.5	0.000
230	Janjgir-Champa	Hasoud	8.2	739	215	225	38	31.2	57.4	1.4	0	262	63.9	42.7	0.1	41.6	0.4	0.000
231	Janjgir-Champa	Jaijaipur	8.1	595	205	230	42	30	21.3	0.7	0	250	42.6	16.7	0.1	35.1	0.4	0.000
232	Janjgir-Champa	Jairamnagar	7.8	1336	105	375	112	22.8	139.8	4.2	0	128	276.9	82.8	0.0	36.5	0.3	0.000
233	Janjgir-Champa	Janjgir	7.65	647	250	45	10	4.8	128.1	2.3	0	305	42.6	20.7	0.5	34.1	0.4	0.000
234	Janjgir-Champa	Jewara	8.1	950	235	335	78	33.6	42.8	25.5	0	287	131.4	58.8	0.1	39.2	0.4	0.416
235	Janjgir-Champa	Jhulanpakariya	8.2	1001	165	205	38	26.4	130	13.4	0	201	149.1	123.9	0.0	32.7	0.4	0.000
236	Janjgir-Champa	Kera	8	716	205	240	62	20.4	46.6	10.2	0	250	63.9	42.3	0.0	49.4	0.6	0.000
237	Janjgir-Champa	Khartal	7.9	486	140	145	42	9.6	25.6	22	0	171	60.4	17.2	0.0	28.4	0.3	1.486
238	Janjgir-Champa	Konargarh	7.41	271	105	120	40	4.8	8.7	0.6	0	128	17.8	7.5	0.1	27.2	0.3	0.000
239	Janjgir-Champa	Lachhmanbhata	7.54	679	140	280	46	39.6	24	3.5	0	171	113.6	30.6	0.0	37.6	0.1	0.000
240	Janjgir-Champa	Latesara	8.2	400	155	165	44	13.2	18.8	0.8	0	189	28.4	10.7	0.3	44.3	0.5	0.626
241	Janjgir-Champa	Loharsi	8.1	752	270	165	48	10.8	46.8	66	0	329	60.4	22.1	0.1	56.3	0.6	0.000
242	Janjgir-Champa	Meubhata	8.3	613	100	200	44	21.6	41.9	8.5	6	110	92.3	16.5	0.0	31.9	0.4	0.550
243	Janjgir-Champa	Mulmula	8.2	998	170	205	36	27.6	127	5	0	207	149.1	111.5	0.0	38.8	0.4	0.000
244	Janjgir-Champa	Pamgarh	8	535	205	220	42	27.6	20.3	0.7	0	250	35.5	16.8	0.2	42.9	0.5	0.000
245	Janjgir-Champa	Sakti	8.1	606	155	195	50	16.8	40.1	8.2	0	189	92.3	17.1	0.2	31.0	0.2	0.000
246	Janjgir-Champa	Saliabhata	7.45	626	225	40	12	2.4	123.5	3.6	0	275	53.3	28.3	0.6	38.4	0.4	11.210
247	Janjgir-Champa	Saragaon	8.01	234	105	95	16	13.2	7.7	2.7	0	128	7.1	3.2	0.4	27.6	0.4	0.000
248	Janjgir-Champa	Sasaha	8	1100	230	290	50	39.6	112	14	0	281	195.3	36.0	0.7	55.3	0.7	0.000
249	Janjgir-Champa	Semra	8.18	416	145	130	30	13.2	37.3	0.6	0	177	35.5	14.6	0.2	46.7	0.1	0.000
250	Janjgir-Champa	Seorinarayan	8.24	482	130	145	44	8.4	27.5	23	0	159	60.4	19.8	0.1	28.2	0.4	0.000
251	Janjgir-Champa	shukli	7.93	745	205	235	66	16.8	59.2	12.7	0	250	74.6	54.2	0.1	58.1	0.6	0.000

252	Janjgir-Champa	Sonthi	7.58	633	260	70	12	9.6	118.5	2.4	0	317	39.1	23.3	0.7	40.6	0.5	0.000
253	Janjgir-Champa	Sukda	8.21	497	180	140	32	14.4	40.3	1.1	0	220	21.3	21.2	0.4	52.4	0.7	0.626
254	Janjgir-Champa	Thathari	8.18	301	125	115	34	7.2	18	0.3	0	153	14.2	6.5	0.7	69.4	0.7	0.244
255	Janjgir-Champa	Odekara	8.03	827	185	335	54	48	26	1.4	0	226	124.3	36.7	0.1	42.9	0.6	0.000
256	Janjgir-Champa	vyasnagar	8.19	981	240	195	36	25.2	134	5.3	0	293	142.0	42.7	0.3	38.0	0.5	0.000
257	Janjgir-Champa	Baradwar-d	8.12	367	130	160	42	13.2	9.1	2.1	0	159	32.0	5.8	0.0	22.7	0.0	0.000
258	Jashpur	Amatolli	8.06	290	110	95	32	3.6	24.3	0.3	0	134	21.3	8.5	0.5	38.7	0.2	1.105
259	Jashpur	Amdiha	8.19	369	150	135	48	3.6	24.5	0.9	0	183	24.9	6.8	0.2	38.7	0.2	0.000
260	Jashpur	Amgaon	8.14	366	180	75	22	4.8	63.4	1.7	0	220	14.2	2.3	5.0	45.2	0.2	0.860
261	Jashpur	Bagh Bahar	8.3	357	130	115	34	7.2	24.4	2.6	3	153	28.4	11.3	0.4	55.9	0.2	7.158
262	Jashpur	Bagicha	8.36	230	85	90	20	9.6	9.3	0.9	6	92	17.8	6.1	0.2	23.4	0.1	0.212
263	Jashpur	Bahora	8.18	113	45	40	14	1.2	6.5	1	0	55	7.1	0.2	0.1	34.1	0.2	0.000
264	Jashpur	Balachhappar	8.04	89	35	45	12	3.6	4.1	1.5	0	43	10.7	0.2	0.1	7.4	0.1	0.056
265	Jashpur	Bandarchuwa	8.29	402	145	135	50	2.4	19.16	1.8	0	177	28.4	10.3	0.2	46.2	0.3	0.000
266	Jashpur	Bangaon	8.34	313	110	115	38	4.8	18	1	6	122	21.3	11.4	2.8	35.9	0.2	0.681
267	Jashpur	Bataikela	8.14	241	95	90	30	3.6	11.4	1.4	0	116	17.8	3.3	1.8	44.6	0.3	0.614
268	Jashpur	Bewrapali	8.49	513	215	165	36	18	46.08	3.1	6	250	21.3	14.4	4.0	34.2	0.1	0.234
269	Jashpur	Binjapur	8.34	262	80	80	22	6	12.61	23.8	3	92	32.0	12.4	0.3	17.0	0.2	1.999
270	Jashpur	Chhapartoli	8.1	176	50	65	24	1.2	9.1	1.4	0	61	10.7	0.2	0.3	39.1	0.2	0.927
271	Jashpur	Chiraidand	8.06	251	70	80	28	2.4	13.1	11.5	0	85	32.0	12.0	0.3	18.1	0.3	2.110
272	Jashpur	Dhodidand	8.07	189	50	70	22	3.6	9.6	2.1	0	61	17.8	4.6	0.3	8.1	0.2	1.351
273	Jashpur	Dokra	8.51	367	140	120	30	10.8	18.8	0.8	3	165	21.3	0.0	0.5	44.8	0.3	0.000
274	Jashpur	Durgapara	8.37	310	105	120	40	4.8	17.6	1	3	122	28.4	11.5	1.2	34.6	0.2	1.306
275	Jashpur	Farsabahar	8.28	208	75	75	22	4.8	14.5	2.8	0	92	24.9	4.5	0.1	21.7	0.2	0.167
276	Jashpur	Farsakanhi	8.46	335	160	120	38	6	18.9	0.8	6	183	10.7	0.2	0.5	45.5	0.3	0.000
277	Jashpur	Ghatmunda	8.45	375	160	100	26	8.4	32.7	1.2	9	177	14.2	0.2	3.8	45.2	0.3	0.346
278	Jashpur	Jakba	7.86	261	40	65	14	7.2	11.4	24	0	49	39.1	0.2	0.0	-0.5	0.2	2.937
279	Jashpur	Jashpurnagar	7.96	105	30	35	12	1.2	3.9	1.5	0	37	10.7	0.2	0.0	80.9	0.4	0.000

280	Jashpur	Jharmunda	8.44	709	220	170	40	16.8	81	1.3	6	256	63.9	22.9	3.9	35.8	0.3	0.145
281	Jashpur	Kachhar	8.21	647	95	190	62	8.4	39.4	18	0	116	134.9	23.3	0.0	19.3	0.3	1.217
282	Jashpur	Kandaibahar	8.42	242	95	100	36	2.4	11.2	1.4	6	104	17.8	3.6	0.2	42.0	0.4	0.592
283	Jashpur	Kandora	8.38	213	85	75	8	13.2	9.3	5.7	3	98	14.2	3.4	2.9	15.1	0.3	3.205
284	Jashpur	Kanpoda	8.42	118	25	45	6	7.2	6	0.5	6	18	24.9	0.2	0.0	6.9	0.3	0.659
285	Jashpur	Kansabel	8.52	377	155	125	38	7.2	21.4	0.7	6	177	14.2	0.0	0.5	43.6	0.4	0.000
286	Jashpur	Kersai	8.41	425	145	140	48	4.8	34.5	1.4	6	165	39.1	14.1	0.3	44.6	0.6	0.000
287	Jashpur	Khutsera	8.53	323	75	105	40	1.2	25.7	2.6	6	79	42.6	2.9	0.2	49.9	0.4	0.123
288	Jashpur	Kondapara	8.33	116	30	45	10	4.8	4.83	1	6	24	10.7	6.9	0.1	31.5	0.4	0.000
289	Jashpur	Kotba	8.36	306	105	90	24	7.2	25.9	2.6	9	110	32.0	1.1	0.2	46.6	0.4	2.423
290	Jashpur	Kunjara	8.39	423	145	135	42	7.2	33.6	1.3	6	165	35.5	13.6	0.3	42.4	0.6	0.000
291	Jashpur	Kunkuri1	8.55	273	50	85	20	8.4	19	0.7	6	49	21.3	1.0	0.4	43.7	0.5	0.000
292	Jashpur	Lavakera	8.34	631	145	180	58	8.4	60	1.8	3	171	88.8	21.7	0.5	61.7	0.6	0.726
293	Jashpur	Ludeg	8.27	714	85	265	72	20.4	30.4	2.4	0	104	24.9	33.4	0.1	29.4	0.4	0.368
294	Jashpur	Maini	8.42	311	105	115	34	7.2	17.4	1	6	116	21.3	10.3	2.5	38.5	0.4	1.262
295	Jashpur	Muskuti	8.33	208	75	75	22	4.8	12.5	2.8	3	85	17.8	5.3	0.1	18.2	0.4	0.190
296	Jashpur	Narayanbahali	8.27	210	60	65	22	2.4	15	2.8	0	73	28.4	4.1	0.1	29.3	0.4	0.078
297	Jashpur	Narayanpur	8.34	357	100	125	40	6	18.3	4.2	3	116	7.1	3.7	0.1	33.7	0.5	0.000
298	Jashpur	Nawaguda	8.2	164	65	50	18	1.2	13.2	2.6	0	79	10.7	0.7	0.3	38.3	0.5	0.368
299	Jashpur	Palidih	8.33	376	150	140	36	12	22.6	2.6	3	177	21.3	8.9	0.1	64.8	0.5	0.000
300	Jashpur	Pandripani	8.35	295	105	130	34	10.8	10.04	1.5	6	116	24.9	3.0	0.4	15.7	0.4	0.000
301	Jashpur	Pathalgaon	8.16	1372	75	540	132	50.4	45.7	4.6	0	92	266.3	8.2	1.8	38.1	0.4	0.190
302	Jashpur	Patratoli	8.27	75	40	20	4	2.4	10.3	0.6	0	49	3.6	0.7	0.2	55.5	0.6	0.000
303	Jashpur	Peta	8.04	287	100	105	30	7.2	14.8	3.4	0	122	24.9	6.4	0.8	14.2	0.5	0.726
304	Jashpur	Phooldih	8.22	207	70	65	14	7.2	14.7	2.8	0	85	21.3	1.5	0.0	19.0	0.5	0.033
305	Jashpur	Raikera	8.14	189	50	65	24	1.2	9.8	2.2	0	61	21.3	3.4	0.1	6.4	0.6	0.614
306	Jashpur	Raikera(Kunkuri)	8.3	212	85	60	16	4.8	19	5.7	3	98	14.2	0.9	0.4	17.6	0.6	3.540
307	Jashpur	Raoni	8.21	114	40	35	10	2.4	11.2	0	0	49	10.7	0.7	0.0	44.0	0.9	0.000
308	Jashpur	Rupsera	8.06	81	30	25	4	3.6	7.36	0.6	0	37	7.1	0.7	1.0	59.6	1.6	0.000

309	Jashpur	Sanna	8.2	198	85	85	22	7.2	7.1	2.6	0	104	14.2	0.7	0.7	41.0	0.6	0.837
310	Jashpur	Saraipani	8.23	212	65	75	16	8.4	14.6	2.8	0	79	21.3	3.3	0.1	18.8	0.6	0.078
311	Jashpur	Saraitola	8.39	528	215	160	44	12	44.3	7.9	6	250	35.5	2.8	0.5	40.3	1.3	0.592
312	Jashpur	Sarkardih	8.45	158	65	65	20	3.6	7	2.6	3	73	7.1	0.7	0.1	38.4	0.6	0.793
313	Jashpur	Sirshringa	8.29	209	55	65	22	2.4	14.5	2.7	0	67	35.5	3.4	0.3	22.0	0.6	0.078
314	Jashpur	Sonquari	8.24	117	40	40	14	1.2	6.5	1	0	49	14.2	0.7	0.2	32.3	0.7	0.000
315	Jashpur	Surangpani New	8.37	380	155	145	42	9.6	22.8	2.5	3	183	21.3	8.9	0.4	67.7	0.7	0.011
316	Jashpur	Tangargaon	8.3	181	70	65	16	6	11.8	2.1	3	79	14.2	0.7	0.4	25.4	0.6	0.078
317	Jashpur	Tapkara	8.39	380	160	130	48	2.4	25.1	1.4	6	183	21.3	4.0	0.2	41.2	0.2	0.000
318	Jashpur	Bagicha	7.64	331	140	80	24	4.8	36.8	2.7	0	171	14.2	2.8	4.8	22.0	0.1	0.479
319	Jashpur	Banderchuha	7.54	410	155	165	54	7.2	20	1.8	0	189	32.0	5.9	0.6	39.6	0.1	0.000
320	Jashpur	Bangaon D	7.48	501	115	150	50	6	44.3	1.7	0	140	63.9	19.5	0.5	40.3	0.1	0.600
321	Jashpur	Kasabel D	7.48	376	90	145	52	3.6	18.4	1.7	0	110	49.7	7.1	0.5	44.5	0.1	0.000
322	Jashpur	Kunkuri	7.47	601	115	220	82	3.6	37.8	1.9	0	140	85.2	9.9	1.0	45.5	0.1	0.000
323	Jashpur	Lavakera	7.51	632	140	180	64	4.8	63	1.7	0	171	88.8	17.1	0.8	46.7	0.1	0.200
324	Kanker	Machandur	8.1	386	165	145	34	14.4	24.5	1.5	0	201	32.0	7.3	0.5	17.2	0.1	0.016
325	Kanker	Ratesara (Sadak para)	8.3	302	130	100	32	4.8	24.7	0.7	6	146	14.2	6.7	0.8	27.5	0.2	6.776
326	Kanker	Tegara	7.9	683	120	225	74	9.6	41.2	0.8	0	146	85.2	44.5	0.4	4.8	0.1	0.378
327	Kanker	Govindpur	8.3	500	190	165	62	2.4	40.2	0.6	12	207	49.7	13.6	0.7	0.9	0.1	0.066
328	Kanker	Kanker	7.9	964	130	215	64	13.2	101.2	1.1	0	159	181.1	62.8	1.2	1.0	0.2	0.033
329	Kanker	Kulgaon	8.2	404	170	155	38	14.4	20.6	0.5	0	207	24.9	11.4	1.0	7.8	0.2	0.987
330	Kanker	Lakhanpur	8.2	640	210	270	76	19.2	16.3	1.2	0	256	49.7	44.5	0.1	20.7	0.1	0.132
331	Kawardha	Mahrajpur	8.08	811	185	265	56	30	49.4	20.5	0	226	92.3	46.3	0.3	12.7	0.6	0.188
332	Kawardha	BijaBairangi	8.17	999	275	310	40	50.4	84.4	2.5	0	336	60.4	37.1	0.2	24.3	0.2	0.017
333	Kawardha	Biroda	8.38	338	150	115	30	9.6	26.8	0.8	3	177	17.8	6.9	0.2	22.5	0.2	0.239
334	Kawardha	Chilpi	8.38	139	40	40	12	2.4	11.9	0.7	3	43	17.8	3.8	0.5	2.9	0.1	14.885
335	Kawardha	Danganiya	8.25	555	220	220	40	28.8	30.4	0.8	0	268	21.3	13.9	0.4	21.0	0.3	0.000
336	Kawardha	Kawardha	8.37	719	255	160	28	21.6	94.8	1.5	6	299	74.6	36.4	0.2	17.6	0.3	0.942
337	Kawardha	Kui	8.08	1016	190	355	70	43.2	52.3	3.1	0	232	134.9	68.0	0.4	26.1	0.3	0.073

338	Kawardha	Mudiyapara	8.33	612	195	180	36	21.6	51.3	1.5	3	232	63.9	24.9	0.1	30.3	0.4	0.443
339	Kawardha	Munmuna	8.07	803	105	265	76	18	47.4	0.4	0	128	152.7	25.5	0.2	41.3	0.5	1.756
340	Kawardha	Rajnanwagaon	8.39	423	195	100	20	12	51.6	0.4	3	232	14.2	8.0	0.1	22.4	0.3	0.000
341	Kawardha	Rengakharkhurd	8.26	569	145	185	46	16.8	41.6	1.3	0	177	60.4	30.0	0.1	26.7	0.4	0.000
342	Kawardha	Sahaspur lohara.1	8.32	721	220	165	26	24	82.3	2.5	3	262	81.7	18.1	0.1	21.2	0.3	0.424
343	Kawardha	Pandaria	8.18	585	180	200	34	27.6	38.9	1	0	220	60.4	17.0	0.2	6.5	0.2	0.400
344	Kawardha	Saroda dadar	8.53	372	185	140	36	12	36.1	0.9	6	214	7.1	4.6	0.1	36.1	1.5	0.413
345	Kawardha	Singhari-d	8.44	352	170	140	38	10.8	14	1.8	3	201	10.7	4.6	0.3	4.6	0.1	0.797
346	Korba	Banbandha	7.8	260	115	115	30	9.6	9.2	1.8	0	140	14.2	2.2	0.1	84.8	0.8	0.435
347	Korba	Batati Junction	7.95	155	50	50	18	1.2	7.6	6.8	0	61	17.8	1.4	0.0	50.0	0.6	0.000
348	Korba	Bhaisma (Anjoripali)	8.4	574	165	205	44	22.8	34.3	4.7	6	189	60.4	29.6	0.2	118.7	1.0	0.703
349	Korba	Chaitama	8.24	464	85	140	34	13.2	41	1.4	0	104	39.1	33.0	1.0	101.8	1.0	0.072
350	Korba	Champa mode	8.14	209	90	90	30	3.6	4.2	4.1	0	110	7.1	2.6	0.2	37.8	0.5	8.019
351	Korba	Chhuri	8.19	132	25	40	8	4.8	12	1	0	31	10.7	11.6	0.1	50.8	0.7	8.893
352	Korba	Dhegurdih manzipara	8.24	135	30	45	12	3.6	2.9	8.4	0	37	14.2	8.4	0.0	49.6	0.3	0.053
353	Korba	Dhourabhata	8.1	227	85	90	20	9.6	7	6.6	0	104	17.8	1.9	0.1	50.2	0.7	0.034
354	Korba	Dumardih	8.17	183	30	60	16	4.8	10.5	8.2	0	37	35.5	0.8	0.0	38.0	0.6	0.034
355	Korba	Gopalpur	8.18	733	170	220	70	10.8	66.3	5.2	0	207	103.0	42.1	0.1	52.6	1.3	0.000
356	KORBA	Hardibazar	8.22	172	20	55	12	6	12	5.3	0	24	24.9	16.4	0.0	63.6	0.8	0.000
357	Korba	Jatga	7.51	441	145	105	34	4.8	53.3	1	0	177	35.5	20.1	1.3	73.4	0.8	0.397
358	Korba	Jhingatpur	7.56	137	40	45	10	4.8	4	11.1	0	49	14.2	0.8	0.0	60.0	0.8	0.053
359	Korba	Kartala	7.98	597	110	245	50	28.8	20.9	5.6	0	134	81.7	26.1	0.1	45.1	0.7	2.861
360	Korba	Katghora	8.23	224	90	85	28	3.6	11	3.1	0	110	10.7	5.2	0.3	41.8	0.7	0.053
361	Korba	Khodri	8.13	128	20	15	4	1.2	19	2.1	0	24	7.1	29.1	0.3	90.3	1.5	4.638
362	Korba	Korkoma junction	7.6	156	50	50	16	2.4	7.9	7	0	61	17.8	2.7	0.0	11.7	0.0	0.130
363	Korba	Kotmer Upper	8.2	251	85	65	14	7.2	12.3	20.5	0	104	24.9	11.1	0.0	9.8	0.1	0.187
364	Korba	Lenga	8.16	326	135	115	30	9.6	27.6	0.8	0	165	17.8	2.5	2.1	3.9	0.1	0.000
365	Korba	Nagai	7.56	438	135	95	26	7.2	54.9	1	0	165	35.5	20.5	1.6	18.6	0.1	0.000

366	Korba	Naktikhar	8.2	186	10	40	6	6	17.8	8.9	0	12	39.1	2.5	0.0	16.6	0.0	0.187
367	Korba	Naraibodh	8.1	124	30	40	12	2.4	3.6	10	0	37	14.2	1.4	0.0	19.0	0.1	2.154
368	Korba	Nonbirra	8	174	55	60	16	4.8	8.1	9.3	0	67	17.8	3.1	0.0	13.7	0.0	0.200
369	Korba	Nonbirra-4	8.1	172	45	65	16	6	5	8.9	0	55	21.3	8.6	0.0	4.8	0.1	0.104
370	Korba	Nunera	7.9	363	100	130	42	6	14.8	8.7	0	122	39.1	12.2	0.0	20.0	0.1	0.161
371	Korba	Pali	7.89	658	200	175	30	24	69.5	1.2	0	244	60.4	33.0	0.4	9.0	0.1	0.161
372	Korba	Pasan	7.64	332	140	110	34	6	26.9	0.8	0	171	14.2	2.9	1.2	37.4	0.1	0.000
373	Korba	Pasarkhet	8.21	142	40	45	12	3.6	7	6.7	0	49	21.3	1.5	0.0	4.5	0.1	0.571
374	Korba	Ponri	8.21	423	160	140	32	14.4	27.9	10	0	195	24.9	17.5	0.2	6.4	0.0	1.275
375	Korba	Rajkamma	8.2	749	145	260	64	24	42.9	1.7	0	177	110.1	61.9	0.7	36.1	0.1	1.295
376	Korba	Rawa	8	125	30	35	10	2.4	10.3	2.3	0	37	7.1	19.0	0.0	29.8	0.3	0.239
377	Korba	Rishdi	7.9	175	30	55	12	6	10.5	8.1	0	37	35.5	2.0	0.0	14.1	0.0	0.000
378	Korba	Salihabhata	7.84	510	105	180	32	24	32.1	4.7	0	128	85.2	28.4	0.2	42.9	0.1	0.200
379	Korba	Sindhiya	8.2	222	95	70	20	4.8	17.8	2	0	116	7.1	5.8	0.1	4.3	0.0	2.820
380	Korba	Suttara	7.8	524	50	180	46	15.6	32.9	6.3	0	61	88.8	17.3	0.0	9.4	0.1	1.021
381	Korba	Tilkeja	7.7	1697	180	700	142	82.8	61.5	7.1	0	220	223.7	104.6	0.3	36.5	0.1	0.180
382	Korba	Tuman	8.2	205	90	70	18	6	15.8	1.2	0	110	7.1	3.2	0.0	25.1	0.1	0.063
383	Korba	Tuman	8.12	177	65	65	20	3.6	11.3	1.3	0	79	14.2	7.9	0.0	27.2	0.1	0.082
384	Korba	Urga.1	7.89	572	165	215	50	21.6	32.7	4.7	0	201	67.5	28.4	0.2	65.9	0.1	1.060
385	Korba	Korba	8.1	131	40	55	12	6	5.7	2.2	0	49	10.7	8.5	0.1	4.1	0.0	0.000
386	Korba	Sirki I	8.1	126	45	50	12	4.8	3	4.3	0	55	10.7	1.5	0.0	6.4	0.1	0.000
387	Korba	Tiwarta I	8	168	70	75	22	4.8	3.3	4.3	0	85	7.1	1.7	0.0	6.6	0.1	0.000
388	Korba	Madai	8.2	253	35	50	12	4.8	28.3	9	0	43	46.2	5.1	0.0	22.6	0.11	0.043
389	Korba	Kurtha	8.12	342	135	125	40	6	20.2	6.3	0	165	21.3	11.0	0.2	14.9	0.11	0.219
390	Korba	Nawapara(Chotia)	8.29	388	120	110	32	7.2	36.6	4.7	0	146	35.5	20.6	1.1	26.6	0.09	0.356
391	Korba	Morga	8.22	256	35	50	14	3.6	26.8	11.8	0	43	46.2	4.6	0.0	19.2	0.10	0.082
392	Korba	Pondi	8.24	883	220	300	74	27.6	56.2	4.6	0	268	85.2	61.5	0.2	37.1	2.41	0.122
393	Korba	Lamna	8.28	478	140	130	26	15.6	47.5	1.3	0	171	49.7	31.2	0.5	17.9	0.09	0.473
394	Korba	Bahanpath	8.26	126	35	35	8	3.6	4.2	11.1	0	43	10.7	1.1	0.0	61.6	0.7	7.503

395	Korba	Barpali (Junadhi)	8.21	82	25	30	8	2.4	2.9	4.4	0	31	10.7	1.4	0.2	31.7	0.4	0.000
396	Korba	Basin	8.2	80	30	45	8	6	2.9	4.3	0	37	14.2	1.2	0.2	30.8	0.4	0.875
397	Korba	Gajra	7.95	345	45	135	36	10.8	14.4	2.9	0	55	60.4	19.9	0.0	72.2	0.8	2.747
398	Korba	Kudmura	8.1	432	100	125	20	18	27.4	26.5	0	122	56.8	21.6	0.0	5.2	0.0	0.000
399	Korba	Lakhanpur	8.3	268	35	70	24	2.4	22.3	9.6	6	31	49.7	5.8	0.0	3.3	0.0	0.000
400	Korba	Mudiyanar	8.2	119	15	40	10	3.6	3.7	10	0	18	14.2	0.8	0.0	22.9	0.1	2.555
401	Korba	Sendripali	8.1	122	30	35	8	3.6	3.5	10	0	37	17.8	0.9	0.0	24.1	0.1	0.000
402	Koriya	Tarabahara	8.02	711	120	300	96	14.4	22.7	0.3	0	146	28.4	87.4	0.0	40.2	0.10	1.37
403	Koriya	Khatgori	8.14	344	145	150	42	10.8	13.9	0.7	0	177	17.8	7.6	0.1	38.5	0.09	0.082
404	Koriya	Pendri	8.21	224	55	90	30	3.6	9.7	1.8	0	67	14.2	35.6	0.2	12.3	0.09	0.2
405	Koriya	Banjaridand	8.35	237	110	95	18	12	11.1	1.6	3	128	10.7	2.4	0.1	26.1	0.10	1.275
406	Koriya	Bikrampur	8.14	230	95	90	20	9.6	13.9	0.8	0	116	17.8	7.9	0.1	38.4	0.09	0.122
407	Koriya	Sarbhoka	8.26	274	125	105	26	9.6	10.9	1.9	0	153	10.7	2.9	0.0	25.0	0.09	1.392
408	Koriya	Baikunthpur	8.02	225	60	85	26	4.8	10	1.7	0	73	10.7	34.2	0.1	11.1	0.09	0.2
409	Koriya	Belbehra	8.23	481	175	120	32	9.6	51.9	1.9	0	214	21.3	21.1	0.5	26.7	0.09	0.122
410	Koriya	Khodri	8.5	781	230	95	22	9.6	121	5.4	9	262	74.6	42.2	0.7	14.9	0.10	1.001
411	Koriya	Pouri	8.23	707	140	195	34	26.4	67.8	4.9	0	171	92.3	53.6	0.3	38.7	0.11	0.297
412	Koriya	Manendragarh	8.25	468	150	100	14	15.6	53.7	1.9	0	183	39.1	20.8	0.8	27.1	0.09	0.102
413	Koriya	Ranai	8.4	249	135	130	26	15.6	36.4	0.6	3	159	39.1	15.3	0.4	22.2	0.11	0.767
414	Koriya	Nagpur	8.36	480	170	115	30	9.6	53.2	1.9	3	201	24.9	21.3	0.8	26.7	0.08	0.122
415	Koriya	Ghugra	8.07	886	245	105	36	3.6	135	5.4	0	299	85.2	43.3	0.7	14.9	0.11	1.001
416	Koriya	Khadgaon	8.25	675	140	165	50	9.6	64.5	4.9	0	171	60.4	52.7	0.1	41.7	0.08	0.278
417	Koriya	Piparia	8.28	371	135	70	18	6	51.8	1.9	0	165	24.9	21.7	0.6	26.5	0.09	0.141
418	Koriya	Girjapur	8.41	435	130	130	30	13.2	35.5	0.6	3	153	46.2	16.5	0.4	22.6	0.10	0.825
419	Koriya	Garundol	8.22	221	65	90	28	4.8	9.8	1.8	0	79	14.2	36.5	0.2	35.8	0.10	0.102
420	Koriya	Jamgahana	8.2	316	115	135	32	13.2	13.4	0.5	0	140	24.9	14.1	0.3	44.5	0.09	2.78
421	Koriya	Podi(chirmiri)	8.24	219	110	100	26	8.4	10.4	1.4	0	134	14.2	2.4	0.1	23.8	0.09	0.043
422	Koriya	Kelhari	8.02	671	90	280	82	18	21	0.4	0	110	63.9	85.5	0.0	37.0	0.12	1.06
423	Koriya	Mansukha	7.1	704	105	260	90	8.4	21.2	0.4	0	128	63.9	84.5	0.0	35.5	0.11	0.982

424	Mahasamund	Badesara	7.42	1513	160	435	104	42	101.5	58.5	0	195	262.7	54.3	0.7	23.8	0.1	0.000
425	Mahasamund	Patsenduri	7.5	1129	90	370	94	32.4	93.5	2.8	0	110	330.2	30.6	0.4	13.4	0.1	0.000
426	Mahasamund	Bagbahara	7.46	473	110	160	36	16.8	32	0.7	0	134	60.35	6.9	1.2	49.8	0.0	0.000
427	Mahasamund	Baldidih	7.41	533	130	200	44	21.6	29.4	2.4	0	159	85.2	1.1	0.7	60.6	0.0	0.023
428	Mahasamund	Barbaspun	7.64	367	140	145	24	20.4	18.4	0.8	0	171	28.4	13.6	0.9	39.9	0.0	0.710
429	Mahasamund	Basna	7.67	591	95	240	38	34.8	15.1	0.6	0	116	99.4	1.0	0.9	45.8	0.0	0.100
430	Mahasamund	Belsunda	7.12	279	35	100	34	3.6	8.3	1	0	43	42.6	21.7	0.5	22.2	0.0	0.160
431	Mahasamund	Bhimkhoj	7.7	219	70	70	20	4.8	17.5	0.6	0	85	7.1	33.4	1.1	66.4	0.0	11.300
432	Mahasamund	Deori	7.59	636	125	270	46	37.2	14.7	0.6	0	153	92.3	10.3	0.7	45.2	0.0	0.620
433	Mahasamund	Hadabundh	7.15	184	45	60	14	6	11.6	1.7	0	55	28.4	5.3	0.7	58.6	0.0	0.046
434	Mahasamund	Jagdishpur	7.61	623	125	265	44	37.2	14.8	0.6	0	153	92.3	4.1	0.7	46.8	0.0	1.400
435	Mahasamund	Jalki	7.62	722	135	210	56	16.8	38.3	23.5	0	165	106.5	3.7	0.7	50.9	0.0	0.115
436	Mahasamund	Jhalap	7.65	607	140	210	64	12	30.8	1.9	0	171	67.45	0.7	1.2	65.3	0.0	1.300
437	Mahasamund	Jhalkhamhariya	7.26	450	60	165	52	8.4	23.3	1.2	0	73	60.35	8.9	0.7	86.7	0.0	0.023
438	Mahasamund	Jogidipa	7.54	290	125	110	32	7.2	17.1	0.9	0	153	14.2	3.0	1.5	64.6	0.0	0.000
439	Mahasamund	Khallari	7.53	395	165	155	40	13.2	21.8	1.5	0	201	21.3	8.2	3.2	56.5	0.0	0.070
440	Mahasamund	Mahasamund.1	7.19	278	35	115	42	2.4	8.4	1.1	0	43	42.6	0.7	0.5	20.4	0.0	0.200
441	Mahasamund	Nawagaon	6.67	170	20	65	16	6	5.9	6.5	0	24	42.6	6.4	0.5	6.6	0.0	0.100
442	Mahasamund	Palsipani	7.53	234	80	95	28	6	9.5	0.4	0	98	28.4	1.5	1.2	58.0	0.0	0.330
443	Mahasamund	Saraipali	7.58	616	155	200	60	12	48	1.2	0	189	106.5	3.4	1.2	15.8	0.0	0.099
444	Mahasamund	Suamar	7.63	758	220	215	70	9.6	68.5	8.1	0	268	56.8	0.9	1.9	48.1	0.0	0.144
445	Mahasamund	Temri	7.57	455	120	150	46	8.4	34.2	1.8	0	146	56.8	0.7	0.9	34.6	0.0	0.070
446	Mahasamund	Tendukonda	7.52	237	80	100	30	6	9.7	0.4	0	98	28.4	0.7	1.2	58.7	0.0	0.260
447	Mahasamund	Tumgaon	7.14	191	50	80	26	3.6	6	1.4	0	61	28.4	0.7	0.6	18.8	0.0	0.095
448	Mahasamund	Tundri	7.6	1144	170	260	48	33.6	123.5	2.1	0	207	227.2	3.3	1.2	19.7	0.0	0.070
449	Mahasamund	Awaradabri	7.75	433	105	175	64	3.6	9.9	4.5	0	128	63.9	3.5	0.6	19.9	0.0	3.970
450	Mahasamund	Keshwa (Chinronda)	7.75	259	105	85	24	6	21.8	0.3	0	128	21.3	10.9	3.2	47.7	0.0	12.200
451	Mahasamund	Sankra	7.54	626	155	265	48	34.8	15	0.6	0	189	28.4	39.1	0.8	38.9	0.0	7.600
452	Mahasamund	Sirpur	7.71	413	55	165	58	4.8	14.8	4	0	67	7.1	127.7	0.6	13.7	0.0	0.152

453	Mahasamund	Pithora	7.4	313	85	105	38	2.4	22.2	1	0	104	39.05	24.2	1.3	63.0	0.0	0.760
454	Mungeli	Fulwari	8.3	1985	430	490	26	102	232.5	1.3	6	512	262.7	145.4	0.4	73.2	0.2	0.000
455	Mungeli	Mungeli	7.9	1344	175	490	84	67.2	81.5	2.4	0	214	74.6	367.9	0.0	21.3	0.1	0.000
456	Raigarh	Amapali	7.04	81	30	30	10	1.2	2.3	2	0	37	7.1	0.1	0.4	20.4	0.1	1.061
457	Raigarh	Auranar	6.7	168	25	65	16	6	4	8.6	0	31	17.8	0.0	0.4	7.8	0.1	0.167
458	Raigarh	Aurda	7.48	427	95	185	50	14.4	12.3	0.4	0	116	67.5	13.4	0.6	13.2	0.1	1.820
459	Raigarh	Bade Nawapara	7.61	213	85	100	32	4.8	1.6	2.7	0	104	10.7	0.0	0.4	14.1	0.2	0.502
460	Raigarh	Bakaruma	7.2	169	70	60	20	2.4	12.9	2.7	0	85	17.8	0.0	1.3	39.3	0.6	0.927
461	Raigarh	Bansjer	7.6	568	200	150	32	16.8	58.4	2.4	0	244	46.2	13.8	1.0	36.7	0.1	0.100
462	Raigarh	Baramkela	7.54	461	195	225	42	28.8	7.5	2.5	0	238	21.3	3.3	0.9	17.2	0.1	0.000
463	Raigarh	Barkaspali	7.68	446	170	150	24	21.6	19.6	23	0	207	39.1	0.0	0.7	7.3	0.1	0.190
464	Raigarh	Barpali	7.22	149	45	60	16	4.8	4.3	4.1	0	55	21.3	0.0	0.4	20.8	0.1	0.056
465	Raigarh	Bartapali	6.85	222	25	75	16	8.4	7.6	10.1	0	31	32.0	0.0	0.3	21.5	0.1	0.000
466	Raigarh	Bataupali	7.64	414	170	130	32	12	19.2	27.5	0	207	21.3	9.1	0.7	7.9	0.1	1.574
467	Raigarh	Bayasi	7.62	436	135	140	30	15.6	19.4	27.5	0	165	21.3	7.6	0.7	7.8	0.1	1.842
468	Raigarh	Bhangari	7.54	434	100	165	42	14.4	19.2	9.2	0	122	60.4	4.8	0.7	18.9	0.1	0.502
469	Raigarh	Bojja	7.04	340	95	135	30	14.4	14.95	8.9	0	116	60.4	4.3	0.7	18.7	0.1	0.525
470	Raigarh	Bonda	7.48	382	155	185	38	21.6	3.3	0.2	0	189	14.2	12.0	0.5	6.3	0.1	0.100
471	Raigarh	Boro	7.23	203	40	45	10	4.8	9.6	27.5	0	49	35.5	0.0	0.4	0.6	0.1	2.401
472	Raigarh	Chaple	7.61	522	160	70	18	6	89.7	1.4	0	195	63.9	5.7	0.7	20.0	0.2	0.000
473	Raigarh	Charkhapara	7.49	425	105	160	46	10.8	26.3	0.8	0	128	49.7	11.3	0.8	51.0	0.1	0.324
474	Raigarh	Chhal	7.59	410	140	145	32	15.6	26.3	0.8	0	171	42.6	0.0	0.6	8.0	0.1	0.949
475	Raigarh	Chhind	7.66	244	105	110	28	9.6	1.9	2.9	0	128	7.1	0.0	0.5	12.5	0.1	0.636
476	Raigarh	Chimtapani	7.6	462	125	140	28	16.8	24.2	23	0	153	63.9	19.5	0.5	7.4	0.1	0.000
477	Raigarh	Choranga	7.29	232	65	50	14	3.6	28.4	3.3	0	79	17.8	0.0	1.3	35.1	0.1	0.837
478	Raigarh	Damdarha	7.66	506	145	140	32	14.4	43.5	6.3	0	177	39.1	7.1	1.4	42.0	0.1	0.000
479	Raigarh	Derpani	7.56	339	20	130	28	14.4	14.95	6.2	0	24	78.1	0.4	0.4	11.0	0.1	0.190
480	Raigarh	Devgarh	7.59	425	85	135	32	13.2	28.9	1.8	0	104	74.6	1.3	0.5	13.5	0.1	0.000
481	Raigarh	Dharmajaigarh	7.67	454	95	125	38	7.2	36.4	19	0	116	67.5	15.3	0.5	10.3	0.1	0.000

482	Raigarh	Duliamuda	6.96	182	25	55	12	6	7.2	17.5	0	31	32.0	0.0	0.4	18.0	0.1	0.000
483	Raigarh	Dumarpali	7.19	135	40	55	12	6	4.3	4.1	0	49	17.8	0.0	0.4	18.2	0.1	0.078
484	Raigarh	Durgapur	7	106	35	35	10	2.4	4	5.6	0	43	14.2	0.0	0.5	15.3	0.1	0.000
485	Raigarh	Edu	6.92	93	25	35	6	4.8	5	6.4	0	31	17.8	0.0	0.6	18.1	0.1	0.000
486	Raigarh	Farkanara	7.59	456	100	170	38	18	20.3	11	0	122	49.7	8.2	0.6	10.5	0.1	0.000
487	Raigarh	Gare	7.48	472	100	100	22	10.8	52.2	18	0	122	71.0	6.1	0.6	3.4	0.1	0.000
488	Raigarh	Gersa	7.78	480	120	150	36	14.4	13.2	42.5	0	146	71.0	8.6	0.6	3.5	0.1	3.138
489	Raigarh	Gharghoda	7.57	397	170	140	28	16.8	10.5	25.5	0	207	17.8	0.0	0.9	7.3	0.1	0.000
490	Raigarh	Gidha	7.6	467	160	180	36	21.6	24.8	1.1	0	195	35.5	23.2	0.9	17.0	0.1	0.000
491	Raigarh	Golabuda	7.32	183	75	60	20	2.4	12.7	2.6	0	92	10.7	0.0	1.5	34.3	0.1	0.726
492	Raigarh	Hati	7.06	180	15	50	14	3.6	11.3	10.3	0	18	32.0	0.0	0.4	17.2	0.1	0.000
493	Raigarh	Hirri	7.56	331	125	125	30	12	17.8	0.7	0	153	24.9	3.5	1.1	12.2	0.1	0.000
494	Raigarh	Jabga	7.36	119	45	45	16	1.2	5	1.1	0	55	10.7	0.0	0.7	13.1	0.1	15.250
495	Raigarh	Jamgaon	7.19	159	40	55	14	4.8	7.6	3.5	0	49	24.9	0.0	0.4	5.7	0.1	0.000
496	Raigarh	Jegarpur	7.62	360	170	65	18	4.8	57.7	1.7	0	207	17.8	0.0	3.6	35.4	0.1	0.710
497	Raigarh	Jhikipali	7.63	220	110	110	28	9.6	3.2	2.8	0	134	7.1	0.0	0.6	10.3	0.1	0.660
498	Raigarh	Kanakbira	7.73	487	210	140	32	14.4	44	3.1	0	256	21.3	4.0	4.7	23.0	0.1	1.250
499	Raigarh	Kandadand	7.83	368	140	110	32	7.2	37	0.4	0	171	28.4	0.0	1.3	15.9	0.1	1.020
500	Raigarh	Kapu	7.1	604	25	170	38	18	44.3	6.1	0	31	81.7	0.0	0.4	7.1	0.1	0.620
501	Raigarh	Karigashi	7.05	100	35	40	10	3.6	4	5.7	0	43	14.2	0.0	0.5	10.8	0.1	0.000
502	Raigarh	KarraMara	7.16	421	115	155	42	12	25.3	0.8	0	140	49.7	7.7	0.9	44.1	0.1	0.563
503	Raigarh	Katangdih	7.44	82	25	25	8	1.2	3.8	4.3	0	31	10.7	0.0	0.4	9.1	0.1	19.290
504	Raigarh	Kedar	7.4	242	105	110	28	9.6	3.2	2.7	0	128	10.7	0.0	0.5	7.5	0.1	0.750
505	Raigarh	Kerajhar	7.61	571	185	120	22	15.6	39	57	0	226	56.8	0.2	0.6	4.8	0.1	0.206
506	Raigarh	Khadgaon	7.67	411	160	130	28	14.4	18.2	29	0	195	28.4	3.2	0.7	3.3	0.1	1.840
507	Raigarh	Khanhar	7.67	458	150	150	42	10.8	36.8	0.3	0	183	46.2	1.1	0.6	12.0	0.1	0.164
508	Raigarh	Kharsia	7.47	774	100	210	66	10.8	72.2	2.2	0	122	134.9	38.7	0.6	6.4	0.1	0.038
509	Raigarh	Kondatarai	7.53	435	90	185	56	10.8	12.3	0.6	0	110	67.5	7.0	0.6	6.2	0.1	1.592
510	Raigarh	Kotarliya	7.67	385	105	145	38	12	22.4	0.5	0	128	42.6	0.2	0.7	27.4	0.1	0.000

511	Raigarh	Kotra	7.71	743	110	205	52	18	77.6	1.6	0	134	28.4	107.7	0.1	14.0	0.1	2.685
512	Raigarh	Kotrimal	7.62	545	130	190	34	25.2	22.9	22	0	159	67.5	18.0	0.5	3.6	0.1	0.059
513	Raigarh	Kurekela	7.64	406	155	125	28	13.2	17.9	23.5	0	189	35.5	0.0	0.8	2.7	0.1	0.038
514	Raigarh	Kurmibhuna	6.78	151	50	55	14	4.8	6.2	4.6	0	61	14.2	0.0	0.5	25.4	0.1	1.004
515	Raigarh	Lailunga	7.24	760	100	270	92	9.6	42.2	1.8	0	122	113.6	32.8	0.4	39.2	0.1	4.260
516	Raigarh	Lakha	7.08	78	15	25	6	2.4	5.3	0.5	0	18	14.2	0.0	0.3	7.6	0.1	0.100
517	Raigarh	Lakshmipur	7.54	565	195	130	24	16.8	64.1	2.2	0	238	46.2	13.8	0.9	39.5	0.1	0.059
518	Raigarh	Laripani	7.38	358	135	50	12	4.8	57.4	1.5	0	165	17.8	0.1	4.4	40.2	0.1	0.311
519	Raigarh	Lendhra	6.45	426	105	185	48	15.6	11.3	0.6	0	128	60.4	10.9	0.6	12.2	0.1	0.857
520	Raigarh	Lipti	7.25	126	40	35	12	1.2	10.6	3.1	0	49	17.8	0.0	0.6	4.5	0.1	1.256
521	Raigarh	Mahuadih	7.56	111	45	35	12	1.2	12.3	0.8	0	55	10.7	0.0	0.8	32.5	0.1	0.794
522	Raigarh	Mahuapali	7.61	376	145	180	30	25.2	2.4	0.3	0	177	14.2	10.5	0.4	10.0	0.1	11.900
523	Raigarh	Matasi	7.2	166	65	55	18	2.4	12	0.9	0	79	14.2	0.0	0.5	32.5	0.1	0.248
524	Raigarh	Milupara	7.11	142	60	55	18	2.4	4.8	2.6	0	73	7.1	0.0	0.4	18.6	0.1	0.000
525	Raigarh	Munund	7.12	128	40	40	12	2.4	6.6	5.9	0	49	7.1	0.0	0.4	13.7	0.1	0.731
526	Raigarh	Nawrangpur	7.5	1049	120	380	90	37.2	70	2.7	0	146	28.4	135.5	0.4	17.8	0.1	0.311
527	Raigarh	Pindri	7.46	133	55	55	16	3.6	2.1	4.6	0	67	10.7	1.1	0.5	17.3	0.1	0.311
528	Raigarh	Raigarh	7.27	232	70	95	16	13.2	5.5	4.9	0	85	10.7	29.9	0.9	2.5	0.1	0.038
529	Raigarh	Rajpur	7.32	161	55	50	16	2.4	12.2	2.3	0	67	17.8	0.0	1.3	36.9	0.1	0.000
530	Raigarh	Reda	7.41	593	130	220	70	10.8	26.8	5.1	0	159	117.2	4.2	0.6	14.5	0.1	0.000
531	Raigarh	Rengelpali	7.43	372	145	150	46	8.4	15	0.7	0	177	28.4	0.0	0.5	11.6	0.1	0.080
532	Raigarh	Sahidaur (Jam Dhora)	7.39	374	145	145	52	3.6	14.8	0.7	0	177	32.0	0.0	0.6	11.7	0.1	0.164
533	Raigarh	Salkhiya	7.64	355	160	75	16	8.4	56.5	1.5	0	195	17.8	0.0	5.1	37.8	0.1	1.004
534	Raigarh	Samarumi	6.89	70	25	30	4	4.8	1.4	0.5	0	31	7.1	0.0	0.5	-1.5	0.1	0.143
535	Raigarh	Sariya	7.4	752	90	330	104	16.8	19.2	5.3	0	110	28.4	108.0	0.5	20.4	0.1	0.000
536	Raigarh	Semra	7.62	318	125	155	26	21.6	2.4	0.3	0	153	14.2	10.3	0.5	7.2	0.1	0.101
537	Raigarh	Shahpur	7.12	105	30	40	10	3.6	1.9	6.3	0	37	14.2	0.0	0.4	14.7	0.1	0.836
538	Raigarh	Sirsinga	7.51	453	100	125	38	7.2	35.3	15	0	122	63.9	6.0	0.4	9.4	0.1	14.490
539	Raigarh	Surajgarh	7.6	319	100	160	32	19.2	2.2	0.3	0	122	35.5	6.5	0.5	7.2	0.1	0.100
540	Raigarh	Tadola	7.56	454	190	210	36	28.8	6	2.1	0	232	14.2	0.5	1.0	12.6	0.1	0.000
541	Raigarh	Tamnar	7.47	306	100	110	30	8.4	15.2	4.3	0	122	39.1	0.0	0.5	22.1	0.1	0.017
542	Raigarh	Taraimal.1	7.1	143	25	40	8	4.8	13.6	1.5	0	31	21.3	0.0	0.4	54.4	0.1	0.088
543	Raigarh	Taraimar	7.39	2950	80	810	216	64.8	261	39	0	98	781.0	80.2	0.5	21.4	0.1	0.170

544	Raigarh	Teram (New)	7.38	311	135	110	24	12	16.2	7.6	0	165	10.7	5.1	0.8	8.4	0.1	0.038
545	Raigarh	Tetla	7.36	733	90	330	104	16.8	14.9	3.1	0	110	21.3	128.4	0.5	21.2	0.1	0.647
546	Raigarh	Ududa	6.97	109	30	40	10	3.6	1.4	6.6	0	37	14.2	0.0	0.4	14.2	0.1	0.038
547	Raigarh	Ulda	7.53	467	105	190	58	10.8	2.5	30	0	128	49.7	11.9	0.3	7.9	0.1	1.647
548	Raigarh	Amaghat	7.7	546	90	230	54	22.8	18.3	3.1	0	110	78.1	25.9	0.6	15.1	0.1	0.000
549	Raigarh	Bhupdevpur	7.55	462	110	180	36	21.6	27.2	1.1	0	134	63.9	28.2	0.7	16.2	0.1	0.000
550	Raigarh	Chaple	7.65	719	180	165	40	15.6	95.5	0.9	0	220	110.1	4.3	0.7	18.0	0.1	0.600
551	Raigarh	Dauranbhattha	7.59	325	120	95	26	7.2	13.8	31	0	146	28.4	0.0	1.6	7.1	0.1	1.190
552	Raigarh	Kedar	7.16	104	20	35	8	3.6	2.9	7.6	0	24	14.2	0.0	0.3	15.8	0.1	0.164
553	Raigarh	Kharsia-d	7.41	778	105	285	98	9.6	45.1	1.9	0	128	113.6	32.3	0.4	34.0	0.1	0.059
554	Raigarh	Khedapali I	7.71	556	260	160	12	31.2	52.2	7.9	0	317	7.1	10.7	0.7	6.0	0.1	0.000
555	Raigarh	Lailunga	7.21	142	40	65	14	7.2	2.6	4.2	0	49	21.3	0.0	0.5	15.0	0.1	0.000
556	Raigarh	Nwapara -I	7.47	902	80	310	84	24	62.8	1.4	0	98	85.2	103.0	0.4	16.2	0.1	0.800
557	Raigarh	Porda I	7.21	196	10	70	16	7.2	7.5	2	0	12	56.8	0.0	0.4	5.5	0.1	0.269
558	Raigarh	Raigarh-d	7.63	361	160	45	8	6	62.8	1.5	0	195	17.8	0.0	2.6	33.6	0.1	0.017
559	Raigarh	Taramal-1	7.63	215	100	110	30	8.4	0.2	2.6	0	122	7.1	0.0	0.4	9.6	0.1	0.000
560	Raigarh	Teram-I	7.46	871	100	270	72	21.6	76	1.4	0	122	156.2	48.7	0.5	10.8	0.1	0.731
561	Raipur	Abhanpur	7.65	681	140	230	56	21.6	50.6	2.1	0	171	81.65	2.8	0.5	13.3	0.0	0.046
562	Raipur	Amera	7.71	478	120	160	34	18	33.5	1.5	0	146	74.55	0.7	0.8	15.8	0.0	3.300
563	Raipur	Aouri	7.78	435	150	180	28	26.4	15.8	2	0	183	46.15	3.4	0.7	18.9	0.0	0.023
564	Raipur	Arang	7.71	552	200	115	22	14.4	72.4	0.8	0	244	46.15	0.7	1.0	23.5	0.0	0.046
565	Raipur	Arjuni	7.5	493	80	205	48	20.4	18.2	1.8	0	98	71	8.9	0.6	11.7	0.0	0.046
566	Raipur	Bajrangpur	7.89	783	255	255	96	3.6	46.9	4	0	311	95.85	0.7	0.6	15.4	0.0	0.095
567	Raipur	Baloda bazar	7.81	514	235	195	20	34.8	27	1.2	0	287	21.3	4.0	0.7	16.6	0.0	3.990
568	Raipur	Baruka	7.67	257	120	95	24	8.4	13.5	0.9	0	146	10.65	0.1	0.8	59.9	0.0	3.450
569	Raipur	Bhaisa	7.75	733	275	70	16	7.2	127	7.9	0	336	31.95	58.6	1.9	20.2	0.0	14.600
570	Raipur	Bhatgaon	7.38	1814	70	715	220	39.6	67.5	2	0	85	404.7	10.2	0.5	13.1	0.0	12.500
571	Raipur	Bhatia	7.46	397	80	135	44	6	25.7	1.8	0	98	42.6	57.3	0.7	7.6	0.0	0.115
572	Raipur	Bhumiya	7.59	333	115	140	36	12	8.8	2	0	140	31.95	10.8	0.6	9.6	0.0	0.994
573	Raipur	Biladi	7.56	834	115	315	64	37.2	42.4	0.9	0	140	127.8	19.1	0.5	14.6	0.0	0.850
574	Raipur	Bilaigarh	7.65	461	195	195	76	1.2	6.7	0.3	0	238	17.75	9.3	0.8	9.1	0.0	0.420
575	Raipur	Bishrampur	7.59	249	90	100	24	9.6	8.2	0.9	0	110	14.2	4.8	0.5	25.3	0.0	0.000
576	Raipur	Bitkuli	7.47	611	105	210	62	13.2	35.9	1.1	0	128	99.4	47.3	0.7	15.0	0.0	0.850
577	Raipur	Chanderi	7.52	1014	200	335	88	27.6	73.6	13	0	244	53.25	54.5	0.6	14.1	0.0	0.070

578	Raipur	Chandi	7.52	258	110	110	42	1.2	4.1	1	0	134	10.65	3.2	0.5	6.0	0.0	0.270
579	Raipur	Chhura	7.15	264	45	75	22	4.8	20.9	1.2	0	55	46.15	8.9	0.5	32.0	0.0	0.230
580	Raipur	Chicholi	7.51	256	100	115	38	4.8	6.3	0.9	0	122	14.2	0.1	0.4	16.9	0.0	0.060
581	Raipur	Chrauda	7.73	1057	200	290	102	8.4	67	37	0	244	134.9	78.9	1.3	25.5	0.0	0.253
582	Raipur	Damakheda	7.56	820	105	355	72	42	18	1.4	0	128	117.2	9.8	0.6	19.2	0.0	2.920
583	Raipur	Darchura	7.54	751	100	290	72	26.4	25.5	4.3	0	122	88.75	73.0	0.5	13.5	0.0	0.250
584	Raipur	Devpuri	7.47	726	95	210	68	9.6	58	2.8	0	116	124.3	46.6	0.5	9.9	0.0	0.070
585	Raipur	Devri	7.79	622	310	250	80	12	38	7.1	0	378	28.4	2.8	0.6	19.5	0.0	0.900
586	Raipur	Devri	7.49	710	85	285	72	25.2	23	1.7	0	104	113.6	52.1	0.6	12.4	0.0	0.023
587	Raipur	Devsundri	7.75	575	200	100	18	13.2	68.5	4.1	0	244	28.4	31.9	1.2	17.5	0.0	19.100
588	Raipur	Dumartarai	7.54	841	75	265	84	13.2	62.7	1.9	0	92	191.7	25.9	0.5	8.8	0.0	0.230
589	Raipur	Fingeshwar	7.61	304	115	110	28	9.6	18.4	1.5	0	140	28.4	0.2	0.6	21.5	0.0	0.990
590	Raipur	Gariaband	7.52	777	160	245	76	13.2	50.4	2.4	0	195	92.3	29.1	0.6	27.0	0.0	0.000
591	Raipur	Ghatapara	7.53	679	180	215	62	14.4	51.4	2	0	220	92.3	31.0	0.7	12.1	0.0	0.138
592	Raipur	Haswa	7.52	369	100	155	58	2.4	5.9	1.1	0	122	46.15	0.1	0.5	12.0	0.0	0.760
593	Raipur	Kanekera	7.81	337	120	85	24	6	39.9	1.4	0	146	21.3	25.3	0.6	12.7	0.0	0.023
594	Raipur	Kanki	7.49	384	140	140	44	7.2	18.9	1.1	0	171	28.4	10.0	0.7	12.1	0.0	0.023
595	Raipur	Kasdol	7.55	597	135	145	52	3.6	55.2	2.9	0	165	85.2	16.3	0.7	10.9	0.0	0.027
596	Raipur	Kaseru	7.69	247	80	85	26	4.8	15	0.7	0	98	21.3	0.1	0.8	47.6	0.0	2.760
597	Raipur	Kashi Bahara	7.52	355	100	115	30	9.6	26	1.5	0	122	35.5	7.6	0.8	45.7	0.0	0.000
598	Raipur	Kasrangi	7.5	684	125	220	46	25.2	48.7	1.4	0	153	124.3	24.3	0.9	19.9	0.0	0.092
599	Raipur	Khapri	8.02	1120	365	20	4	2.4	253.5	1.7	0	445	56.8	143.7	1.5	13.2	0.0	0.023
600	Raipur	Kharkhara	7.56	413	130	140	40	9.6	32.6	3.4	0	159	56.8	10.8	1.1	32.7	0.0	0.070
601	Raipur	Kharora	7.58	377	125	155	56	3.6	9.1	0.6	0	153	39.05	10.9	0.7	18.3	0.0	1.550
602	Raipur	Koma	7.59	374	110	135	34	12	21.6	1.2	0	134	56.8	6.0	0.7	25.0	0.0	0.440
603	Raipur	Kurra	7.64	325	115	120	30	10.8	17.7	7.4	0	140	35.5	9.8	0.5	14.4	0.0	0.355
604	Raipur	Lahoud	7.61	1060	270	260	68	21.6	105	2.9	0	329	184.6	1.2	0.9	18.4	0.0	0.920
605	Raipur	Lawan	7.6	1195	105	240	58	22.8	157	3.2	0	128	205.9	125.0	1.9	16.4	0.0	0.138
606	Raipur	Manabasti	7.48	632	90	260	74	18	25.8	1	0	110	131.4	30.7	0.6	19.2	0.0	3.950
607	Raipur	Mandalpur	7.45	429	10	130	32	12	33.3	6.7	0	12	74.55	24.1	0.5	12.5	0.0	0.023
608	Raipur	Mandhar	7.49	305	120	105	34	4.8	19	2.1	0	146	10.65	26.1	1.4	35.3	0.0	0.092
609	Raipur	Mandirhasud	7.58	721	160	175	48	13.2	52	31	0	195	106.5	15.9	0.5	5.7	0.0	18.300
610	Raipur	Marban Gatadih	7.62	517	155	210	36	28.8	17.6	0.9	0	189	60.35	14.8	0.6	13.9	0.0	0.300
611	Raipur	Mudhipar	7.59	466	165	145	42	9.6	34.5	1.8	0	201	28.4	25.0	0.8	34.7	0.0	0.046

612	Raipur	Narra	7.45	762	95	295	68	30	19.1	0.7	0	116	156.2	19.3	0.9	25.0	0.0	1.340
613	Raipur	Palari	7.72	1350	215	495	130	40.8	57.5	2.4	0	262	298.2	31.6	1.0	16.5	0.0	0.077
614	Raipur	Pandan Bhata	7.64	367	160	170	42	15.6	7.5	1.5	0	195	21.3	3.7	0.6	13.2	0.0	0.555
615	Raipur	Panduka	7.65	204	70	85	30	2.4	6.6	1.5	0	85	24.85	0.7	0.5	6.5	0.0	0.115
616	Raipur	Parsa Khurd	7.64	384	140	120	26	13.2	30.1	0.6	0	171	35.5	4.4	1.0	46.1	0.0	0.716
617	Raipur	Raipur	7.46	283	85	105	34	4.8	15.7	1.7	0	104	31.95	15.4	0.8	10.7	0.0	0.333
618	Raipur	Raita (Satna ni para)	7.45	784	140	270	70	22.8	27.2	24	0	171	127.8	38.3	0.5	19.1	0.0	0.207
619	Raipur	Rajim	7.53	858	135	235	60	20.4	61.5	31	0	165	170.4	45.0	0.6	42.4	0.0	0.046
620	Raipur	Ranisagar	7.63	859	180	250	50	30	72	3.7	0	220	142	25.4	0.6	12.7	0.0	0.170
621	Raipur	Ravishankar University	7.53	576	95	175	44	15.6	42.6	1	0	116	88.75	59.9	0.6	17.7	0.0	0.046
622	Raipur	Risda	7.56	460	125	125	36	8.4	42.1	1.5	0	153	67.45	16.3	0.5	7.6	0.0	0.180
623	Raipur	Sakara	7.63	581	180	145	38	12	66.2	4.5	0	220	49.7	40.7	0.8	17.8	0.0	0.243
624	Raipur	Sandi	7.84	698	275	70	12	9.6	125	12	0	336	31.95	40.3	1.8	19.2	0.0	17.700
625	Raipur	Saragaon	7.33	289	110	100	24	9.6	22.9	1.1	0	134	28.4	3.3	0.5	50.3	0.0	0.117
626	Raipur	Sarsiwa	7.49	1157	75	345	108	18	73.9	6.2	0	92	266.3	57.4	0.4	15.8	0.0	2.660
627	Raipur	Sel	7.4	403	80	160	52	7.2	18.1	1.7	0	98	28.4	90.6	0.8	8.2	0.0	0.099
628	Raipur	Semoriya	7.32	572	155	230	78	8.4	24.9	2	0	189	60.35	61.4	0.7	10.1	0.0	0.046
629	Raipur	Simga	7.58	754	105	275	60	30	48	2	0	128	31.95	191.6	0.5	14.7	0.0	0.046
630	Raipur	Suhela	7.46	824	105	250	84	9.6	37.6	17	0	128	113.6	93.7	0.5	15.1	0.0	0.437
631	Raipur	Sursabandha	7.41	1014	80	325	102	16.8	55.7	0.7	0	98	237.9	50.7	0.6	20.3	0.0	3.790
632	Raipur	Tarenga	7.69	684	110	255	40	37.2	38.6	6.5	0	134	67.45	144.0	0.7	15.9	0.0	0.046
633	Raipur	Tarpongi	7.4	949	85	345	100	22.8	43.7	7.7	0	104	191.7	112.9	0.6	10.2	0.0	0.270
634	Raipur	Tatibandh MVM	7.39	276	70	100	34	3.6	15.5	1.6	0	85	21.3	33.9	0.9	8.8	0.0	0.046
635	Raipur	Tilda (Purani Basti)	7.54	808	110	295	58	36	39	0.8	0	134	142	29.4	0.5	14.6	0.0	0.000
636	Raipur	RGNGWTRI, CGWB	7.68	320	160	110	34	6	32.6	0.4	0	195	21.3	0.1	0.8	14.0	0.0	2.150
637	Raipur	Bhattapara-d	7.59	1017	160	410	80	50.4	23	5.5	0	195	99.4	170.3	0.6	23.1	0.0	0.500
638	Raipur	Khamhariya	7.42	598	90	210	60	14.4	27.9	1.5	0	110	103	46.9	1.1	14.4	0.0	0.430
639	Raipur	Nawagaon	7.62	276	125	115	28	10.8	14.9	0.7	0	153	14.2	0.1	0.5	16.5	0.0	0.473
640	Raipur	Sorid	7.65	453	190	145	44	8.4	36.7	1	0	232	24.85	10.8	1.8	48.1	0.0	0.070
641	Rajnandgaon	Anjora	8.09	816	145	230	68	14.4	58.7	17	0	177	120.7	52.5	0.0	10.3	0.3	0.000
642	Rajnandgaon	Badaitola	8.07	720	125	265	76	18	32	4.2	0	153	95.9	27.3	0.2	12.2	0.2	2.367

643	Rajnandgaon	Baghera	8.14	578	105	205	60	13.2	24.8	1.5	0	128	99.4	29.8	0.0	11.0	0.3	4.846
644	Rajnandgaon	Baigatola	8.07	775	100	250	78	13.2	43.1	2.3	0	122	142.0	42.7	0.1	16.9	0.5	0.000
645	Rajnandgaon	Bandhabazar	8.28	671	155	210	58	15.6	39.6	9.9	0	189	81.7	23.8	0.4	25.4	0.8	0.239
646	Rajnandgaon	Bhaistara (Bhatapara)	8.15	838	110	270	64	26.4	60.5	0.3	0	134	110.1	41.0	0.1	57.1	1.3	0.073
647	Rajnandgaon	Bharritola	8.06	1444	270	330	80	31.2	127.5	39	0	329	248.5	90.2	0.5	28.0	1.1	0.000
648	Rajnandgaon	Bhorampur	8.44	583	280	160	32	19.2	78.8	0.4	6	329	35.5	16.3	0.6	25.4	0.9	1.300
649	Rajnandgaon	Bodal	8.26	457	125	185	50	14.4	16.9	0.3	0	153	49.7	11.0	0.4	14.5	0.5	1.220
650	Rajnandgaon	Bori	8	1108	135	245	68	18	95.5	4.3	0	165	198.8	61.3	0.0	14.0	0.5	0.611
651	Rajnandgaon	Dewada	8.19	406	140	185	46	16.8	21.1	0.5	0	171	39.1	19.4	0.2	17.3	0.4	0.108
652	Rajnandgaon	Dhaneli	8.17	789	225	270	56	31.2	56	10.5	0	275	95.9	43.6	0.6	21.4	0.5	0.095
653	Rajnandgaon	Dhara	8.27	1204	350	460	44	84	81	13	0	427	134.9	51.2	1.0	39.0	1.0	1.975
654	Rajnandgaon	Dongargaon.1	8.22	725	85	235	84	6	50.4	0.6	0	104	103.0	32.4	0.8	49.0	1.0	8.369
655	Rajnandgaon	Dongargarh	8.09	942	140	260	74	18	86.4	13	0	171	156.2	48.7	0.1	22.9	0.8	0.042
656	Rajnandgaon	Ghortalab	8.01	829	130	255	76	15.6	66.2	1.6	0	159	95.9	46.7	0.5	19.5	0.7	0.135
657	Rajnandgaon	Govindpur	7.99	1063	170	335	94	24	73.5	0.5	0	207	181.1	28.3	0.8	32.2	0.6	0.320
658	Rajnandgaon	Jalbanda	8.15	425	110	170	56	7.2	16	1.1	0	134	39.1	5.8	0.2	8.6	0.6	0.175
659	Rajnandgaon	kalkosa	8.46	384	150	160	50	8.4	17.6	0.1	6	171	28.4	9.7	0.1	40.8	0.7	0.201
660	Rajnandgaon	Khairagarh	8.27	518	175	190	52	14.4	30.8	0.9	0	214	35.5	14.2	0.1	15.9	0.6	1.776
661	Rajnandgaon	Kokpur I	7.88	1414	125	535	130	50.4	59.4	0.7	0	153	245.0	87.0	0.8	50.1	0.5	2.399
662	Rajnandgaon	Kumarda.1	8.06	874	175	330	72	36	52.3	0.8	0	214	124.3	101.3	0.5	56.0	0.3	1.075
663	Rajnandgaon	Lal bhadurnagar	8.35	201	65	75	18	7.2	14.4	0.1	3	73	21.3	6.8	0.4	46.7	0.4	0.678
664	Rajnandgaon	Madrakuhi	8.13	352	130	165	40	15.6	11.9	0.5	0	159	32.0	3.8	0.3	23.4	0.1	1.300
665	Rajnandgaon	Mohgaon	7.96	881	145	410	88	45.6	12.3	0.8	0	177	117.2	61.0	0.2	15.8	0.2	0.320
666	Rajnandgaon	Narmada	8.24	345	145	155	30	19.2	19.5	0.4	0	177	28.4	4.5	0.3	20.8	0.1	0.148
667	Rajnandgaon	Nawagaon	7.92	980	110	350	80	36	45.9	3.3	0	134	159.8	56.9	0.4	21.6	0.1	2.451
668	Rajnandgaon	Rangkathera	8.21	517	145	185	52	13.2	31.2	0.7	0	177	60.4	7.6	0.1	15.3	0.2	0.228
669	Rajnandgaon	Ranitalab	8.43	820	170	205	54	16.8	93.6	1.2	6	195	113.6	53.6	0.9	49.5	0.1	0.717
670	Rajnandgaon	Ranitarai	8.26	576	190	245	62	21.6	21.8	0.7	0	232	53.3	17.2	0.4	17.6	0.1	2.107
671	Rajnandgaon	Reevadih	8.23	717	155	225	36	32.4	59.6	2.2	0	189	124.3	57.1	0.6	23.3	0.1	0.333
672	Rajnandgaon	Reevagaon	8.06	1042	170	350	64	45.6	60.9	0.4	0	207	191.7	40.9	0.3	41.6	0.8	0.558
673	Rajnandgaon	Revagahan	7.82	1382	145	555	150	43.2	44.8	0.6	0	177	230.8	70.0	0.6	17.9	0.1	0.426

674	Rajnandgaon	Salhebara	8.63	1118	515	165	12	32.4	190.5	0.3	9	610	17.8	10.7	1.1	46.2	0.3	0.479
675	Rajnandgaon	Saloni	8.21	345	120	175	38	19.2	10.9	0.7	0	146	39.1	3.9	0.2	17.0	0.2	2.306
676	Rajnandgaon	Singhola	7.74	2150	105	890	122	140.4	102.5	1.8	0	128	497.0	96.4	0.3	21.8	0.6	0.373
677	Rajnandgaon	Somni	8.16	606	135	170	40	16.8	43	8.8	0	165	81.7	25.0	0.3	21.6	0.5	3.047
678	Rajnandgaon	Sundara	8.06	1675	130	310	64	36	198	3.7	0	159	372.8	66.9	1.8	14.8	0.2	1.353
679	Rajnandgaon	Talai	7.95	959	120	370	78	42	40.3	1.7	0	146	124.3	45.3	0.3	22.3	0.2	12.125
680	Rajnandgaon	Tappa	8.58	407	160	165	24	25.2	40.2	1.7	9	177	46.2	5.8	0.7	22.0	0.1	0.784
681	Rajnandgaon	Uperwah	8.31	490	170	210	36	28.8	7.8	0.5	3	201	46.2	14.7	0.4	20.0	0.3	0.108
682	Rajnandgaon	Uraidabritola	8.35	420	165	150	24	21.6	24.1	1.3	6	189	32.0	9.2	1.7	36.7	0.5	0.161
683	Rajnandgaon	Bharritola	8.33	450	145	140	46	6	47.3	1.9	3	171	42.6	21.9	0.9	63.0	0.8	0.135
684	Rajnandgaon	Ambagarh Chowki	8.29	453	175	215	32	32.4	4.8	0.5	0	214	39.1	18.7	0.2	23.8	0.2	Leaka ge
685	Rajnandgaon	Gandai	8.2	502	130	155	44	10.8	29.8	1	0	159	63.9	17.3	0.2	4.9	0.3	0.161
686	Surajpur	Shivnagar	8.52	275	115	85	28	3.6	22.6	1	6	128	17.8	3.9	0.9	11.5	0.11	3.19
687	Surajpur	Abhaypur	8.28	279	105	110	26	10.8	8.5	0.9	0	128	17.8	2.4	0.1	56.4	0.10	0.669
688	Surajpur	Krishnapur (kalwa)	8.55	313	135	85	16	10.8	35.4	1.8	3	159	14.2	17.3	0.8	24.0	0.10	1.979
689	Surajpur	Dwarikanagar	8.21	174	75	65	18	4.8	12	1.5	0	92	7.1	6.0	0.3	48.1	0.09	1.158
690	Surajpur	Bhediya	8.2	409	185	135	44	6	31	4.7	0	226	10.7	21.6	1.1	44.8	0.09	2.194
691	Surajpur	Jagatpur Podipara	8.21	478	125	160	54	6	25.1	0.8	0	153	56.8	17.5	0.2	44.5	0.11	5.4
692	Surguja	Rajpur	8.28	304	80	130	28	14.4	11.7	1.2	0	98	21.3	15.0	0.2	65.3	0.12	0.102
693	Surguja	Nawapara	8.23	171	80	65	18	4.8	17.5	1.6	0	98	10.7	2.8	0.8	75.2	0.12	1.431
694	Surguja	Sargaoa	8.14	332	80	150	26	20.4	11.5	1.1	0	98	56.8	14.2	0.1	56.8	0.11	0.082
695	Surguja	Katkalo	8.15	447	130	165	38	16.8	29.2	0.9	0	159	56.8	16.4	0.3	36.1	0.12	0.102
696	Surguja	Bhaiyathan	8.12	221	65	75	20	6	19.5	0.7	0	79	24.9	4.1	1.2	60.7	0.11	1.295
697	Surguja	Badsara	8.53	291	115	115	28	10.8	14.3	0.3	9	122	17.8	13.3	0.3	48.4	0.09	2.996
698	Surguja	Fulkona	8.56	479	150	175	50	12	26.5	0.7	6	171	49.7	16.2	0.2	43.9	0.09	9.95
699	Surguja	Balrampur	8.24	290	60	90	26	6	19.6	1.3	0	73	14.2	13.8	0.1	29.6	0.10	4.012
700	Surguja	Darima	8.04	114	25	35	10	2.4	9.7	1	0	31	24.9	1.4	0.3	44.0	0.10	1.021
701	Surguja	Sitapur	8.01	194	65	70	22	3.6	13.2	0.8	0	79	10.7	4.3	0.3	51.7	0.11	0.532
702	Surguja	Baghima	8.35	314	120	140	32	14.4	8.3	1.4	3	140	17.8	11.9	0.2	70.0	0.09	0.258

703	Surguja	Jagannathpur	8.2	173	70	65	18	4.8	11.8	1.5	0	85	17.8	5.2	0.2	50.5	0.11	0.669
704	Surguja	Mangari	8.47	141	55	55	14	4.8	5.8	1.9	6	55	10.7	2.7	0.1	34.6	0.09	0.239
705	Surguja	Sontarai (Sitapur)	8.19	293	90	125	20	18	13.3	0.8	6	98	21.3	4.4	0.3	48.5	0.09	0.63
706	Surguja	Kanakpur	8.46	337	95	130	44	4.8	13	2.6	6	104	39.1	14.9	0.1	23.8	0.10	0.082
707	Surguja	Hanumangarh	8.11	474	130	180	48	14.4	25.3	0.8	0	159	60.4	16.7	0.1	40.6	0.10	6.378
708	Surguja	Lakhanpur	8.09	85	30	35	8	3.6	2.3	3.7	0	37	10.7	1.4	0.0	26.6	0.09	0.513
709	Surguja	Lamgaon	8.13	459	140	200	48	19.2	7.5	5.8	0	171	39.1	23.1	0.3	29.5	0.13	1.588
710	Surguja	Bandana	8.11	364	155	105	28	8.4	36.9	2.5	0	189	14.2	3.6	1.2	41.3	0.11	0.434
711	Surguja	Wadrafanagar	8.1	435	175	145	40	10.8	30.1	4.9	0	214	14.2	15.8	1.0	45.9	0.11	2.429
712	Surguja	Parasrampur	8.21	342	125	125	38	7.2	22.6	1.4	0	153	24.9	8.1	0.5	33.9	0.11	0.161
713	Surguja	Udaipur	8.17	78	20	30	6	3.6	2.3	3.8	0	24	14.2	1.4	0.0	26.0	0.09	0.473
714	Surguja	Janardanpur(OW)	8.26	281	110	120	40	4.8	8.5	0.9	0	134	24.9	2.0	0.0	37.0	0.10	0.649
715	Surguja	Songara	8.2	83	35	40	12	2.4	2	2.3	0	43	7.1	3.2	0.1	22.5	0.12	9.1
716	Surguja	Kaliyanpur	8.24	170	75	70	16	7.2	12.2	1.5	0	92	10.7	4.7	0.2	49.2	0.11	1.021
717	Surguja	Chatakpur	8.19	172	75	55	18	2.4	16.8	1.6	0	92	14.2	3.1	0.7	67.6	0.10	1.49
718	Surguja	Bhadar	8.32	221	75	100	22	10.8	5.9	1.1	3	85	17.8	6.6	0.1	36.5	0.11	2.194
719	Surguja	Makanpur	8.16	208	55	70	18	6	14.5	0.6	0	67	24.9	2.3	0.1	45.3	0.12	0.337
720	Surguja	Ganeshpur	8.48	467	150	175	46	14.4	26.1	0.8	6	171	53.3	16.0	0.2	39.7	0.12	7.414
721	Surguja	Pratappur	8.18	253	60	90	28	4.8	13	1	0	73	28.4	7.5	0.1	37.0	0.14	1.158
722	Surguja	Karji	8.43	229	95	110	24	12	5.9	1.1	3	110	10.7	8.2	0.1	34.0	0.10	1.998
723	Surguja	Dandgaon	8.26	396	140	165	54	7.2	5.4	3.2	0	171	32.0	13.4	0.3	35.9	0.11	1.92
724	Surguja	Chandora	8.21	256	55	85	26	4.8	12.2	1.2	0	67	28.4	8.2	0.1	10.4	0.12	1.119
725	Surguja	Parsa	8.28	360	130	145	44	8.4	8.4	1.4	0	159	24.9	11.7	0.2	51.3	0.09	0.258
726	Surguja	Bachwar	8.11	305	90	120	32	9.6	11.1	1.1	0	110	21.3	14.2	0.1	16.5	0.09	0.18
727	Surguja	Alkadih	8.03	277	55	95	26	7.2	18.5	1.3	0	67	32.0	13.9	0.0	10.4	0.14	1.607
728	Surguja	Dandgaon (koltapara)	8.21	256	120	85	28	3.6	22.8	1	0	146	7.1	3.9	1.0	36.4	0.10	0.532
729	Surguja	Darhora	8.07	222	70	65	22	2.4	18.4	0.6	0	85	24.9	4.5	1.1	38.4	0.13	1.392
730	Surguja	Kunni	8.11	88	30	35	10	2.4	2.5	3.5	0	37	10.7	1.3	0.0	25.0	0.09	0.415
731	Surguja	Jaynagar	8.48	338	50	130	42	6	13.3	2.5	6	49	39.1	14.8	0.1	22.6	0.11	0.063

732	Surguja	Sirsi	8.11	221	70	60	20	2.4	19	0.7	0	85	17.8	5.3	1.0	57.7	0.11	1.353
733	Surguja	Amgachi	8.26	354	120	150	38	13.2	8.4	1.3	0	146	32.0	12.0	0.3	9.7	0.08	0.278
734	Surguja	Gonda	8.21	85	30	35	12	1.2	2	2.1	0	37	7.1	2.5	0.1	20.3	0.11	5.205
735	Surguja	Jhasi	8.02	221	65	65	16	6	19.1	0.7	0	79	3.6	5.3	1.7	58.0	0.12	1.392
736	Surguja	Tara	8.28	277	65	110	12	19.2	8.8	0.9	0	79	53.3	1.2	0.4	36.8	0.11	0.649
737	Surguja	Ghorghadi	8.18	306	85	125	14	21.6	11.4	1.1	0	104	42.6	14.2	0.4	50.9	0.11	0.102
738	Surguja	Bulga	8.38	390	110	175	18	31.2	5.5	3.1	3	128	60.4	13.8	0.3	33.4	0.11	0.493
739	Surguja	Ambikapur	8.29	402	105	125	38	7.2	28.5	1	0	128	56.8	16.4	0.3	32.7	0.09	0.063
740	Surguja	Ramanuj nagar	8.55	473	125	180	34	22.8	26.9	0.8	6	140	74.6	16.0	0.2	38.4	0.11	5.537
741	Surguja	Rajpurikhurd	8.59	340	115	145	14	26.4	12.2	0.4	6	128	42.6	10.3	0.3	43.6	0.10	0.317
742	Surguja	Amgaon	8.29	173	65	50	4	9.6	17.2	1.6	0	79	17.8	3.4	0.8	67.3	0.12	1.412
743	Surguja	Pratapgarh	8.12	195	70	70	10	10.8	13.8	0.8	0	85	21.3	5.3	0.4	46.5	0.11	0.317
744	Surguja	Basin	8.12	283	60	90	18	10.8	19.27	1.3	0	73	21.3	13.3	0.1	27.0	0.09	2.116
745	Surguja	Khsmi	8.29	234	85	110	10	20.4	6.1	1.1	0	104	32.0	6.0	0.1	35.3	0.10	1.862
746	Surguja	Premnagar	8.29	278	80	115	12	20.4	9	0.9	0	98	39.1	1.9	0.1	36.1	0.09	0.61
747	Surguja	Dandgaon	8.27	202	90	75	18	7.2	10.2	1.1	0	110	10.7	1.9	0.1	43.8	0.11	0.513
748	Surguja	Biharpur	8.31	222	40	85	28	3.6	10.5	1.9	3	43	17.8	34.4	0.2	10.8	0.09	0.141
749	Surguja	Majeera	8.2	274	125	85	20	8.4	20	2.6	0	153	7.1	3.9	0.3	22.2	0.11	0.063
750	Surguja	Mahewa	8.24	399	160	115	32	8.4	30	4.7	0	195	14.2	16.6	0.9	44.2	0.09	2.389
751	Surguja	Salkha(OW)	8.2	288	100	105	30	7.2	8.7	0.9	0	122	21.3	1.6	0.1	36.8	0.09	0.571
752	Surguja	Sisila	8.24	126	50	50	14	3.6	5.7	1.8	0	61	10.7	2.7	0.2	30.4	0.12	0.18
753	Surguja	Shankargarh	8.2	230	90	110	32	7.2	5.6	1.2	0	110	21.3	6.1	0.3	34.9	0.10	2.174
754	Surguja	Pasta	8.11	285	55	90	28	4.8	18.4	1.3	0	67	39.1	14.4	0.1	25.9	0.09	1.979
755	Surguja	Surajpur	8.2	261	130	90	24	7.2	19.3	2.5	0	159	10.7	2.6	0.4	22.2	0.11	0.063
756	Surguja	Belkota	8.12	123	50	60	14	6	5.6	1	0	61	14.2	3.3	0.2	30.1	0.11	0.2
757	Surguja	Udaipur Dhah	7.99	396	115	125	38	7.2	26.9	0.9	0	140	42.6	18.2	0.3	30.9	0.14	0.063
758	Surguja	Lundra	8.43	453	140	190	46	18	7.6	5.3	3	165	39.1	25.2	0.3	27.6	0.09	1.568
759	Surguja	Deonagar	8.46	297	135	85	28	3.6	32.9	1.7	6	153	17.8	12.3	0.5	24.0	0.09	1.842
760	Surguja	Dhaurpur	8.41	451	155	200	52	16.8	7.7	5.8	3	183	39.1	23.6	0.3	30.4	0.11	1.529

761	Surguja	Reonti	8.14	411	190	145	46	7.2	29.5	4.3	0	232	14.2	16.7	0.9	44.3	0.12	2.174
762	Surguja	Kamleswarpur	8.29	213	95	95	28	6	9.6	1	0	116	17.8	1.9	0.1	41.8	0.11	0.473
763	Surguja	Gangapur	8.05	68	20	25	6	2.4	3.6	2.2	0	24	7.1	5.3	0.0	26.7	0.10	0.043