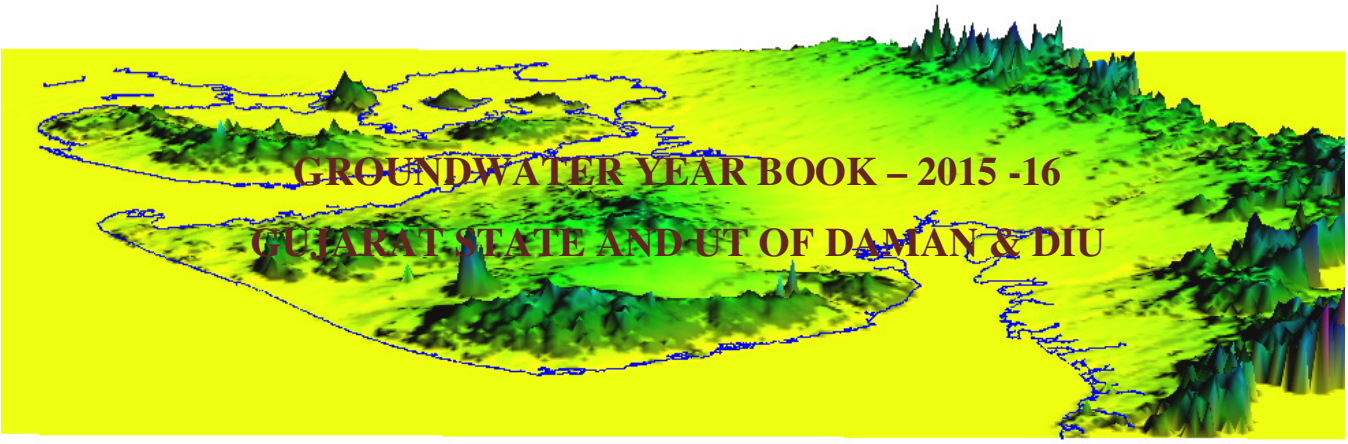
CENTRAL GROUND WATER BOARD

MINISTRY OF WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENEATION

GOVERNMENT OF INDIA



REGIONAL OFFICE DATA CENTRE
CENTRAL GROUND WATER BOARD
WEST CENTRAL REGION
AHMEDABAD

December - 2016

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GROUNDWATER YEAR BOOK – 2015 -16

GUJARAT STATE AND UT OF DAMAN & DIU

Compiled by

H N Tiwari Scientist D

REGIONAL OFFICE DATA CENTRE
CENTRAL GROUND WATER BOARD
WEST CENTRAL REGION
AHMEDABAD

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FOREWORD

Central Ground Water Board, West Central Region, has been issuing Ground Water Year Book annually for Gujarat and UT of Daman & Diu by compiling the hydrogeological, hydrochemical and groundwater level data collected from the Groundwater Monitoring Wells established by the Board in Gujarat State and UT of Daman & Diu. Monitoring of groundwater level and chemical quality furnish valuable information on the ground water regime characteristics of the different hydrogeological units moreover, analysis of these valuable data collected from existing observation wells during May, August, November and January in each ground water year (June to May) indicate the pattern of ground water movement, changes in recharge-discharge relationship, behavior of water level and qualitative & quantitative changes of ground water regime in time and space. It also helps in identifying and delineating areas prone to decline of water table and piezometric surface due to large scale withdrawal of ground water for industrial, agricultural and urban water supply requirement. Further water logging prone areas can also be identified with historical water level data analysis. This year book contains the data and analysis of ground water regime monitoring for the year 2015-16.

The behavior of groundwater levels as analyzed from the existing Groundwater Monitoring Wells data and the chemical quality of groundwater is discussed in details in this report along with the thematic maps depicting the ground water scenario for different periods of measurements. The depth to water level, water level fluctuations, water table and water quality maps have been prepared and presented in this report along with detailed discussion on each map.

The scientific officers of the Regional office have systematically collected field data from the Groundwater Monitoring Network Wells four times during the viz., May, August, November and January and the analysis of same has been presented in this report along with changes in different seasons and long term changes in water level. The water samples were collected during May 2015 were analysed in the Regional Chemical Laboratory of West Central Region Ahmedabad to bring out chemical characteristic of groundwater. As a special drive to monitor presence of arsenic in ground water, the concentration of arsenic has been measured and produced in the report.

I hope the report would be extermly useful to various agencies engaged in groundwater development and management for fruitful planning in time and space.

(Anoop Nagar)
Regional Director

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GROUNDWATER YEAR BOOK, (2015-16)
GUJARAT AND UT OF DAMAN & DIU

EXECUTIVE SUMMARY

- Central Ground Water Board has set up a network of 1236 Groundwater Monitoring Wells including 394 piezometers. Initially the monitoring commenced with the establishment of 82 observation wells spread uniformly over the entire state, in the year 1969 and since then number of stations were added regularly so as to get proper hydrological information of different hydrogeological and geo-morphological units.

- The density of groundwater monitoring wells is 161 Sq Km/well in Gujarat, whereas in UT of Daman & Diu, it is approximately 8 Sq. Km. per well.

- The average decadal rainfall varies from about 2338 mm in Valsad to about 469 mm in Kachchh.

- Gujarat is one of the frequent drought prone states of India. Several consecutive droughts have been experienced during last 20 years, 1986-88 was the longest and the most severe drought period experienced in the past.

- The average rainfall for 2015 is 712 mm, which is 30 percent less than the decadal average.

- Groundwater levels are being monitored four times in a year, and representative water samples for quality (inorganic constituents) are collected during pre-monsoon (May) period. This years monitoring water samples are also collected for Arsenic.

- 65% of the wells have depth to water levels in the range of 5 to 20 mbgl (meter below ground level) during pre-monsoon 2015. The water levels were deeper in Banaskantha, Gandhinagar and Sabarkantha districts.

- Deeper water levels were observed mainly in the over exploited and Critical talukas.

- The shallow water levels of less than 5 mbgl were observed along the coast, Rann of Kachchh and in parts of The Dangs, Surat and Bharuch districts.

- The water table rests in different parts of the state between 21.6 mbmsl (meter below mean sea level) and more than 626.9 mamsl (meter above mean sea level)during pre monsoon period. The ground water flow direction of ground water is towards south west in north and south Gujarat, west from central portion in Kachchh & Saurashtra.

- The long term ground water scenario indicates that the rise and fall is more or less equa in water levels during pre monsoon 2015, whereas fall of water level is recorded in 65% of wells during post monsoon.

- Deep confined aquifers exist in north Gujarat and they are grouped into, first confined aquifer ranging in depth from 78 to 162 mbgl and second confined aquifer ranging in depth from 154 to 274 mbgl.

- In parts of Mahesana and Gandhinagar districts, depth to piezometric surface during pre monsoon is more than 54 mbmsl in the first confined aquifer and it is more than 63 mbmsl in second confined aquifer noticed in and around Mahesana, Gandhinagar, Ahmedabad and Patan districts.

- The water levels are declining at an average rate of 2m per year in deeper aquifers in north Gujarat. Steep declines have been observed during the last five years.

- In general ground water quality is good in hard rock areas occupying eastern hilly part of the state, central part of Kachchh and Saurashtra plateau. In soft rock and unconsolidated formations ground water quality is variable.

- The quality of ground water deteriorates in discharge area. Quality of ground water is inferior along the coast, the Rann and in the low-lying saline tract between Saurashtra and main land Gujarat.

- The deterioration in ground water quality in the coastal areas is mainly due to over drawals causing seawater ingress which needs to be arrested.

- In Mahi Right Bank Canal and Ukai – Kakrapar canal command areas, water logging has surfaced and needs to be addressed suitably by adopting appropriate conjunctive use strategies.

- Alarming declines in groundwater levels of Central Gujarat plains and in select areas of Saurashtra and Kachchh warrant immediate attention for taking-up of recharge schemes to arrest further declines and augment the groundwater resources. The artificial recharge of groundwater especially in North Gujarat, Kachchh and in major part of Saurashtra is a necessity.

- Pointed attention of the administrators and policy makers is drawn towards adoption of artificial recharge, public awareness and other appropriate measures for ensuring adequate groundwater availability and sustainability.

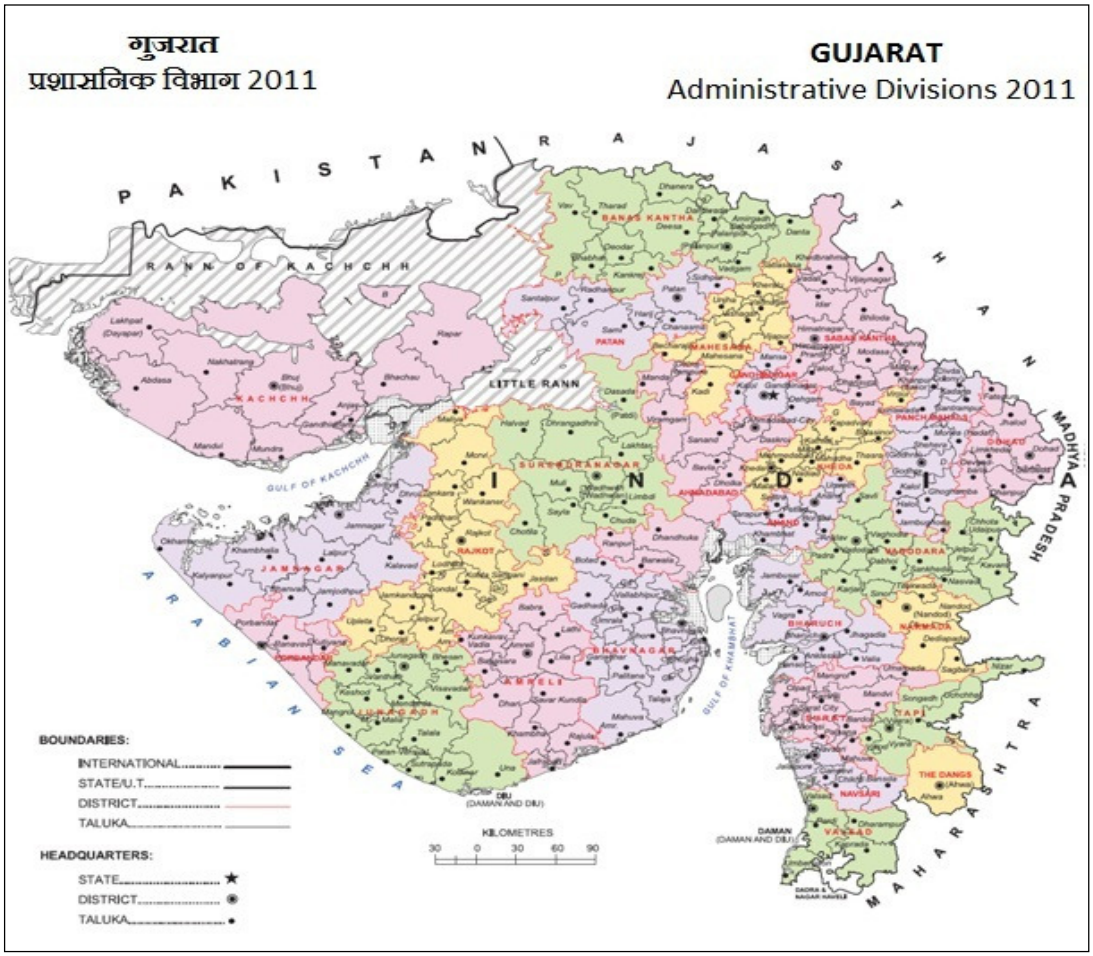
GROUNDWATER YEAR BOOK, 2015-16, GUJARAT STATE AND UT OF DAMAN & DIU

1.0 INTRODUCTION

The West Central Region of Central Ground Water Board has jurisdiction over the State of Gujarat (1,96,024 Sq. Km.) and Union Territory (UT) of Daman & Diu (112 Sq. Km.) covering an area of 1,96,136 sq km. The Gujarat State is situated between North latitudes 20° 06' 00" to 24° 42' 00" and East longitudes 68° 10' 00" to 74° 28' 00" (**Fig. 1**). Gujarat has nearly 1600 km long coastline, which is the longest as compared to any other state in the country. It is extending from Lakhpat in north to Daman in south. The State has common boundaries with the states of Rajasthan, Madhya Pradesh and Maharashtra and shares international border with Pakistan in northwest. UT of Daman & Diu has an area of 106 sq. km. Diu is an Island just south of Saurashtra coast and Daman is situated west of Vapi in the south.

There are 18,225 villages and 348 towns in Gujarat including 16 towns with more than 1,00,000 population. The total population is 60,383,628 of which 31,482,282 are males and 28,901,349 are females (2011 census). Out of the total population, the population of the Scheduled Caste is 4,074,447 and that of the Scheduled tribe is 8,917,174. The total population of U.T. of Daman & Diu is 243,247 of which 150,301 are males and 92,976 are females (2011 Census).

Map showing administrative divisions of Gujarat State Figure : 1

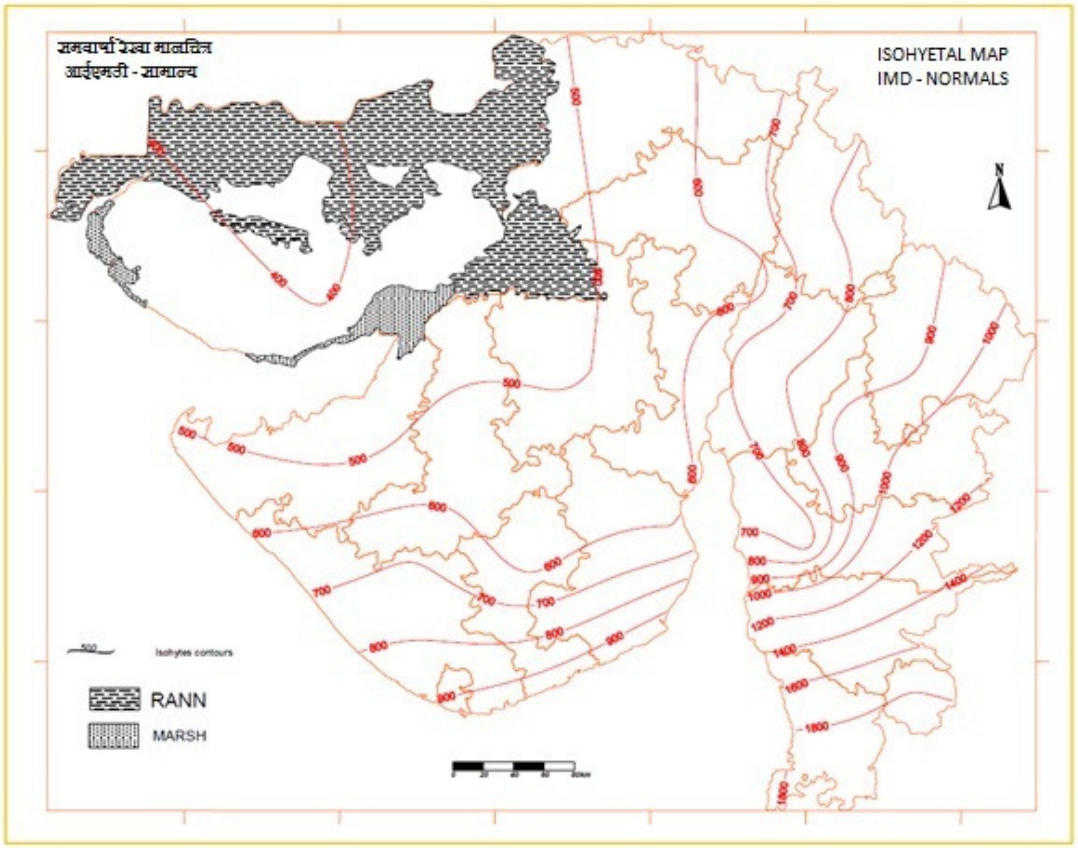


The tribal areas are located all along the interstate boundary, extending from Banaskantha district in the north to The Dangs district in the south. The tribal belt has a total geographical area of 29,560 Sq. Km. and is shown in **Fig. 1**.

The diverse physiographic, climatic, topographic and geologic conditions have given rise to diversified ground water situations in different parts of the state. Occurrence and movement of groundwater is controlled by rock formations of varied composition and structure and range in age from Archean to Recent. Similarly, the landform varies from the hilly tract to the uplands of Kachchh and Saurashtra, the alluvial plains extend from Banaskantha in the north to Valsad in the south, the low lying coastal tract surrounding the Kachchh and Saurashtra uplands and the marshy to saline tracts of the Rann of Kachchh and little Rann of Kachchh. The topography and rainfall virtually control the runoff and ground water recharge.

Droughts are frequent in north Gujarat, Saurashtra and Kachchh regions due to poor and erratic rainfall. The climate varies from humid in the south through sub-humid in the central part to semi-arid and arid in the northern and western parts. The state receives rainfall mainly during southwest monsoon period. The normal rainfall shows steep reduction from 1883 mm in the extreme south (Valsad) to 386 mm in Kachchh district. The distribution of normal rainfall in the state is depicted in **Fig. 2.**

Map showing distribution of IMD normal rainfall Figure :2



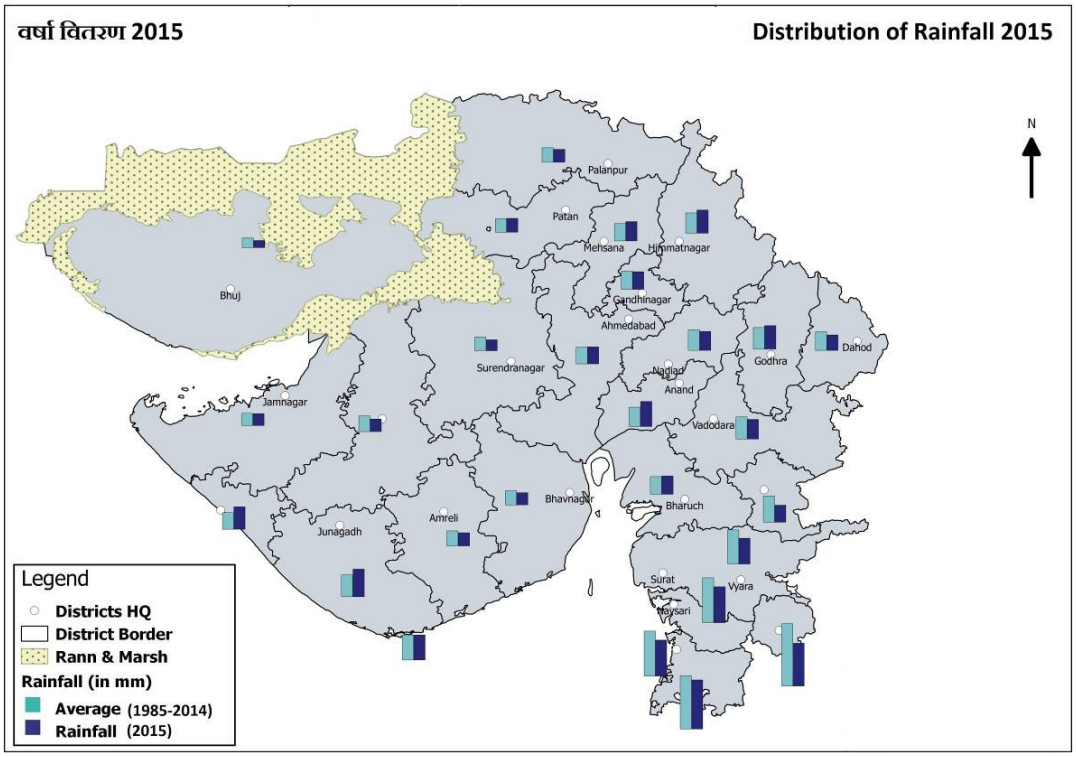
During 2015 Gujarat received 30.31 % less the average rainfall (Annexure I). Only 6 districts has received average rainfall + -20% as compared to decadal average annual rainfall (2005-2014). While thirteen districts including UT of Daman and Diu has received 20-40% less annual rainfall as compared to decadal average annual

rainfall (2005-2014). The eigth districts namely Anand, Bharuch, Kheda, Narmada, Navsari, Porbandar, Panchmals and Vadodara has received more than 40% less rainfall as compared to decadal average raianfall. Annual rainfall during 2015, Average decadal annual rainfall (2005-2014) and its departure from average decadal annual rainfall in the state and ut of Daman & Diu is presented in **Table 1** and map representing distribution of rainfall district wise in bars is presented as **Fig. 3**.

Table – 1:District wise Average Annual Rainfall in the Gujarat state and U T of Daman & Diu

District	Average annual rainfall 2015 (in mm)	Average annual Rainfall in mm (2005 to 2014)	Departure % (Year 2015)
Ahmedabad	458	733	-37.48
Amreli	780	758	2.84
Anand	470	908	-48.21
Banaskantha	929	683	35.96
Bharuch	496	936	-47.02
Bhavnagar	504	662	-23.88
Dahod	446	738	-39.55
Gandhinagar	641	820	-21.84
Jamnagar	455	718	-36.63
Junagadh	677	1018	-33.49
Kheda	436	836	-47.83
Kutchh	531	469	13.30
Mehsana	679	761	-10.82
Narmada	596	1111	-46.36
Navsari	1134	1922	-41.01
Panchmahal	483	824	-41.42
Patan	661	647	2.12
Porbandar	389	795	-51.08
Rajkot	583	687	-15.12
Sabarkantha	813	937	-13.23
Surat	989	1427	-30.69
Surendranagar	444	570	-22.04
The Dang	1368	2055	-33.43
UT of Daman	1605	2201	-27.09
UT of Diu	720	984	-26.82
Vadodara	464	1044	-55.57
Valsad	1472	2338	-37.04
STATE	**712**	**1022**	**-30.31**

Fig:- 3 Distribution of rainfall in Gujarat state and UT of Daman & Diu



Central Ground Water Board, as a part of its national programme, has established a network of observation wells in the state of Gujarat and U.T. of Daman and Diu for periodic monitoring of groundwater levels and to study its quality variation in time and space. 1220 groundwater monitoring wells including 389 piezometers (Pz) are presently being monitored in the state of Gujarat, and 16 groundwater monitoring wells including 5 Pz are being monitored in the U.T. of Daman and Diu. The distributions of monitoring wells in different districts are given in **Table 2**.

Two distinct hydro-geological units are identified in Gujarat viz., hard rocks and soft rocks. The distributions of monitoring wells in different hydro-geological units are given in **Table 3**.

Large rivers like Narmada, Mahi, Tapi, and Sabarmati flow through the state and form their own basins. Other minor rivers have been grouped together to form river basins. In all, eight river basins have been identified by the All India Soil Survey & Land Use Department as listed below:

1. Sabarmati river basin.
2. Mahi river basin.
3. Narmada river basin.
4. Tapti river basin.
5. Luni and other drainage in the Great Rann of Kachchh
6. Draining in to Gulf of Kachchh
7. Southern Kathiawar
8. Sharavati to Tapti

The sub basins of these major river basins and the distribution of ground water monitoring wells in these different river basins are given in Annexure II a and Annexure-IIb. Map showing Hydrograph stations monitored during the year and their distribution in different basin and the district is presented as **Fig. 4**.

Figure : 4 Distribution of GWMNS in the districts and major river basins

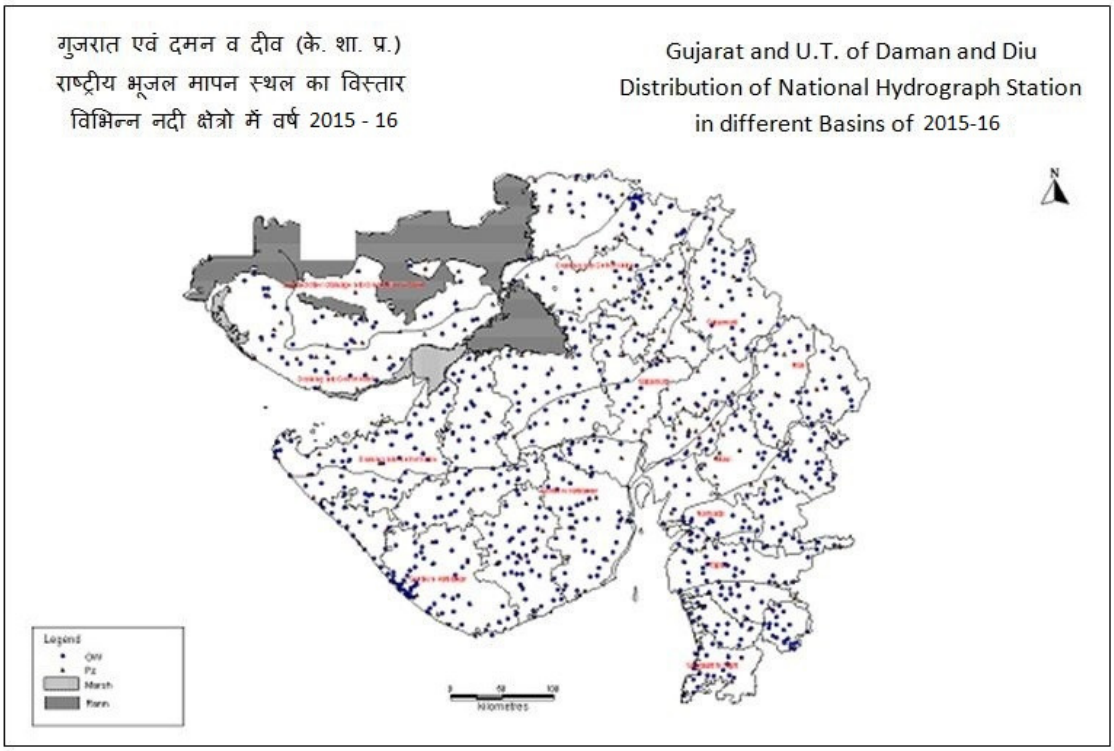


Table-2 DISTRICT WISE DISTRIBUTION OF OF GROUND WATER MONITORING WELLS MONITORED DURING 2015-16

Sl. No.	District	As on May 2015			As on rest of the field season 2015-16			Monitored During MAY- 2015			Monitored During AUGUST- 2015			Monitored During November - 2015			Monitored During January - 2016		
		DW	Pz	Total	DW	Pz	Total	DW	Pz	Total	DW	Pz	Total	DW	Pz	Total	DW	Pz	Total
1	Ahmedabad	17	54	71	17	54	71	15	30	45	17	17	34	17	27	44	18	23	41
2	Amreli	47	16	63	47	16	63	44	11	55	46	13	59	46	11	57	48	9	57
3	Anand	18	15	33	18	15	33	15	14	29	13	14	27	13	11	24	15	13	28
4	Banaskantha	20	52	72	20	51	72	14	27	41	14	27	41	14	30	44	14	32	46
5	Bharuch	36	6	42	36	6	42	35	6	41	26	3	29	32	5	37	34	5	39
6	Bhavnagar	41	12	53	41	12	53	39	6	45	42	7	49	40	6	46	39	5	44
7	Dohad	24	6	30	24	6	30	25	6	31	24	6	30	24	6	30	25	5	30
8	Gandhinagar	3	30	33	3	30	33	2	19	21	2	18	20	2	19	21	2	20	22
9	Jamnagar	50	7	57	50	7	57	46	4	50	48	5	53	49	5	54	49	5	54
10	Junagadh	59	15	74	59	15	74	52	11	63	47	11	58	56	11	67	56	11	67
11	Kachchh	50	19	69	50	19	69	46	11	57	47	11	58	43	10	53	50	10	60
12	Kheda	15	13	28	15	13	28	14	12	26	14	12	26	14	11	25	14	12	26
13	Mahesana	17	44	61	17	44	61	16	26	42	16	21	37	15	29	44	16	30	46
14	Narmada	21	6	27	21	6	27	20	6	26	17	5	22	18	5	23	17	5	22
15	Navsari	19	2	21	23	2	25	19	2	21	19	2	21	20	2	22	21	2	23
16	Panchmahals	39	9	48	39	9	48	33	8	41	31	7	38	30	8	38	34	7	41
17	Patan	15	23	38	15	23	38	9	19	28	8	11	19	10	13	23	9	14	23
18	Porbandar	30	4	34	27	4	31	30	3	33	29	3	32	29	3	32	31	3	34
19	Rajkot	52	7	59	54	7	60	44	5	49	54	6	60	54	6	60	54	6	60
20	Sabarkantha	45	12	57	45	12	57	44	12	56	43	12	55	45	11	56	42	10	52
21	Surat	57	6	63	63	6	70	45	5	50	53	5	58	53	5	58	59	5	64
22	Surendranagar	44	9	53	46	9	55	38	6	44	43	5	48	43	5	48	43	6	49
23	TheDangs	25	2	27	29	2	31	23	1	24	24	2	26	24	1	25	27	1	28
24	Vadodara	45	19	64	45	19	64	40	19	59	34	17	51	36	15	51	39	19	58
25	Valsad	20	2	22	26	2	28	16	1	17	17	2	19	16	2	18	22	1	23
State Total		**809**	**390**	**1199**	**830**	**389**	**1220**	**724**	**270**	**994**	**728**	**242**	**970**	**743**	**257**	**1000**	**778**	**259**	**1037**
UT OF DAMAN AND DIU																			
1	U.T.of Daman	8	1	9	8	1	9	8	1	9	8	1	9	8	1	9	8	1	9
2	U.T. of Diu	3	4	7	3	4	7	3	2	5	3	2	5	3	2	5	3	2	5
	UT Total	**11**	**5**	**16**	**11**	**5**	**16**	**11**	**3**	**14**	**11**	**3**	**14**	**11**	**3**	**14**	**11**	**3**	**14**
Grand Total		**820**	**395**	**1215**	**841**	**394**	**1236**	**735**	**273**	**1008**	**739**	**245**	**984**	**754**	**260**	**1014**	**789**	**262**	**1051**

Table 3:DISTRIBUTION OF GROUND WATER MONITORING WELLS IN DIFFERENT HYDROGEOLOGICAL UNITS 2015-2016

S.No	DISTRICT	Hard Rock		Soft Rock		Total		
		DW	PZ	DW	PZ	DW	PZ	Total
1	Ahmedabad	4	0	13	54	17	54	71
2	Amreli	38	12	9	4	47	16	63
3	Anand	1	0	17	15	18	15	33
4	Banaskantha	7	1	13	51	20	52	72
5	Bharuch	11	3	25	3	36	6	42
6	Bhavnagar	32	9	9	3	41	12	53
7	Dohad	24	6	0	0	24	6	30
8	Gandhinagar	0	0	3	30	3	30	33
9	Jamnagar	27	7	23	0	50	7	57
10	Junagadh	37	15	22	0	59	15	74
11	Kachchh	9	3	41	16	50	19	69
12	Kheda	3	3	12	10	15	13	28
13	Mahesana	0	0	17	44	17	44	61
14	Narmada	19	6	2	0	21	6	27
15	Navasari	12	1	11	1	23	2	25
16	Panchmahals	32	9	7	0	39	9	48
17	Patan	0	0	15	23	15	23	38
18	Porbandar	17	2	10	2	27	4	31
19	Rajkot	37	4	16	3	53	7	60
20	Sabarkantha	36	5	9	7	45	12	57
21	Surat	39	3	25	3	64	6	70
22	Surendranagar	14	1	32	8	46	9	55
23	The dangs	29	2	0	0	29	2	31
24	Vadodara	24	10	21	9	45	19	64
25	Valsad	22	2	4	0	26	2	28
	Gujarat TOTAL	**474**	**104**	**356**	**286**	**830**	**390**	**1220**
UT OF DAMAN AND DIU								
1	U.T.of Daman	8	1	0	0	8	1	9
2	U.T. of Diu	0	0	3	4	3	4	7
U.T. Total		**8**	**1**	**3**	**4**	**11**	**5**	**16**
Grand Total		**482**	**105**	**359**	**290**	**841**	**395**	**1236**

2.0 HYDROGEOLOGY

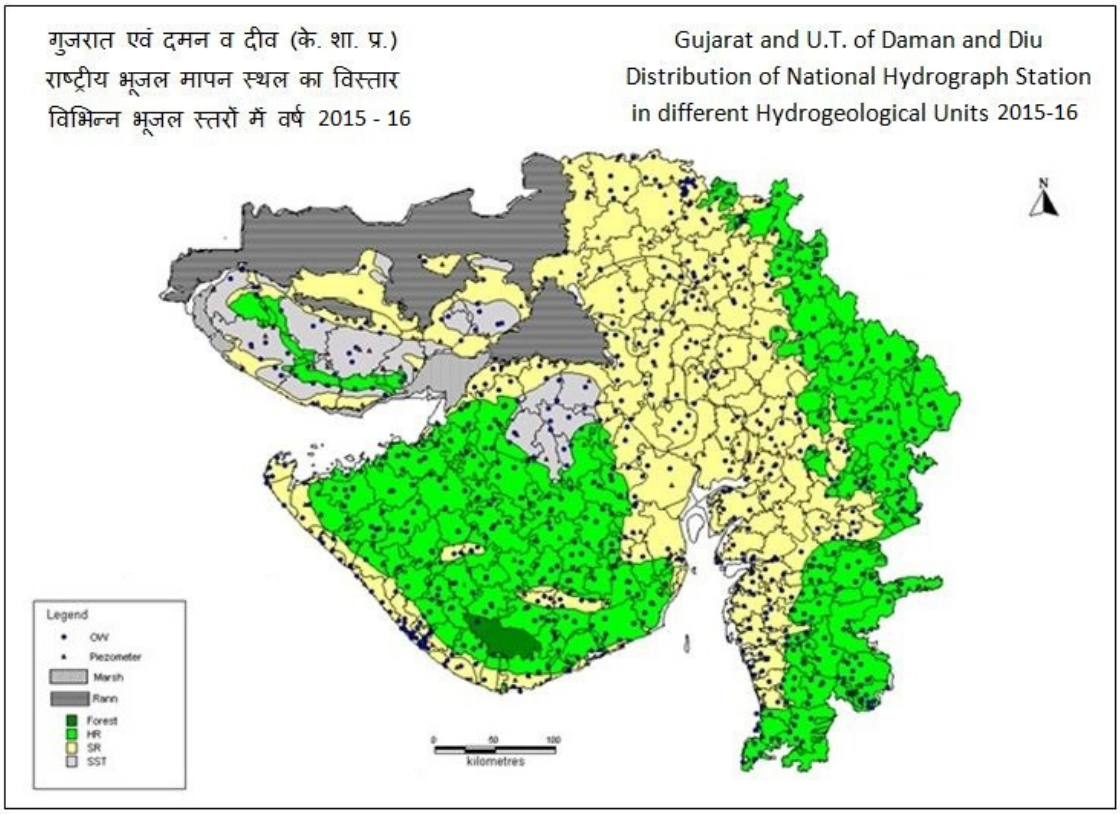
The high relief areas in the eastern and north-eastern parts of the state occupied by the Deccan Traps and the Archeans respectively have steep topographic gradients resulting in high run-off, and therefore, provide little scope for groundwater recharge. The groundwater potential in this terrain is limited. The large alluvial tract extending from Banaskantha district in the north to Surat and Valsad districts in the south constitutes the largest and most potential groundwater reservoir in the state. The aquifers are extensive, thick, hydraulically connected and are moderate to high yielding. To the west of this alluvial tract, especially around the discharge areas, characteristic artesian free flow conditions are observed. Almost the entire Saurashtra and Kachchh regions are occupied by a variety of hard and fissured formations which include basalt and consolidated sedimentary formations with semi-

consolidated sediments along the low-lying coastal areas. The compact and fissured nature of rocks gives rise to discontinuous aquifers with moderate yield potential. The friable semi-consolidated sandstone forms an aquifer with moderate yield potential. The coastal and deltaic areas in the state form a narrow linear strip and are underlain by Tertiary sediments and Alluvium. Though highly potential aquifers occur in these areas, salinity is a constraint for groundwater development. Groundwater withdrawal requires to be strictly regulated so that it does not exceed the annual recharge and also that it does not disturb the hydro-chemical balance leading to seawater ingress. The quality of groundwater in both hard rock and alluvial terrain is, by and large suitable except, in the coastal areas, estuarine tract and the Rann where the degree of mineralisation in ground water is rather high and salinity is common. Salinity in groundwater is also noticed in the arid and semi-arid tract. The different conditions of groundwater occurrence in the state have led to divergent groundwater situations in the areas occupied by different geological formations (**Fig. 5**). The formation-wise hydrogeological characteristics in the state of Gujarat has been broadly summarised in the **Table 4.**

Table 4. Distribution of hydrogeological formations in Gujarat and their Potential

Age	Rock Formation	Distribution	Hydrogeological Characteristics
Porous Formation			
Quaternary to upper Tertiary	Impure limestones, limestones, sandstones, conglomerates, pebble beds, silt stones, sands, pebbles, gravels etc.	Ahmedabad, Amreli, Banaskantha, Bhavnagar, Bharuch, Kachchh, Kheda, Jamnagar, Junagadh, Rajkot, Mahesana, Surendranagar and Valsad Districts	Unconfined shallow aquifer, leaky confined/ confined and deeper aquifer. Large to moderate yield prospects:10 to 40 lps, Storativity: 1.6x10E-4 to 7.3x 10E-4, Hydraulic Conductivity: 5 to 20m/day, Transmissivity: 50 to 2000m2/day
Mesozoic	Sandstones, Shales, Limestones and Grits	Kachchh, Surendranagar, Sabarkantha and Vadodara districts	Discontinuous aquifers with limited thickness of 50 to 300 meters. Limited yield prospects <15 lps, Hydraulic Conductivity: 2 to 10m/day, Transmissivity: 50 to 1000m2/day
Fissured formation			
Mesozoic to Palaeozoic	Basalt with intertrappean clays	Uplands of saurashtra, Kachchh Region, scattered patches in Panchmahals, Sabarkantha and Vadodara districts, Continuous belt in eastern part of Bharuch, Surat and Valsad districts	Ground water occurrence restricted to weathered and fractured zones, limited to 200m, moderate yield prospects: 5 to 15 lps
Archaean and Pre-Cambrian	Granites, Gneiss, Marbles, Schists, Phyllites and Slates	Banaskantha, Sabarkantha, Panchmahals, vadodara and Kheda districts.	Ground water occurrence restricted to weathered and fractured zones having secondary porosity, limited yield prospects of 2 to 5 lps.

Figure: 5 Map showing major hydrogeological units and distribution of Ground Water Monitoring Network Stations.



2.1 Achaean and Proterozoic Formation

Rocks of Archaean and Proterozoic age occupy the north-eastern and eastern parts of the state and cover extensive areas in parts of Vadodara, Kheda, Panchmahals, Sabarkantha, Mahesana and Banaskantha districts. These rocks, which include gneiss, schist, phyllite, quartzite and metamorphosed igneous intrusives do not form good aquifers due to their poor porosity and permeability. Dug wells, dug-cum-bore wells and bore wells are feasible only in favourable sites where sufficient weathered mantle and/or fractures and joints occur. The wells tapping these aquifers have maximum depth of 30 to 40 mbgl beyond which groundwater occurrence is not common. The yield of wells in these rocks varies from a few cubic meters to 100 cubic meters per day at minimal drawdown.

2.2 Mesozoic Formation

Jurassic and Cretaceous formations include Pachchham, Chari, Katrol and Bhuj Series in Kachchh, Dhrangadhra and Wadhwan sandstones in northeastern part of Saurashtra, Bagh beds along the Narmada River and Himmatnagar sandstones in Sabarkantha district. Pachchham and Chari Series are predominantly calcareous while Wadhwan sandstones and Bagh beds include some limestone. The rest are arenaceous and consist of inter-bedded sandstone and shale sequences. The most important and productive aquifer among these formations occurs in the Bhuj Series consisting of predominantly friable, soft, medium to coarse grained sandstone occurring at depths of few meters to as much as 300 meters. Tube wells constructed up to 200 mbgl in this formation yield 70 to 170 m^3/hour for drawdown

of about 10m. The salinity distribution in groundwater in Upper Bhuj aquifers is generally uniform with low concentration of dissolved solids in the upland and non-irrigated areas. Salinity gradually increases towards area of intensive irrigation and discharge area.

The Dhrangadhra sandstones comprise of about 400 m thick, fine to coarse grained sandstones inter-bedded occasionally with carbonaceous shale. Tubewells tapping about 100 m of aquifer thickness in this formation within a depth of 212 mbgl yield limited to moderate discharge of the order of 14 to 80 m^3/hour. Basic sills of 30 to 50 m thickness are found intruded in the Lower Dhrangadhra formation in the northern part of Surendranagar and Rajkot districts at Gala, Sathapur and Chuli villages. Normally, the sills mark the lower limit of fresh groundwater occurrence. In the northern part of Rajkot district and eastern part of Jamnagar districts, these sandstones have been encountered at depths of 200 – 250 mbgl below Traps, in semi- confined conditions.

The Himmatnagar sandstones are exposed in a narrow belt between Eklara and Ranasan villages in Sabarkantha district. They also occur below the traps near Dhansura (23° 24': 75° 15') at depths of 60 to 100 mbgl. Patches of these sandstones occur under the alluvial cover near Sanseli (22° 42'; 75° 25'), Madhwas (23° 24'; 73° 27') and Gugalpur (22° 15': 73° 28') and on the northern bank of Goma River. Although these sandstones are generally fine grained, hard and compact, coarse friable sandstones are observed at places near Kapadvanj. These sandstones, when saturated to moderate depths, form potential aquifers. Tubewells tapping these aquifers yield up to 50 m^3/hour.

2.3 Deccan Trap

These are essentially basaltic lava flows with a general horizontal to near horizontal disposition over a very wide area. From groundwater potential point of view, these rocks constitute moderately promising aquifers. The jointed and fractured basalts hold and transmit water in moderate quantities. The thickness of traps ranges from 100 to 150 m in Kachchh to more than 1000 m in Cambay basin.

The yields in dug wells tapping the basalts vary from insignificant quantities to 30 m^3/day. Higher yields have been observed at hydrogeologically favourable locations. The yield of the dug wells can be enhanced considerably by lateral and/or vertical borings. The discharge of tube wells is reported to decline at places due to presence of unsaturated porous zones at depth. The quality of groundwater in traps is generally potable.

2.4 Tertiary Formation

These rocks are exposed between Narmada and Tapi rivers in parts of Bharuch and Surat districts. They also occur in the coastal tracts of Saurashtra and Kachchh.

Gaj beds belonging to Miocene occur all along the Saurashtra coast. These consist of limestone, clay and grit mostly gypsiferous with thin sand layers. Drilling at Okha (22°28': 69°16') and Veraval (20°54': 70°25') has shown that locally, the Gaj beds extend beyond 300 m depth and the deeper zones yield meagre quantities of saline groundwater.

The quality of groundwater in Gaj beds along Saurashtra coast is slightly inferior on account of intercalated clay bands and inherent salinity of Gaj beds, which were deposited under marine conditions. However, the quality of ground water in the upper Gaj limestone is better. The chloride content in groundwater ranges from 100 to 200 mg/l between Veraval, Sil (21° 11': 70° 03') and around Porbandar.

Dwarka beds, comprising of gypsiferous and calcareous red colour clays and sandy limestone are about 150 m thick. Groundwater in the Dwarka beds is of poor quality with chloride content ranging from 500 to 700 mg/l. Yield of dug wells are of the order of 37 m^3/day and tube wells yield about 22 m^3/day for a drawdown of about 4 m. In the Kachchh region, the sandstones of Manchhar series form good aquifers. Tubewells, ranging in depth from 116 to 169 mbgl, yield between 68 to 136 m^3/hour and the chloride content ranges between 96 and 612 mg/l. However, the Tertiary rocks, in general, do not form promising aquifers for groundwater development because of the inferior quality of groundwater. In southern Gujarat (Narmada-Tapti area), the tertiary rocks comprises of sandstone, shale and limestone intercalated with gravel which locally exceed 100 m in thickness. Ground water in these rocks is mostly brackish to saline and yields are in shallow tube wells.

2.5 Quaternary Formation

The Quaternary formations include milliolite limestone, alluvium and aeolian deposits. The milliolite limestone is of limited thickness and its occurrence is confined to the coastal tract of Saurashtra. The alluvial and aeolian deposits extend as one continuous plain, from north to south and also as valley-fills in the hard rock terrain.

Highly cavernous milliolite limestone is locally a very productive aquifer. Dug wells tapping these limestones are capable of yielding up to 200 m^3/day. These are the repositories of potable groundwater in an otherwise saline coastal belt of Saurashtra. Quaternary sediments occupy an area of about 86,680 sq km. Their thickness in the Cambay Basin is estimated to be of the order of 500 m. However, towards north in the districts of Mahesana Banaskantha and Sabarkantha, the thickness reduces to less than 50 m near the hilly tract. In general, the thickness of the alluvium in north Gujarat ranges from 40 to 500 m. In the southern Gujarat plains, the alluvium mostly overlies the basalts and the tertiary sediments. Its thickness ranges from a few meters near the rock outcrops to over 75 m in the lower reaches. The Quaternary sediments vary in character and composition. In the Cambay basin, these are predominantly composed of clay, silt and sand with “kankar”. The proportion of gravels, pebbles and boulders, etc., increases towards the hilly tracts. Such areas, forming the piedmont terrain, extend for 10 to 20 km from the hills into the plains.

A number of abandoned river channels and valley fills occur in the rocky areas. These are of great significance for the development of ground water in an otherwise less promising terrain.

Groundwater in the alluvium occurs under unconfined conditions at shallow depths. In deeper horizons, it occurs under semi-confined to confined and artesian conditions. Detailed study in Mahesana, Banaskantha, Rajkot, Surendranagar, Kheda, Sabarkantha, Kachchh and Ahmedabad districts has revealed that multiple aquifers exist in major part of the alluvial plains of Gujarat up to a depth of 500 m.

These aquifers have their areas of recharge in the piedmont terrain and the hilly areas towards the east and northeast. Most of the aquifers coalesce into one phreatic aquifer in the recharge area but are identified as separate aquifers occurring under artesian conditions in the central part of the basin and in the discharge areas towards west and southwest. In parts of Mahesana and Banaskantha districts, the quaternary sediments is up to 600 m thick, comprising of 10 to 125 m thick younger alluvial deposits (Pleistocene to Recent) and 100 to 475 m thick older alluvial deposits (Pliocene to Pleistocene). The entire alluvial

sequence has been divided into five major aquifers viz., A (up to 125m) or phreatic aquifer and B, C, D and E (between 125 and 600 m depth) or confined aquifers.

Due to over-exploitation, the water levels in the phreatic aquifer have declined alarmingly rendering them almost dry. Presently, first and second confined aquifers are the most exploited. The decline of water level in these aquifers is more than 40 m since 1961at most of the area. The yield of tube wells tapping users confined aquifer vary from 20 to 40 lps.

3.0 GROUND WATER SCENARIO

Systematic and regular monitoring of groundwater levels brings out the changes taking place in the groundwater regime. The maps so generated are of immense help for regional groundwater flow modelling which serves as a groundwater management tool to provide the necessary advance information to the user agencies to prepare contingency plans in case of unfavourable groundwater recharge situation. The data also has immense utility in deciding the legal issues arising out of conflicting interests of groundwater users.

The monitoring of ground water levels has been carried out at groundwater monitoring wells four times in a year simultaneously throughout the State during the following periods.

a) May - 20th to 30th (water level of pre-monsoon period).
b) August - 20th to 30th (peak monsoon water level).
c) November - 1st to 10th (water levels of post-monsoon period).
d) January - 1st to 10th (the recession stage of water level).

Water level data of the ground water monitoring wells collected during the year 2015 – 2016 has been utilized to prepare various maps showing depth to water level and fluctuation of water level.Depth to water level maps are useful in dealing with problems of water logging and artificial recharge, where the relative position of water level with reference to the ground surface is of critical importance. Water level fluctuation maps (rise or fall) are indispensable for estimation of change in storage in the aquifer.

For the purpose of presentation, Gujarat state has been divided into three regions, namely, (a) the Kachchh region comprising Kachchh district, (b) the Saurashtra region comprising Amreli, Bhavnagar, Junagadh, Jamnagar, Porbander Rajkot and Surendranagar districts, and (c) the mainland Gujarat. The mainland Gujarat has been further subdivided into two regions, namely, North Gujarat comprising , Ahmedabad, Anand, Dahod, Banaskantha, Gandhinagar, Kheda, Mahesana, Panchmahals, Patan and Sabarkantha districts, and South Gujarat comprising Bharuch, Narmda, Navsari, Surat, The Dangs Vadodara and Valsad districts. The Union Territory of Daman & Diu has been described separately. The water level data of these open wells and piezometers are presented in the Annexure III-a and III-b.

The data is analysed for each set of measurement, and report prepared which include following maps to understand the groundwater regime in the state.

1. Depth to water level

2. Seasonal fluctuation - water level fluctuation in comparison to pre-monsoon.
3. Annul fluctuation - water level fluctuation in comparison to same month in the previous year.
4. Decadal fluctuation - water level fluctuation in the month of measurement with reference to the decadal average for the same month.

3.1 Depth to Water Level (Unconfined Aquifer)

A graphical analysis was done to understand the water level behaviours of the ground water monitoring wells in the different categories of the water levels during every monitoring period and the same is depicted in **Fig. 6 (a,b,c,d)**.

Fig 6 a

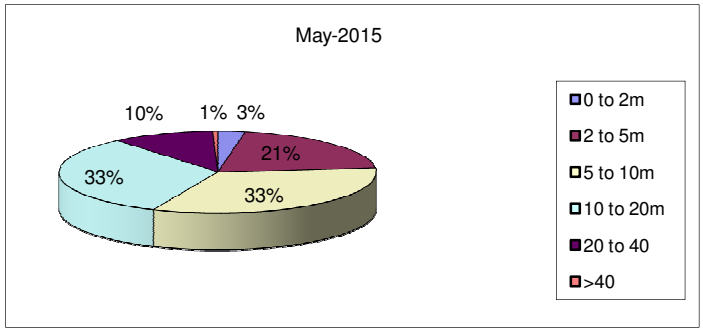


Fig 6 b

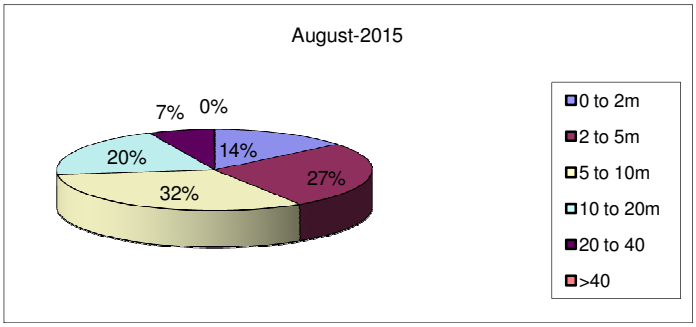


Fig 6 c

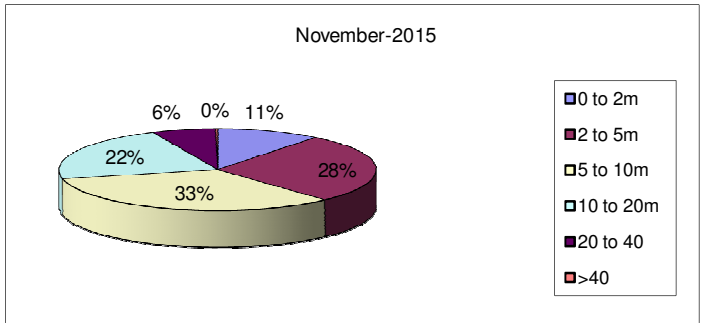
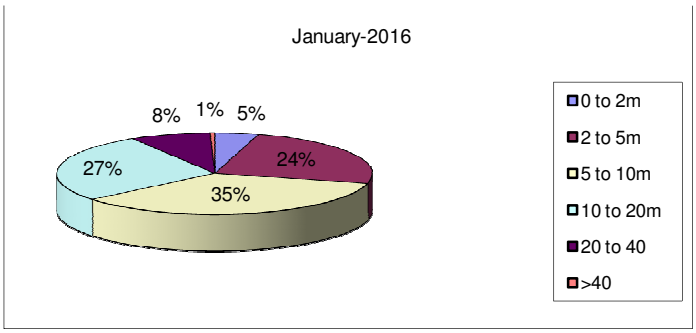


Fig 6 d



3.1.1 Depth to Water Level May 2015

In the pursuance of Fig no. 7 reveals that 75% of the area (table- 5) of the state falls in the water levels ranges 5 - 20m bgl. Water levels of 20 to 40 mbgl are observed in 12% area of the state and ut of Daman & Diu. Deeper water level more than 40m bgl are observed in parts of Banaskantha and adjoining area of Gandhinagar and Sabarkantha districts. The shallowest water level recoreded is 0.24 m bgl at Haboi village in Kachchh district. The deepest water level recorded is 61.30 m bgl at Deesa in Banaskantha district.

In North Gujarat, about 65% of the area falls in the water level range of 5 - 20 m bgl. Shallow water levels (lesser than 5 mbgl) are observed in the area near the Gulf of Cambay and the area along the little Rann of Kachchh. Deeper water levels ranges 20 to 40 mbgl are experienced in major part Banaskantha, Mahesana districts and adjoining area of Ahmedabad, Kheda and Sabarkantha districts. The deepest water level of 61.30 mbgl is recorded at Deesa in Banaskantha district, whereas shallowest water level of 0.84 mbgl has been recorded at Ghuma village in Ahmedabad district.

In South Gujarat, more than 75% of the area has recorded water level between 5- 20 mbgl. Deeper water levels of more than 20 m bgl is mainly observed in parts of Vadodara district and adjoining areas of Narmada district. The deepest water level of 29m bgl is recorded at Sundarpura in Narmada district whereas the shallowest water level of 0.96 mbgl has been recorded at Raymal in Bharuch district.

In Saurashtra region, about 82% of the area shows water levels 5 - 20 mbgl. Water levels of 20 to 40 m are found as isolated patches scattered all over the region. The shallowest water level, 0.70 mbgl, has been recorded at Ghanshyam Gadh village in Surendranagar district and the deepest water level of 39.21 mbgl recorded at Kerala in Amreli district.

In Kachchh region, more than 70 % of the area, the water level is between 5 - 20 mbgl. Western part of the area shows water level rages 2 to 5 m bgl. The water level more than 20 m occur as isolated patches scattered in the central and eastern part of the Kachchh district. The deepest water level of 30.10 mbgl is recorded at Gagodar and the shallowest water level of 03.24 mbgl has been recorded at Haboi.

The depth to water level is in the range of 3.40 to 10.15 mbgl in Daman and 4.13 mbgl in Diu.

3.1.2 Depth to Water Level August 2015

The depth to water level of unconfined aquifer range from near ground level to 42.40 mbgl (Derol in Sabarkantha district) during August 2015 (**Fig 8)**. Details of depth to water level in different range, from 0-2 m, 2 to 5 m, 5 to 10 m, 10 to 20m, 20 to 40 m and more than 40 mbgl is presented in table – 6. The perusal of the depth to water level reveals that 41% of the area of the state falls in the water level ranges 0 to 5 mbgl whereas 5 to 20 mbgl water level are observed in 52% of the area in Gujarat state and UT of Daman & Diu. Water levels of 20 to 40 mbgl are observed in Anand, Mahesana, Banaskantha, Sabarkantha, Kachchh, Amreli, Gandhinagar, Bhavnagar, Navsari, Narmada, Patan, Kheda and Vadodara districts in isolated patches. Deeper water levels more than 40m bgl are observed in northern part of Gandhinagar as isolated patch. The shallowest water level, near to ground level has been recorded at Pipli of Surendranagar district.

In North Gujarat, about 93% of the area falls within the water level of 20 mbgl. Shallow water levels (lesser than 5 m bgl) are observed in the area near the Gulf of Cambay and the area along the little Rann of Kachchh and in eastern part of north Gujarat region such as in Panchmahals, Dohad and Sabarkantha district. Deeper water levels ranges from 20 to 40 mbgl in major part of Banaskantha, adjoining area of Ahmedabad, Kheda and Gandhinagar and as isolated patches in Mahesana and Sabarkantha districts. The deepest water level of 42.40 m bgl is recorded at Dhrol in Sabarkantha district whereas The shallowest water level, near to ground level 0.5m bgl has been recorded at Radhanpur in Patan district.

In South Gujarat, more than 98% of the area has recorded water level below 20 mbgl of which 57% alone has the water level in the range of 0 – 5 mbgl. Deeper water levels of 20 – 40 mbgl are mainly observed as isolated patch in parts of Vadodara district. The deepest water level of 25.73 m bgl is recorded at Handod in Vadodara district whereas the shallowest water level of 0.10 magl at Chavshala in Valsad district.

In Saurashtra region, about 90% of the area shows water levels in less than 20 m bgl and water levels of 20 to 40 m are found as isolated patch in all districts of the region. The shallowest water level, near to ground level has been recorded at Pipli of Surendranagar district and the deepest water level of 38.45 m bgl recorded at Kerala in Amreli district.

In Kachchh region, in about 95 % of the area, the water level ranges less than 20m bgl. Central east part of the area shows water level ranges 20 to 40 mbgl occur as isolated patches. The deepest water level of 27.00 m bgl is recorded at Gagodar and the shallowest water level of 0.07 m bgl has been recorded at Lilpur.

The depth to water level in Daman ranges from 0.70 mbgl at Dabhel to 3.68 mbgl at Morwad where as in Diu area depth to water levels range is 3.08 mbgl in Diu to 6.10 mbgl in Chakraterth.

Fig- 7

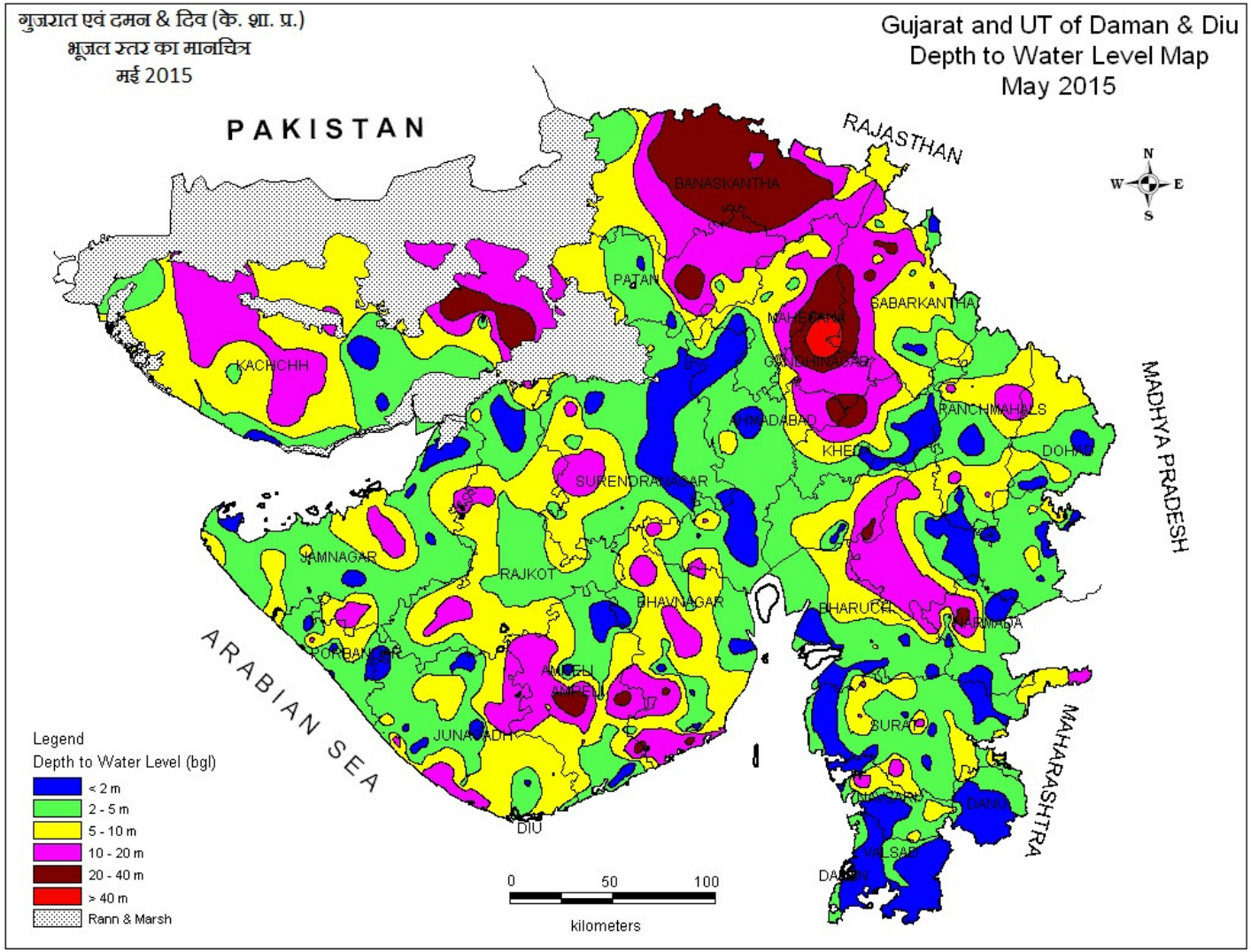

गुजरात एवं दमन & दिव (के. शा. प्र.)
भूजल स्तर का मानचित्र
मई 2015
Gujarat and UT of Daman & Diu
Depth to Water Level Map
May 2015
PAKISTAN
RAJASTHAN
MADHYA PRADESH
MAHARASHTRA
ARABIAN SEA
BANASKANTHA
PATAN
SABARKANTHA
KACHCHH
GANDHINAGAR
AHMADABAD
PANCHMAHALS
KHEDA
DOHAD
SURENDRANAGAR
JAMNAGAR
RAJKOT
BHAVNAGAR
BHARUCH
NARMADA
PORBANDAR
AMRELI
JUNAGADH
SURAT
DIU
DANG
VALSAD
DAMAN
N
W
E
S
Legend
Depth to Water Level (bgl)
< 2 m
2 - 5 m
5 - 10 m
10 - 20 m
20 - 40 m
> 40 m
Rann & Marsh
0
50
100
kilometers

Fig- 8

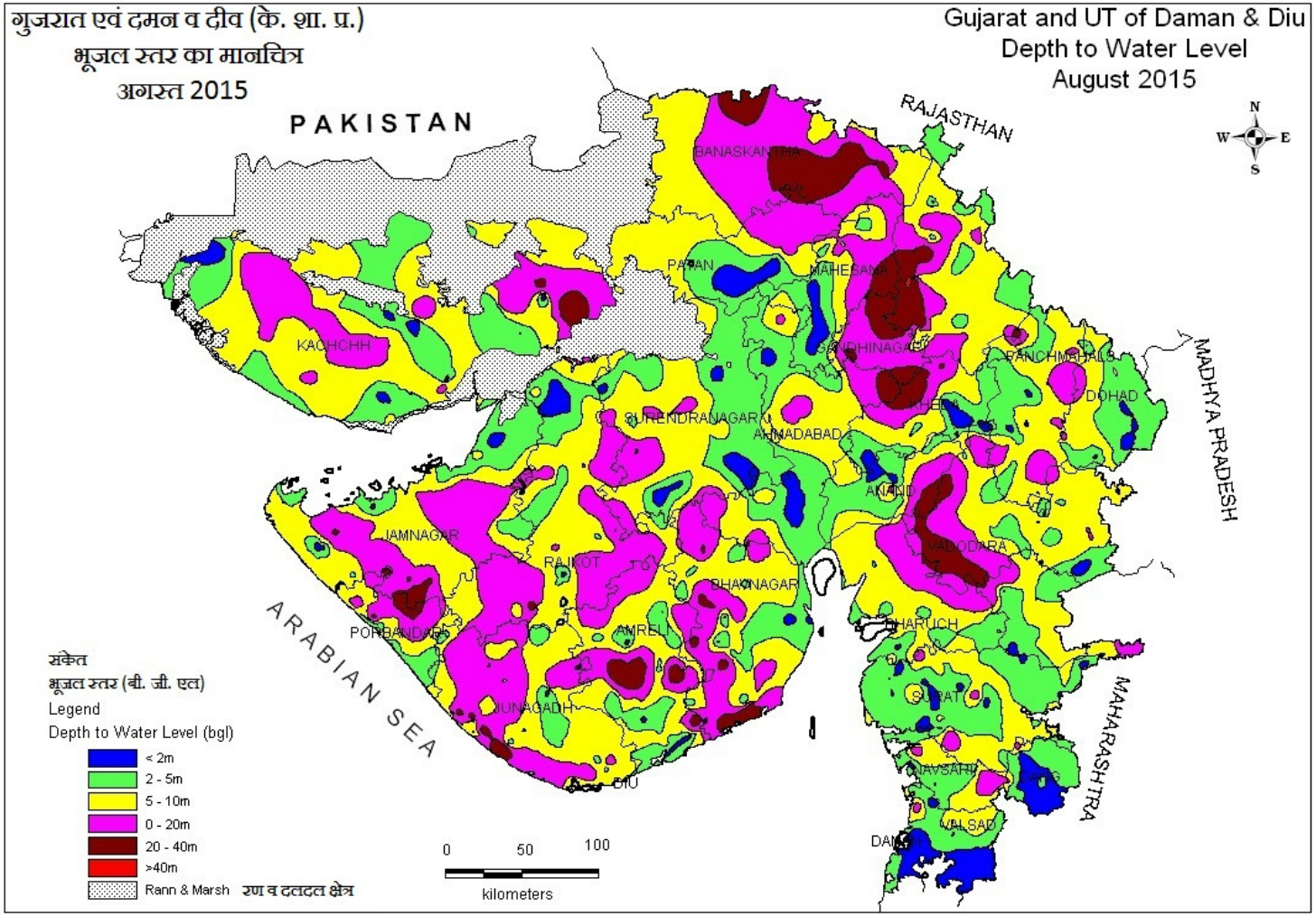

गुजरात एवं दमन व दीव (के. शा. प्र.)
भूजल स्तर का मानचित्र
अगस्त 2015
Gujarat and UT of Daman & Diu
Depth to Water Level
August 2015
PAKISTAN
RAJASTHAN
MADHYA PRADESH
MAHARASHTRA
ARABIAN SEA
BANASKANTHA
PATAN
MAHESANA
KACHCHH
GANDHINAGAR
PANCHMAHALS
DOHAD
SURENDRANAGAR
AHMADABAD
ANAND
JAMNAGAR
RAJKOT
VADODARA
BHAVNAGAR
PORBANDAR
AMRELI
BHARUCH
SURAT
JUNAGADH
DIU
NAVSARI
VALSAD
DAMAN
N
S
E
W
संकेत
भूजल स्तर (बी. जी. एल)
Legend
Depth to Water Level (bgl)
< 2m
2 - 5m
5 - 10m
0 - 20m
20 - 40m
>40m
Rann & Marsh रण व दलदल क्षेत्र
0
50
100
kilometers

Table-5

WELL WISE CATEGORISATION OF DEPTH TO WATER LEVEL - MAY 2015

Sl.No.	District	No. of Wells Analysed	DTWL in mbgl		No of well in different Ranges					
			Min	Max	0 to 2 (m)	2 to 5(m)	5 to 10(m)	10 to 20(m)	20 to 40(m)	>40(m)
1	Ahmedabad	20	0.84	24.77	1 33.33%	9 25.00%	4 29.17%	2 12.50%	4 0.00%	0 0.00%
2	Anand	13	1.65	24.26	1 7.69%	5 38.46%	2 15.38%	3 23.08%	2 15.38%	0 0.00%
3	Banaskantha	20	3.16	61.30	0 0.00%	1 5.00%	1 5.00%	10 50.00%	7 35.00%	1 5.00%
4	Dohad	22	1.55	14.82	1 5.00%	1 5.00%	12 60.00%	8 40.00%	0 0.00%	0 0.00%
5	Gandhinagar	5	11.99	58.30	0 0.00%	0 0.00%	0 0.00%	3 60.00%	0 0.00%	2 40.00%
6	Kheda	18	1.25	34.80	1 5.56%	6 33.33%	7 38.89%	2 11.11%	2 11.11%	0 0.00%
7	Mahesana	24	2.55	17.30	0 0.00%	5 20.83%	11 45.83%	8 33.33%	0 0.00%	0 0.00%
8	Panchmahals	29	2.56	28.55	0 0.00%	7 24.14%	7 24.14%	12 41.38%	3 10.34%	0 0.00%
9	Patan	9	1.65	17.48	1 11.11%	3 33.33%	3 33.33%	2 22.22%	0 0.00%	0 0.00%
10	Sabarkantha	42	4.85	43.00	0 0.00%	1 2.38%	13 30.95%	20 47.62%	7 16.67%	1 2.38%
North Gujarat		**202**	**0.84**	**61.30**	**5 2.48%**	**38 18.81%**	**60 29.70%**	**70 34.65%**	**25 12.38%**	**4 1.98%**
11	Bharuch	37	0.96	18.14	2 5.41%	14 37.84%	18 48.65%	3 8.11%	0 0.00%	0 0.00%
12	Narmada	23	1.63	29.95	1 4.35%	8 34.78%	8 34.78%	4 17.39%	2 8.70%	0 0.00%
13	Navsari	20	2.18	27.13	0 0.00%	6 30.00%	8 40.00%	5 25.00%	1 5.00%	0 0.00%
14	Surat	51	1.00	21.67	1 1.96%	18 35.29%	19 37.25%	12 23.53%	1 1.96%	0 0.00%
15	The dangs	23	2.35	12.64	0 0.00%	8 34.78%	13 56.52%	2 8.70%	0 0.00%	0 0.00%
16	Vadodara	48	1.20	29.51	1 2.08%	10 20.83%	17 35.42%	14 29.17%	6 12.50%	0 0.00%
17	Valsad	17	2.53	13.53	0 0.00%	7 41.18%	5 29.41%	5 29.41%	0 0.00%	0 0.00%
South Gujarat		**219**	**0.96**	**29.95**	**5 2.28%**	**71 32.42%**	**88 40.18%**	**45 20.55%**	**10 4.57%**	**0 0.00%**
18	Amreli	53	0.88	39.12	2 3.77%	7 13.21%	14 26.42%	18 33.96%	12 22.64%	0 0.00%
19	Bhavnagar	42	1.34	27.72	1 2.38%	9 21.43%	10 23.81%	14 33.33%	8 19.05%	0 0.00%
20	Jamnagar	49	3.19	25.46	0 0.00%	5 10.20%	20 40.82%	17 34.69%	7 14.29%	0 0.00%
21	Junagadh	63	3.13	31.90	0 0.00%	1 1.69%	23 38.98%	33 55.93%	6 10.17%	0 0.00%
22	Porbandar	27	1.75	31.10	1 3.70%	4 14.81%	8 29.63%	10 37.04%	4 14.81%	0 0.00%
23	Rajkot	46	2.85	26.60	0 0.00%	9 19.57%	11 23.91%	23 50.00%	3 6.52%	0 0.00%
24	Surendranagar	41	0.70	20.55	4 9.76%	16 39.02%	12 29.27%	8 19.51%	1 2.44%	0 0.00%
Saurashtra		**321**	**0.70**	**39.12**	**8 2.49%**	**51 15.89%**	**98 30.53%**	**123 38.32%**	**41 12.77%**	**0 0.00%**
25	**Kachchh**	**45**	**0.24**	**30.10**	**4 8.89%**	**2 4.44%**	**12 26.67%**	**20 44.44%**	**7 15.56%**	**0 0.00%**
26	DAMAN	9	3.40	10.15	0 0.00%	2 22.22%	6 66.67%	1 11.11%	0 0.00%	0 0.00%
27	DIU	1	4.13	4.13	0 0.00%	1 100.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
Daman & Diu		**10**	**3.40**	**10.15**	**0 0.00%**	**3 30.00%**	**6 60.00%**	**1 10.00%**	**0 0.00%**	**0 0.00%**
Grand Total		**797**	**0.24**	**61.30**	**22 2.76%**	**165 20.70%**	**264 33.12%**	**259 32.50%**	**83 10.41%**	**4 0.50%**

RODC, CGWB - WCR, Ahmedabad

Table-6

WELL WISE CATEGORISATION OF DEPTH TO WATER LEVEL - AUGUST 2015

Sl.No.	District	No. of Wells Analysed	DTWL in mbgl		No of well in different Ranges					
			Min	Max	0 to 2 (m)	2 to 5(m)	5 to 10(m)	10 to 20(m)	20 to 40(m)	>40(m)
1	Ahmedabad	25	1.10	16.45	4 33.33%	9 25.00%	5 29.17%	7 12.50%	0 0.00%	0 0.00%
2	Anand	15	0.38	24.60	2 13.33%	7 46.67%	2 13.33%	2 13.33%	2 13.33%	0 0.00%
3	Banaskantha	18	4.53	35.28	0 0.00%	1 5.56%	8 44.44%	4 22.22%	5 27.78%	0 0.00%
4	Dohad	29	0.15	11.01	6 30.00%	11 55.00%	11 55.00%	1 5.00%	0 0.00%	0 0.00%
5	Gandhinagar	4	11.74	27.00	0 0.00%	0 0.00%	0 0.00%	2 40.00%	2 40.00%	0 0.00%
6	Kheda	22	0.06	35.40	6 33.33%	5 27.78%	9 50.00%	0 0.00%	2 11.11%	0 0.00%
7	Mahesana	21	0.68	15.78	5 23.81%	7 33.33%	6 28.57%	3 14.29%	0 0.00%	0 0.00%
8	Panchmahals	38	0.05	26.80	4 10.53%	11 28.95%	14 36.84%	8 21.05%	1 2.63%	0 0.00%
9	Patan	7	0.05	15.18	2 28.57%	0 0.00%	3 42.86%	2 28.57%	0 0.00%	0 0.00%
10	Sabarkantha	56	1.45	42.40	2 3.57%	12 21.43%	26 46.43%	11 19.64%	4 7.14%	1 1.79%
North Gujarat		**235**	**0.05**	**42.40**	**31 13.19%**	**63 26.81%**	**84 35.74%**	**40 17.02%**	**16 6.81%**	**1 0.43%**
11	Bharuch	27	1.40	16.56	1 3.70%	12 44.44%	13 48.15%	1 3.70%	0 0.00%	0 0.00%
12	Narmada	20	0.14	18.63	2 10.00%	9 45.00%	7 35.00%	2 10.00%	0 0.00%	0 0.00%
13	Navsari	20	1.10	19.65	3 15.00%	8 40.00%	7 35.00%	2 10.00%	0 0.00%	0 0.00%
14	Surat	57	0.55	20.40	13 22.81%	23 40.35%	15 26.32%	5 8.77%	1 1.75%	0 0.00%
15	The dangs	25	0.20	11.10	16 64.00%	6 24.00%	1 4.00%	2 8.00%	0 0.00%	0 0.00%
16	Vadodara	42	1.05	25.73	3 7.14%	9 21.43%	18 42.86%	8 19.05%	4 9.52%	0 0.00%
17	Valsad	19	0.10	14.60	10 52.63%	4 21.05%	3 15.79%	2 10.53%	0 0.00%	0 0.00%
South Gujarat		**210**	**0.10**	**25.73**	**48 22.86%**	**71 33.81%**	**64 30.48%**	**22 10.48%**	**5 2.38%**	**0 0.00%**
18	Amreli	53	0.20	39.45	5 9.43%	17 32.08%	11 20.75%	12 22.64%	8 15.09%	0 0.00%
19	Bhavnagar	44	1.26	28.44	4 9.09%	12 27.27%	9 20.45%	9 20.45%	10 22.73%	0 0.00%
20	Jamnagar	52	0.62	25.35	4 7.69%	12 23.08%	18 34.62%	15 28.85%	3 5.77%	0 0.00%
21	Junagadh	65	1.26	28.15	1 1.69%	10 16.95%	24 40.68%	24 40.68%	6 10.17%	0 0.00%
22	Porbandar	27	2.15	33.60	0 0.00%	7 25.93%	9 33.33%	8 29.63%	3 11.11%	0 0.00%
23	Rajkot	55	0.45	25.05	4 7.27%	8 14.55%	20 36.36%	21 38.18%	2 3.64%	0 0.00%
24	Surendranagar	43	0.02	8.00	8 18.60%	13 30.23%	17 39.53%	4 9.30%	1 2.33%	0 0.00%
Saurashtra		**339**	**0.02**	**39.45**	**26 7.67%**	**79 23.30%**	**108 31.86%**	**93 27.43%**	**33 9.73%**	**0 0.00%**
25	**Kachchh**	**43**	**0.02**	**27.00**	**7 16.28%**	**8 18.60%**	**14 32.56%**	**12 27.91%**	**2 4.65%**	**0 0.00%**
26	DAMAN	9	0.70	3.68	6 66.67%	3 33.33%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
27	DIU	2	3.08	6.10	0 0.00%	1 50.00%	1 50.00%	0 0.00%	0 0.00%	0 0.00%
Daman & Diu		**11**	**0.70**	**6.10**	**6 54.55%**	**4 36.36%**	**1 9.09%**	**0 0.00%**	**0 0.00%**	**0 0.00%**
Grand Total		**838**	**0.02**	**42.40**	**118 14.08%**	**225 26.85%**	**271 32.34%**	**167 19.93%**	**56 6.68%**	**1 0.12%**

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3.1.3 Depth to Water Level November 2015

The depth to water level of unconfined aquifer ranges from near ground level to 57.95 mbgl (Deesa district Banaskantha) during November 2015 **(Fig 9 and table no 7)**. The perusal of the water level reveals that 94% of the total well analysed has water level less than 20 mbgl, in Gujarat state and UT of Daman & Diu. Water levels of 20 to 40 mbgl are observed in Anand, Banaskantha, Gandhinagar, Kheda, Patan, Sabarkantha, Navsari, Vadodara, Amreli, Bhavnagar, Junagarh, Jamnagar, Porbandar and Kachchh districts in isolated patches. The shallowest water level recorded is 0.02 mbgl at Pipli in Surendranagar district.

In North Gujarat, about 94% of the total well analysed falls with in the water level range of 20 mbgl. Shallow water levels (lesser than 5 mbgl) are observed in the area near the Gulf of Cambay and the area along the little Rann of Kachchh and in eastern part of north Gujarat region such as in Panchmahals, Dohad and Sabarkantha district. Deeper water levels ranges 20 to 40 mbgl are experienced in major part Banaskantha, the adjoining area of Ahmedabad, Kheda and Gandhinagar and as isolated patch in Mahesana and Ahmedabad districts. The deepest water level of 57.95 mbgl at Deesa in Banaskantha district whereas shallowest water level of 0.10 mbgl has been recorded at Shekhurpura in Kheda district.

In South Gujarat, more than 96% of the area has recorded water level within 20 mbgl of which 80 % alone has the water level in the range of 2 – 10 mbgl. Deeper water levels of 20 – 40 mbgl are mainly observed as isolated patch in parts of Vadodara, Navsari and Surat districts. The deepest water level of 25.80 mbgl is recorded at Chitral in Vadodara district whereas the shallowest water level of 0.39 mbgl has been recorded at Kaidiapada in Narmada disrtict.

In Saurashtra region, about 91% of the total well shows water levels less than 20 mbgl and water levels of 20 to 40 mbgl are sporadically disbursed as isolated patches in all districts except Surendranagar district. The shallowest water level recorded is 0.02 mbgl at Pipli in Surendranagar district and the deepest water level of 36.15 mbgl recorded at Kerala in Amreli district.

In Kachchh region, in about 90% of the total well analysed, the water level ranges within 20 mbgl in major part of the district. Central east part of the area shows water level ranges 20 to 40 mbgl, which cover about 10% of total well in Kachchh region and occur as isolated patches. The deepest water level of 38.00 mbgl is recorded at Kotada and the shallowest water level of 0.27 mbgl has been recorded at Haboi.

The depth to water level is within the range of 1.65(Jampore) to 4.45 mbgl (Bhimpor ka falia) in Daman and minimum water level in Diu is 2.90 mbgl at Diu dug well with deepest water level in Chakrateeth 5.40 mbgl in Diu.

3.1.4 Depth to Water Level January 2016

A perusal of **Fig 10** and **Table 8** revels that the depth to water level of unconfined aquifer ranges from 0.05 mbgl at Pipli in Surendranagar district to 59.38 mbgl in Deesa district Banaskantha during January 2016. Details of depth to water level in different range, i.e. from 0-2 m, 2 to 5 m, 5 to 10 m, 10 to 20m, 20 to 40 m and more than 40 mbgl is presented in table – 8. The perusal of the Depth To Water map reveals that about 29% of the total well analysed falls in the water level range of 0 to 5 mbgl whereas water level of 5 to 20 mbgl is observed in 62% of Gujarat state and UT of Daman & Diu. Water levels of 20 to 40 mbgl are observed in Anand, Banaskantha, Kheda, Gandhinagar, Panchmahal, Sabarkantha, Narmada, Navsari, Vadodara and in hole Saurastra and Kachchh region as isolated patches. The deepest water level more than 40 mbgl is recorded in Banaskantha, Sabarkantha, Amreli and Kachchh district.

In North Gujarat, about 91% of the total well analysed falls with in the water level range of 20 mbgl of which alone 61% represent the water level range of 0 – 10 mbgl. Shallow water levels (lesser than 5 mbgl) are observed in the area near the Gulf of Cambay and the area along the little Rann of Kachchh and in eastern part of north Gujarat region such as in Panchmahals, Dohad and Sabarkantha district. Deeper water levels ranges 20 to 40 mbgl are experienced in major part of Banaskantha district, the adjoining area of Kheda and Gandhinagar and as isolated patch in Sabarkantha district. The deepest water level of 59.38 mbgl at Deesa in Banaskantha district whereas shallowest water level of 0.87 mbgl has been recorded at Radhanpur in Patan district.

In South Gujarat, about 82% of the area has recorded water level less than 10 mbgl of which 42% alone has the water level in the range of 5-10 mbgl. Deeper water levels of 20 – 40 mbgl mainly observed as isolated patch in major parts of Vadodara and in Surat and Narmada districts. The deepest water level of 27.21 mbgl is recorded at Handod in Vadodara district whereas the shallowest water level of 1.00 mbgl has been recorded at Malegaon in The Dangs district.

In Saurashtra region, about 87% of the total well shows water levels less than 20 mbgl and water levels of 20 to 40 mbgl are sporadically disbursed as isolated patches in all area of the region. The shallowest water level, 0.05 mbgl, has been recorded at Pipli of Surendranagar district. The deepest water level of 41.84 mbgl recorded at Kerala in Amreli district.

In Kachchh region, more than 91% of the total well analysed, the water level ranges in less than 20 mbgl in major part of the district. Central part from east to west of the area shows water level ranges 20 to 40 mbgl, which cover only about 7% of total well in Kachchh region and occur as isolated patches. The deepest water level of 40.80 mbgl is recorded at Ugardi and the shallowest water level of 0.36 m bgl has been recorded at Haboi.

The depth to water level is within the range of 2.75(Jampore) to 6.70 mbgl (Morwad) in Daman and minimum water level in Diu is 3.90 mbgl at Diu dug well with deepest water level in Jalwali 6.50 mbgl in Diu.

Fig- 9

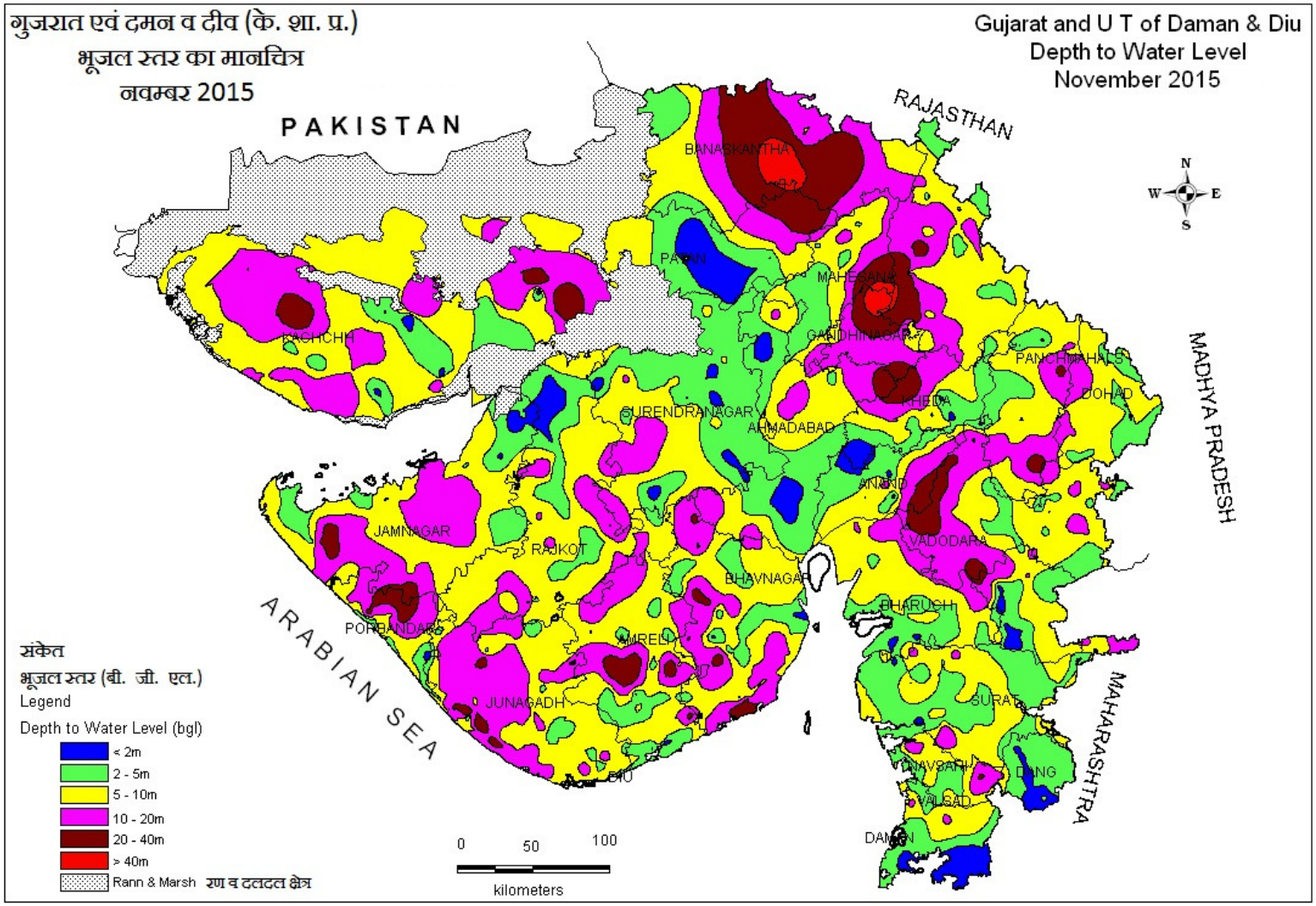
गुजरात एवं दमन व दीव (के. शा. प्र.)
भूजल स्तर का मानचित्र
नवम्बर 2015
Gujarat and U T of Daman & Diu
Depth to Water Level
November 2015
PAKISTAN
RAJASTHAN
MADHYA PRADESH
MAHARASHTRA
ARABIAN SEA
BANASKANTHA
PATAN
MAHESANA
GANDHINAGAR
KACHCH
PANCHMAHALS
DOHAD
KHEDA
SURENDRANAGAR
AHMADABAD
ANAND
JAMNAGAR
RAJKOT
VADODARA
BHAVNAGAR
BHARUCH
PORBANDAR
AMRELI
JUNAGADH
SURAT
DIU
NAVSARI
DANG
VALSAD
DAMAN
N
S
W
E
संकेत
भूजल स्तर (बी. जी. एल.)
Legend
Depth to Water Level (bgl)
< 2m
2 - 5m
5 - 10m
10 - 20m
20 - 40m
> 40m
Rann & Marsh रण व दलदल क्षेत्र
0
50
100
kilometers

Fig- 10

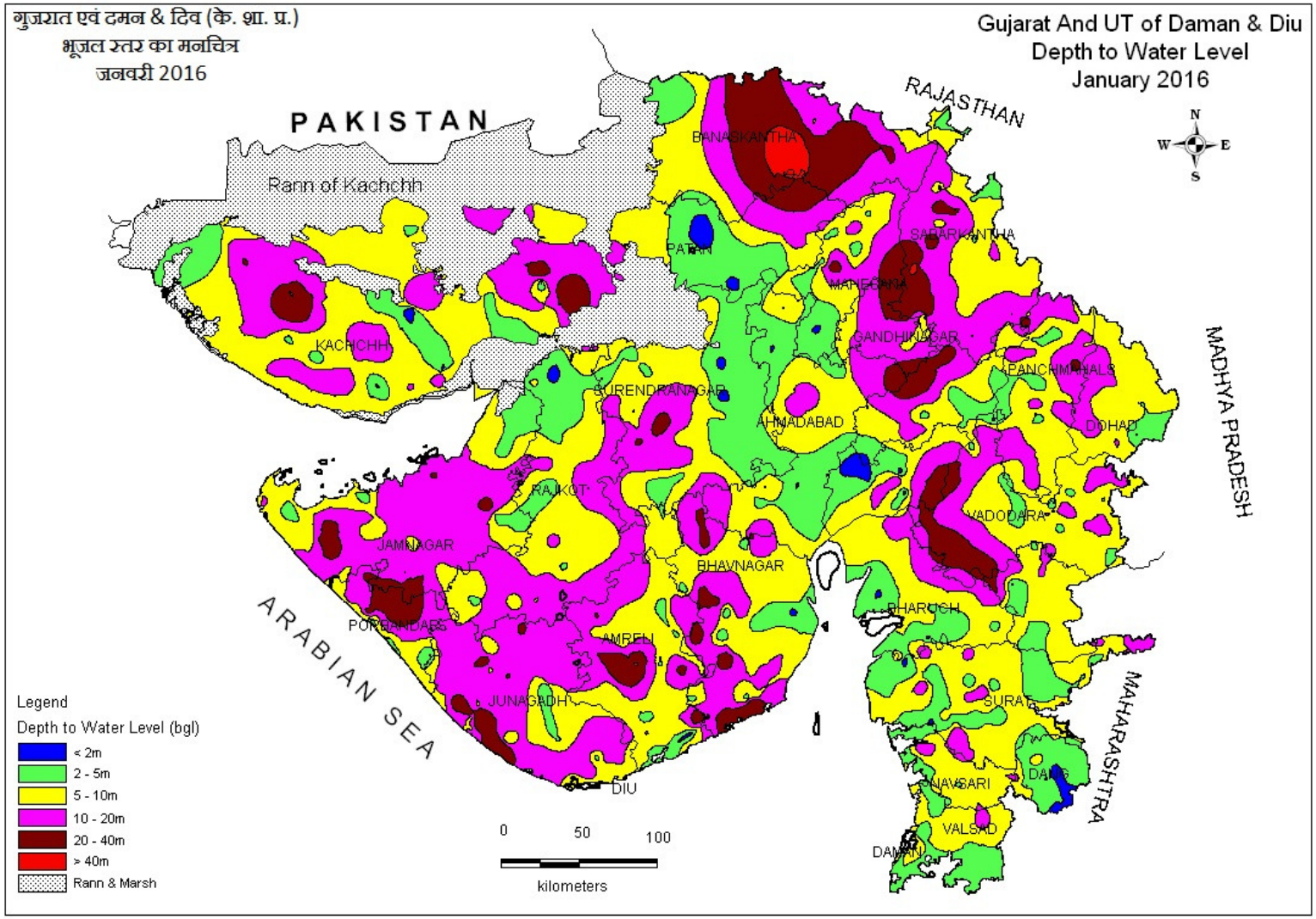
गुजरात एवं दमन & दिव (के. शा. प्र.)
भूजल स्तर का मनचित्र
जनवरी 2016
Gujarat And UT of Daman & Diu
Depth to Water Level
January 2016
PAKISTAN
Rann of Kachchh
RAJASTHAN
MADHYA PRADESH
MAHARASHTRA
ARABIAN SEA
BANASKANTHA
PATAN
SABARKANTHA
MAHESANA
GANDHINAGAR
KACHCHH
SURENDRANAGAR
AHMADABAD
PANCHMAHALS
DOHAD
RAJKOT
VADODARA
JAMNAGAR
BHAVNAGAR
BHARUCH
PORBANDAR
AMRELI
JUNAGADH
SURAT
DIU
NAVSARI
DANG
VALSAD
DAMAN
N
W
E
S
Legend
Depth to Water Level (bgl)
< 2m
2 - 5m
5 - 10m
10 - 20m
20 - 40m
> 40m
Rann & Marsh
0
50
100
kilometers

Table-7

WELL WISE CATEGORISATION OF DEPTH TO WATER LEVEL - NOVEMBER 2015

Sl.No.	District	No. of Wells Analysed	DTWL in mbgl		No of well in different Ranges					
			Min	Max	0 to 2 (m)	2 to 5(m)	5 to 10(m)	10 to 20(m)	20 to 40(m)	>40(m)
1	Ahmedabad	24	0.85	15.40	5 20.83%	8 33.33%	5 20.83%	6 25.00%	0 0.00%	0 0.00%
2	Anand	15	0.93	26.81	2 13.33%	6 40.00%	1 6.67%	4 26.67%	2 13.33%	0 0.00%
3	Banaskantha	19	3.10	57.95	0 0.00%	1 5.26%	4 21.05%	9 47.37%	4 21.05%	1 5.26%
4	Dohad	28	1.15	13.10	2 10.00%	10 50.00%	13 65.00%	3 15.00%	0 0.00%	0 0.00%
5	Gandhinagar	4	11.36	54.28	0 0.00%	0 0.00%	0 0.00%	3 60.00%	0 0.00%	1 20.00%
6	Kheda	20	0.10	35.58	4 22.22%	8 44.44%	5 27.78%	2 11.11%	1 5.56%	0 0.00%
7	Mahesana	25	2.34	17.92	0 0.00%	11 44.00%	9 36.00%	5 20.00%	0 0.00%	0 0.00%
8	Panchmahals	39	1.38	24.70	3 7.69%	5 12.82%	23 58.97%	6 15.38%	2 5.13%	0 0.00%
9	Patan	10	0.33	32.01	4 40.00%	0 0.00%	3 30.00%	2 20.00%	1 10.00%	0 0.00%
10	Sabarkantha	54	1.60	38.15	2 3.70%	10 18.52%	23 42.59%	15 27.78%	4 7.41%	0 0.00%
North Gujarat		**238**	**0.10**	**57.95**	**22 9.24%**	**59 24.79%**	**86 36.13%**	**55 23.11%**	**14 5.88%**	**2 0.84%**
11	Bharuch	34	1.04	17.93	4 11.76%	14 41.18%	14 41.18%	2 5.88%	0 0.00%	0 0.00%
12	Narmada	21	0.39	18.40	6 28.57%	4 19.05%	7 33.33%	4 19.05%	0 0.00%	0 0.00%
13	Navsari	21	1.50	21.55	1 4.76%	8 38.10%	10 47.62%	1 4.76%	1 4.76%	0 0.00%
14	Surat	57	1.25	20.50	6 10.53%	21 36.84%	23 40.35%	6 10.53%	1 1.75%	0 0.00%
15	The dangs	24	0.50	10.80	11 45.83%	11 45.83%	1 4.17%	1 4.17%	0 0.00%	0 0.00%
16	Vadodara	44	1.66	25.80	2 4.55%	12 27.27%	15 34.09%	9 20.45%	6 13.64%	0 0.00%
17	Valsad	18	0.40	12.60	4 22.22%	8 44.44%	4 22.22%	2 11.11%	0 0.00%	0 0.00%
South Gujarat		**219**	**0.39**	**25.80**	**34 15.53%**	**78 35.62%**	**74 33.79%**	**25 11.42%**	**8 3.65%**	**0 0.00%**
18	Amreli	52	1.50	36.15	5 9.62%	16 30.77%	12 23.08%	12 23.08%	7 13.46%	0 0.00%
19	Bhavnagar	43	1.25	25.60	6 13.95%	10 23.26%	10 23.26%	8 18.60%	9 20.93%	0 0.00%
20	Jamnagar	51	1.07	23.18	3 5.88%	10 19.61%	17 33.33%	19 37.25%	2 3.92%	0 0.00%
21	Junagadh	69	2.13	29.40	0 0.00%	12 20.34%	24 40.68%	28 47.46%	5 8.47%	0 0.00%
22	Porbandar	29	0.97	34.20	1 3.45%	6 20.69%	9 31.03%	9 31.03%	4 13.79%	0 0.00%
23	Rajkot	55	0.92	21.11	4 7.27%	16 29.09%	21 38.18%	12 21.82%	2 3.64%	0 0.00%
24	Surendranagar	49	0.02	19.38	8 16.33%	19 38.78%	17 34.69%	5 10.20%	0 0.00%	0 0.00%
Saurashtra		**348**	**0.02**	**36.15**	**27 7.76%**	**89 25.57%**	**110 31.61%**	**93 26.72%**	**29 8.33%**	**0 0.00%**
25	**Kachchh**	**48**	**0.27**	**38.00**	**5 10.42%**	**5 10.42%**	**16 33.33%**	**17 35.42%**	**5 10.42%**	**0 0.00%**
26	DAMAN	9	1.65	4.45	3 33.33%	6 66.67%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
27	DIU	4	2.90	5.40	0 0.00%	3 75.00%	1 25.00%	0 0.00%	0 0.00%	0 0.00%
Daman & Diu		**13**	**1.65**	**5.40**	**3 23.08%**	**9 69.23%**	**1 7.69%**	**0 0.00%**	**0 0.00%**	**0 0.00%**
Grand Total		**866**	**0.02**	**57.95**	**91 10.51%**	**240 27.71%**	**287 33.14%**	**190 21.94%**	**56 6.47%**	**2 0.23%**

RODC, CGWB - WCR, Ahmedabad

Table-8

WELL WISE CATEGORISATION OF DEPTH TO WATER LEVEL - JANUARY 2016

Sl.No.	District	No. of Wells Analysed	DTWL in mbgl		No of well in different Ranges					
			Min	Max	0 to 2 (m)	2 to 5(m)	5 to 10(m)	10 to 20(m)	20 to 40(m)	>40(m)
1	Ahmedabad	25	1.90	18.55	2 8.00%	11 44.00%	5 20.00%	7 28.00%	0 0.00%	0 0.00%
2	Anand	17	1.02	27.28	4 23.53%	3 17.65%	3 17.65%	4 23.53%	3 17.65%	0 0.00%
3	Banaskantha	20	3.66	59.38	0 0.00%	1 5.00%	4 20.00%	9 45.00%	5 25.00%	1 5.00%
4	Dohad	28	1.90	14.83	1 3.57%	5 17.86%	17 60.71%	5 17.86%	0 0.00%	0 0.00%
5	Gandhinagar	5	6.63	21.16	0 0.00%	0 0.00%	2 40.00%	2 40.00%	1 20.00%	0 0.00%
6	Kheda	21	1.79	34.98	1 4.76%	5 23.81%	11 52.38%	2 9.52%	2 9.52%	0 0.00%
7	Mahesana	25	1.34	13.10	1 4.00%	11 44.00%	10 40.00%	3 12.00%	0 0.00%	0 0.00%
8	Panchmahals	37	2.14	28.83	0 0.00%	7 18.92%	13 35.14%	15 40.54%	2 5.41%	0 0.00%
9	Patan	9	0.87	18.32	2 22.22%	2 22.22%	2 22.22%	3 33.33%	0 0.00%	0 0.00%
10	Sabarkantha	50	3.05	43.44	0 0.00%	6 12.00%	16 32.00%	21 42.00%	6 12.00%	1 2.00%
North Gujarat		**237**	**0.87**	**59.38**	**11 4.64%**	**51 21.52%**	**83 35.02%**	**71 29.96%**	**19 8.02%**	**2 0.84%**
11	Bharuch	36	1.69	17.39	2 5.56%	13 36.11%	20 55.56%	1 2.78%	0 0.00%	0 0.00%
12	Narmada	20	1.83	20.66	1 5.00%	8 40.00%	7 35.00%	3 15.00%	1 5.00%	0 0.00%
13	Navsari	21	1.80	18.85	1 4.76%	6 28.57%	12 57.14%	2 9.52%	0 0.00%	0 0.00%
14	Surat	58	1.15	21.30	3 5.17%	18 31.03%	26 44.83%	10 17.24%	1 1.72%	0 0.00%
15	The dangs	24	1.00	11.80	7 29.17%	12 50.00%	4 16.67%	1 4.17%	0 0.00%	0 0.00%
16	Vadodara	49	1.70	27.21	1 2.04%	10 20.41%	18 36.73%	16 32.65%	4 8.16%	0 0.00%
17	Valsad	18	2.30	11.25	0 **0.00%**	10 **55.56%**	7 **38.89%**	1 **5.56%**	0 **0.00%**	0 **0.00%**
South Gujarat		**226**	**1.00**	**27.21**	**15 6.64%**	**77 34.07%**	**94 41.59%**	**34 15.04%**	**6 2.65%**	**0 0.00%**
18	Amreli	51	0.75	41.84	1 1.96%	12 23.53%	16 31.37%	15 29.41%	6 11.76%	1 1.96%
19	Bhavnagar	43	1.40	29.40	1 2.33%	11 25.58%	12 27.91%	10 23.26%	9 20.93%	0 0.00%
20	Jamnagar	51	2.65	24.41	0 0.00%	8 15.69%	13 25.49%	24 47.06%	6 11.76%	0 0.00%
21	Junagadh	66	2.20	38.40	0 0.00%	6 10.17%	16 27.12%	34 57.63%	10 16.95%	0 0.00%
22	Porbandar	29	1.84	34.20	1 3.45%	3 10.34%	10 34.48%	7 24.14%	8 27.59%	0 0.00%
23	Rajkot	56	1.05	20.30	1 1.79%	12 21.43%	25 44.64%	16 28.57%	2 3.57%	0 0.00%
24	Surendranagar	50	0.05	24.11	5 10.00%	21 42.00%	14 28.00%	8 16.00%	2 4.00%	0 0.00%
Saurashtra		**346**	**0.05**	**41.84**	**9 2.60%**	**73 21.10%**	**106 30.64%**	**114 32.95%**	**43 12.43%**	**1 0.29%**
25	**Kachchh**	**53**	**0.36**	**40.80**	**4 7.55%**	**7 13.21%**	**17 32.08%**	**20 37.74%**	**4 7.55%**	**1 1.89%**
26	DAMAN	9	2.75	6.70	0 **0.00%**	4 **44.44%**	5 **55.56%**	0 **0.00%**	0 **0.00%**	0 **0.00%**
27	DIU	4	3.90	6.50	0 **0.00%**	2 **50.00%**	2 **50.00%**	0 **0.00%**	0 **0.00%**	0 **0.00%**
Daman & Diu		**13**	**2.75**	**6.70**	**0 0.00%**	**6 46.15%**	**7 53.85%**	**0 0.00%**	**0 0.00%**	**0 0.00%**
Grand Total		**875**	**0.05**	**59.38**	**39 4.46%**	**214 24.46%**	**307 35.09%**	**239 27.31%**	**72 8.23%**	**4 0.46%**

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3.2 Seasonal Water Level Fluctuation

To study the effect of monsoon on the groundwater regime and subsequent utilisation of groundwater for various needs like agriculture, irrigation, Domestic etc., changes in depth to water levels with respect to May data are studied. The change in groundwater in the region over different periods is presented in **Fig. 11(a,b,c)** and a summary of each observation is discussed below.

SEASONAL FLUCTUATION OF WATER LEVEL DURING 2015-2016

Figure 11 a

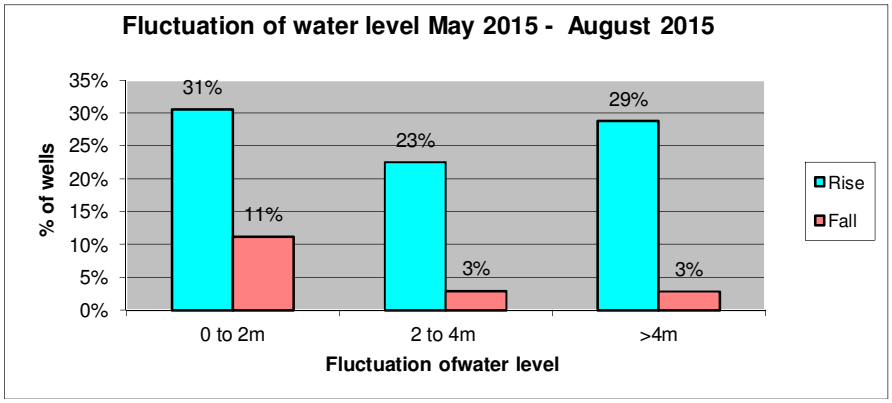


Figure 11 b

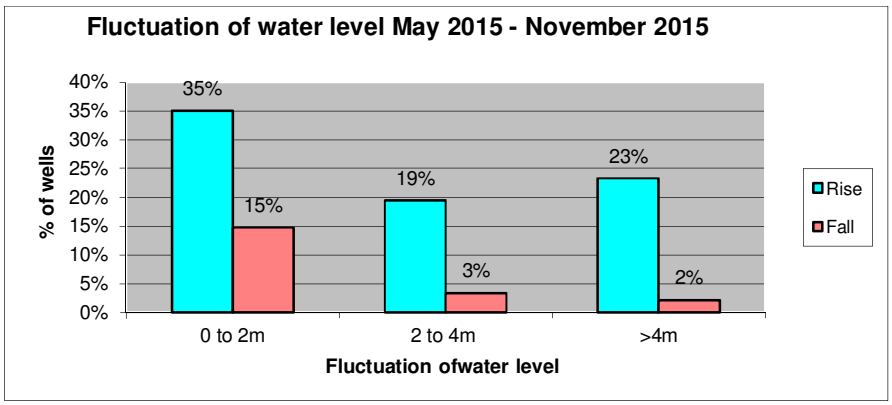
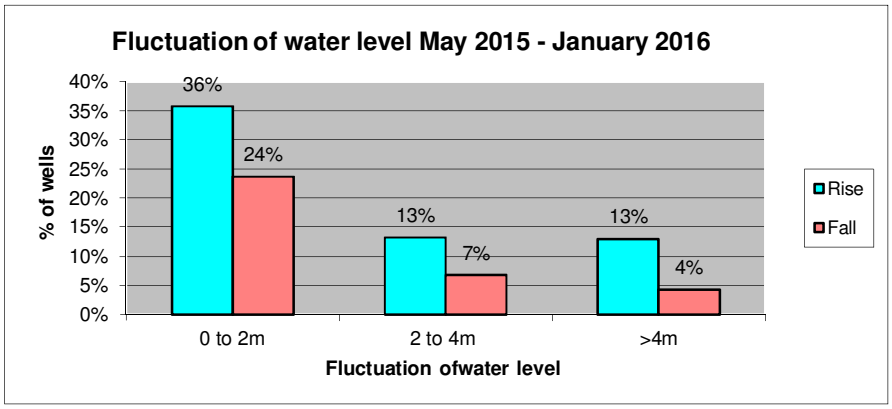


Figure 11 c



3.2.1 May 2015 to August 2015

A perusal of **Fig 12** and **Table 9** reveals that 91% of the Gujarat state and UT of Daman & Diu shows a rise in water level. Rise in water level with in range of 0 – 2 m is observed in about 30.58% area of the state and 22.51% in the range of 2 – 4 m. More than 4 m rise is shown in 28.77% of the state and UT of Daman & Diu. Fall in water level is mainly observed in parts of Saurashtra region, small isolated patches scattered in rest of the area of Gujarat except in Kachchh. Fall is mainly in the range of 0 – 2 m and it covers about 11% area of the state and UT of Daman & Diu. The maximum rise of 15.20 m is recorded at Gangodra in Banaskantha district whereas the maximum decline of 19.28 m is recorded at Samkhiri in Kachchh district.

About 89% of the area observed rise of water level in the North Gujarat and most of which (56% area) is in the range Less than 4m of fluctuation of water level. Rise of water level more than 4m observed in 32% of the area. Fall of 0 – 2 m range is observed in 7 % area of the region in adjoining area of Ahmedabad, Gandhinagar and Sabarkantha districts as isolated patches.

In South Gujarat region, 85% area shows rise in water level and in the range 0 to 2m covers 37% area in the region. Rise of water level in 2 to 4 and more than 4m covers an area of about 39 % of the region. Fall in water level is observed maximum in the range of 0 – 2 m in 12% of the area.

About 76% of the Saurashtra region has experienced rise of water level and in the range of 0 – 2 m covers about 29%. Rise of water level more than 4 m is predominantly found in 28% of the area. Fall of 0 to 2m is observed in (15% area) and total fall is only 24%.

In Kachchh region, 37% of the area is covered by a rise in water level of 0-2 m. About 100% of area shows Rise in water level. Rise of 2-4 m is observed in 36% of the area.

In UT of Daman only rise in water level is observed in August 2015 as compered to May 2015 and maximum rise is 8.8 m in Daman and in UT of Diu rise is 1.05 m.

3.2.2 May 2015 to November 2015

The seasonal water level fluctuation shows rise in 80% of the total wells monitored in the Gujarat state and UT of Daman & Diu area during the Pre and Post Monsoon 2015. Fall in water level is observed mainly in Kachchh, Saurashtra and central part of Gujarat due to local phenomena. In the state, the maximum rise of 20.30 m is recorded at Bavaliya in Panchmahal district whereas the maximum decline of 15.50 m is observed at Kalyanpur in Jamnagar district. (Fig 13 and Table 10).

In North Gujarat region, rise in water level observed in entire area except 14 observation station of Banaskankha, Gandhinagar and Sabarkantha district. Out of the total well analysed and maximum rise (62%) is less than 4 m.

The 79% of the total well in the area of South Gujarat have recorded rise and maximum (40%) is less than 2 m. The fall is only in 21% of total well and maximum (16%) in the range of 0 – 2 m.

Over all 75% of total well analysed show rise in water level in the entire Saurashtra. Fall is mainly in the range of 0 – 2 m and is found in isolated patches and cover 17% of the total area of region.

In Kachchh 85% of the total well analysed recorded rise in water level. The fall is mostly in the range of 0 – 2 m recorded in about 13% of the total well. Rise is observed in all parts of the region and mostly in the range of 0-2 m.

In UT of Daman only rise in water level has been observed with a maximum 8.4m and in UT of Diu range of rise is in between 0.20m to 1.9m.

Fig- 12

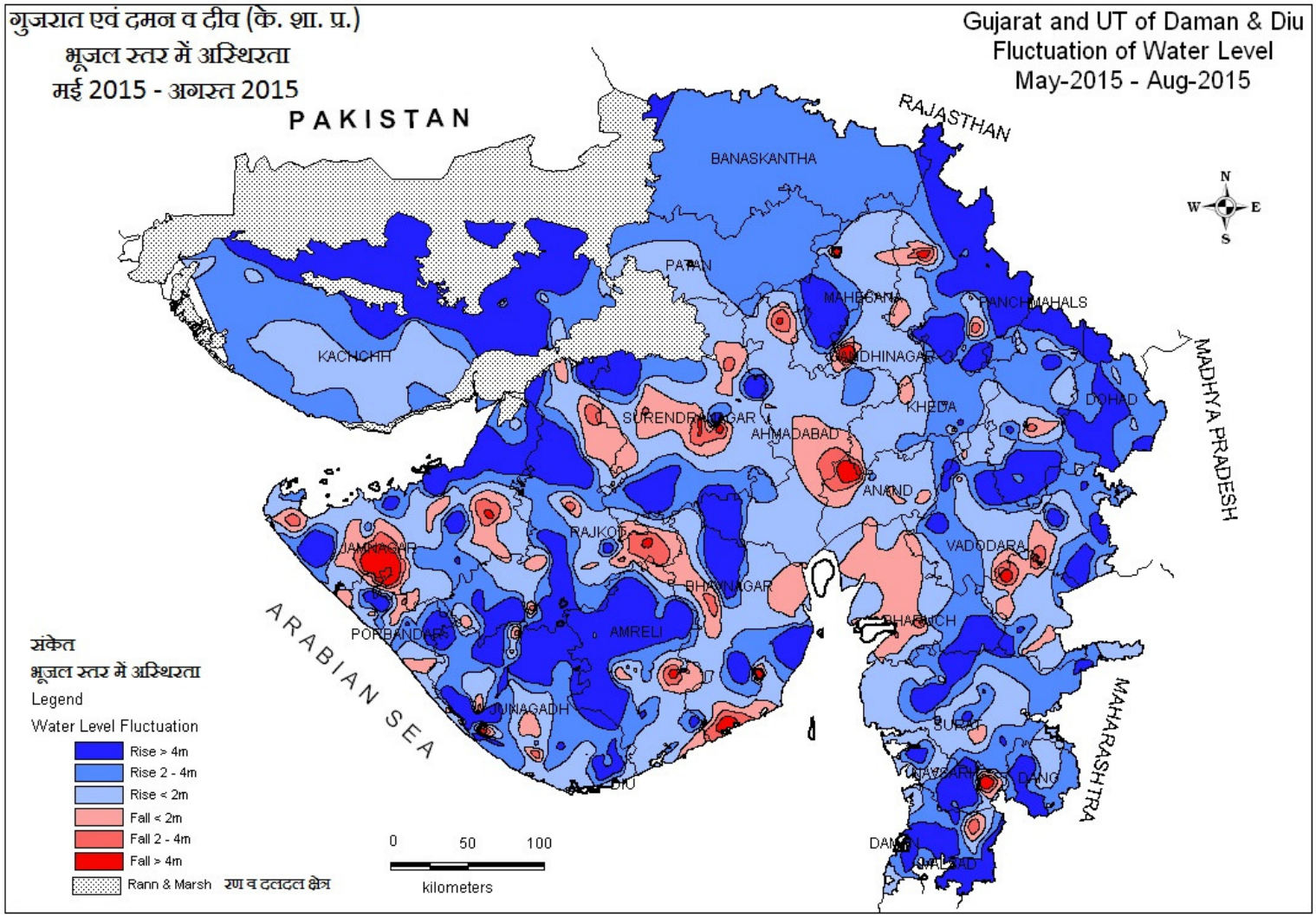
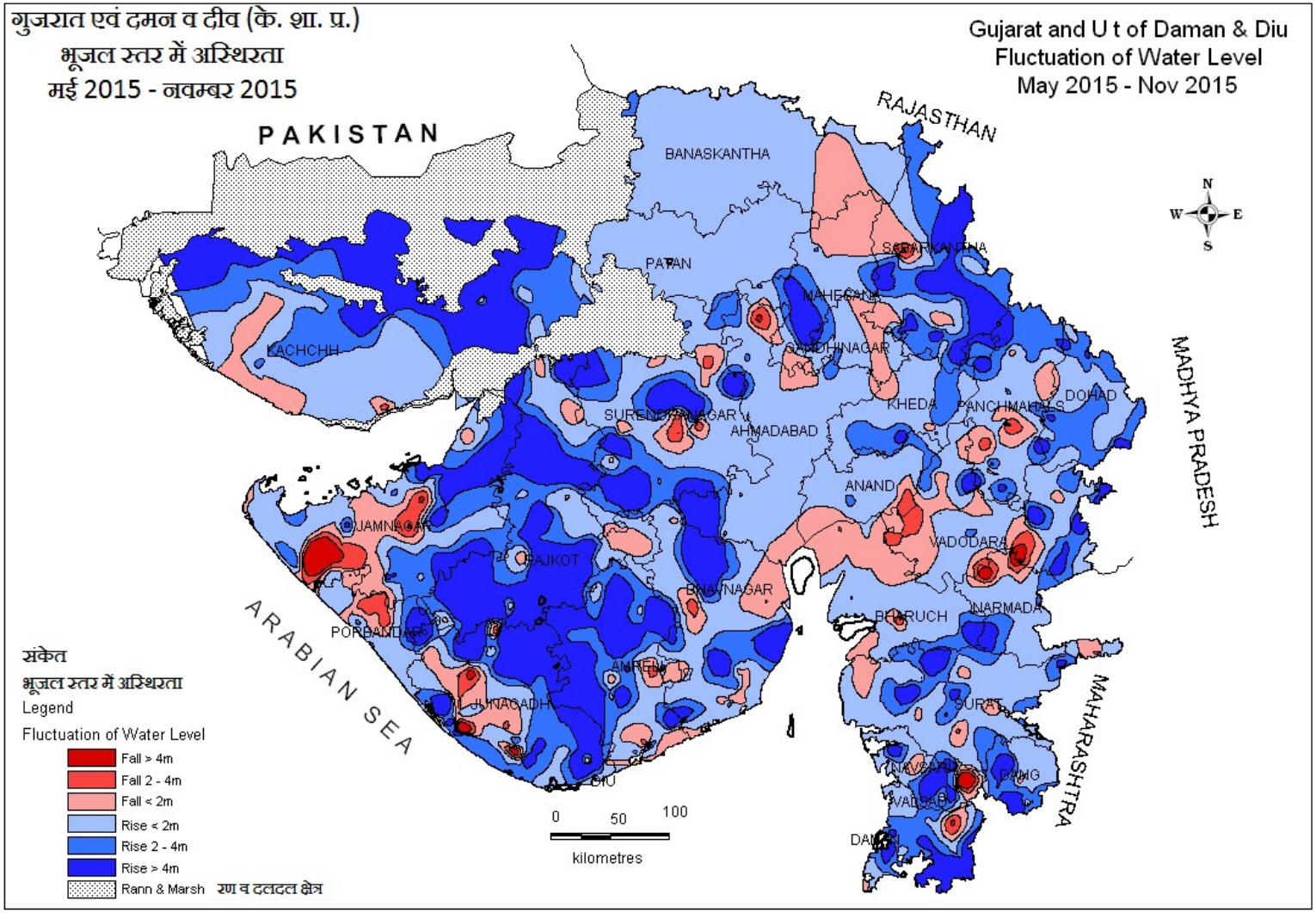

गुजरात एवं दमन व दीव (के. शा. प्र.)
भूजल स्तर में अस्थिरता
मई 2015 - अगस्त 2015
Gujarat and UT of Daman & Diu
Fluctuation of Water Level
May-2015 - Aug-2015
PAKISTAN
RAJASTHAN
MADHYA PRADESH
MAHARASHTRA
ARABIAN SEA
BANASKANTHA
PATAN
MAHESANA
PANCHMAHALS
KACHCHH
GANDHINAGAR
KHEDA
DOHAD
SURENDRANAGAR
AHMADABAD
ANAND
RAJKOT
JAMNAGAR
VADODARA
BHAVNAGAR
BHARUCH
PORBANDAR
AMRELI
JUNAGADH
SURAT
NAVSARI
DANG
DIU
DAMAN
VALSAD
N
W
E
S
संकेत
भूजल स्तर में अस्थिरता
Legend
Water Level Fluctuation
Rise > 4m
Rise 2 - 4m
Rise < 2m
Fall < 2m
Fall 2 - 4m
Fall > 4m
Rann & Marsh रण व दलदल क्षेत्र
0
50
100
kilometers

Fig- 13


गुजरात एवं दमन व दीव (के. शा. प्र.)
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Gujarat and U t of Daman & Diu
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May 2015 - Nov 2015
PAKISTAN
RAJASTHAN
MADHYA PRADESH
MAHARASHTRA
ARABIAN SEA
BANASKANTHA
PATAN
KACHCHH
MAHESANA
GANDHINAGAR
AHMADABAD
KHEDA
PANCHMAHALS
DOHAD
ANAND
VADODARA
JAMNAGAR
RAJKOT
BHAVNAGAR
BHARUCH
NARMADA
PORBANDAR
AMRELI
JUNAGADH
SURAT
DIU
DANG
N
W
E
S
0
50
100
kilometres
संकेत
भूजल स्तर में अस्थिरता
Legend
Fluctuation of Water Level
Fall > 4m
Fall 2 - 4m
Fall < 2m
Rise < 2m
Rise 2 - 4m
Rise > 4m
Rann & Marsh रण व दलदल क्षेत्र

Table -9

CATEGORISATION OF CHANGES IN WATER LEVEL BETWEEN MAY 2015 TO AUGUST 2015

Sr. No.	District Name	No of well analysed	Range of Fluctuation (m)				No. of Wells 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	Ahmedabad	20	0.45	14.25	0.06	4.61	9	2	4	2	0	1	15	3
							45.00%	10.00%	20.00%	10.00%	0.00%	5.00%		
2	Anand	15	0.3	3.40	0.1	6.56	8	3	0	3	0	1	11	4
							53.33%	20.00%	0.00%	20.00%	0.00%	6.67%		
3	Banaskantha	18	1.08	15.2	0.05	2.33	2	7	7	1	1	0	16	2
							11.11%	38.89%	38.89%	5.56%	5.56%	0.00%		
4	Dohad	29	0.74	12.7	-	-	3	12	14	0	0	0	29	0
							10.34%	41.38%	48.28%	0.00%	0.00%	0.00%		
5	Gandhinagar	3	0.48	0.81	15.01	15.01	2	0	0	0	0	1	2	1
							66.67%	0.00%	0.00%	0.00%	0.00%	33.33%		
6	Kheda	22	0.2	4.24	0.6	0.92	8	10	2	2	0	0	20	2
							36.36%	45.45%	9.09%	9.09%	0.00%	0.00%		
7	Mahesana	21	0.76	11.19	0.97	8.13	8	7	3	1	0	2	18	3
							38.10%	33.33%	14.29%	4.76%	0.00%	9.52%		
8	Panchmahals	38	0.1	9.55	0.3	3.25	13	10	11	3	1	0	34	4
							34.21%	26.32%	28.95%	7.89%	2.63%	0.00%		
9	Patan	8	0.9	3.9	-	-	2	6	0	0	0	0	8	0
							25.00%	75.00%	0.00%	0.00%	0.00%	0.00%		
10	Sabarkantha	53	0.1	13.9	0.18	6.21	8	6	32	4	1	1	46	6
							15.09%	11.32%	60.38%	7.55%	1.89%	1.89%		
North Gujarat		**227**	**0.1**	**15.2**	**0.05**	**15.01**	**63**	**63**	**73**	**16**	**3**	**6**	**199**	**25**
							27.75%	27.75%	32.16%	7.05%	1.32%	2.64%		
11	Bharuch	25	0.24	7.17	0.21	4.59	6	2	3	11	1	1	11	13
							24.00%	8.00%	12.00%	44.00%	4.00%	4.00%		
12	Narmada	20	0.32	8.03	0.59	5.58	8	3	3	4	0	2	14	6
							40.00%	15.00%	15.00%	20.00%	0.00%	10.00%		
13	Navsari	18	0.06	11.63	0.26	8.75	7	5	4	1	0	1	16	2
							38.89%	27.78%	22.22%	5.56%	0.00%	5.56%		
14	Surat	51	0.02	13.84	0.3	1.84	26	12	11	2	0	0	49	2
							50.98%	23.53%	21.57%	3.92%	0.00%	0.00%		
15	The dangs	23	0.6	8.83	0.11	0.11	5	6	11	1	0	0	22	1
							21.74%	26.09%	47.83%	4.35%	0.00%	0.00%		
16	Vadodara	41	0.01	11.11	0.36	1.88	17	9	10	5	0	0	36	5
							41.46%	21.95%	24.39%	12.20%	0.00%	0.00%		
17	Valsad	17	0.52	11.97	3.81	3.81	3	6	7	0	1	0	16	1
							17.65%	35.29%	41.18%	0.00%	5.88%	0.00%		
South Gujarat		**195**	**0.01**	**13.84**	**0.11**	**8.75**	**72**	**43**	**49**	**24**	**2**	**4**	**164**	**30**
							36.92%	22.05%	25.13%	12.31%	1.03%	2.05%		
18	Amreli	51	0.05	11.69	0.07	5.72	16	9	17	7	1	1	42	9
							31.37%	17.65%	33.33%	13.73%	1.96%	1.96%		
19	Bhavnagar	40	0.06	11.54	0.27	9.15	14	8	9	5	2	2	31	9
							35.00%	20.00%	22.50%	12.50%	5.00%	5.00%		
20	Jamnagar	48	0.11	18.95	0.21	7.9	15	8	13	7	2	2	36	11
							31.25%	16.67%	27.08%	14.58%	4.17%	4.17%		
21	Junagadh	60	0.2	16.38	0.07	6.62	15	14	20	7	3	1	49	11
							25.00%	23.33%	33.33%	11.67%	5.00%	1.67%		
22	Porbandar	27	0.14	11.68	0.01	13.75	8	3	5	8	2	1	16	11
							29.63%	11.11%	18.52%	29.63%	7.41%	3.70%		
23	Rajkot	46	0.51	10.45	0.02	4.55	10	5	16	7	5	2	31	14
							21.74%	10.87%	34.78%	15.22%	10.87%	4.35%		
24	Surendranagar	36	0.02	11.5	0.1	5.88	10	6	6	6	3	3	22	12
							27.78%	16.67%	16.67%	16.67%	8.33%	8.33%		
Saurashtra		**308**	**0.02**	**18.95**	**0.01**	**13.75**	**88**	**53**	**86**	**47**	**18**	**12**	**227**	**77**
							28.57%	17.21%	27.92%	15.26%	5.84%	3.90%		
25	**Kachchh**	**42**	**0.2**	**19.28**	-	-	**14**	**15**	**11**	**0**	**0**	**0**	**40**	**0**
							33.33%	35.71%	26.19%	0.00%	0.00%	0.00%		
Total		**772**	**0.01**	**19.28**	**0.01**	**15.01**	**237**	**174**	**219**	**87**	**23**	**22**	**630**	**132**
							30.70%	22.54%	28.37%	11.27%	2.98%	2.85%		
26	Daman	9	1.9	8.8	-	-	1	2	6	0	0	0	9	0
							11.11%	22.22%	66.67%	0.00%	0.00%	0.00%		
27	Diu	1	1.05	1.05	-	-	1	0	0	0	0	0	1	0
							100.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
UT of Daman & Diu		**10**	**1.05**	**8.8**	-	-	**2**	**2**	**6**	**0**	**0**	**0**	**10**	**0**
							20.00%	20.00%	60.00%	0.00%	0.00%	0.00%		
Grand Total		**782**	**0.01**	**19.28**	**0.01**	**15.01**	**239**	**176**	**225**	**87**	**23**	**22**	**640**	**132**
							30.56%	22.51%	28.77%	11.13%	2.94%	2.81%		

RODC, CGWB - WCR, Ahmedabad

Table -10

CATEGORISATION OF CHANGES IN WATER LEVEL BETWEEN MAY 2015 TO NOVEMBER 2015

Sr. No.	District Name	No of well analysed	Range of Fluctuation (m)				No. of Wells 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	Ahmedabad	19	0.4	14.75	0.08	4.61	8	3	3	3	0	1	14	4
							42.11%	15.79%	15.79%	15.79%	0.00%	5.26%		
2	Anand	15	0.41	2.52	0.04	2.9	9	2	0	2	2	0	11	4
							60.00%	13.33%	0.00%	13.33%	13.33%	0.00%		
3	Banaskantha	19	0.03	9.18	0.25	0.25	7	4	6	1	0	0	18	1
							36.84%	21.05%	31.58%	5.26%	0.00%	0.00%		
4	Dohad	29	0.2	7.7	-	-	15	8	5	0	0	0	28	0
							51.72%	27.59%	17.24%	0.00%	0.00%	0.00%		
5	Gandhinagar	4	0.26	2.23	0.32	0.41	1	1	0	2	0	0	4	0
							25.00%	25.00%	0.00%	50.00%	0.00%	0.00%		
6	Kheda	20	0.25	5.9	0.78	2	9	8	1	2	0	0	18	2
							45.00%	40.00%	5.00%	10.00%	0.00%	0.00%		
7	Mahesana	25	0.15	10.14	0.03	1.65	13	4	4	4	0	0	21	4
							52.00%	16.00%	16.00%	16.00%	0.00%	0.00%		
8	Panchmahals	39	0.2	20.3	0.2	4.4	14	8	6	9	1	1	28	11
							35.90%	20.51%	15.38%	23.08%	2.56%	2.56%		
9	Patan	9	0.54	2.8	-	-	8	1	0	0	0	0	9	0
							88.89%	11.11%	0.00%	0.00%	0.00%	0.00%		
10	Sabarkantha	50	0.2	11.2	0.1	4.5	11	7	25	4	0	1	43	5
							22.00%	14.00%	50.00%	8.00%	0.00%	2.00%		
North Gujarat		**229**	**0.03**	**20.3**	**0.03**	**4.61**	**95**	**46**	**50**	**27**	**3**	**3**	**194**	**31**
							41.48%	20.09%	21.83%	11.79%	1.31%	1.31%		
11	Bharuch	33	0.02	5.73	0.08	4.35	16	4	2	7	1	1	22	9
							48.48%	12.12%	6.06%	21.21%	3.03%	3.03%		
12	Narmada	20	0.03	6.11	0.11	7.4	12	1	3	1	0	2	16	3
							60.00%	5.00%	15.00%	5.00%	0.00%	10.00%		
13	Navsari	19	0.16	8.9	0.24	10.65	8	5	3	2	0	1	16	3
							42.11%	26.32%	15.79%	10.53%	0.00%	5.26%		
14	Surat	51	0.04	8.04	0.12	2.57	25	8	8	8	2	0	41	10
							49.02%	15.69%	15.69%	15.69%	3.92%	0.00%		
15	The dangs	23	0.48	8.43	0.01	1.41	4	8	8	3	0	0	20	3
							17.39%	34.78%	34.78%	13.04%	0.00%	0.00%		
16	Vadodara	44	0.18	9.88	0.05	3.28	13	7	7	11	3	0	27	14
							29.55%	15.91%	15.91%	25.00%	6.82%	0.00%		
17	Valsad	16	0.4	11.2	0.13	4.61	5	4	5	1	0	1	14	2
							31.25%	25.00%	31.25%	6.25%	0.00%	6.25%		
South Gujarat		**206**	**0.02**	**11.20**	**0.01**	**10.65**	**83**	**37**	**36**	**33**	**6**	**5**	**156**	**44**
							40.29%	17.96%	17.48%	16.02%	2.91%	2.43%		
18	Amreli	50	0.17	14.5	0.09	3.4	10	13	18	7	2	0	41	9
							20.00%	26.00%	36.00%	14.00%	4.00%	0.00%		
19	Bhavnagar	38	0.67	11.3	0.31	3.63	7	8	11	9	2	0	26	11
							18.42%	21.05%	28.95%	23.68%	5.26%	0.00%		
20	Jamnagar	49	0.33	6.75	0.05	15.5	12	10	12	8	2	3	34	13
							24.49%	20.41%	24.49%	16.33%	4.08%	6.12%		
21	Junagadh	62	0.09	12.94	0.15	8.9	12	13	20	10	2	5	45	17
							19.35%	20.97%	32.26%	16.13%	3.23%	8.06%		
22	Porbandar	29	0.09	8.16	0.04	3.74	15	2	2	4	6	0	19	10
							51.72%	6.90%	6.90%	13.79%	20.69%	0.00%		
23	Rajkot	45	0.12	13.55	0.01	1.75	13	5	19	8	0	0	37	8
							28.89%	11.11%	42.22%	17.78%	0.00%	0.00%		
24	Surendranagar	39	0.06	11.75	0.32	4.05	14	8	7	6	3	1	29	10
							35.90%	20.51%	17.95%	15.38%	7.69%	2.56%		
Saurashtra		**312**	**0.06**	**14.50**	**0.01**	**15.5**	**83**	**59**	**89**	**52**	**17**	**9**	**231**	**78**
							26.60%	18.91%	28.53%	16.67%	5.45%	2.88%		
25	**Kachchh**	**45**	**0.18**	**17.85**	**0.03**	**2.78**	**16**	**11**	**8**	**6**	**1**	**0**	**35**	**7**
							35.56%	24.44%	17.78%	13.33%	2.22%	0.00%		
Total		**792**	**0.02**	**20.30**	**0.01**	**15.5**	**277**	**153**	**183**	**118**	**27**	**17**	**616**	**160**
							34.97%	19.32%	23.11%	14.90%	3.41%	2.15%		
26	Daman	9	1.53	8.4	-	-	2	3	4	0	0	0	9	0
							22.22%	33.33%	44.44%	0.00%	0.00%	0.00%		
27	Diu	3	0.2	1.9	-	-	3	0	0	0	0	0	3	0
							100.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
UT of Daman & Diu		**12**	**0.2**	**8.4**	**0**	**0**	**5**	**3**	**4**	**0**	**0**	**0**	**12**	**0**
							41.67%	25.00%	33.33%	0.00%	0.00%	0.00%		
Grand Total		**804**	**0.02**	**20.30**	**0**	**15.5**	**282**	**156**	**187**	**118**	**27**	**17**	**628**	**160**
							35.07%	19.40%	23.26%	14.68%	3.36%	2.11%		

RODC, CGWB - WCR, Ahmedabad

3.2.3 May 2015 to January 2016

A perusal of **Fig 14** and **Table 11** reveals that about 66% of the total well in the Gujarat state and UT of Daman & Diu area have recorded rise in water level between May 2015 and January 2016. Fall in water level is observed mainly in Kachchh, Saurashtra and in eastern part of Gujarat in small isolated patches distributed sporadically all over Gujarat state. In the state, the maximum rise of 12.56 m is at Digas in Surat district whereas the maximum decline of 20.70 m is observed at Gadu in Junagadh district.

In North Gujarat region, water level rises mainly observed in 73% of the total well analysed and maximum rises (42%) are in less than 2 m. Fall of water level observed in all districts of the region except Gandhinagar.

The 75% of the total well in the area of south Gujarat have recorded rise and maximum (58%) in the range of 0 to 4 m of rise in the region. The fall is only 25% of total well and maximum (19%) in the range of 0 – 2 m.

Over all 51% of total well analysed are shown rise in water level in the entire Saurashtra region. About 35% of areas have shown rise of water level less than 4 m and 259% shows less than 2 m and are found in all the districts of Saurashtra region. Fall of water level is observed in all over the region with fall less than 2 m is observed in 29% of the region.

In Kachchh, 64% of the total well analysed recorded rise in water level. The rise and fall is mostly in the range of 0 – 2 m and of about 27% - 27% of the total well. Rise of water level more than 2 m has observed in 35% of the area.

In UT of Daman is showing both rise and fall in water level is observed in January 2016 as compered to May 2015 and maximum rise is 3.85 m but in UT of Diu only rise observed during the above mention period range of rise is 0.39 m to 3.29 m.

Fig- 14

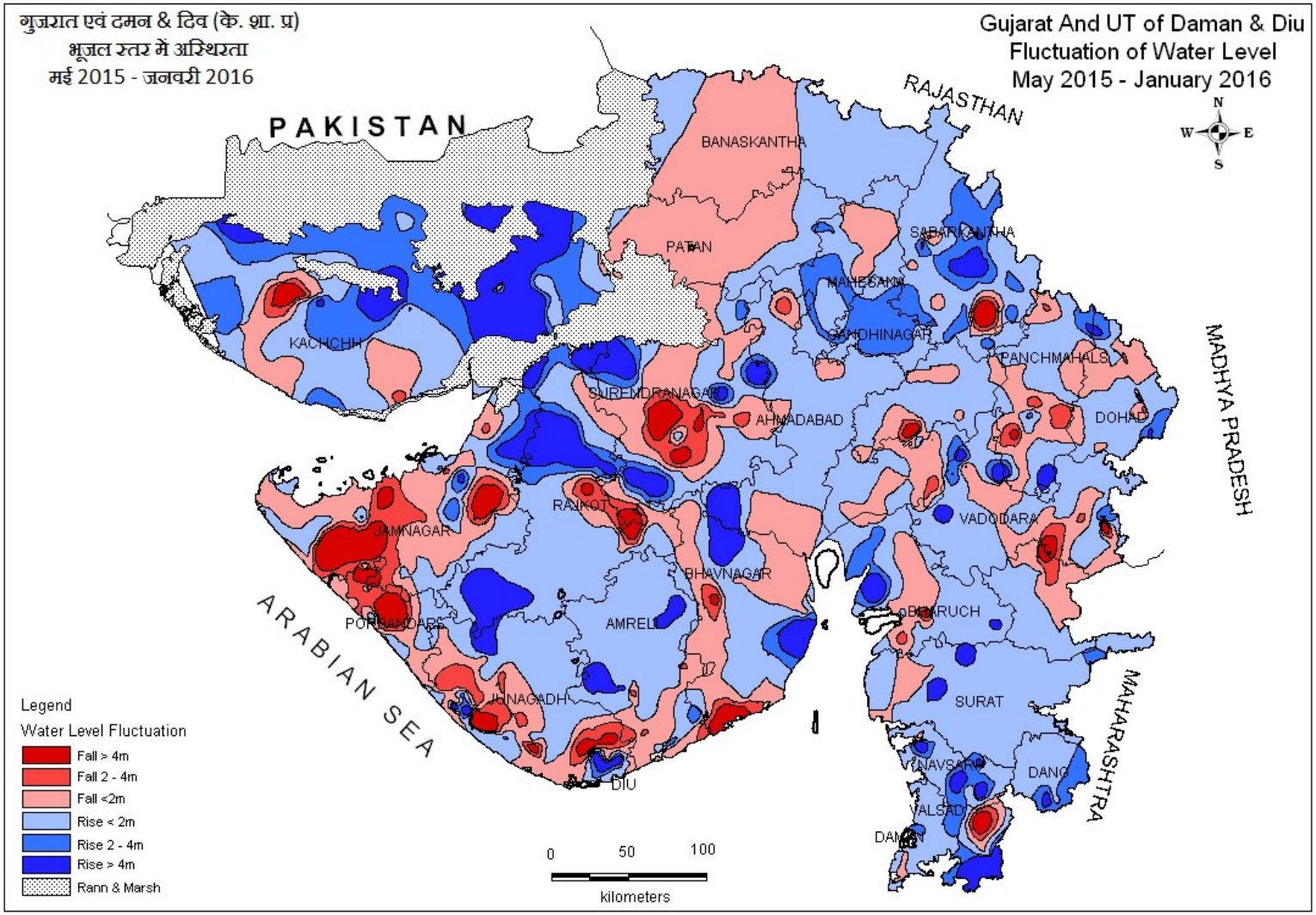

गुजरात एवं दमन & दिव (के. शा. प्र)
भूजल स्तर में अस्थिरता
मई 2015 - जनवरी 2016
Gujarat And UT of Daman & Diu
Fluctuation of Water Level
May 2015 - January 2016
PAKISTAN
RAJASTHAN
MADHYA PRADESH
MAHARASHTRA
ARABIAN SEA
BANASKANTHA
PATAN
SABARKANTHA
MAHESANA
GANDHINAGAR
PANCHMAHALS
KACHCHH
SURENDRANAGAR
AHMADABAD
DOHAD
RAJKOT
JAMNAGAR
VADODARA
BHAVNAGAR
PORBANDAR
AMRELI
BHARUCH
JUNAGADH
SURAT
NAVSARI
DANG
DIU
VALSAD
DAMAN
Legend
Water Level Fluctuation
Fall > 4m
Fall 2 - 4m
Fall <2m
Rise < 2m
Rise 2 - 4m
Rise > 4m
Rann & Marsh
0
50
100
kilometers

Table -11

CATEGORISATION OF CHANGES IN WATER LEVEL BETWEEN MAY 2015 TO JANUARY 2016

Sr. No.	District Name	No of well analysed	Range of Fluctuation (m)				No. of Wells 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	Ahmedabad	20	0.42	12.45	0.33	3.5	9	1	3	5	1	0	13	6
							45.00%	5.00%	15.00%	25.00%	5.00%	0.00%		
2	Anand	17	0.23	2.08	0.03	3.37	5	2	0	7	3	0	7	10
							29.41%	11.76%	0.00%	41.18%	17.65%	0.00%		
3	Banaskantha	20	0.3	8.6	0.5	0.81	6	6	6	2	0	0	18	2
							30.00%	30.00%	30.00%	10.00%	0.00%	0.00%		
4	Dohad	28	0.08	5.23	0.01	4.2	14	1	2	6	2	1	17	9
							50.00%	3.57%	7.14%	21.43%	7.14%	3.57%		
5	Gandhinagar	3	0.39	3.29	-	-	1	2	0	0	0	0	3	0
							33.33%	66.67%	0.00%	0.00%	0.00%	0.00%		
6	Kheda	20	0.32	2.71	0.11	8.8	10	2	0	6	1	1	12	8
							50.00%	10.00%	0.00%	30.00%	5.00%	5.00%		
7	Mahesana	25	0.07	9.62	0.43	1.4	14	5	3	3	0	0	22	3
							56.00%	20.00%	12.00%	12.00%	0.00%	0.00%		
8	Panchmahals	38	0.04	9.3	0.17	5.36	17	2	1	9	5	1	20	15
							44.74%	5.26%	2.63%	23.68%	13.16%	2.63%		
9	Patan	9	0.2	1.67	0.51	1.37	6	0	0	3	0	0	6	3
							66.67%	0.00%	0.00%	33.33%	0.00%	0.00%		
10	Sabarkantha	47	0.06	10.53	0.23	11.77	13	19	9	4	1	1	41	6
							27.66%	40.43%	19.15%	8.51%	2.13%	2.13%		
North Gujarat		**227**	**0.04**	**12.45**	**0.01**	**11.77**	**95**	**40**	**24**	**45**	**13**	**4**	**159**	**62**
							41.85%	17.62%	10.57%	19.82%	5.73%	1.76%		
11	Bharuch	34	0.09	8.4	0.35	6.93	16	2	3	9	1	1	21	11
							47.06%	5.88%	8.82%	26.47%	2.94%	2.94%		
12	Narmada	19	0.1	3.04	0.22	8.33	9	2	0	4	1	1	11	6
							47.37%	10.53%	0.00%	21.05%	5.26%	5.26%		
13	Navsari	19	0.12	9	0.54	1.78	10	2	3	3	0	0	15	3
							52.63%	10.53%	15.79%	15.79%	0.00%	0.00%		
14	Surat	51	0.07	12.56	0.06	6.62	22	7	4	12	3	1	33	16
							43.14%	13.73%	7.84%	23.53%	5.88%	1.96%		
15	The dangs	23	0.5	4.78	-	-	13	5	5	0	0	0	23	0
							56.52%	21.74%	21.74%	0.00%	0.00%	0.00%		
16	Vadodara	48	0.02	9.92	0.01	9.21	22	2	7	10	3	1	31	14
							45.83%	4.17%	14.58%	20.83%	6.25%	2.08%		
17	Valsad	17	0.02	8.5	0.2	7.71	6	5	2	3	0	1	13	4
							35.29%	29.41%	11.76%	17.65%	0.00%	5.88%		
South Gujarat		**211**	**0.02**	**12.56**	**0.01**	**9.21**	**98**	**25**	**24**	**41**	**8**	**5**	**147**	**54**
							46.45%	11.85%	11.37%	19.43%	3.79%	2.37%		
18	Amreli	50	0.13	8.4	0.19	4.36	15	6	11	13	4	1	32	18
							30.00%	12.00%	22.00%	26.00%	8.00%	2.00%		
19	Bhavnagar	39	0.05	8.9	0.06	7.96	12	3	3	16	2	2	18	20
							30.77%	7.69%	7.69%	41.03%	5.13%	5.13%		
20	Jamnagar	49	0.2	5.32	0.3	16.95	12	5	3	12	7	5	20	24
							24.49%	10.20%	6.12%	24.49%	14.29%	10.20%		
21	Junagadh	61	0.1	11.14	0.08	20.7	14	5	8	19	8	7	27	34
							22.95%	8.20%	13.11%	31.15%	13.11%	11.48%		
22	Porbandar	29	0.01	4.51	0.09	17.5	5	2	1	11	6	4	8	21
							17.24%	6.90%	3.45%	37.93%	20.69%	13.79%		
23	Rajkot	45	0.09	11.05	0.14	8.87	11	5	17	7	3	2	33	12
							24.44%	11.11%	37.78%	15.56%	6.67%	4.44%		
24	Surendranagar	39	0.05	10.65	0.04	11.71	10	3	5	13	3	3	18	19
							25.64%	7.69%	12.82%	33.33%	7.69%	7.69%		
Saurashtra		**312**	**0.01**	**11.14**	**0.04**	**20.7**	**79**	**29**	**48**	**91**	**33**	**24**	**156**	**148**
							25.32%	9.29%	15.38%	29.17%	10.58%	7.69%		
25	**Kachchh**	**49**	**0.17**	**16.6**	**0.06**	**13.1**	**13**	**8**	**9**	**13**	**1**	**1**	**30**	**15**
							26.53%	16.33%	18.37%	26.53%	2.04%	2.04%		
Total		**799**	**0.01**	**16.60**	**0.01**	**20.7**	**285**	**102**	**105**	**190**	**55**	**34**	**492**	**279**
							35.67%	12.77%	13.14%	23.78%	6.88%	4.26%		
26	Daman	9	0.65	3.85	0.48	0.48	3	5	0	1	0	0	8	1
							33.33%	55.56%	0.00%	11.11%	0.00%	0.00%		
27	Diu	3	0.39	3.29	-	-	2	0	0	1	0	0	2	1
							66.67%	0.00%	0.00%	33.33%	0.00%	0.00%		
UT of Daman & Diu		**12**	**0.39**	**3.85**	**0**	**0.48**	**5**	**5**	**0**	**2**	**0**	**0**	**10**	**2**
							41.67%	41.67%	0.00%	16.67%	0.00%	0.00%		
Grand Total		**811**	**0.01**	**16.60**	**0**	**20.7**	**290**	**107**	**105**	**192**	**55**	**34**	**502**	**281**
							35.76%	13.19%	12.95%	23.67%	6.78%	4.19%		

RODC, CGWB - WCR, Ahmedabad

3.3 Annual Water Level Fluctuation

Annual Fluctuation in the water levels of the ground water monitoring wells during different monitoring periods were analysed graphically and depicted in **Fig. 15 (a,b,c & d)**.

Fig : 15 a

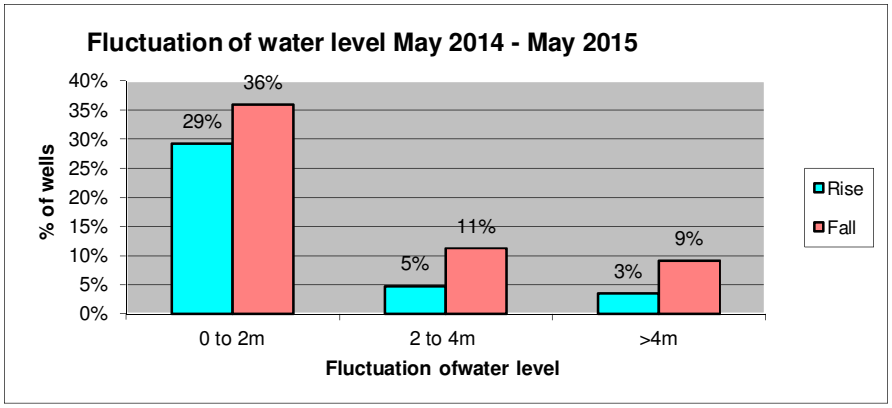


Fig : 15b

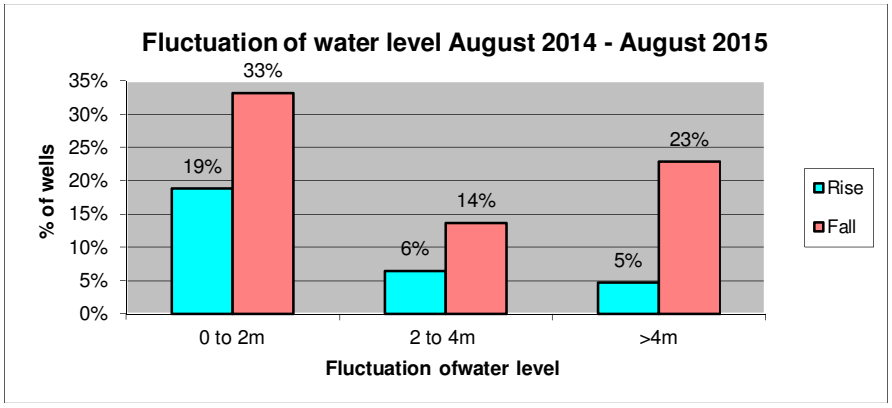


Fig: 15c

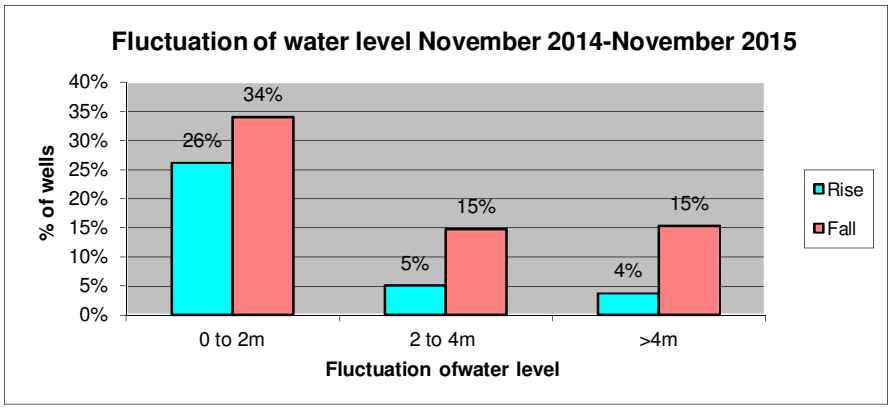
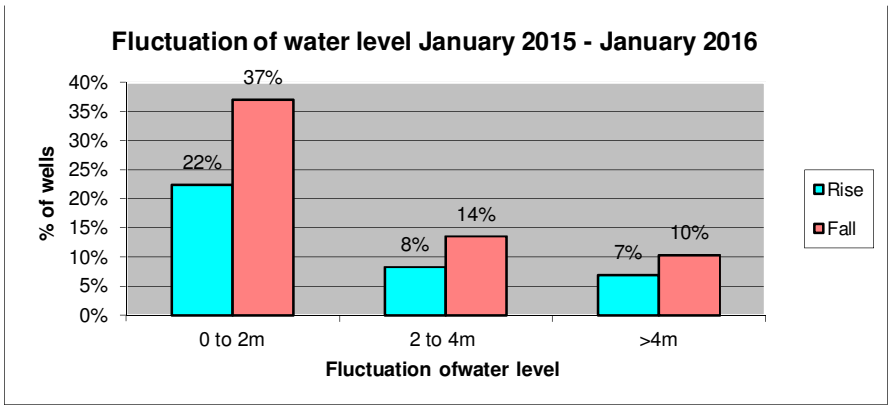


Fig : 15d



3.3.1 May 2014 to May 2015

A perusal **of Fig 16** and **Table 12** reveals that 56% of the state shows a fall in water level. Fall of 0-2 m is observed in about 36% area of the state. More than 4m fall is (9% area of the state) in adjoining area of Jamnagar, Porbandar, Surendranagar, Amreli and Junagarh in Saurashtra region, and in Kachchh. Rise in water level is observed mainly in parts of North Gujarat , small isolated patches scattered in rest of the area of Gujarat. Rise is also mainly in the range of 0-2 m and covers about 30% of area of the state. The maximum rise of 21.30 m is recorded in Gadu in Jamnagar district, whereas the maximum decline of 19.15 m is recorded in Samkhiri of Kachchh district.

About 60% of the area observed fall of water level in the North Gujarat and most of which (40% area) is in the range of 0 to 2m. Fall of more than 4 m is mostly seen as isolated patches in the region. Rise of water level mostly observed in Banaskantha and Patan districts. In other areas rise mostly observed as isolated loactions.

South Gujarat region shows fall in water level in the range of 0-2 m and covers an area of about 37 % of the region. Rise in water level is observed in the range of 0-2 m in 34 % of area. Rise and fall of more than 2 m has observed at few locations.

About 30% of the Saurashtra region has experienced rise of 0-2 m range. Fall of more than 2 m is predominantly found in Porbandar, Amreli, Jamnagar, Junagarh and Bhavnagar and covers an area of 25 % area of the region. 0-2 m rise is observed in 31% area of the region.

In Kachchh region, 36% of the area is covered by a rise in water level less than 2 m. About 30% of area shows rise of 0 to 2 m in central and Eastern part of the area. Rise or fall of more than 2 m has observed in isolated locations.

In the UT of Diu shows only fall in water level 0.06 m. But UT of Daman recored both rise and fall the range is less the than 2m for rise and 0.02 to 2.81m as fall.

3.3.2 August 2014 to August 2015

A perusal of **Fig 17** and **Table 13** reveals that 70% of the Gujarat state and UT of Daman & Diu shows a fall in water level. Fall in water level with in range of 0 – 2 m is observed in about 33% area of the state. Rise in the range of 0 – 2 m covers about 19% area of the state. Fall of more than 2 m & 4m is found in South and Central Gujarat & Saurashtra region. The maximum rise of 14.45 m is recorded in Gagondara of Banaskantha district whereas the maximum decline of 18.15 m is recorded in Kasturinagar of Gandhinagar district.

About 51% of the area observed fall of water level in the North Gujarat and most of which (33% area) is in the range of 0 to 2m of fluctuation of water level. Fall of more than 4 m is mostly seen in 15% of the region mostly in Ahmedabad, Gandhinagar, Pachmahals and Sabarkantha districts. Rise of 0 – 2 m range is observed in 23 % area of the region. Rise of water level in the range of 2 to 4 and more than 4 m are scattered as isolated patches in the region.

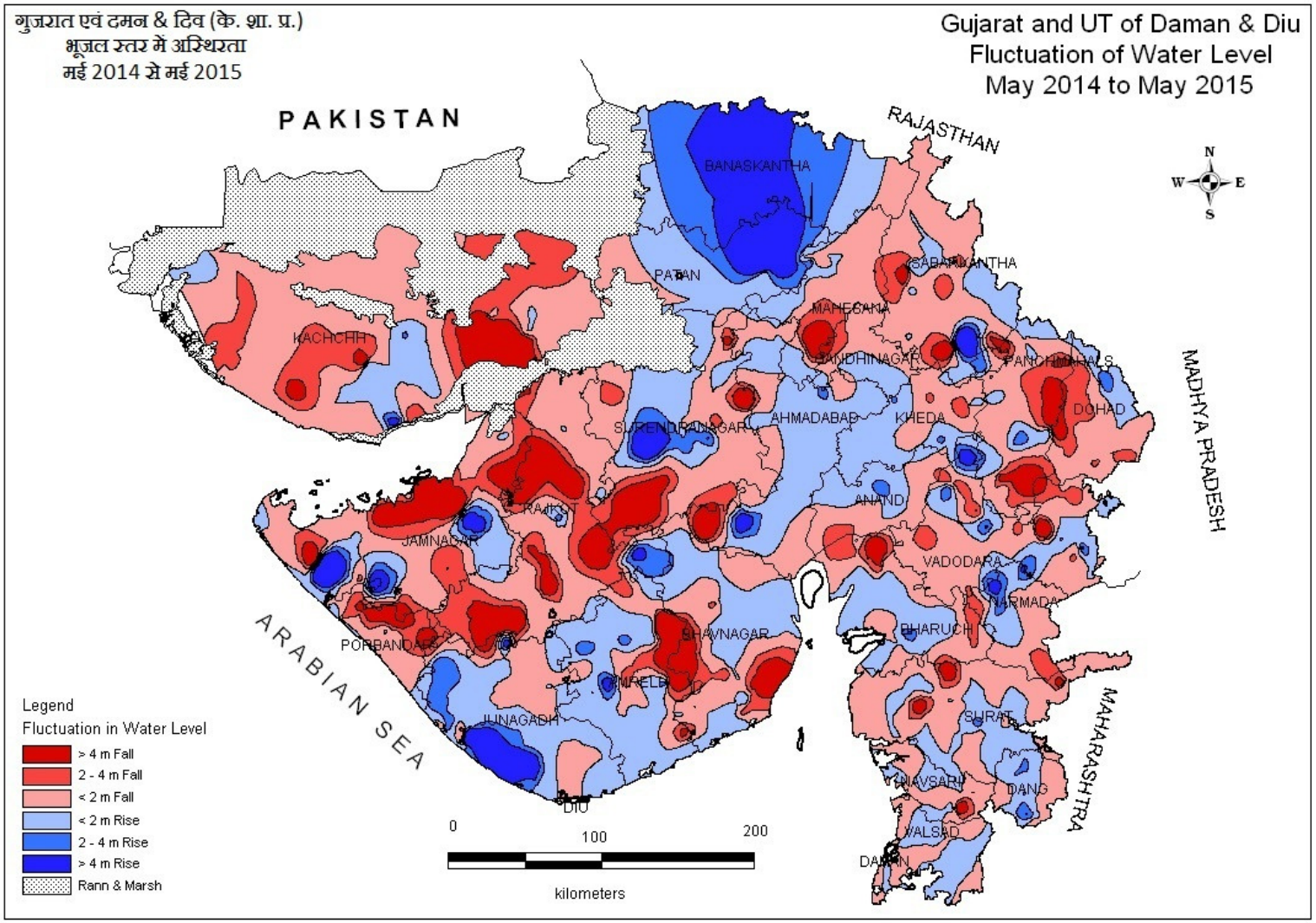
In South Gujarat region, 84% area shows fall in water level and in the range of 0 – 2 m covers 54% area in the region. Rise in water level is observed maximum in the range of 0 – 2 m in 12 % of the area out of 16% total rise.

About 75% of the Saurashtra region has experienced fall of water level and in the range of >4 m is 36% of the total area. Rise of water level in 25 % with less than 2 m range is 16% of the total number of wells analysed.

In Kachchh region, 70% of the area is covered by a rise in water level of less than 2 m. About 30% of area shows fall in water level of which 0 to 2 m cover 23% of the district. Fall of more than 4 m is observed in 8% of the area located in eastern and western part of the district.

In the UT of Diu shows only rise in water level with maximum 3.4 m. In UT of Daman shows both rise and fall in water level rise is 0.14m and fall in the range of 0.55 to 2.75m.

Fig- 16


गुजरात एवं दमन & दिव (के. शा. प्र.)
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SABARKANTHA
MAHESANA
KACHCHH
GANDHINAGAR
PANCHMAHALS
DOHAD
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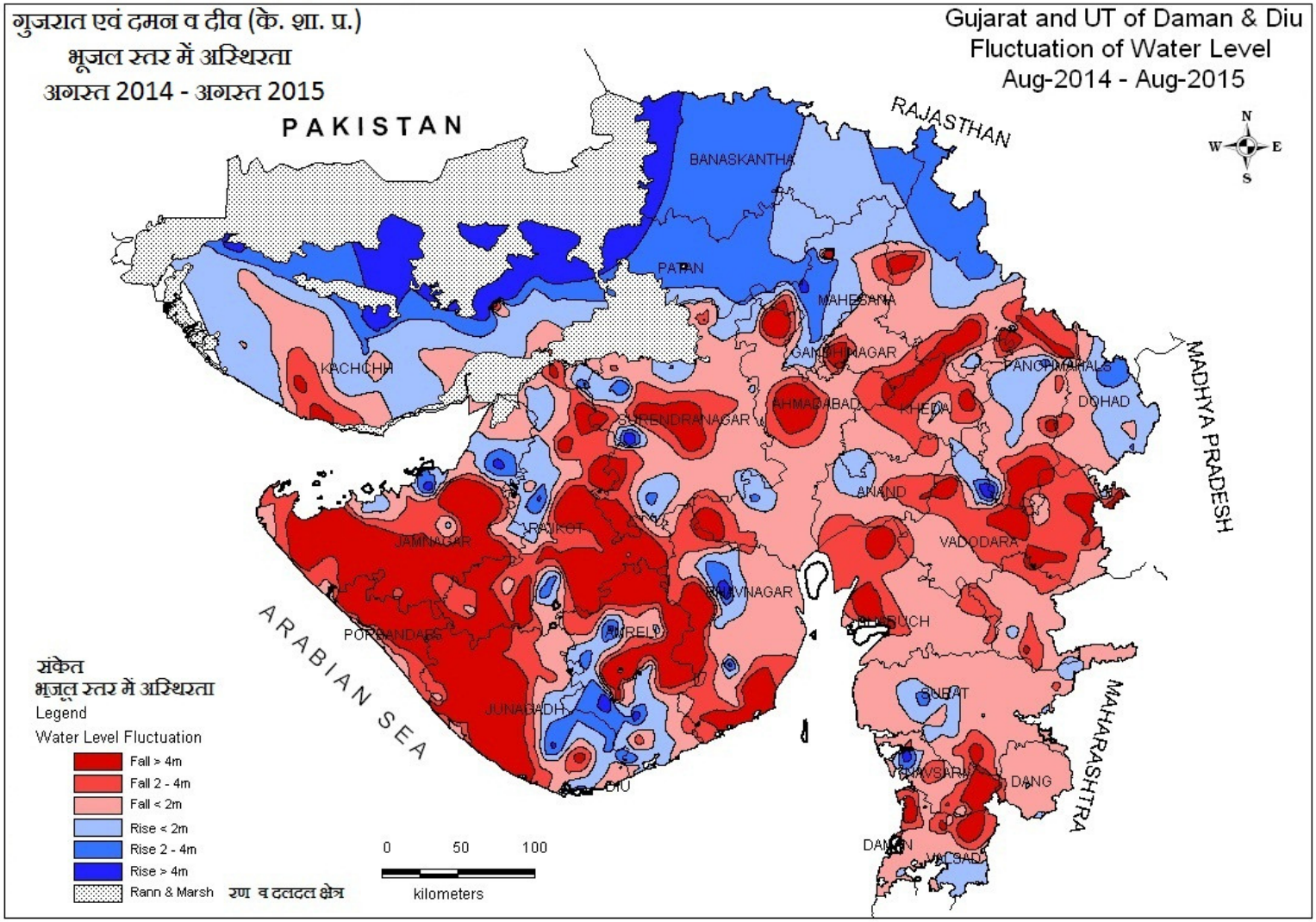
AHMADABAD
KHEDA
ANAND
RAJKOT
JAMNAGAR
VADODARA
NARMADA
PORBANDAR
BHAVNAGAR
BHARUCH
AMRELI
JUNAGADH
SURAT
NAVSARI
DANG
DIU
VALSAD
DAMAN
Legend
Fluctuation in Water Level
> 4 m Fall
2 - 4 m Fall
< 2 m Fall
< 2 m Rise
2 - 4 m Rise
> 4 m Rise
Rann & Marsh
0
100
200
kilometers
N
S
E
W

Fig- 17


गुजरात एवं दमन व दीव (के. शा. प्र.)
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PAKISTAN
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MADHYA PRADESH
MAHARASHTRA
ARABIAN SEA
BANASKANTHA
PATAN
MAHESANA
GANDHINAGAR
PANCHMAHALS
DOHAD
KACHCHH
AHMADABAD
KHEDA
SURENDRANAGAR
ANAND
RAJKOT
JAMNAGAR
VADODARA
BHAVNAGAR
BHARUCH
PORBANDAR
AMRELI
SURAT
JUNAGADH
DIU
NAVSARI
DANG
DAMAN
VALSAD
N
W
E
S
संकेत
भूजल स्तर में अस्थिरता
Legend
Water Level Fluctuation
Fall > 4m
Fall 2 - 4m
Fall < 2m
Rise < 2m
Rise 2 - 4m
Rise > 4m
Rann & Marsh रण व दलदल क्षेत्र
0
50
100
kilometers

Table - 12

CATEGORISATION OF CHANGES IN WATER LEVEL BETWEEN MAY 2014 TO MAY 2015

Sr. No.	District Name	No of well analysed	Range of Fluctuation (m)				No. of Wells 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	Ahmedabad	20	0.03	7.25	0.04	12.77	6	0	2	7	0	2	8	9
							30.00%	0.00%	10.00%	35.00%	0.00%	10.00%		
2	Anand	11	0.2	2.73	0.07	1.6	4	1	0	6	0	0	5	6
							36.36%	9.09%	0.00%	54.55%	0.00%	0.00%		
3	Banaskantha	20	0.45	0.45	0.15	4.3	1	0	0	12	4	2	1	18
							5.00%	0.00%	0.00%	60.00%	20.00%	10.00%		
4	Dohad	22	0.04	2.75	0.22	6.86	2	1	0	13	5	0	3	19
							9.09%	4.55%	0.00%	59.09%	22.73%	0.00%		
5	Gandhinagar	4	0.03	0.59	0.55	0.55	3	0	0	1	0	0	3	1
							75.00%	0.00%	0.00%	25.00%	0.00%	0.00%		
6	Kheda	16	0.25	3.82	0.15	3.47	4	3	0	7	2	0	7	9
							25.00%	18.75%	0.00%	43.75%	12.50%	0.00%		
7	Mahesana	23	0.26	4.05	0.04	7.95	12	0	1	5	1	1	13	10
							52.17%	0.00%	4.35%	21.74%	4.35%	4.35%		
8	Panchmahals	27	0.35	4.03	0.22	8.33	5	0	1	9	5	6	6	20
							18.52%	0.00%	3.70%	33.33%	18.52%	22.22%		
9	Patan	7	0.17	11.7	0.15	0.15	3	1	1	1	0	0	5	1
							42.86%	14.29%	14.29%	14.29%	0.00%	0.00%		
10	Sabarkantha	37	0.19	11.64	0.19	9.62	10	0	1	14	5	4	11	23
							27.03%	0.00%	2.70%	37.84%	13.51%	10.81%		
North Gujarat		**187**	**0.03**	**11.7**	**0.04**	**12.77**	**50**	**6**	**6**	**75**	**22**	**15**	**62**	**116**
							26.74%	3.21%	3.21%	40.11%	11.76%	8.02%		
11	Bharuch	30	0.04	4.55	0.11	9.32	15	0	1	8	3	2	16	13
							50.00%	0.00%	3.33%	26.67%	10.00%	6.67%		
12	Narmada	16	0.04	5.58	0.41	4.04	3	2	2	5	1	1	7	7
							18.75%	12.50%	12.50%	31.25%	6.25%	6.25%		
13	Navsari	19	0.03	1.01	0.12	8.3	7	0	0	8	1	1	7	10
							36.84%	0.00%	0.00%	42.11%	5.26%	5.26%		
14	Surat	50	0.01	2.89	0.04	7.12	18	1	0	21	0	3	19	24
							36.00%	2.00%	0.00%	42.00%	0.00%	6.00%		
15	The dangs	23	0.05	4.18	0.04	1.75	7	4	1	9	0	0	12	9
							30.43%	17.39%	4.35%	39.13%	0.00%	0.00%		
16	Vadodara	39	0.03	6.37	0.17	12.5	9	2	3	12	7	2	14	21
							23.08%	5.13%	7.69%	30.77%	17.95%	5.13%		
17	Valsad	17	0.05	1.82	0.03	2.05	7	0	0	9	1	0	7	10
							41.18%	0.00%	0.00%	52.94%	5.88%	0.00%		
South Gujarat		**194**	**0.01**	**6.37**	**0.03**	**12.50**	**66**	**9**	**7**	**72**	**13**	**9**	**82**	**94**
							34.02%	4.64%	3.61%	37.11%	6.70%	4.64%		
18	Amreli	43	0.2	6.4	0.31	16.15	21	5	1	8	4	2	27	14
							48.84%	11.63%	2.33%	18.60%	9.30%	4.65%		
19	Bhavnagar	36	0.02	1.34	0.03	12.88	20	0	0	8	4	3	20	15
							55.56%	0.00%	0.00%	22.22%	11.11%	8.33%		
20	Jamnagar	49	0.01	18.2	0.25	15.95	10	1	3	14	7	11	14	32
							20.41%	2.04%	6.12%	28.57%	14.29%	22.45%		
21	Junagadh	52	0.1	21.3	0.03	3.28	18	9	3	16	4	0	8	33
							34.62%	17.31%	5.77%	30.77%	7.69%	0.00%		
22	Porbandar	25	0.09	8.81	0.05	12.15	7	0	1	9	3	5	8	17
							28.00%	0.00%	4.00%	36.00%	12.00%	20.00%		
23	Rajkot	43	0.1	5.31	0.17	11.5	3	1	1	16	10	11	5	37
							6.98%	2.33%	2.33%	37.21%	23.26%	25.58%		
24	Surendranagar	34	0.27	12.61	0.09	10	8	2	2	14	3	5	12	22
							23.53%	5.88%	5.88%	41.18%	8.82%	14.71%		
Saurashtra		**282**	**0.01**	**21.30**	**0.03**	**16.15**	**87**	**18**	**11**	**85**	**35**	**37**	**94**	**170**
							30.85%	6.38%	3.90%	30.14%	12.41%	13.12%		
25	**Kachchh**	**45**	**0.22**	**5.8**	**0.05**	**19.15**	**6**	**1**	**1**	**19**	**10**	**4**	**8**	**33**
							13.33%	2.22%	2.22%	42.22%	22.22%	8.89%		
Total		**708**	**0.01**	**21.30**	**0.03**	**19.15**	**209**	**34**	**25**	**251**	**80**	**65**	**246**	**413**
							29.52%	4.80%	3.53%	35.45%	11.30%	9.18%		
26	Daman	9	0.02	0.02	0.02	2.81	1	0	0	6	1	0	1	7
							11.11%	0.00%	0.00%	66.67%	11.11%	0.00%		
27	Diu	1	-	-	0.06	0.06	0	0	0	1	0	0	0	1
							0.00%	0.00%	0.00%	100.00%	0.00%	0.00%		
UT of Daman & Diu		**10**	**0.02**	**0.02**	**0.02**	**2.81**	**1**	**0**	**0**	**7**	**1**	**0**	**1**	**8**
							10.00%	0.00%	0.00%	70.00%	10.00%	0.00%		
Grand Total		**718**	**0.01**	**21.30**	**0.03**	**19.15**	**210**	**34**	**25**	**258**	**81**	**65**	**247**	**421**
							29.25%	4.74%	3.48%	35.93%	11.28%	9.05%		

RODC, CGWB - WCR, Ahmedabad

Table -13

CATEGORISATION OF CHANGES IN WATER LEVEL BETWEEN AUGUST 2014 TO AUGUST 2015

Sr. No.	District Name	No of well analysed	Range of Fluctuation (m)				No. of Wells 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	Ahmedabad	22	1.57	6.62	0.17	11.56	1	0	1	13	1	6	2	20
							4.55%	0.00%	4.55%	59.09%	4.55%	27.27%		
2	Anand	9	1.35	1.35	1.12	4.09	1	0	0	4	3	1	1	8
							11.11%	0.00%	0.00%	44.44%	33.33%	11.11%		
3	Banaskantha	17	0.01	14.05	0.85	4.96	5	3	1	2	3	1	12	5
							29.41%	17.65%	5.88%	11.76%	17.65%	5.88%		
4	Dohad	20	0.2	3.28	0.11	2.5	4	3	0	11	2	0	7	13
							20.00%	15.00%	0.00%	55.00%	10.00%	0.00%		
5	Gandhinagar	4	0.32	0.32	1.32	18.15	1	0	0	2	0	1	1	3
							25.00%	0.00%	0.00%	50.00%	0.00%	25.00%		
6	Kheda	14	0.04	0.5	0.69	6.1	3	0	0	5	3	3	3	11
							21.43%	0.00%	0.00%	35.71%	21.43%	21.43%		
7	Mahesana	20	0.01	5.85	1.8	10.13	7	6	3	1	2	1	16	4
							35.00%	30.00%	15.00%	5.00%	10.00%	5.00%		
8	Panchmahals	25	0.25	2.65	0.7	17.9	6	2	0	8	2	7	8	17
							24.00%	8.00%	0.00%	32.00%	8.00%	28.00%		
9	Patan	7	0.3	3.12	-	-	4	3	0	0	0	0	7	0
							57.14%	42.86%	0.00%	0.00%	0.00%	0.00%		
10	Sabarkantha	32	0.06	9.37	0.05	8.62	7	5	5	9	1	5	17	15
							21.88%	15.63%	15.63%	28.13%	3.13%	15.63%		
North Gujarat		**170**	**0.01**	**14.05**	**0.05**	**18.15**	**39**	**22**	**10**	**55**	**17**	**25**	**74**	**96**
							22.94%	12.94%	5.88%	32.35%	10.00%	14.71%		
11	Bharuch	21	-	-	0.56	8.74	0	0	0	11	6	4	0	21
							0.00%	0.00%	0.00%	52.38%	28.57%	19.05%		
12	Narmada	10	0.87	0.87	0.15	5.04	1	0	0	3	4	2	1	9
							10.00%	0.00%	0.00%	30.00%	40.00%	20.00%		
13	Navsari	17	2.55	6.2	0.47	12.05	0	1	1	9	2	4	2	15
							0.00%	5.88%	5.88%	52.94%	11.76%	23.53%		
14	Surat	42	0.06	3.55	0.08	5.04	10	1	0	26	4	1	11	31
							23.81%	2.38%	0.00%	61.90%	9.52%	2.38%		
15	The dangs	22	0.02	0.12	0.7	4.45	2	0	0	18	1	1	2	20
							9.09%	0.00%	0.00%	81.82%	4.55%	4.55%		
16	Vadodara	28	0.89	6.7	0.11	5.94	2	0	1	8	8	9	3	25
							7.14%	0.00%	3.57%	28.57%	28.57%	32.14%		
17	Valsad	18	0.08	0.33	0.24	11.43	5	0	0	9	1	3	5	13
							27.78%	0.00%	0.00%	50.00%	5.56%	16.67%		
South Gujarat		**158**	**0.02**	**6.70**	**0.08**	**12.05**	**20**	**2**	**2**	**84**	**26**	**24**	**24**	**134**
							12.66%	1.27%	1.27%	53.16%	16.46%	15.19%		
18	Amreli	41	0.03	8.85	0.04	14.15	12	4	4	7	4	10	20	21
							29.27%	9.76%	9.76%	17.07%	9.76%	24.39%		
19	Bhavnagar	35	0.1	7.77	0.08	14.95	7	1	2	13	4	8	10	25
							20.00%	2.86%	5.71%	37.14%	11.43%	22.86%		
20	Jamnagar	37	0.29	5.56	0.24	15.56	6	0	2	5	8	16	8	29
							16.22%	0.00%	5.41%	13.51%	21.62%	43.24%		
21	Junagadh	40	0.8	4.45	0.15	14.44	1	2	1	8	12	16	4	36
							2.50%	5.00%	2.50%	20.00%	30.00%	40.00%		
22	Porbandar	23	-	-	0.38	15.72	0	0	0	6	2	15	0	23
							0.00%	0.00%	0.00%	26.09%	8.70%	65.22%		
23	Rajkot	51	0.1	4.4	0.35	16.1	9	4	1	9	6	22	14	37
							17.65%	7.84%	1.96%	17.65%	11.76%	43.14%		
24	Surendranagar	36	0.1	7.55	0.05	7.02	6	3	1	12	7	7	10	26
							16.67%	8.33%	2.78%	33.33%	19.44%	19.44%		
Saurashtra		**263**	**0.03**	**8.85**	**0.04**	**16.1**	**41**	**14**	**11**	**60**	**43**	**94**	**66**	**197**
							15.59%	5.32%	4.18%	22.81%	16.35%	35.74%		
25	**Kachchh**	**40**	**0.2**	**9.85**	**0.23**	**5.8**	**19**	**2**	**7**	**9**	**0**	**3**	**28**	**12**
							47.50%	5.00%	17.50%	22.50%	0.00%	7.50%		
Total		**631**	**0.01**	**14.05**	**0.04**	**18.15**	**119**	**40**	**30**	**208**	**86**	**146**	**192**	**439**
							18.86%	6.34%	4.75%	32.96%	13.63%	23.14%		
26	Daman	6	0.14	0.14	0.55	2.75	1	0	0	4	1	0	1	5
							16.67%	0.00%	0.00%	66.67%	16.67%	0.00%		
27	Diu	2	3.4	3.4	-	-	0	1	0	0	0	0	1	0
							0.00%	50.00%	0.00%	0.00%	0.00%	0.00%		
UT of Daman & Diu		**8**	**0.14**	**3.4**	**0.55**	**2.75**	**1**	**1**	**0**	**4**	**1**	**0**	**2**	**5**
							12.50%	12.50%	0.00%	50.00%	12.50%	0.00%		
Grand Total		**639**	**0.01**	**14.05**	**0.04**	**18.15**	**120**	**41**	**30**	**212**	**87**	**146**	**194**	**444**
							18.78%	6.42%	4.69%	33.18%	13.62%	22.85%		

RODC, CGWB - WCR, Ahmedabad

3.3.3. November 2014 to November 2015

A perusal of **Fig 18** and **Table 14** reveals that 36% shows a rise and 64% shows fall in water level of the Gujarat state and UT of Daman & Diu. Fall in water level within range of 0 – 2 m is observed in about 34%, 2 – 4 m in 15% and more than 4 m in 15% of the total well in the state and UT of Daman and Diu. Rise in the water level is in the range of less than 2m and is about 26 % of the total area. The maximum rise of 16.61 m is recorded in Khundhali of Bhavnagar district whereas the maximum decline of 22.20 m is recorded in Hanumnagrah of Porbandar district.

About 68% of the total well shows fall of water level in the North Gujarat and most of which (40%) shows fluctuation in the range of 0 to 2 m of water level. Fall of more than 4 m is mostly seen in the parts of Ahmedabad, Kheda Sabarkantha districts in 13% of total well analysed in the region. Rise of 0 – 2 m range is observed in 32% of the total well found mainly in the northern and central part of the north Gujarat region.

In South Gujarat region, 66% of total well analyzed shows fall in water level and in the range of 0 – 2 m represents 45% of well in the region. Fall of water level in 2 to 4 m and more than 4 m mainly observed in Surat, Valsad, and Navsari districts representing 21% of the total well in south Gujarat region. Rise in water level is observed maximum in the range of 0 – 2 m in 30 % of the total well analyzed lying mainly in Bharuch, Vadodara, Valsad and Narmada districts of the region.

About 67% of the Saurashtra region has experienced fall in water level and fall in the range of more than 4 m represents about 25% of the total well analysed. Fall of water level more than 4 m is predominantly found in all district of the region. Rise in water level found in isolated patches scattered mainly in Amreli, Rajkot, Junagardh, Jamnagar and Surendranagar district.

In Kachchh region, 67% of the total well analysed shows rise in water level and 34% shows fall in the range of 0 – 2 m. Fall of more than 4 m is observed as isolated patches in the area located in eastern and central east part of the district. The rise in water level 32% in the range of less than 2m.

In the UT of Daman and Diu, rise and fall both were found the range of rise is .04 to 2.09m and fall is 0.02 to 1.22m.

Fig- 18

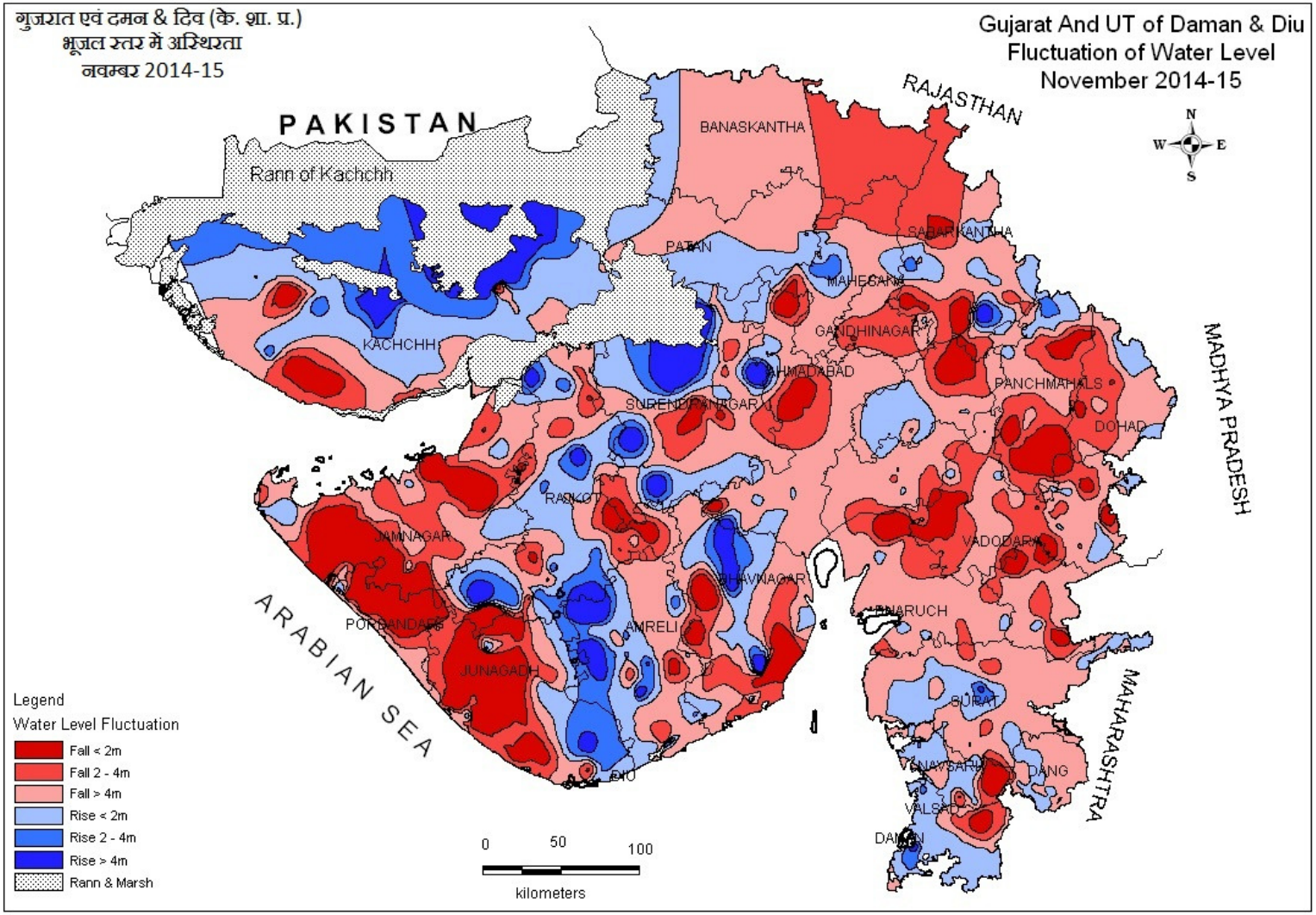
गुजरात एवं दमन & दिव (के. शा. प्र.)
भूजल स्तर में अस्थिरता
नवम्बर 2014-15
Gujarat And UT of Daman & Diu
Fluctuation of Water Level
November 2014-15
PAKISTAN
Rann of Kachchh
RAJASTHAN
MADHYA PRADESH
MAHARASHTRA
ARABIAN SEA
BANASKANTHA
PATAN
SABARKANTHA
MAHESANA
GANDHINAGAR
AHMADABAD
PANCHMAHALS
DOHAD
KACHCHH
SURENDRANAGAR
RAJKOT
JAMNAGAR
PORBANDAR
JUNAGADH
AMRELI
BHAVNAGAR
VADODARA
BHARUCH
SURAT
NAVSARI
DANG
VALSAD
DAMAN
DIU
N
W
E
S
Legend
Water Level Fluctuation
Fall < 2m
Fall 2 - 4m
Fall > 4m
Rise < 2m
Rise 2 - 4m
Rise > 4m
Rann & Marsh
0
50
100
kilometers

Table -14

CATEGORISATION OF CHANGES IN WATER LEVEL BETWEEN NOVEMBER 2014 TO NOVEMBER 2015

Sr. No.	District Name	No of well analysed	Range of Fluctuation (m)				No. of Wells 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	Ahmedabad	23	0.05	6.7	0.05	9.12	6	0	1	12	0	4	7	16
							26.09%	0.00%	4.35%	52.17%	0.00%	17.39%		
2	Anand	12	0.14	0.25	0.36	3.71	2	0	0	8	2	0	2	10
							16.67%	0.00%	0.00%	66.67%	16.67%	0.00%		
3	Banaskantha	18	0.2	2.37	0.72	4.36	11	2	0	2	2	1	13	5
							61.11%	11.11%	0.00%	11.11%	11.11%	5.56%		
4	Dohad	27	0.45	1.39	0.4	5.5	4	0	0	12	8	3	4	23
							14.81%	0.00%	0.00%	44.44%	29.63%	11.11%		
5	Gandhinagar	4	-	-	1.18	4.48	0	0	0	1	2	1	0	4
							0.00%	0.00%	0.00%	25.00%	50.00%	25.00%		
6	Kheda	17	0.09	2.04	0.08	5.43	5	1	0	7	2	1	6	10
							29.41%	5.88%	0.00%	41.18%	11.76%	5.88%		
7	Mahesana	24	0.01	5.07	0.05	4.38	3	2	1	15	2	1	6	18
							12.50%	8.33%	4.17%	62.50%	8.33%	4.17%		
8	Panchmahals	38	0.17	3.9	0.04	13.7	4	1	0	13	12	8	5	33
							10.53%	2.63%	0.00%	34.21%	31.58%	21.05%		
9	Patan	8	0.05	2.25	0.03	1.37	4	1	0	3	0	0	5	3
							50.00%	12.50%	0.00%	37.50%	0.00%	0.00%		
10	Sabarkantha	48	0.16	7.44	0.1	8.06	15	3	1	14	6	9	19	29
							31.25%	6.25%	2.08%	29.17%	12.50%	18.75%		
North Gujarat		**219**	**0.01**	**7.44**	**0.03**	**13.7**	**54**	**10**	**3**	**87**	**36**	**28**	**67**	**151**
							24.66%	4.57%	1.37%	39.73%	16.44%	12.79%		
11	Bharuch	30	0.17	0.7	0.02	13.93	4	0	0	20	5	1	4	26
							13.33%	0.00%	0.00%	66.67%	16.67%	3.33%		
12	Narmada	17	0.92	0.92	0.03	10.41	1	0	0	9	4	3	1	16
							5.88%	0.00%	0.00%	52.94%	23.53%	17.65%		
13	Navsari	19	0.07	2.44	0.02	13.18	8	1	0	5	2	3	9	10
							42.11%	5.26%	0.00%	26.32%	10.53%	15.79%		
14	Surat	56	0.08	4.7	0.06	3.67	20	1	1	29	5	0	22	34
							35.71%	1.79%	1.79%	51.79%	8.93%	0.00%		
15	The dangs	24	0.22	0.98	0.1	2.5	11	0	0	11	2	0	11	13
							45.83%	0.00%	0.00%	45.83%	8.33%	0.00%		
16	Vadodara	44	0.02	2	0.02	8.31	9	1	0	17	9	6	10	32
							20.45%	2.27%	0.00%	38.64%	20.45%	13.64%		
17	Valsad	18	0.16	5.45	0.39	6.65	10	3	1	2	1	1	14	4
							55.56%	16.67%	5.56%	11.11%	5.56%	5.56%		
South Gujarat		**208**	**0.02**	**5.45**	**0.02**	**13.93**	**63**	**6**	**2**	**93**	**28**	**14**	**71**	**135**
							30.29%	2.88%	0.96%	44.71%	13.46%	6.73%		
18	Amreli	47	0.1	11.8	0.02	6.48	14	4	6	18	3	1	24	22
							29.79%	8.51%	12.77%	38.30%	6.38%	2.13%		
19	Bhavnagar	40	0.2	16.61	0.15	10.15	14	4	2	8	5	7	20	20
							35.00%	10.00%	5.00%	20.00%	12.50%	17.50%		
20	Jamnagar	46	0.3	1.96	0.23	15.45	7	0	0	13	7	17	7	37
							15.22%	0.00%	0.00%	28.26%	15.22%	36.96%		
21	Junagadh	48	1.05	4.78	0.3	16.13	2	2	1	9	15	19	5	43
							4.17%	4.17%	2.08%	18.75%	31.25%	39.58%		
22	Porbandar	26	0.01	3	0.2	22.2	2	1	0	7	2	14	3	23
							7.69%	3.85%	0.00%	26.92%	7.69%	53.85%		
23	Rajkot	47	0.06	7.15	0.02	14.05	11	5	4	9	7	11	20	27
							23.40%	10.64%	8.51%	19.15%	14.89%	23.40%		
24	Surendranagar	40	0.03	11.75	0.35	5.36	12	0	5	11	8	4	17	23
							30.00%	0.00%	12.50%	27.50%	20.00%	10.00%		
Saurashtra		**294**	**0.01**	**16.61**	**0.02**	**22.2**	**62**	**16**	**18**	**75**	**47**	**73**	**96**	**195**
							21.09%	5.44%	6.12%	25.51%	15.99%	24.83%		
25	**Kachchh**	**42**	**0.07**	**8.91**	**0.54**	**8.31**	**14**	**6**	**6**	**7**	**4**	**4**	**26**	**15**
							33.33%	14.29%	14.29%	16.67%	9.52%	9.52%		
Total		**763**	**0.01**	**16.61**	**0.02**	**22.2**	**193**	**38**	**29**	**262**	**115**	**119**	**260**	**496**
							25.29%	4.98%	3.80%	34.34%	15.07%	15.60%		
26	Daman	9	0.04	2.09	0.02	0.02	7	1	0	1	0	0	8	1
							77.78%	11.11%	0.00%	11.11%	0.00%	0.00%		
27	Diu	4	0.25	1.8	1.22	1.22	3	0	0	1	0	0	3	1
							75.00%	0.00%	0.00%	25.00%	0.00%	0.00%		
UT of Daman & Diu		**13**	**0.04**	**2.09**	**1.22**	**1.22**	**10**	**1**	**0**	**2**	**0**	**0**	**11**	**2**
							76.92%	7.69%	0.00%	15.38%	0.00%	0.00%		
Grand Total		**776**	**0.01**	**16.61**	**0.02**	**22.2**	**203**	**39**	**29**	**264**	**115**	**119**	**271**	**498**
							26.16%	5.03%	3.74%	34.02%	14.82%	15.34%		

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3.3.4 January 2015 to January 2016

A perusal of **Fig 19** and **Table 15** reveals that 62% shows a fall and 38% shows rise in water level of the Gujarat state and UT of Daman & Diu. Fall in water level mainly within range of 0 – 2 m is observed in about 37%, of the total well in the state and UT of Daman and Diu. Rise in water level is mainly observed in, Banaskantha, Patan and Saurashtra and in southern part of Gujarat state. Rise mainly observed in the range of 0 – 2 m covers about 23% of the total well in state. Fall of water level more than 4 m is more commonly observed mainly in Saurashtra region & northern part of Gujarat state. The maximum rise of 12.95 m is recorded in Ranipet of Surendranagar district whereas the maximum decline of 21.00 m is recorded in Hanumangarh of Porbandar district.

About 63% of the total well shows fall of water level in the North Gujarat and most of which (44%) shows fall in the range of 0 to 2 m of water level. Fall of more than 4 m is mostly seen in the parts of Anand, Panchmahal and Sabarkantha districts in 9% of total well analysed in the region. Rise of 0 – 2 m range is observed in 28% of the total well observed in the area near the the area along the little Rann of Kachchh and in western part of north Gujarat region.

In South Gujarat region, 73% of total well analysed shows fall in water level and 44% represents in the range of 0 – 2 m of total well in the region. Fall of water level in 2 to 4 m and more than 4 m mainly observed in Vadodara, Narmada and south of Surat districts representing 29% of the total well in south Gujarat region. Rise in water level is observed maximum in the range of 0 – 2 m in 19% of the total well analysed lying mainly in Dangs, Surat, Valsad and Navsari districts of the region.

About 55% of the Saurashtra region has experienced fall in water level and rise in the range of 0 – 2 m represents about 28% of the total well analysed. Fall of water level more than 4 m is predominantly found in Jamnagar, Junagadh, Porbandar and Rajkot district all over the region and 15% area shows maximum fall. Rise in water level also found in isolated patches scattered mainly in Bhavnagar, Amreli, and Junagarh districts.

In Kachchh region, 55% of the total well analysed shows fall in water level and 37% shows rise in the range of 0 – 4 m. Fall of more than 4 m is observed as isolated patches in the area located in eastern and central east part of the district. 24% of observation stations shows rise less than 2m.

In the UT of Daman and Diu shows both rise and fall of water level the range is 0.29 to 0.98m for rise and 0.32 to 3.63m as fall.

Fig- 19

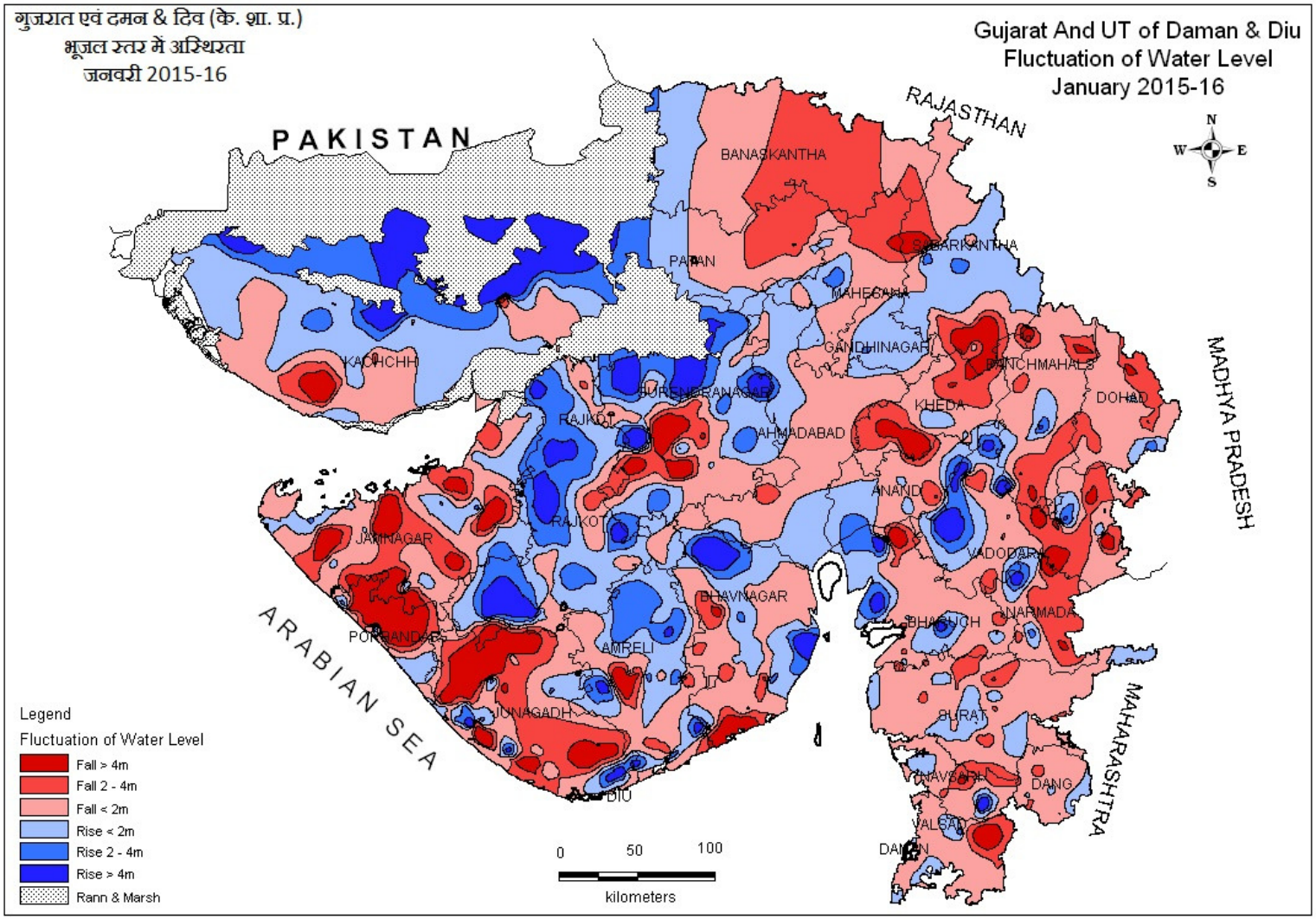
गुजरात एवं दमन & दिव (के. शा. प्र.)
भूजल स्तर में अस्थिरता
जनवरी 2015-16
Gujarat And UT of Daman & Diu
Fluctuation of Water Level
January 2015-16
PAKISTAN
RAJASTHAN
MADHYA PRADESH
MAHARASHTRA
ARABIAN SEA
BANASKANTHA
SABARKANTHA
PATAN
MAHESANA
GANDHINAGAR
PANCHMAHALS
DOHAD
KHEDA
AHMADABAD
ANAND
VADODARA
KACHCHH
SURENDRANAGAR
RAJKOT
JAMNAGAR
BHAVNAGAR
BHARUCH
NARMADA
PORBANDAR
AMRELI
JUNAGADH
SURAT
NAVSARI
DANG
VALSAD
DIU
DAMAN
Legend
Fluctuation of Water Level
Fall > 4m
Fall 2 - 4m
Fall < 2m
Rise < 2m
Rise 2 - 4m
Rise > 4m
Rann & Marsh
0
50
100
kilometers
N
S
E
W

Table -15

CATEGORISATION OF CHANGES IN WATER LEVEL BETWEEN JANUARY 2015 TO JANUARY 2016

Sr. No.	District Name	No of well analysed	Range of Fluctuation (m)				No. of Wells 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	Ahmedabad	24	0.05	2.5	0.04	5.28	7	1	0	13	0	1	8	14
							29.17%	4.17%	0.00%	54.17%	0.00%	4.17%		
2	Anand	10	0.53	0.6	0.01	4.25	3	0	0	6	0	1	3	7
							30.00%	0.00%	0.00%	60.00%	0.00%	10.00%		
3	Banaskantha	20	0.22	8.52	0.14	2.73	6	2	4	5	3	0	12	8
							30.00%	10.00%	20.00%	25.00%	15.00%	0.00%		
4	Dohad	20	0.22	2.98	0.06	4.6	1	1	0	13	2	2	2	17
							5.00%	5.00%	0.00%	65.00%	10.00%	10.00%		
5	Gandhinagar	4	0.45	2.35	-	-	3	1	0	0	0	0	4	0
							75.00%	25.00%	0.00%	0.00%	0.00%	0.00%		
6	Kheda	16	0.59	0.83	0.19	11.5	3	0	0	9	1	3	3	13
							18.75%	0.00%	0.00%	56.25%	6.25%	18.75%		
7	Mahesana	22	0.1	3.93	0.02	2.08	9	2	0	9	2	0	11	11
							40.91%	9.09%	0.00%	40.91%	9.09%	0.00%		
8	Panchmahals	25	0.08	4.84	0.3	7.53	4	0	1	10	5	4	5	19
							16.00%	0.00%	4.00%	40.00%	20.00%	16.00%		
9	Patan	8	0.09	1	0.02	4.11	3	0	0	4	0	1	3	5
							37.50%	0.00%	0.00%	50.00%	0.00%	12.50%		
10	Sabarkantha	36	0.06	4.45	0.19	10.31	13	3	1	12	2	5	17	19
							36.11%	8.33%	2.78%	33.33%	5.56%	13.89%		
North Gujarat		**185**	**0.05**	**8.52**	**0.01**	**11.5**	**52**	**10**	**6**	**81**	**15**	**17**	**68**	**113**
							28.11%	5.41%	3.24%	43.78%	8.11%	9.19%		
11	Bharuch	34	0.17	7.95	0.2	8.11	8	2	3	14	6	1	13	21
							23.53%	5.88%	8.82%	41.18%	17.65%	2.94%		
12	Narmada	18	0.85	5.58	0.02	8.35	2	1	1	8	4	2	4	14
							11.11%	5.56%	5.56%	44.44%	22.22%	11.11%		
13	Navsari	21	0.13	9	0.1	4.75	2	1	1	12	4	1	4	17
							9.52%	4.76%	4.76%	57.14%	19.05%	4.76%		
14	Surat	51	0.05	2.06	0.2	4.34	13	1	0	21	13	1	14	35
							25.49%	1.96%	0.00%	41.18%	25.49%	1.96%		
15	The dangs	22	0.02	0.75	0.02	3.54	5	0	0	13	3	0	5	16
							22.73%	0.00%	0.00%	59.09%	13.64%	0.00%		
16	Vadodara	45	0.14	9.92	0.05	9.7	6	1	6	10	14	8	13	32
							13.33%	2.22%	13.33%	22.22%	31.11%	17.78%		
17	Valsad	17	0.1	3.2	0.05	6.9	3	1	0	12	0	1	4	13
							17.65%	5.88%	0.00%	70.59%	0.00%	5.88%		
South Gujarat		**208**	**0.02**	**9.92**	**0.02**	**9.70**	**39**	**7**	**11**	**90**	**44**	**14**	**57**	**148**
							18.75%	3.37%	5.29%	43.27%	21.15%	6.73%		
18	Amreli	49	0.14	5.64	0.09	9.7	18	6	6	11	5	3	30	19
							36.73%	12.24%	12.24%	22.45%	10.20%	6.12%		
19	Bhavnagar	40	0.09	12.68	0.1	9.20	12	2	4	15	4	3	18	22
							30.00%	5.00%	10.00%	37.50%	10.00%	7.50%		
20	Jamnagar	49	0.33	3.15	0.05	14.2	8	5	0	15	7	10	13	32
							16.33%	10.20%	0.00%	30.61%	14.29%	20.41%		
21	Junagadh	56	0.17	9.45	0.22	13.3	10	6	4	16	8	12	20	36
							17.86%	10.71%	7.14%	28.57%	14.29%	21.43%		
22	Porbandar	26	0.22	3.05	0.07	21	3	2	0	6	3	12	5	21
							11.54%	7.69%	0.00%	23.08%	11.54%	46.15%		
23	Rajkot	46	0.05	8.55	0.1	5.9	8	13	10	10	4	1	31	15
							17.39%	28.26%	21.74%	21.74%	8.70%	2.17%		
24	Surendranagar	40	0.1	12.95	0.15	12.31	7	7	6	11	5	4	20	20
							17.50%	17.50%	15.00%	27.50%	12.50%	10.00%		
Saurashtra		**306**	**0.05**	**12.95**	**0.05**	**21.00**	**66**	**41**	**30**	**84**	**36**	**45**	**137**	**165**
							21.57%	13.40%	9.80%	27.45%	11.76%	14.71%		
25	**Kachchh**	**42**	**0.15**	**8.62**	**0.08**	**10.26**	**10**	**4**	**5**	**17**	**4**	**2**	**19**	**23**
							23.81%	9.52%	11.90%	40.48%	9.52%	4.76%		
Total		**741**	**0.02**	**12.95**	**0.01**	**21.00**	**167**	**62**	**52**	**272**	**99**	**78**	**281**	**449**
							22.54%	8.37%	7.02%	36.71%	13.36%	10.53%		
26	Daman	9	0.98	0.98	0.32	3.63	1	0	0	5	3	0	1	8
							11.11%	0.00%	0.00%	55.56%	82.64%	0.00%		
27	Diu	2	0.29	0.29	0.7	0.7	1	0	0	1	0	0	1	1
							50.00%	0.00%	0.00%	50.00%	0.00%	0.00%		
UT of Daman & Diu		**11**	**0.29**	**0.98**	**0.7**	**0.7**	**2**	**0**	**0**	**6**	**3**	**0**	**2**	**9**
							18.18%	0.00%	0.00%	54.55%	27.27%	0.00%		
Grand Total		**752**	**0.02**	**12.95**	**0.01**	**21.00**	**169**	**62**	**52**	**278**	**102**	**78**	**283**	**458**
							22.47%	8.24%	6.91%	36.97%	13.56%	10.37%		

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3.4 Long Term Ground Water Scenario

Long-term behaviour of water levels was studied by analysing the data for decadal average water levels and fluctuation of water level with respect to decadal average water levels. Maps showing variation in water level scenario over the decade 2005-14 for May, August, November and 2006-15 for January have been prepared to evaluate the long term changes in the groundwater regime.

3.4.1 Decadal Average Depth to Water Level

Maps showing depth to water level scenario over the decade 2006-15 have been prepared to evaluate the long term changes in the groundwater regime. Average depth to water level data is given in Annexure III C and distribution of the same is discussed below.

3.4.1.1 Pre-monsoon Water Levels

Decadal average water level map for the period May 2006 to May 2015 (**Fig. 20**) reveals that the decadal average water level in Gujarat is generally 2 to 40 m bgl. Isolated pockets of Shallow water levels of less than 2 m are observed in one or two places in the state. Depth to water level more than 40 m observed in north Gujarat region.

The Decadal average Water levels in North Gujarat generally range from 10 to 40 mbgl.Deep water level more than 40 m are observed in small isolated pockets in Banaskantha, Sabarkanth, Gandhinagar and Ahmedabad districts.

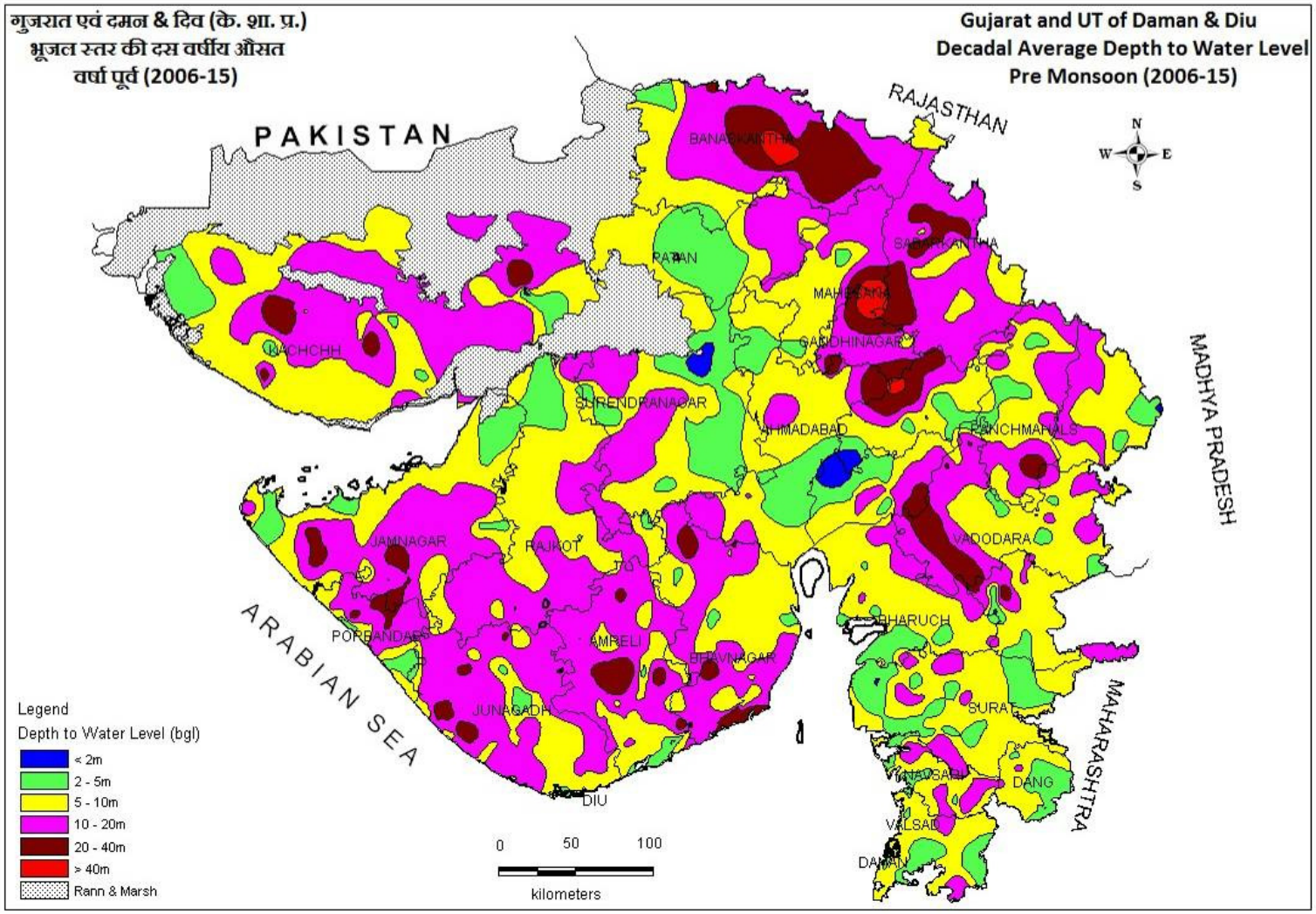
In South Gujarat average water level is less than 10 m bgl. Deep water levels of more than 20 m are observed in central part of Vadodara district and as isolated patch in Narmada district. Water level of less than 5 mbgl is found along the coast and in parts of Bharuch, The Dangs, Valsad and Surat districts.

In Saurashtra the average water level is less than 20 m with pockets having water level in the range of 20-40 m are found in all districts of Saurashtra region except Surendranagar district.

In Kachchh district ranges of the average water level is found from less than 5m to 20m. Deeper water levels of more than 20m are observed in central and eastern parts of Kachchh as in isolated patches.

In UT of Daman and Diu the water level in general is less than 10 mbgl.

Fig- 20


गुजरात एवं दमन & दिव (के. शा. प्र.)
भूजल स्तर की दस वर्षीय औसत
वर्षा पूर्व (2006-15)
Gujarat and UT of Daman & Diu
Decadal Average Depth to Water Level
Pre Monsoon (2006-15)
PAKISTAN
RAJASTHAN
MADHYA PRADESH
MAHARASHTRA
ARABIAN SEA
BANASKANTHA
PATAN
SABARKANTHA
MEHSANA
GANDHINAGAR
KACHCHH
SURENDRANAGAR
AHMADABAD
PANCHMAHALS
JAMNAGAR
RAJKOT
VADODARA
PORBANDAR
AMRELI
BHAVNAGAR
BHARUCH
JUNAGADH
SURAT
NAVSARI
DANG
DIU
VALSAD
DAMAN
Legend
Depth to Water Level (bgl)
< 2m
2 - 5m
5 - 10m
10 - 20m
20 - 40m
> 40m
Rann & Marsh
0
50
100
kilometers
N
S
E
W

3.4.1.2 Post-monsoon Water Levels

Decadal average water level map for the period November 2006 to November 2015(**Fig. 21**) reveals that in major part of Gujarat state, the decadal average water level is mostly in the range of 2 m to 20 mbgl. Deep water levels of moré than 20 m are also observed mainly in Banaskantha, Mahsana and Sabarkantha districts of North Gujarat, in parts of Kheda, Gandhinagar, Vadodara and Kachchh districts. Deepest water level more than 40 mbgl found in Banaskantha and Gandhinagar districts. Shallow water levels less than 2 m are observed in south Gujarat, along the little Rann and the parts connecting to the Gulf of Cambay and in scattered pockets in Saurashtra, Kachchh and North Gujarat

In North Gujarat, the water levels during post monsoon period are generally less than 20 mbgl. Deeper water levels of more than 20 mbgl are predominant in the district of Ahmedabad, Mahesana, Kheda, Banaskantha, Gandhinagar and Sabarkantha. Area along the little Rann and a portion connecting Gulf of Cambay and the little Rann has recorded water levels of less than 2 mbgl. Shallow water levels of less than 5 mbgl are observed in major parts of Panchmahals, some parts of Dohad, Kheda and Anand districts.

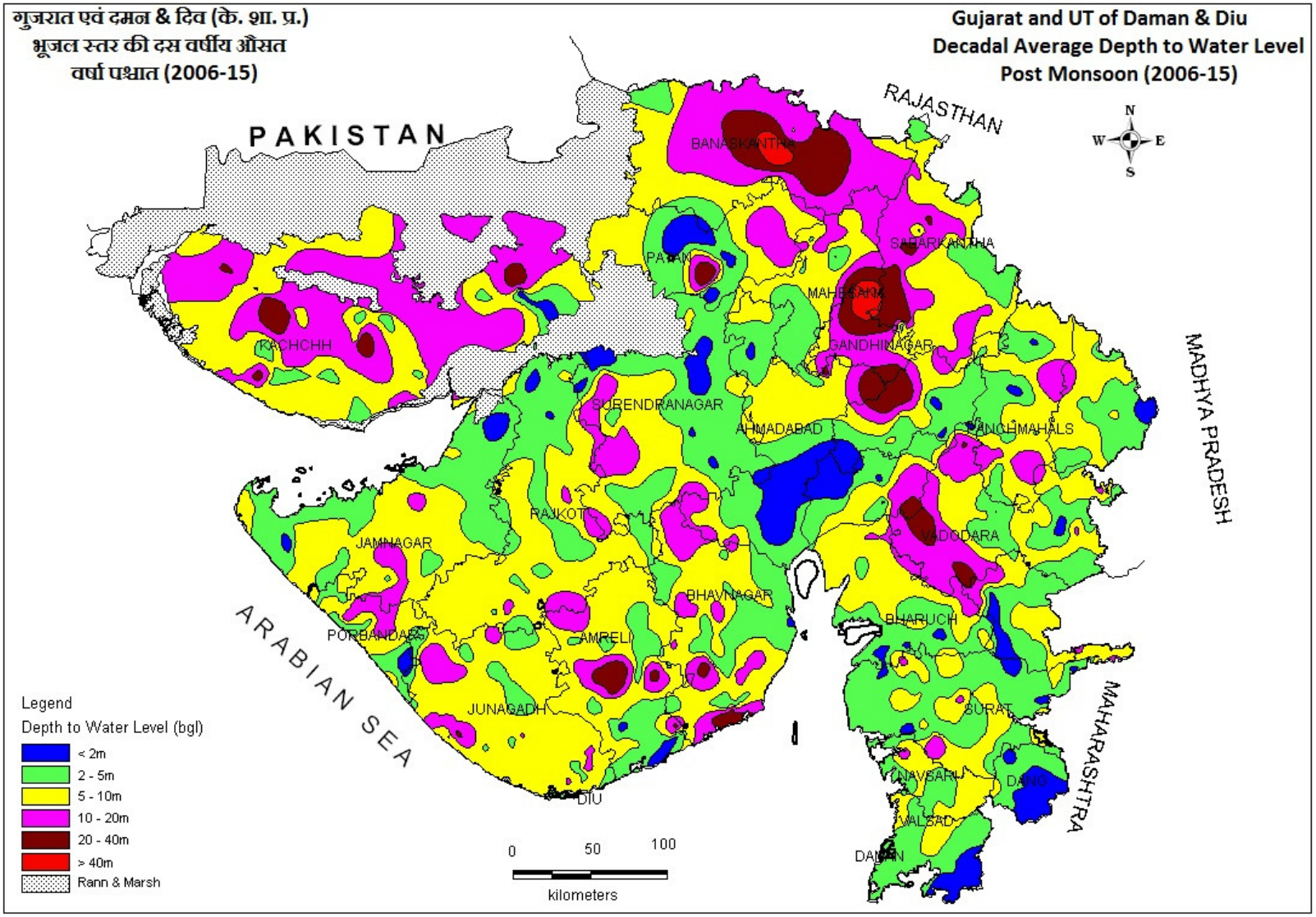
In South Gujarat water levels are generally shallower in contrast to North Gujarat areas. The water levels are generally less than 10 mbgl. Deep water levels of more than 10 mbgl are observed in central part of Navsari district. Deeper Water level more than 20 mbgl are observed mostly in Vadodara and Narmada districts. Shallow water levels of less than 5 m are recorded along the coast, The Dangs and Surat district. Water level less than 2 m are also recorded in Surat and The Dangs district.

In Saurashtra Region, water levels are in the range of 5m to 20 mbgl in general. Water levels of more than 20 m are observed in small isolated pockets in Amreli and Bhavnagar districts. Shallow water levels of less than 5 m are recorded in isolated pockets along the coastal parts and the parts connecting Gulf of Cambay with little Rann and in central parts of the Saurashtra Region.

In Kachchh district, the average water level is generally less than 10m except the eastern and central parts where the water level is about 20 m. In western parts, along cost line, water levels less than 5 mbgl is observed.

In UT of Daman and Diu average water level is less than 5 mbgl.

Fig- 21


गुजरात एवं दमन & दिव (के. शा. प्र.)
भूजल स्तर की दस वर्षीय औसत
वर्षा पश्चात (2006-15)
Gujarat and UT of Daman & Diu
Decadal Average Depth to Water Level
Post Monsoon (2006-15)
PAKISTAN
RAJASTHAN
MADHYA PRADESH
MAHARASHTRA
ARABIAN SEA
BANASKANTHA
PATAN
SABARKANTHA
MAHESANA
GANDHINAGAR
KACHCHH
SURENDRANAGAR
AHMADABAD
PANCHMAHALS
RAJKOT
JAMNAGAR
VADODARA
BHAVNAGAR
BHARUCH
PORBANDAR
AMRELI
JUNAGADH
SURAT
NAVSARI
DANG
DIU
VALSAD
DAMAN
N
S
E
W
Legend
Depth to Water Level (bgl)
< 2m
2 - 5m
5 - 10m
10 - 20m
20 - 40m
> 40m
Rann & Marsh
0
50
100
kilometers

3.4.1 Decadal Variations

Fig. 22 (a, b, c & d) illustrates a comparison of the changes of the water levels during different seasons with their respective decadal averages **(Annexure- III C)**

DECADAL WATER LEVEL FLUCTUATION

Fig : 22 a

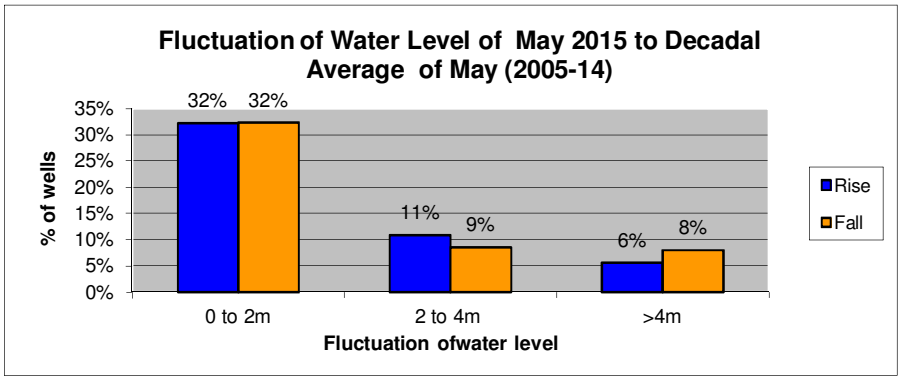


Fig : 22 b

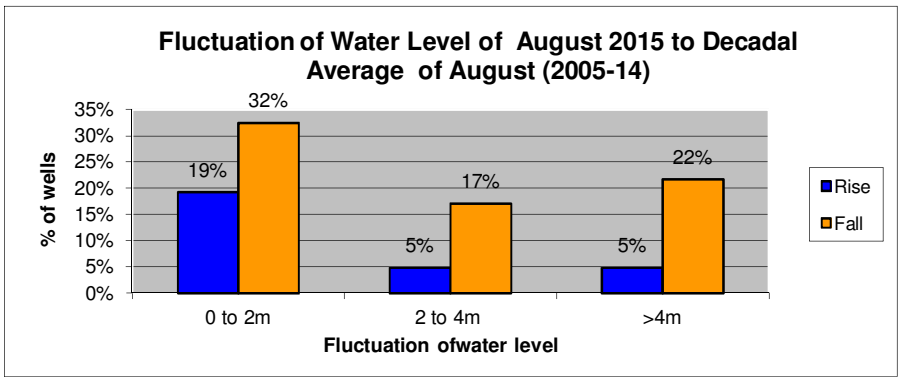


Fig : 22 c

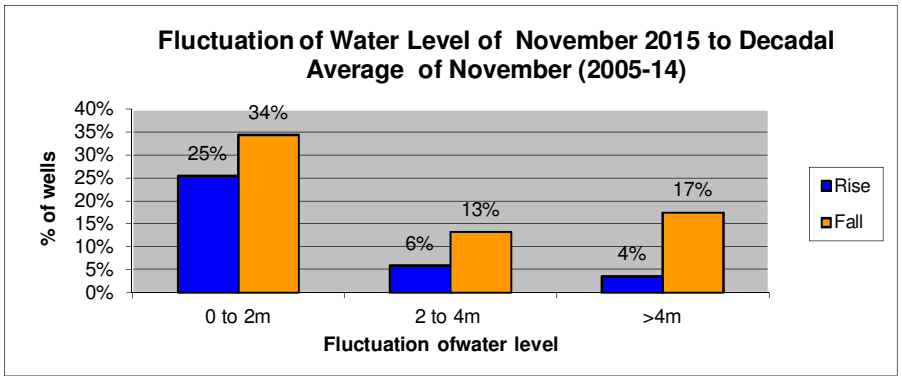
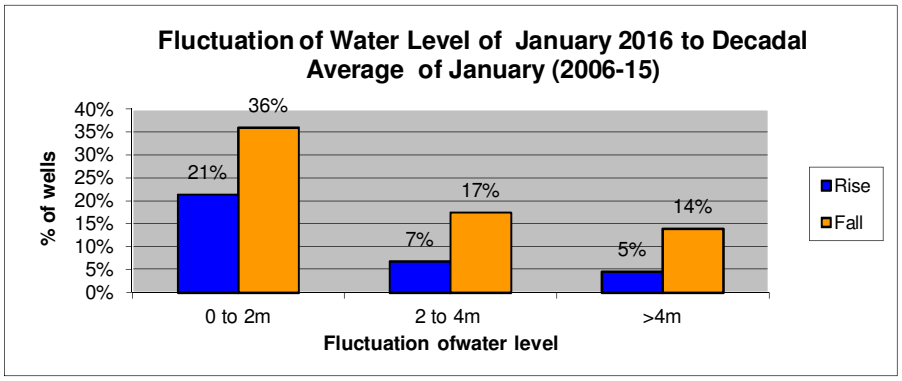


Fig : 22 d



3.4.2.1 Decadal average of May (2005-2014)to May 2015

A comparison of the water level of the May 2015 with the average water level of the May for last one decade (2005-2014) reveals that there is a rise of 48% of the wells monitored.Rise and fall is mostly in the range of 0 to 2m. Fall of more than 4m is observed in most of the districts Ahmedabad, Banaskantha, Sabarkantha, Vadodara, Amreli, Bhavnagar, Jamnagar, Junagardh, Rajkot, Surendranagar and Kachchh districts. The maximum rise of 18.41 m is recorded at Goraj of Junagadh district whereas the maximum fall of 12.80 m is recorded at Vijarkha in Jamnagar district.

In North Gujarat 57% of wells show rise and mostly are in range of 0 to 2 m (35% of wells) in entire North Gujarat. The fall of water level is mostly less than 2 m and in about 28% of the wells analyzed.

In south Gujarat the major part has experienced rise (50% of wells analyzed). The rise is mainly (36% of wells) in the range of 0 -2 m. About 43% of wells recorded fall of decadal fluctuation of water level in the range of 0 to 2 m.

In Saurashtra region about 49% of wells observed rise in water level and out of which 31% wells shows rise in the range of 0 to 2m. Fall of water level are less than 2 m in 27% in whole region. The maximum rise of 18.41 m is recorded at Goraj of Junagadh district whereas the maximum fall of 12.80 m is recorded at Vijarkha in Jamnagar district.

In Kachchh, 48% of the wells have recorded rise in water level in the district. Fall is mostly (36% of wells) in the range of 0-2m, were rise of 0-2 m is recorded in 18% of wells.

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In Union Territory of Daman both rise and fall is observed. In Daman the maximum rise 1.33 m and fall 2.16m are observed. In Diu 0.68 m fall is recorded.

Fig- 23

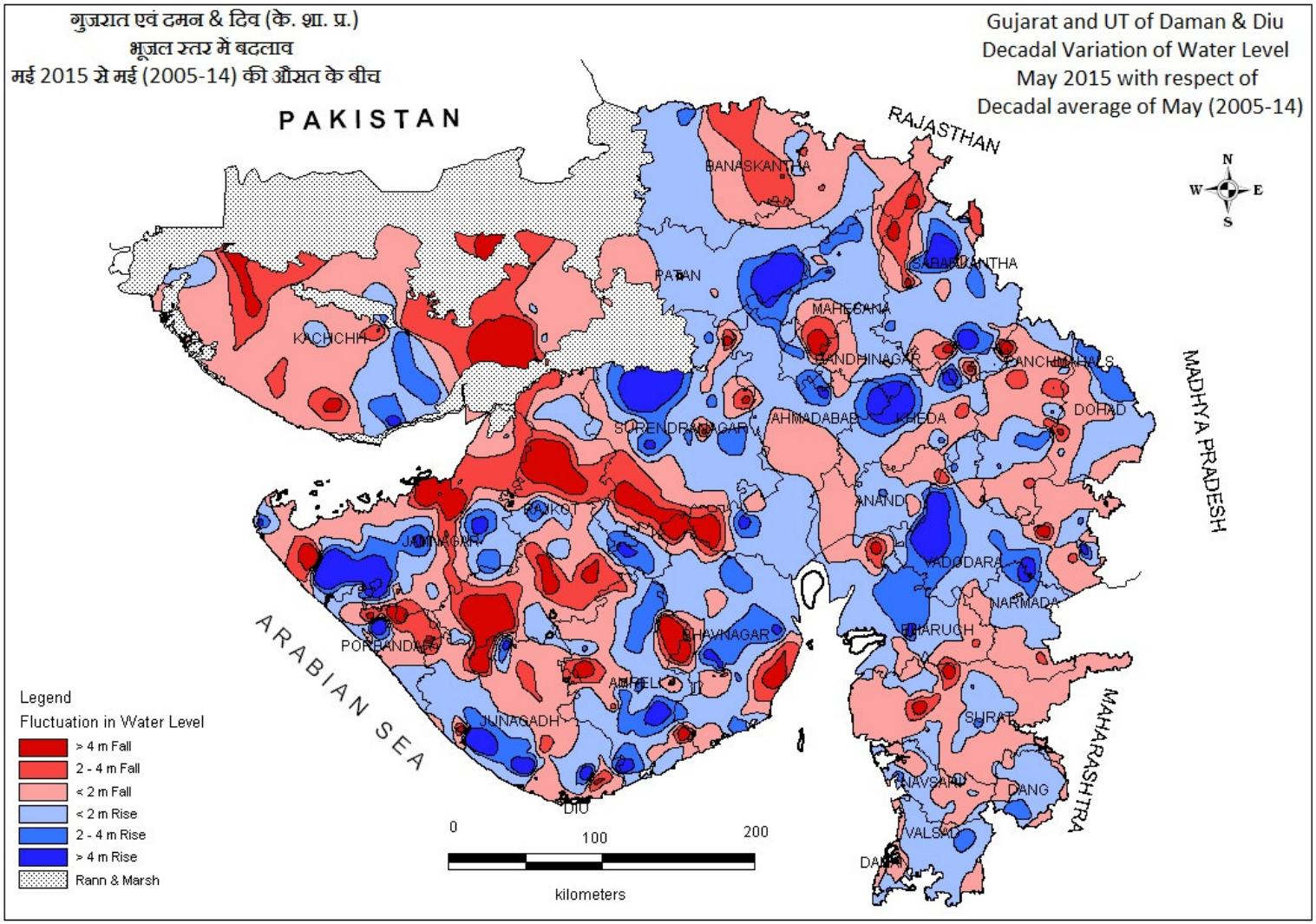

गुजरात एवं दमन & दिव (के. शा. प्र.)
भूजल स्तर में बदलाव
मई 2015 से मई (2005-14) की औसत के बीच
Gujarat and UT of Daman & Diu
Decadal Variation of Water Level
May 2015 with respect of
Decadal average of May (2005-14)
PAKISTAN
RAJASTHAN
MADHYA PRADESH
MAHARASHTRA
ARABIAN SEA
BANASKANTHA
PATAN
SABARKANTHA
MAHESANA
KACHCHH
GANDHINAGAR
PANCHMAHALS
DOHAD
SURENDRANAGAR
AHMADABAD
KHEDA
ANAND
RAJKOT
JAMNAGAR
VADODARA
NARMADA
BHARUCH
PORBANDAR
BHAVNAGAR
AMRELI
JUNAGADH
SURAT
NAVSARI
DANG
DIU
VALSAD
DAMAN
N
W
E
S
Legend
Fluctuation in Water Level
> 4 m Fall
2 - 4 m Fall
< 2 m Fall
< 2 m Rise
2 - 4 m Rise
> 4 m Rise
Rann & Marsh
0
100
200
kilometers

Table-16

WELL WISE CATEGORISATION OF CHANGES IN WATER LEVEL DURING MAY 2015 WITH RESPECT TO DECADAL AVERAGE OF MAY (2005TO 2014)

Sr. No.	District Name	No of well analysed	Range of Fluctuation (m)				No. of Wells 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	Ahmedabad	20	0.27	7.86	0.37	11.38	8 40.00%	3 15.00%	2 10.00%	3 15.00%	0 0.00%	4 20.00%	13	7
2	Anand	13	0.11	2.67	0.41	1.56	8 61.54%	1 7.69%	0 0.00%	4 30.77%	0 0.00%	0	9	4
3	Banaskantha	20	0.46	2.41	0.71	4.18	6 30.00%	3 15.00%	0 0.00%	5 25.00%	4 20.00%	1 5.00%	9	10
4	Dohad	22	0.03	4	0.41	4.7	9 40.91%	2 9.09%	0 0.00%	10 45.45%	0 0.00%	1 4.55%	11	11
5	Gandhinagar	4	0.95	0.95	0.08	0.37	1 25.00%	0 0.00%	0 0.00%	3 75.00%	0 0.00%	0 0.00%	1	3
6	Kheda	18	0.03	9.74	0.1	3.07	6 33.33%	2 11.11%	1 5.56%	8 44.44%	1 5.56%	0 0.00%	9	9
7	Mahesana	23	0.42	4.64	0.02	6.36	11 47.83%	6 26.09%	2 8.70%	3 13.04%	0 0.00%	1 4.35%	19	14
8	Panchmahals	29	0.1	3.64	0.17	10.7	5 17.24%	5 17.24%	0 0.00%	13 44.83%	3 10.34%	3 10.34%	10	19
9	Patan	8	0.54	11.38	0.12	0.12	3 37.50%	0 0.00%	4 50.00%	1 12.50%	0 0.00%	0 0.00%	7	1
10	Sabarkantha	42	0.01	9.01	0.21	8.33	12 28.57%	7 16.67%	5 11.90%	7 16.67%	5 11.90%	5 11.90%	24	17
	North Gujarat	**199**	**0.01**	**11.38**	**0.02**	**11.38**	**69** 34.67%	**29** 14.57%	**14** 7.04%	**57** 28.64%	**13** 6.53%	**15** 7.54%	**112**	**95**
11	Bharuch	31	0.04	5.71	0.39	5.56	16 51.61%	2 6.45%	2 6.45%	6 19.35%	3 9.68%	1 3.23%	20	10
12	Narmada	17	0.11	8.09	0.03	2.63	4 23.53%	3 17.65%	1 5.88%	8 47.06%	1 5.88%	0 0.00%	6	10
13	Navsari	20	0.11	3.56	0.11	3.56	8 40.00%	1 5.00%	0 0.00%	9 45.00%	1 5.00%	0 0.00%	9	10
14	Surat	51	0.12	2.91	0.01	6.49	16 31.37%	2 3.92%	0 0.00%	27 52.94%	2 3.92%	2 3.92%	18	31
15	The dangs	23	0.07	3.48	0.01	2	9 39.13%	3 13.04%	0 0.00%	11 47.83%	0 0.00%	0 0.00%	12	11
16	Vadodara	46	0.03	9.01	0.01	9.39	11 23.91%	6 13.04%	3 6.52%	22 47.83%	2 4.35%	2 4.35%	20	26
17	Valsad	17	0.01	3.03	0.1	2.48	9 52.94%	2 11.76%	0 0.00%	5 29.41%	1 5.88%	0 0.00%	11	6
	South Gujarat	**205**	**0.01**	**9.01**	**0.01**	**9.39**	**73** 35.61%	**19** 9.27%	**6** 2.93%	**88** 42.93%	**10** 4.88%	**5** 2.44%	**96**	**104**
18	Amreli	52	0.3	7.23	0.21	8.79	19 36.54%	10 19.23%	3 5.77%	12 23.08%	4 7.69%	4 7.69%	32	20
19	Bhavnagar	41	0.04	5.71	0.39	5.56	16 39.02%	2 4.88%	2 4.88%	6 14.63%	3 7.32%	1 2.44%	27	14
20	Jamnagar	49	0.06	17.59	0.01	12.8	11 22.45%	3 6.12%	5 10.20%	16 32.65%	9 18.37%	5 10.20%	19	30
21	Junagadh	61	0.07	18.41	0.04	9.32	18 29.51%	9 14.75%	4 6.56%	19 31.15%	7 11.48%	3 4.92%	31	29
22	Porbandar	27	0.05	15.01	0.66	8.24	11 40.74%	2 7.41%	2 7.41%	7 25.93%	1 3.70%	4 14.81%	15	12
23	Rajkot	46	0.16	4.86	0.14	10.77	10 21.74%	2 4.35%	2 4.35%	13 28.26%	7 15.22%	12 26.09%	14	32
24	Surendranagar	37	0.33	11.13	0.05	6.69	12 32.43%	4 10.81%	4 10.81%	11 29.73%	1 2.70%	5 13.51%	20	17
	Saurashtra	**313**	**0.04**	**18.41**	**0.01**	**12.80**	**97** 30.99%	**32** 10.22%	**22** 7.03%	**84** 26.84%	**32** 10.22%	**34** 10.86%	**158**	**154**
25	**Kachchh**	**45**	**0.42**	**5.72**	**0.24**	**12.34**	8 17.78%	4 8.89%	1 2.22%	16 35.56%	8 17.78%	8 17.78%	13	32
26	**Total**	**762**	**0.01**	**18.41**	**0.01**	**12.80**	**247** 32.41%	**84** 11.02%	**43** 5.64%	**245** 32.15%	**63** 8.27%	**62** 8.14%	**379**	**385**
27	Daman	9	0.18	1.33	0.46	2.16	2 22.22%	0 0.00%	0 0.00%	4 44.44%	3 33.33%	0 0.00%	2	7
28	Diu	1	-	-	0.68	0.68	0 0.00%	0 0.00%	0 0.00%	1 100.00%	0 0.00%	0 0.00%	0	1
	UT ofDaman & Diu	**10**	**0.18**	**1.33**	**0.46**	**2.16**	**2** 20.00%	**0** 0.00%	**0** 0.00%	**5** 50.00%	**3** 30.00%	**0** 0.00%	**2**	**8**
	Grand Total	**772**	**0.01**	**18.41**	**0.01**	**12.80**	**249** 32.25%	**84** 10.88%	**43** 5.57%	**250** 32.38%	**66** 8.55%	**62** 8.03%	**381**	**393**

3.4.2.2 Decadal average of August (2005 to 2014) to August 2015

A comparison of the water level of the August 2015 with the average water level of the August for last one decade (2005-2014) **Fig 24** & **Table 17** reveals that there is a fall in (71% of well analysed). Fall is mostly in the range of 0 to 2 m. The fall of more than 2m observed mostly in Saurashtra region. The maximum rise of 14.70 m is recorded in Vavadi of Amreli district whereas the maximum fall of 26.18 m is recorded in Hanumnagarh of Porbandar district.

In North Gujarat 47% of wells have shown rise and mostly in range of 0 to 2 m (30% of wells) & 2 - 4m (7%) in entire North Gujarat. A prominent patch of fall of water level is located in all of the districts of North Gujarat.

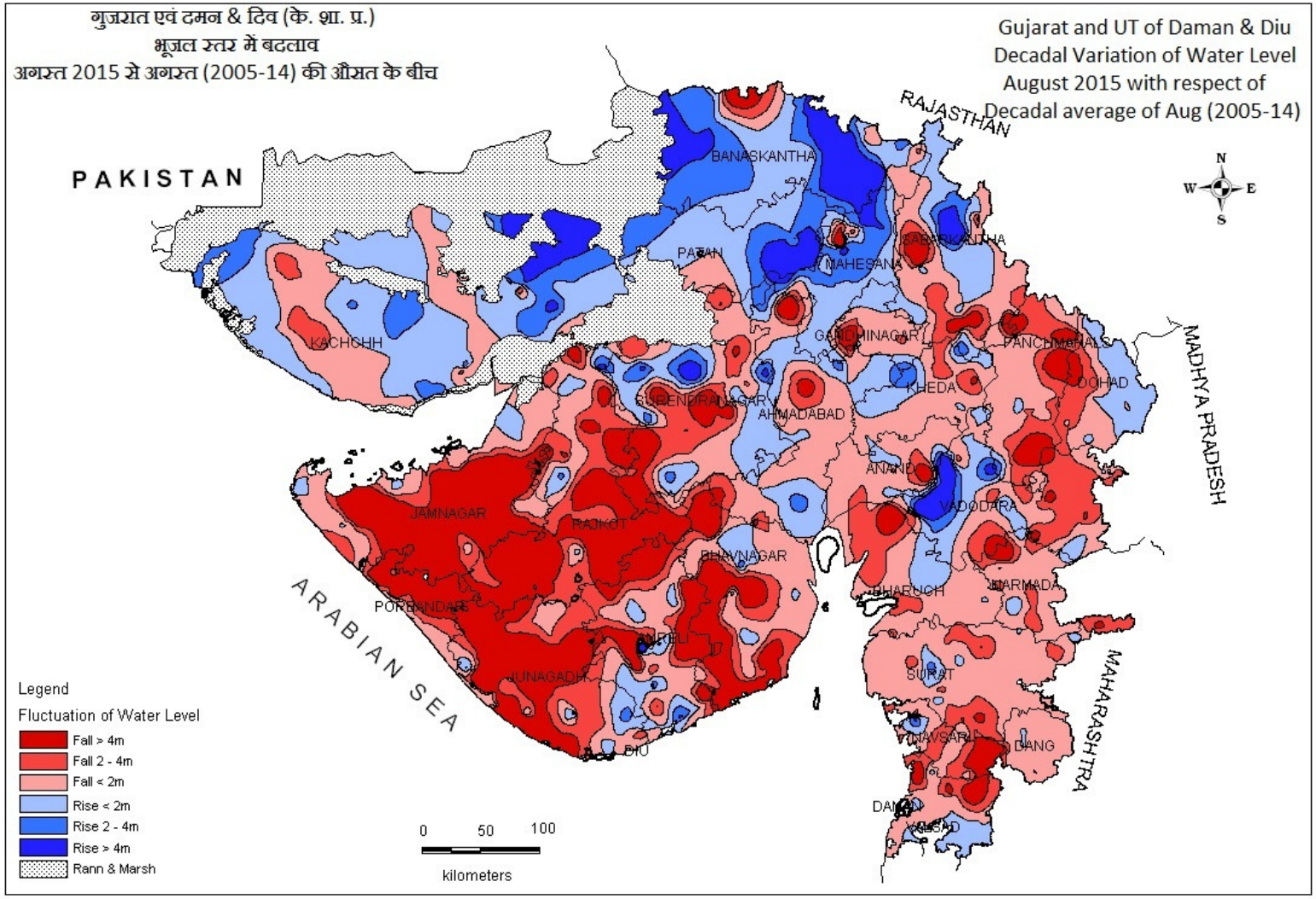
South Gujarat has experienced Fall (83% of wells analysed), the fall is mainly (48% of wells) in the range of 0 to 2 m. About 17% of wells recorded rise of decadal fluctuation of water level of which 14% of well are in the range of 0 to 2 m and scattered in whole South Gujarat region. The maximum fall of 13.96 m is recorded in Navsari district whereas the maximum rise of 9.90 m is observed at Vadodara district.

In Saurashtra region fall of water level in more than 4m is observed in more than 40% of the wells. The rise in water level is mostly in Bhavnagar, Amreli, Junagarh and Surendranagar districts but fall of water level covers the entire area. The maximum rise of 14.70 m is recorded in Vavadi of Amreli district whereas the maximum fall of 26.18 m is recorded in Hanumnagarh of Porbandar district.

In Kachchh, 64% of the wells analysed have recorded rise in water level in the district. Rise is mostly (30% of wells) in the range of 0 – 2 m. Fall is observed in 25% wells in the district ain the range of 0-2m.

In Union Territory of Daman both Maximum rise 0.56 m and fall 2.06 m and in Diu Maximum rise 0.22 m.

Fig- 24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Gujarat and UT of Daman & Diu
Decadal Variation of Water Level
August 2015 with respect of
Decadal average of Aug (2005-14)
PAKISTAN
RAJASTHAN
MADHYA PRADESH
MAHARASHTRA
ARABIAN SEA
BANASKANTHA
PATAN
MAHESANA
SABARKANTHA
GANDHINAGAR
PANCHMAHALS
KACHCHH
KHEDA
DOHAD
SURENDRANAGAR
AHMADABAD
ANAND
VADODARA
JAMNAGAR
RAJKOT
BHAVNAGAR
BHARUCH
NARMADA
PORBANDAR
AMRELI
JUNAGADH
SURAT
NAVSARI
DANG
DIU
DAMAN
VALSAD
N
W
E
S
Legend
Fluctuation of Water Level
Fall > 4m
Fall 2 - 4m
Fall < 2m
Rise < 2m
Rise 2 - 4m
Rise > 4m
Rann & Marsh
0
50
100
kilometers

Table-17

WELL WISE CATEGORISATION OF CHANGES IN WATER LEVEL DURING AUGUST 2014 WITH RESPECT TO DECADAL AVERAGE OF AUGUST (2005 To 2014)

Sr. No.	District Name	No of well analysed	Range of Fluctuation (m)				No. of Wells 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	Ahmedabad	25	0.01	3.41	0.02	8.42	9 36.00%	3 12.00%	0 0.00%	7 28.00%	2 8.00%	4 16.00%	12	13
2	Anand	11	0.6	1.79	1.14	7.53	3 27.27%	0 0.00%	0 0.00%	6 54.55%	1 9.09%	1 9.09%	3	8
3	Banaskantha	18	0.9	10.07	0.16	7.42	2 11.11%	1 5.56%	8 44.44%	4 22.22%	2 11.11%	1 5.56%	11	7
4	Dohad	22	0.08	1.56	0.23	3.58	10 45.45%	0 0.00%	0 0.00%	7 31.82%	5 22.73%	0 0.00%	10	12
5	Gandhinagar	4	0.87	0.87	1.19	17.11	1 25.00%	0 0.00%	0 0.00%	1 25.00%	1 25.00%	1 25.00%	1	3
6	Kheda	18	0.02	3.57	0.18	4.76	4 22.22%	1 5.56%	0 0.00%	9 50.00%	3 16.67%	1 5.56%	5	13
7	Mahesana	20	0.22	6.99	1.19	11.05	8 40.00%	3 15.00%	5 25.00%	1 5.00%	1 5.00%	2 10.00%	16	4
8	Panchmahals	26	0.85	0.85	0.15	22.6	1 3.85%	0 0.00%	0 0.00%	13 50.00%	7 26.92%	5 19.23%	1	25
9	Patan	7	0.53	11.44	-	-	4 57.14%	0 0.00%	3 42.86%	0 0.00%	0 0.00%	0 0.00%	7	0
10	Sabarkantha	40	0.18	6.88	0.06	10.16	16 40.00%	4 10.00%	3 7.50%	9 22.50%	2 5.00%	6 15.00%	23	17
	North Gujarat	**191**	**0.01**	**11.44**	**0.02**	**22.60**	**58** 30.37%	**12** 6.28%	**19** 9.95%	**57** 29.84%	**24** 12.57%	**21** 10.99%	**89**	**102**
11	Bharuch	26	0.03	1.45	0.23	8.37	3 11.54%	0 0.00%	0 0.00%	15 57.69%	7 26.92%	1 3.85%	3	23
12	Narmada	14	0.1	1.77	0.74	8.56	3 21.43%	0 0.00%	0 0.00%	5 35.71%	4 28.57%	2 14.29%	3	11
13	Navsari	20	4.72	4.72	0.11	13.96	0 0.00%	0 0.00%	1 5.00%	8 40.00%	8 40.00%	3 15.00%	1	19
14	Surat	53	0.07	2.97	0.04	4.52	7 13.21%	1 1.89%	0 0.00%	27 50.94%	14 26.42%	4 7.55%	8	45
15	The dangs	25	0.02	0.13	0.02	5.46	3 12.00%	0 0.00%	0 0.00%	20 80.00%	1 4.00%	1 4.00%	3	22
16	Vadodara	42	0.09	9.9	0.01	5.02	6 14.29%	2 4.76%	4 9.52%	12 28.57%	16 38.10%	2 4.76%	12	30
17	Valsad	18	0.14	0.70	0.05	10.36	6 33.33%	0 0.00%	0 0.00%	7 38.89%	2 11.11%	3 16.67%	6	12
	South Gujarat	**198**	**0.02**	**9.90**	**0.01**	**13.96**	**28** 14.14%	**3** 1.52%	**5** 2.53%	**94** 47.47%	**52** 26.26%	**16** 8.08%	**36**	**162**
18	Amreli	46	0.09	14.7	0.13	12.38	15 32.61%	3 6.52%	3 6.52%	8 17.39%	4 8.70%	13 28.26%	21	25
19	Bhavnagar	38	0.14	2.95	0.08	14.31	8 21.05%	1 2.63%	0 0.00%	11 28.95%	4 10.53%	14 36.84%	9	29
20	Jamnagar	50	0.07	1.77	0.05	15.12	5 10.00%	0 0.00%	0 0.00%	17 34.00%	4 8.00%	24 48.00%	5	45
21	Junagadh	55	0.36	4.02	0.05	21.87	1 1.82%	3 5.45%	1 1.82%	17 30.91%	11 20.00%	22 40.00%	5	50
22	Porbandar	27	-	-	0.41	26.18	0 0.00%	0 0.00%	0 0.00%	8 29.63%	3 11.11%	16 59.26%	0	27
23	Rajkot	54	0.21	5.2	0.19	15.94	3 5.56%	1 1.85%	1 1.85%	10 18.52%	11 20.37%	28 51.85%	5	49
24	Surendranagar	41	0.02	7	0.45	7.41	9 21.95%	3 7.32%	3 7.32%	7 17.07%	10 24.39%	9 21.95%	15	26
	Saurashtra	**311**	**0.02**	**14.70**	**0.05**	**26.18**	**41** 13.18%	**11** 3.54%	**8** 2.57%	**78** 25.08%	**47** 15.11%	**126** 40.51%	**60**	**251**
25	**Kachchh**	**43**	**0.28**	**6.56**	**0.01**	**3.71**	13 30.23%	10 23.26%	4 9.30%	11 25.58%	5 11.63%	0 0.00%	27	16
26	**Total**	**743**	**0.01**	**14.70**	**0.01**	**26.18**	**140** 18.84%	**36** 4.85%	**36** 4.85%	**240** 32.30%	**128** 17.23%	**163** 21.94%	**212**	**531**
27	Daman	9	0.05	0.56	0.19	2.06	3 33.33%	0 0.00%	0 0.00%	5 55.56%	1 11.11%	0 0.00%	3	6
28	Diu	2	0.09	0.22	-	-	2 100.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	2	0
	UT ofDaman & Diu	**11**	**0.05**	**0.56**	**0.19**	**2.06**	**5** 45.45%	**0** 0.00%	**0** 0.00%	**5** 45.45%	**1** 9.09%	**0** 0.00%	**5**	**6**
	Grand Total	**754**	**0.01**	**14.70**	**0.01**	**26.18**	**145** 19.23%	**36** 4.77%	**36** 4.77%	**245** 32.49%	**129** 17.11%	**163** 21.62%	**217**	**537**

3.4.2.3 Decadal average of November(2005-2014) to November 2015

A comparison of the water level of the November 2015 with the average water level of the November for last one decade (2005-2014) **Fig 25** & **Table 17** reveals that there is a fall in water level in the state (66% of total well analysed). Rise and fall is mostly in the range of 0 to 2m. Fall of more than 4m is observed as isolated patches scattered in all over the state. The maximum rise of 18.25 m is recorded in Vavadi of Amreli district whereas the maximum fall of 23.43 m is recorded in Hanumangarh of Porbandar district.

In North Gujarat 42% of wells are shown rise and mostly well are in range of 0 to 4 m (37% of wells) in entire North Gujarat. The fall of water level 35% of the observed wells has been found in the range of 0 to 2m. The maximum rise of 7.95 m is recorded in Mahesana district whereas the maximum fall of 14.88 m is observed in Panchmahals district.

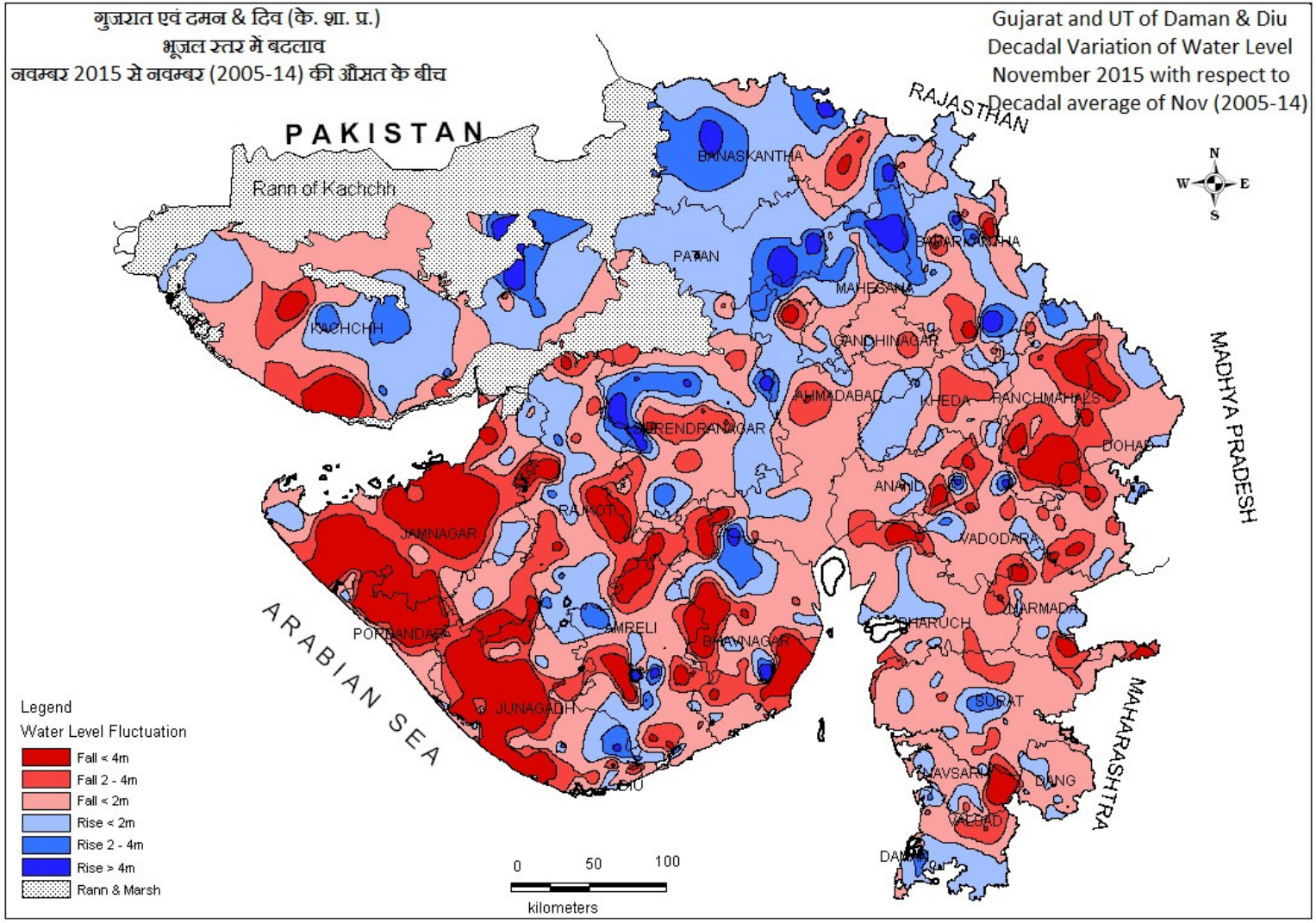
In South Gujarat, the major part has experienced fall (68% of total wells analysed). The fall is mainly (47% of wells) in the range of 0 to 2 m. More than 4 m fall is found in 8% of wells particularly in Vadodara district. About 32% of wells recorded rise in decadal fluctuation of water level of which 26% of well are in the range of 0 to 2 m and scattered in whole South Gujarat region.

In Saurashtra region about 58% of wells observed fall in water level and out of which 30% wells shows fall in the range of more than 4m. Rise of water level are experienced in 42% of the region. The maximum rise of 18.25 m is recorded in Vavadi of Amreli district whereas the maximum fall of 23.43 m is recorded in Hanumangarh of Porbandar district.

In Kachchh, 49% of the total wells analysed are recorded rise in water level in the district. Rise is mostly (29% of wells) in the range of 0 – 2 m. Fall is observed in 51% of the wells analysed in which 46 % is less than 4 m. More than 4 m fall observed in central and north eastern region.

In Union Territory of Daman and Diu both showing rise and fall of water level in their region. Range of rise is 0.14 to 1.54m and fall is 0.18 to 2.18m.

Fig- 25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Gujarat and UT of Daman & Diu
Decadal Variation of Water Level
November 2015 with respect to
Decadal average of Nov (2005-14)
PAKISTAN
Rann of Kachchh
RAJASTHAN
MADHYA PRADESH
MAHARASHTRA
ARABIAN SEA
BANASKANTHA
PATAN
SABARKANTHA
MAHESANA
GANDHINAGAR
AHMADABAD
KHEDA
PANCHMAHALS
DOHAD
SURENDRANAGAR
ANAND
VADODARA
RAJKOT
JAMNAGAR
NARMADA
BHARUCH
PORBANDAR
AMRELI
BHAVNAGAR
SURAT
JUNAGADH
NAVSARI
DANG
VALSAD
DIU
Legend
Water Level Fluctuation
Fall < 4m
Fall 2 - 4m
Fall < 2m
Rise < 2m
Rise 2 - 4m
Rise > 4m
Rann & Marsh
0
50
100
kilometers
N
W
E
S

Table-18

WELL WISE CATEGORISATION OF CHANGES IN WATER LEVEL DURING NOVEMBER 2015 WITH RESPECT TO DECADAL AVERAGE OF NOVEMBER (2005 To 2014)

Sr. No.	District Name	No of well analysed	Range of Fluctuation (m)				No. of Wells 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	Ahmedabad	24	0.05	6	0.27	8.55	9 37.50%	3 12.50%	1 4.17%	6 25.00%	2 8.33%	3 12.50%	13	11
2	Anand	15	0.6	1.84	0.25	7.68	4 26.67%	0 0.00%	0 0.00%	8 53.33%	1 6.67%	2 13.33%	4	11
3	Banaskantha	19	0.09	5.93	0.44	4.72	5 26.32%	3 15.79%	3 15.79%	5 26.32%	1 5.26%	2 10.53%	11	8
4	Dohad	27	0.63	1.82	0.04	5.72	4 14.81%	0 0.00%	0 0.00%	16 59.26%	3 11.11%	4 14.81%	4	23
5	Gandhinagar	4	0.46	0.46	0.71	3.09	1 25.00%	0 0.00%	0 0.00%	2 50.00%	1 25.00%	0 0.00%	1	3
6	Kheda	19	0.01	2.22	0.3	3.81	10 52.63%	1 5.26%	0 0.00%	4 21.05%	4 21.05%	0 0.00%	11	8
7	Mahesana	24	0.01	7.95	0.24	1.22	9 37.50%	5 20.83%	4 16.67%	6 25.00%	0 0.00%	0 0.00%	18	6
8	Panchmahals	39	0.07	3.9	0.18	14.88	6 15.38%	1 2.56%	0 0.00%	13 33.33%	8 20.51%	11 28.21%	7	32
9	Patan	10	0.23	7.38	0.3	0.3	5 50.00%	1 10.00%	2 20.00%	1 10.00%	0 0.00%	0 0.00%	8	1
10	Sabarkantha	50	0.11	7.54	0.07	8.06	17 34.00%	3 6.00%	3 6.00%	19 38.00%	4 8.00%	4 8.00%	23	27
	North Gujarat	**231**	**0.01**	**7.95**	**0.04**	**14.88**	**70** 30.30%	**17** 7.36%	**13** 5.63%	**80** 34.63%	**24** 10.39%	**26** 11.26%	**100**	**130**
11	Bharuch	32	0.05	1.88	0.16	8.65	10 31.25%	0 0.00%	0 0.00%	17 53.13%	4 12.50%	1 3.13%	10	22
12	Narmada	17	0.18	1.39	0.48	6.42	5 29.41%	0 0.00%	0 0.00%	5 29.41%	3 17.65%	4 23.53%	5	12
13	Navsari	21	0.2	1.37	0.07	15.79	6 28.57%	0 0.00%	0 0.00%	9 42.86%	3 14.29%	3 14.29%	6	15
14	Surat	57	0.01	3.52	0.02	5.42	13 22.81%	3 5.26%	0 0.00%	31 54.39%	8 14.04%	2 3.51%	16	41
15	The dangs	24	0.11	1.19	0.00	2.8	8 33.33%	0 0.00%	0 0.00%	13 54.17%	2 8.33%	0 0.00%	8	15
16	Vadodara	44	0.19	5.97	0.13	7.1	6 13.64%	2 4.55%	2 4.55%	21 47.73%	8 18.18%	5 11.36%	10	34
17	Valsad	18	0.1	5.45	0.23	4.21	8 44.44%	2 11.11%	1 5.556%	3 16.67%	2 11.11%	2 11.11%	11	7
	South Gujarat	**213**	**0.01**	**5.97**	**0.00**	**15.79**	**56** 26.29%	**7** 3.29%	**3** 1.41%	**99** 46.48%	**30** 14.08%	**17** 7.98%	**66**	**146**
18	Amreli	52	0.21	18.25	0.08	11.75	11 21.15%	3 5.77%	3 5.77%	18 34.62%	8 15.38%	9 17.31%	17	35
19	Bhavnagar	42	0.14	16.61	0.21	13.1	10 23.81%	6 14.29%	1 2.38%	9 21.43%	6 14.29%	10 23.81%	17	25
20	Jamnagar	51	0.01	1.96	0.16	14.68	8 15.69%	0 0.00%	0 0.00%	11 21.57%	6 11.76%	26 50.98%	8	43
21	Junagadh	67	0.02	4.47	0.11	18.43	9 13.43%	1 1.49%	2 2.99%	23 34.33%	4 5.97%	28 41.79%	12	55
22	Porbandar	28	0.01	1.75	0.31	23.43	3 10.71%	0 0.00%	0 0.00%	9 32.14%	1 3.57%	15 53.57%	3	25
23	Rajkot	54	0.17	3.57	0.46	11.8	13 24.07%	5 9.26%	0 0.00%	10 18.52%	15 27.78%	11 20.37%	18	36
24	Surendranagar	49	0.03	6.85	0.37	4.9	12 24.49%	3 6.12%	6 12.24%	14 28.57%	11 22.45%	3 6.12%	21	28
	Saurashtra	**343**	**0.01**	**18.25**	**0.08**	**23.43**	**66** 19.24%	**18** 5.25%	**12** 3.50%	**94** 27.41%	**51** 14.87%	**102** 29.74%	**96**	**247**
25	**Kachchh**	**45**	**0.13**	**5.61**	**0.04**	**8.55**	**13** 28.89%	**7** 15.56%	**2** 4.44%	**15** 33.33%	**6** 13.33%	**2** 4.44%	**22**	**23**
26	**Total**	**832**	**0.01**	**18.25**	**0.00**	**23.43**	**205** 24.64%	**49** 5.89%	**30** 3.61%	**288** 34.62%	**111** 13.34%	**147** 17.67%	**284**	**546**
27	Daman	9	0.14	1.54	0.18	2.16	7 77.78%	0 0.00%	0 0.00%	1 11.11%	1 11.11%	0 0.00%	7	2
28	Diu	4	0.25	0.85	1.22	1.22	3 75.00%	0 0.00%	0 0.00%	1 25.00%	0 0.00%	0 0.00%	3	1
	UT ofDaman & Diu	**13**	**0.14**	**1.54**	**0.18**	**2.16**	**10** 76.92%	**0** 0.00%	**0** 0.00%	**2** 15.38%	**1** 7.69%	**0** 0.00%	**10**	**3**
	Grand Total	**845**	**0.01**	**18.25**	**0.00**	**23.43**	**215** 25.44%	**49** 5.80%	**30** 3.55%	**290** 34.32%	**112** 13.25%	**147** 17.40%	**294**	**549**

3.4.2.4 Decadal average of January(2006-2015) to January 2016

A comparison of the water level of the January 2016 with the average water level of the January for last one decade (2006-2015) **Fig 26** & **Table 18** reveals that there is a fall in water level in the state (68% of well analysed). Rise and fall is mostly in the range of 0 to 2m. Fall of more than 4m is observed mostly in Saurashtra and Kachchh region and occur as isolated patches scattered in North Gujarat region. The maximum rise of 11.28 m is recorded in Ghayaj of Vadodara district whereas the maximum fall of 20.41 m is recorded in Hanumangarh of Porbandar district.

In North Gujarat 62% of wells are shown fall and mostly well are in range of 0 to 2 m (30% of wells) in entire North Gujarat. A prominent patch of fall of water level is located Anand, Dohad, Panchmahals and Sabarkantha districts. The in range of less than 2m is observed in 27% of the observation wells.

In south Gujarat, the rise 29% for this decadal variation. The rise and fall mainly in the range of 0 to 2 m (24% rise & 46% fall). More than 2 m rise is found in Vadodara and Narmada districts.

In Saurashtra region, about 73% of wells observed fall in water level and out of which 33% wells shows rise in the range of 0 to 2m. Fall of water level more than 4m are experienced in 24% of the total well in region as isolated patches. Rise in the water level in the region 27%. Rise more than 2m mostly observed in Amreli and Bhavnagar districts.

In Kachchh, 63% of the total wells analysed are recorded fall in water level in the district. Fall is mostly (53% of wells) in the range of 0 – 4 m. Rise is mainly observed in the range of 0 – 2 m in eastern part of Kachchh and has 15% of total wells.

In Union Territory of Daman & Diu, fall is observed in 73% of the observation stations.The maximum fall of 3.86 m in Daman and rise 0.60 m.

Fig- 26

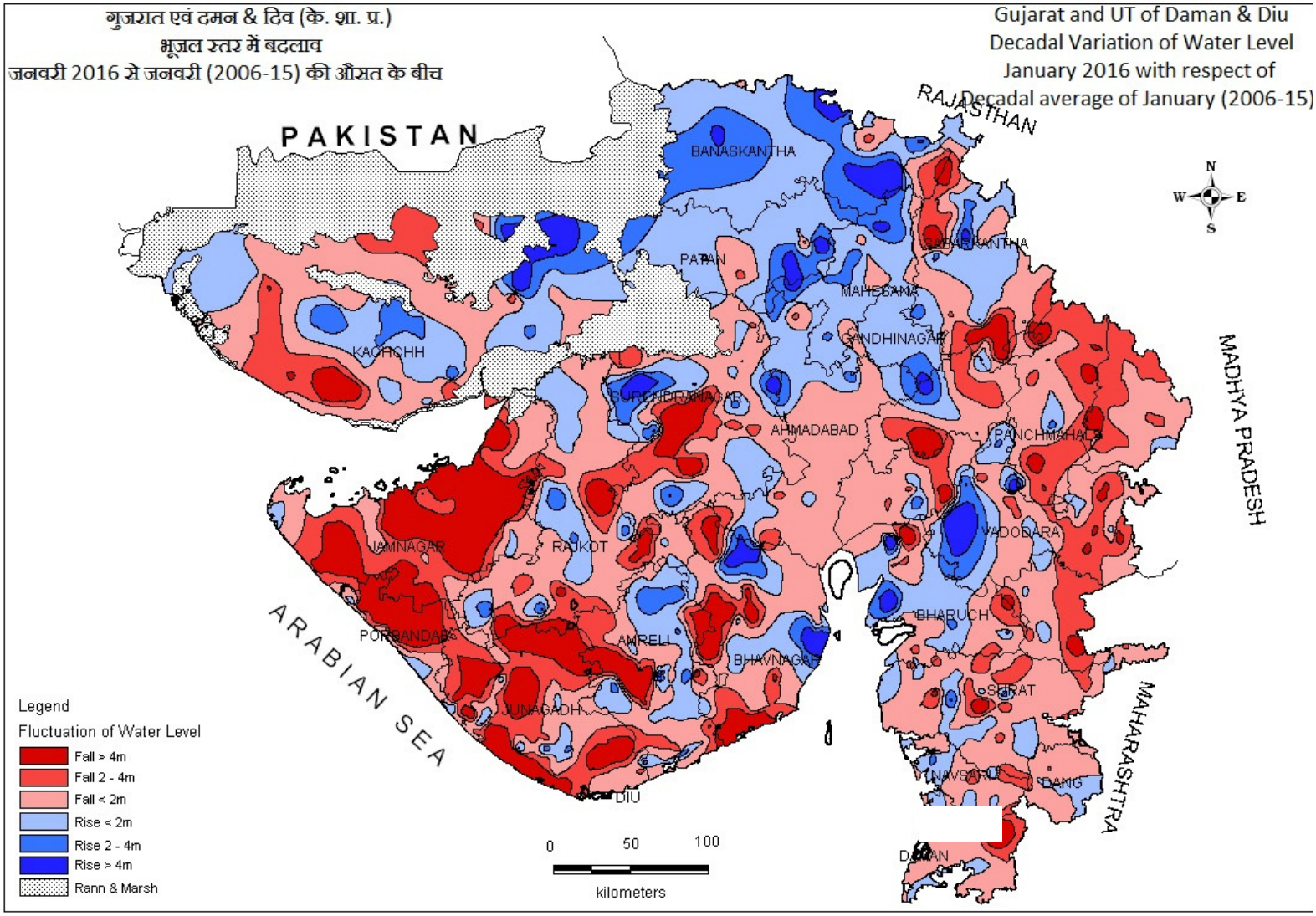

गुजरात एवं दमन & दिव (के. शा. प्र.)
भूजल स्तर में बदलाव
जनवरी 2016 से जनवरी (2006-15) की औसत के बीच
Gujarat and UT of Daman & Diu
Decadal Variation of Water Level
January 2016 with respect of
Decadal average of January (2006-15)
PAKISTAN
RAJASTHAN
MADHYA PRADESH
MAHARASHTRA
ARABIAN SEA
BANASKANTHA
PATAN
MAHESANA
GANDHINAGAR
KACHCHH
SURENDRANAGAR
AHMADABAD
PANCHMAHALS
JAMNAGAR
RAJKOT
VADODARA
PORBANDAR
AMRELI
BHAVNAGAR
BHARUCH
SURAT
JUNAGADH
NAVSARI
DANG
DIU
DAMAN
Legend
Fluctuation of Water Level
Fall > 4m
Fall 2 - 4m
Fall < 2m
Rise < 2m
Rise 2 - 4m
Rise > 4m
Rann & Marsh
0
50
100
kilometers
N
W
E
S

Table-19

WELL WISE CATEGORISATION OF CHANGES IN WATER LEVEL DURING JANUARY 2016 WITH RESPECT TO DECADAL AVERAGE OF JANUARY (2006 To 2015)

Sr. No.	District Name	No of well analysed	Range of Fluctuation (m)				No. of Wells 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	Ahmedabad	25	0.37	4.28	0.01	5.41	7 28.00%	2 8.00%	2 8.00%	8 32.00%	5 20.00%	1 4.00%	11	14
2	Anand	13	0.79	3.91	0.26	6.7	2 15.38%	1 7.69%	0 0.00%	5 38.46%	4 30.77%	1 7.69%	3	10
3	Banaskantha	20	0.16	7.38	0.16	2.7	6 30.00%	3 15.00%	5 25.00%	5 25.00%	1 5.00%	0 0.00%	14	6
4	Dohad	20	1.01	1.01	0.64	8.26	1 5.00%	0 0.00%	0 0.00%	11 55.00%	6 30.00%	2 10.00%	1	19
5	Gandhinagar	5	0.28	2.09	-	-	4 80.00%	1 20.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	5	0
6	Kheda	17	0.09	5.18	0.4	12.2	2 11.76%	0 0.00%	1 5.88%	9 52.94%	4 23.53%	1 5.88%	3	14
7	Mahesana	23	0.47	7.64	0.09	1.26	11 47.83%	5 21.74%	3 13.04%	4 17.39%	0 0.00%	0 0.00%	19	4
8	Panchmahals	25	0.1	2.99	0.59	16.65	3 12.00%	1 4.00%	0 0.00%	7 28.00%	9 36.00%	5 20.00%	4	24
9	Patan	8	0.11	8.24	0.05	2.42	3 37.50%	0 0.00%	2 25.00%	1 12.50%	2 25.00%	0 0.00%	5	3
10	Sabarkantha	36	0.06	5.42	0.71	8.15	12 33.33%	6 16.67%	1 2.78%	7 19.44%	4 11.11%	6 16.67%	19	17
	North Gujarat	**192**	**0.06**	**8.24**	**0.01**	**16.65**	**51** 26.56%	**19** 9.90%	**14** 7.29%	**57** 29.69%	**35** 18.23%	**16** 8.33%	**84**	**111**
11	Bharuch	35	0.02	7.95	0.09	7.98	9 25.71%	2 5.71%	2 5.71%	13 37.14%	7 20.00%	1 2.86%	13	21
12	Narmada	18	0.36	1.83	0.32	5.26	3 16.67%	0 0.00%	0 0.00%	10 55.56%	3 16.67%	2 11.11%	3	15
13	Navsari	21	0.2	2.56	0.02	3.79	7 33.33%	1 4.76%	0 0.00%	9 42.86%	4 19.05%	0 0.00%	8	13
14	Surat	57	0.04	4.34	0.02	7.58	13 22.81%	1 1.75%	1 1.75%	29 50.88%	11 19.30%	2 3.51%	15	42
15	The dangs	24	0.02	0.63	0.01	2.89	7 29.17%	0 0.00%	0 0.00%	14 58.33%	3 12.50%	0 0.00%	7	17
16	Vadodara	46	0.01	11.28	0.07	6.21	9 19.57%	1 2.17%	4 8.70%	14 30.43%	13 28.26%	5 10.87%	14	32
17	Valsad	18	0.08	1.77	0.05	7.33	5 27.78%	0 0.00%	0 0.00%	12 66.67%	0 0.00%	1 5.56%	5	13
	South Gujarat	**219**	**0.01**	**11.28**	**0.01**	**7.98**	**53** 24.20%	**5** 2.28%	**7** 3.20%	**101** 46.12%	**41** 18.72%	**11** 5.02%	**65**	**153**
18	Amreli	51	0.13	6.19	0.32	15.02	12 23.53%	7 13.73%	2 3.92%	17 33.33%	5 9.80%	8 15.69%	21	30
19	Bhavnagar	42	0.01	8.4	0.1	10.72	11 26.19%	2 4.76%	3 7.14%	10 23.81%	6 14.29%	10 23.81%	16	26
20	Jamnagar	49	0.27	1.76	0.02	15	3 6.12%	0 0.00%	0 0.00%	15 30.61%	9 18.37%	22 44.90%	3	46
21	Junagadh	60	0.45	3.8	0.12	19.41	7 11.67%	4 6.67%	0 0.00%	21 35.00%	12 20.00%	16 26.67%	11	49
22	Porbandar	26	0.98	1.34	0.05	20.41	2 7.69%	0 0.00%	0 0.00%	8 30.77%	3 11.54%	13 50.00%	2	24
23	Rajkot	52	0.06	4.18	0.45	9.03	12 23.08%	5 9.62%	2 3.85%	21 40.38%	5 9.62%	7 13.46%	19	33
24	Surendranagar	49	0.2	7.76	0.03	12.93	9 18.37%	6 12.24%	4 8.16%	15 30.61%	12 24.49%	3 6.12%	19	30
	Saurashtra	**329**	**0.01**	**8.40**	**0.02**	**20.41**	**56** 17.02%	**24** 7.29%	**11** 3.34%	**107** 32.52%	**52** 15.81%	**79** 24.01%	**91**	**238**
25	**Kachchh**	**47**	**0.13**	**5.43**	**0.09**	**10.03**	7 14.89%	6 12.77%	4 8.51%	17 36.17%	8 17.02%	5 10.64%	17	30
26	**Total**	**787**	**0.01**	**11.28**	**0.01**	**20.41**	**167** 21.22%	**54** 6.86%	**36** 4.57%	**282** 35.83%	**136** 17.28%	**111** 14.10%	**257**	**532**
27	Daman	9	0.36	0.6	0.4	3.86	2 22.22%	0 0.00%	0 0.00%	4 44.44%	3 33.33%	0 0.00%	2	7
28	Diu	2	0.05	0.05	0.56	0.56	1 50.00%	0 0.00%	0 0.00%	1 50.00%	0 0.00%	0 0.00%	1	1
	UT ofDaman & Diu	**11**	**0.05**	**0.60**	**0.40**	**3.86**	**3** 27.27%	**0** 0.00%	**0** 0.00%	**5** 45.45%	**3** 27.27%	**0** 0.00%	**3**	**8**
	Grand Total	**798**	**0.01**	**11.28**	**0.01**	**20.41**	**170** 21.30%	**54** 6.77%	**36** 4.51%	**287** 35.96%	**139** 17.42%	**111** 13.91%	**260**	**540**

3.5 Water Table Scenario

A detailed discussion of water table scenario during May 2015 monitoring periods is described below.

3.5.1 May 2014

The water table map for pre-monsoon period **(Fig. 27)** reveals that the water table in different parts of the state ranges between– 20.6 mbmsl and more than 623.9 mamsl. The water table mostly follows the topography of the area. Water table is highest along the eastern hilly tract of the eastern side and gradually reduces towards west/south west. Ground water flow direction is westward and southwest in north Gujarat and it turns to west in south Gujarat. Flow directions in Kachchh and Saurashtra are divergent in all directions from the centre of the regions where the height of the water table is 200 mamsl, thus making groundwater mound in the central parts of both the Regions. The elevation of the water table is more than 400 mamsl in the eastern part of the main land Gujarat. Water table of 400 mamsl and above is recorded in Dangs, Banaskantha and Sabarkantha districts. Water table below mean sea level is observed in coastal Kachchh, Saurashtra and Valsad district.

3.6 Piezometric Configuration

Northern part of the north Gujarat is underlain by the unconsolidated alluvial deposits of post Miocene age and semi consolidated Mesozoic and Tertiary sediments. These sedimentary formations form the most prolific multi-aquifer system comprising several confined aquifers. Confined aquifers in this area are grouped into, first confined aquifer ranging in depth from 78 to 162 mbgl and second confined aquifer ranging in depth from 154 to 274 mbgl. These aquifers extend from the foothill of the Aravallis in the northeast to the little Rann of Kachchh in the west. The aerial extent of this multi-aquifer system is shown in the maps by dotted line**.** The data of the depth to water level in confined aquifer is given in Annexure III B.

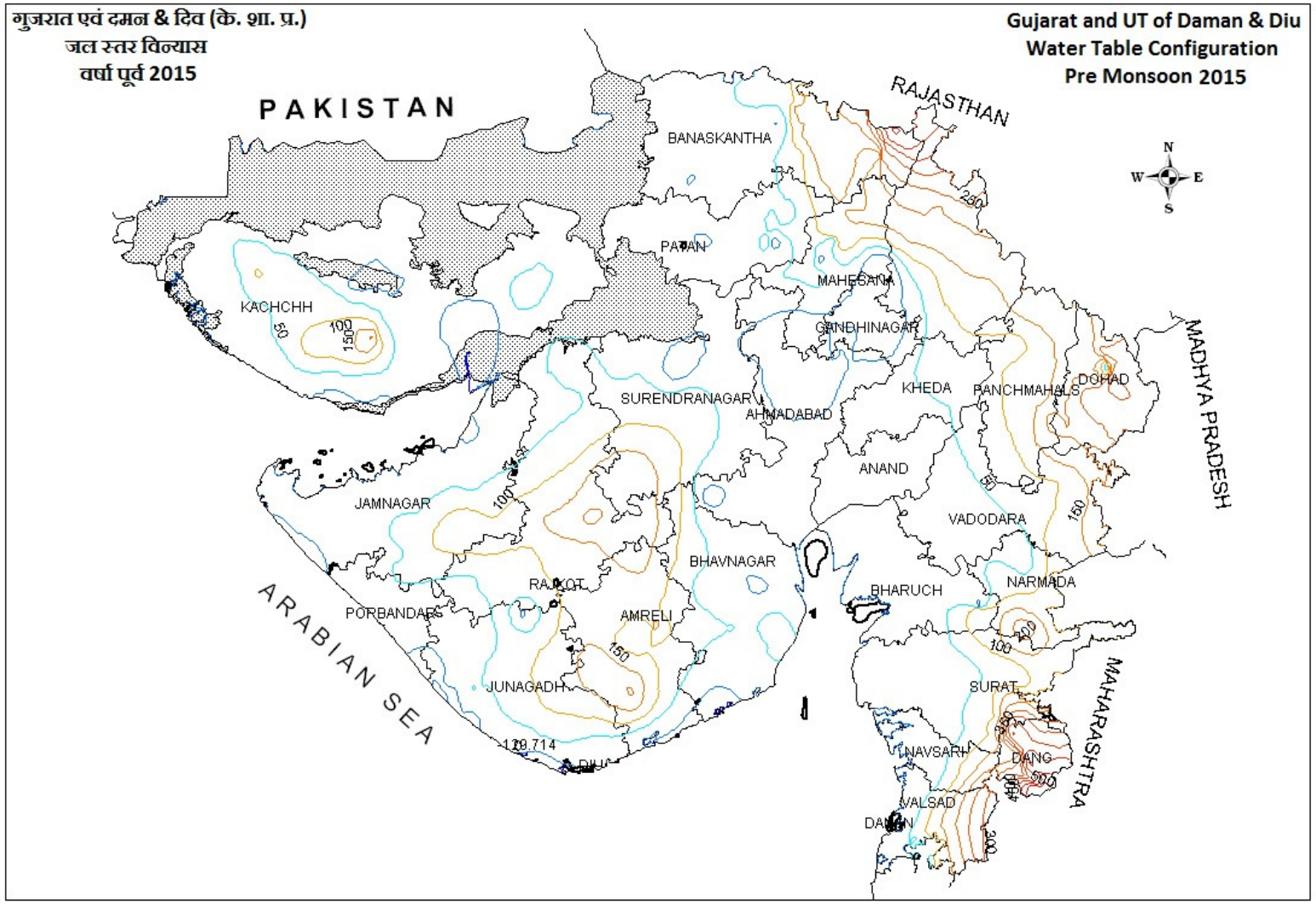
3.6.1 May 2014 – (First Confined Aquifer)

In the alluvial area 36 piezometers tapping the first confined aquifers were monitored and analysed during May 2014. Based on the water levels measured, a Isopiestic map was prepared **Fig 28**. A perusal of the map shows that in general depth to piezometric surface declines from east to west. A trough of more than 54 mbmsl is found in Ahmedabad districts. The elevation of piezometric head varies from 54 mbmsl at Ahmedabad city to 109 mamsl at Kheralu in Mahesana district.

3.6.2 May 2014 – (Second Confined Aquifer)

In the alluvial area 25 piezometers tapping the second confined aquifers were monitored and analysed during May 2014. Based on the water levels measured, an Isopiestic map was prepared **Fig 29**. A perusal of the map shows that in trough of more than 70 mbmsl is found in adjoining area of Patan and Mahesana. The elevation of piezometric head ranges from 62.8 mbmsl at Motipura in Maesana to 50.62 mamsl at Billiya in Patan district.

Fig- 27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जल स्तर विन्यास
वर्षा पूर्व 2015
Gujarat and UT of Daman & Diu
Water Table Configuration
Pre Monsoon 2015
PAKISTAN
RAJASTHAN
MADHYA PRADESH
MAHARASHTRA
ARABIAN SEA
BANASKANTHA
PATAN
MAHESANA
GANDHINAGAR
KACHCHH
SURENDRANAGAR
AHMADABAD
KHEDA
PANCHMAHALS
DOHAD
ANAND
JAMNAGAR
VADODARA
BHAVNAGAR
RAJKOT
BHARUCH
NARMADA
PORBANDAR
AMRELI
JUNAGADH
SURAT
NAVSARI
DANG
VALSAD
DAMAN
DIU
N
S
E
W

Fig- 28

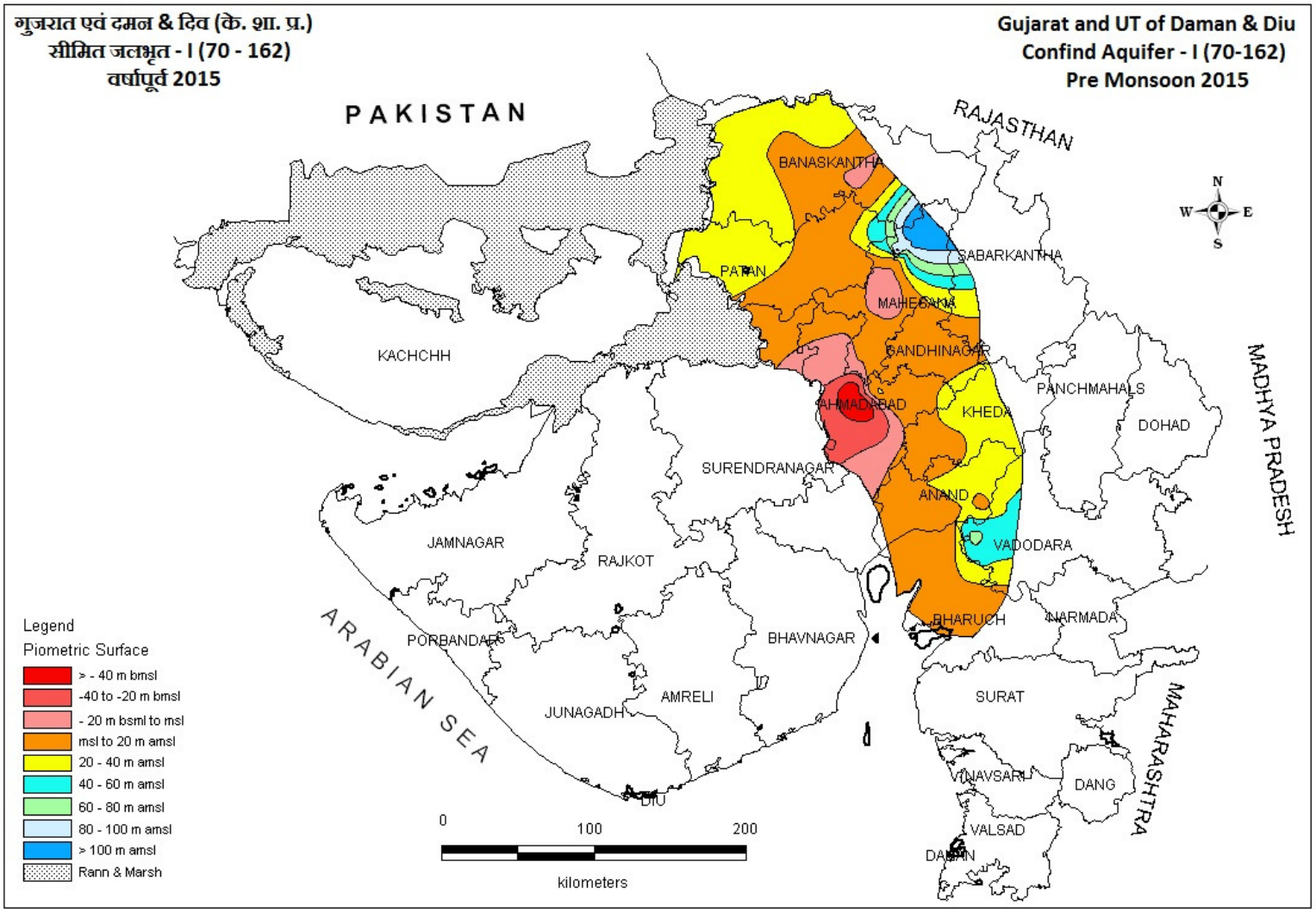
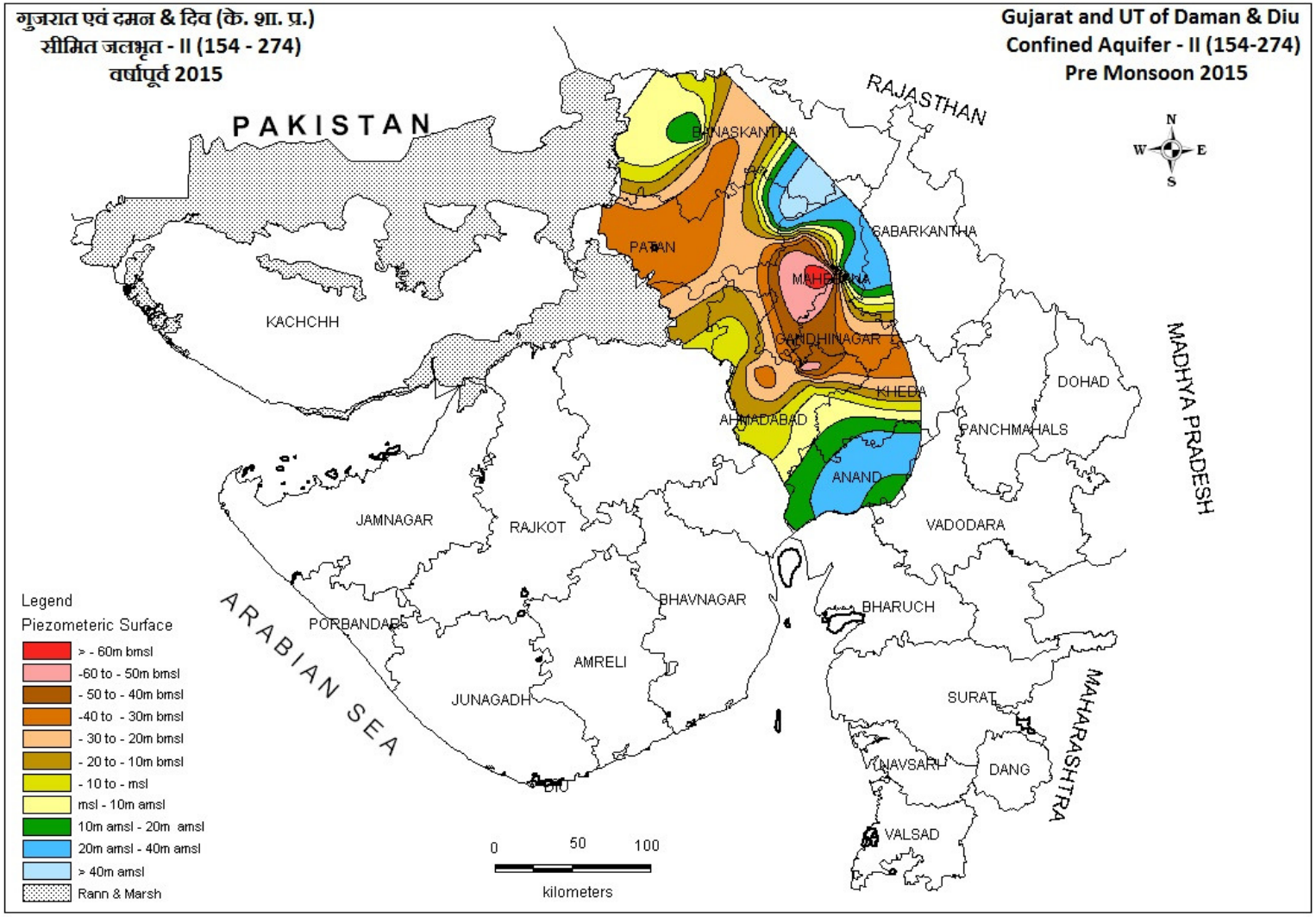

गुजरात एवं दमन & दिव (के. शा. प्र.)
सीमित जलभृत - I (70 - 162)
वर्षापूर्व 2015
Gujarat and UT of Daman & Diu
Confind Aquifer - I (70-162)
Pre Monsoon 2015
PAKISTAN
RAJASTHAN
MADHYA PRADESH
MAHARASHTRA
ARABIAN SEA
KACHCHH
BANASKANTHA
PATAN
SABARKANTHA
MAHESANA
GANDHINAGAR
AHMADABAD
KHEDA
PANCHMAHALS
DOHAD
SURENDRANAGAR
ANAND
VADODARA
JAMNAGAR
RAJKOT
BHARUCH
NARMADA
PORBANDAR
BHAVNAGAR
JUNAGADH
AMRELI
SURAT
NAVSARI
DANG
VALSAD
DAMAN
DIU
N
S
E
W
0
100
200
kilometers
Legend
Piometric Surface
> - 40 m bmsl
-40 to -20 m bmsl
- 20 m bsml to msl
msl to 20 m amsl
20 - 40 m amsl
40 - 60 m amsl
60 - 80 m amsl
80 - 100 m amsl
> 100 m amsl
Rann & Marsh

Fig- 29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सीमित जलभृत - II (154 - 274)
वर्षापूर्व 2015
Gujarat and UT of Daman & Diu
Confined Aquifer - II (154-274)
Pre Monsoon 2015
PAKISTAN
RAJASTHAN
MADHYA PRADESH
MAHARASHTRA
ARABIAN SEA
BANASKANTHA
PATAN
SABARKANTHA
MAHESANA
GANDHINAGAR
KHEDA
AHMADABAD
ANAND
KACHCHH
DOHAD
PANCHMAHALS
VADODARA
JAMNAGAR
RAJKOT
BHAVNAGAR
BHARUCH
PORBANDAR
AMRELI
JUNAGADH
SURAT
NAVSARI
DANG
DIU
VALSAD
N
W
E
S
Legend
Piezometeric Surface
> - 60m bmsl
-60 to - 50m bmsl
- 50 to - 40m bmsl
-40 to - 30m bmsl
- 30 to - 20m bmsl
- 20 to - 10m bmsl
- 10 to - msl
msl - 10m amsl
10m amsl - 20m amsl
20m amsl - 40m amsl
> 40m amsl
Rann & Marsh
0
50
100
kilometers

4.0 HYDROCHEMISTRY

Hydrochemistry is an interdisciplinary science that deals with the chemistry of water in the natural environment. The classical use of chemical characteristics in hydrochemistry is to provide information about the regional distribution of water qualities. At the same time, hydrochemistry has a potential use for tracing the origin and history of water. The hydrochemistry can also be of immense help in yielding information about the environment through which water has circulated. Hydrochemistry can be helpful in knowing about residence time, flow path and aquifer characteristics, as the chemical reactions are time and space dependent.

The diverse physiographic, climatic, topographic and geologic conditions have given rise to diversified groundwater situations in different parts of Gujarat State. Physiographically, Gujarat State is categorized as the Mainland, Saurashtra and Kacchh. The groundwater quality of Gujarat is variable and complex as its quality is influenced by local geology, coastal salinity, inherent salinity, and contamination and heavy withdrawal of groundwater. Gujarat has the longest coastline in the country with several creeks, as a result, during tides sea water invades inland through these creeks which in turn has impact on groundwater quality along it's coasts. High chemical concentrations mostly occur in coastal regions due to seawater intrusion brought by upcoming or reversal in hydraulic gradient.

4.1 Groundwater Quality Monitoring

A systematic plan for conducting water quality monitoring is called Monitoring Programme, which includes monitoring network design, preliminary survey, resource estimation, sampling, analysis, data management & reporting. Monitoring of groundwater quality is an effort to obtain information on chemical quality through representative sampling in different hydro geological units. Groundwater is commonly tapped from phreatic aquifers through dug wells in a major part of the state and through springs and hand pumps in hilly areas.

Central Ground Water Board (WCR), Ahmedabad has monitored a total number of 602 water samples collected during May 2015, for basic parameters determining pH, EC, TDS, CO3, HCO3, Cl, NO3, SO4, F, Ca, Mg, TH, Alkalinity, Na, K and SAR, involving use of instruments such as pH meter, EC meter, flame photometer, UV/ Visible Spectrophotometer and titrimetric methods. Further 602 water samples received during the same period were analyzed for As by colorimetric method using Visible spectrophotometer.

4.2 Ground water quality scenario in the state and UT of Daman & Diu

From the analytical results it has been observed that majority of water samples collected from observation wells of CGWB in a major part of the state fall under desirable or permissible category and hence are suitable for drinking purposes. However, a small percentage of well waters are found to have concentrations of some constituents beyond the permissible limits. Such waters are not fit for human consumption and are likely harmful to health on continuous use. Based on the results it is found that groundwater in the state is mostly of calcium

bicarbonate type when the Electrical conductivity is below 750uS/cm. There are mixed cation and mixed anions type groundwater in the state when the electrical conductance is between 750 and 3200 uS/cm and waters with electrical conductance more than 3200 uS/cm are of sodium chloride type.

A total number of 1204 water samples collected water samples analyzed for different chemical parameters from National Hydrograph Network Monitoring Station Samples out of which 602 were for basic parameters and 602 for Arsenic analysis spread over 25 districts of Gujarat and UT of Daman & Diu, The overall results of hydro chemical analysis are attached in **Annexure_ IV**. District wise maximum range distribution of different pollution parameters observed during analysis is summarized in the attached **Table 20.**

Major quality findings are described as under: -

4.2.1 The Electrical conductivity

Electrical conductivity or Total dissolved solids or Salinity is the saltiness or dissolved salt contents of a water body. Different substances dissolve in water giving it taste and odour. In fact, human beings have developed senses, which are able to evaluate the potability of water. Electrical conductivity represents total number of cations and anions present in groundwater, indicating ionic mobility of different ions, total dissolved solids and saline nature of water. In general water having EC < 1500uS/cm, is considered as fresh water, EC 1500 – 15000uS/cm, is considered as Brackish water and > 15000uS/cm is considered as saline water. In general in most parts of the state the EC value is found to be very high i.e. 3200uS/cm to 15000uS/cm and more. It was observed that out of 599 water samples 104 samples show EC value more than 3200 uS/cm, which indicates the gravity of salinity problem in the area. The map showing of Electrical Conductivity in state is represented in **Fig30**.

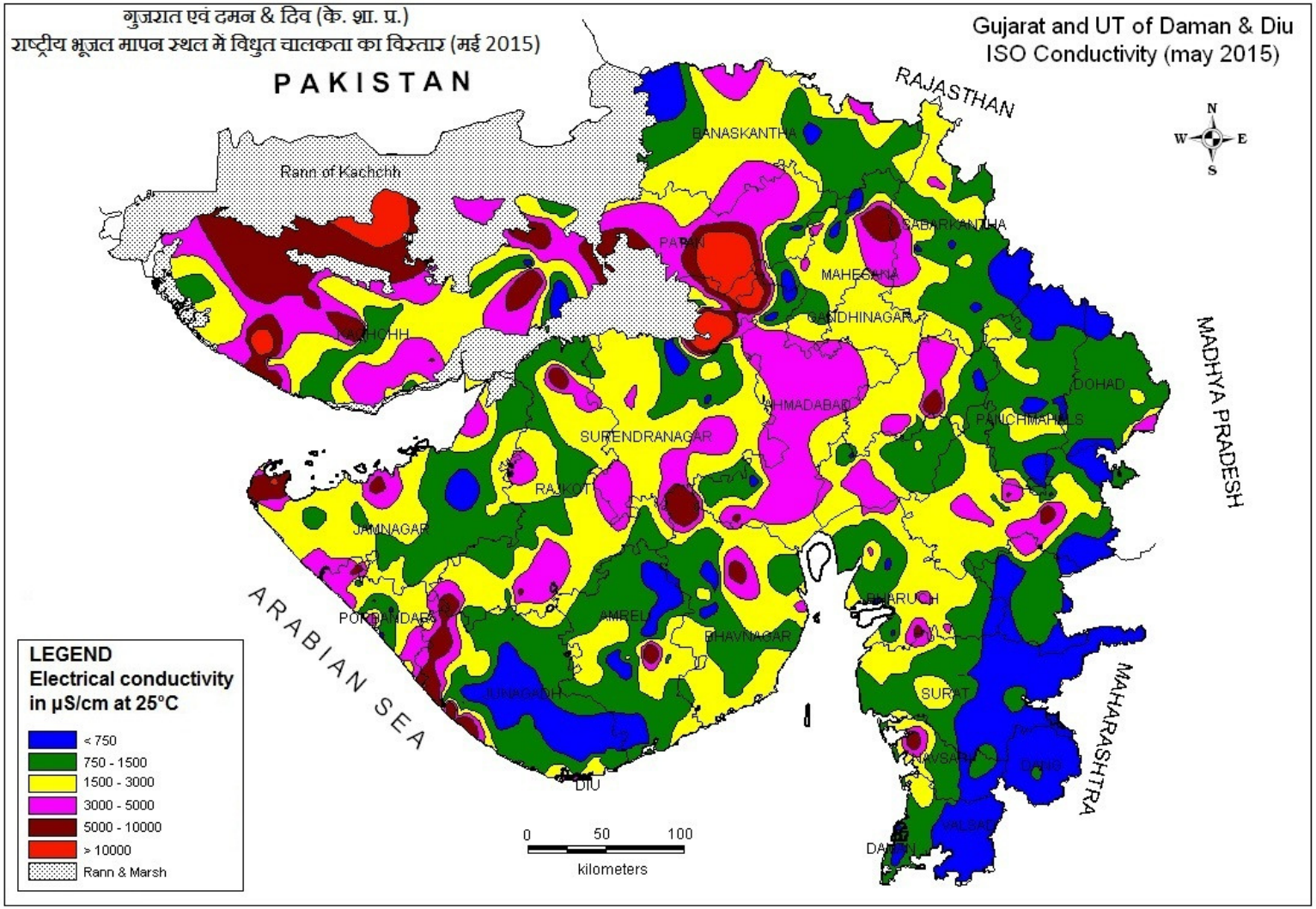
A close observation reveals High **EC Values** > 3200 uS/cm have been found in 104 number of samples out of 599 total number of samples analyzed indicating saline nature of water in most part of the state. High salinity problem in Northwestern parts of the state to the extent of EC having > 15000 uS/cm, showing brackish water problem at Dalod 15440 **Ahmedabad**, Vinjhan-1 15920,**Kachh**, Motichander 29200 **Patan**. Kharaghoda 54000, **Surendernagar.** Saline nature of water is also eminent in Samrasar EC 10420 **(Jamnagar).** Chorwad EC 10600, Antroli 10850, Maktupur1 10770, Shardagram 10330,**(Junagarh),** Khavada 11940, **(kacchh)** having EC in the range of 10000 uS/cm- 15000uS/cm. Further EC values ranging between 3200uS/cm – 10000uS/cm have been observed in places of the districts Ahmedabad, Amreli, Anand, Banaskantha,Bharuch, Bhavnagar, Dohad, Diu, Jamnagar, Junagadh, Kacchh, Kheda, Mehsana, Narmada, Navsari, Patan, Porbander, Rajkot, Sabarkhantha, Surendranagar, and Vadodara In most other parts of the state water is almost fresh with respect to EC and salinity

4.2.2 Chloride

Chloride is present in all natural waters being highly soluble and moves freely through soil and rock. In groundwater Chloride content is mostly below 250 mg/l except in cases where inland salinity is prevalent and in coastal areas. BIS have recommended a desirable limit of 250mg/l of chloride in drinking water; this concentration limit can be extended to 1000 mg/l of chloride in cases where no alternative source of water with desired concentration is available. The map showing distribution of Chloride in the state is represented in **Fig 31**.

A close observation of the High **Chloride** > 1000mg/L have been found in 63 numbers of samples out of 599 total number of samples analyzed indicating saline nature of water in most part of the state. That maximum chloride value is observed in western parts of the state to the extent of Chloride having >5000 mg/L, showing high salinity problem at Vinjhan 1 5141mg/L, Kacchh, Motichander 11132mg/l (Patan) , Khara ghoda 24318mg/L Surendranagar. Chloride values ranging between 1000 – 5000 mg/L have been found in , Dalod 4402mg/L,Gamph 1028mg/L,Viramgam2 1250 mg/l (Ahmedabad), Bhuva 2304mg/l, (Amreli).Panoli 1631mg/l, (Bharuch), Vallbhipur 1382mg/L, Tardhera 2056mg/L (Bhavnagar), Jolawadi 1064mg/L Diu, Varwada 2801mg/l, Mojap 1702mg/l ,Samrasar 31917mg/l, Kalyanpur 1205mg/l , Kajoda 1489mg/L,Bedanpur 1028mg/L, Lambha 1134mg/L (Jamnagar), Antroli 3479mg/l, Khambaliya1 2308mg/l, Lohej 2201mg/l, Shardagram 3195mg/l , Bamanwara 2592g/l, Chorwad 3337mg/l, Maktupur1 3408mg/l, SII 1598mg/L, Kanek 2308mg/l ,Arena 2592mg/L, Bantwa 1747mg/L, Kalej 2059mg/L, Khorada 1 1420mg/L (Junagarh) , Lilpur 2482mg/l, Ughedi 2375mg/L, Bambhedai 1985mg/L, Vadala 1063mg/L, Sukhpar 2730mg/L, Khavda 2836mg/L Devisar 1418mg/L, Ratanpur Khadir 1099mg/L, Samkhiari 1134mg/L, Shinaya 1347mg/L, Moticher 1064mg/L, Desalpur RaPAR 1985MG/l (Kacchh) ,Alina 2286mg/L (Kheda), Unad 1527mg/l, (Mahesana), Navsari 1 2095mg/l (Navsari) , Piprala 1631mg/L (Patan), Bhavpura 1666mg/l, , Oddar 1420mg/l, Kuchadi 1276mg/l , Mojieana 1985mg/l, , Kadegi 1008mg/L, Ratanpur 1846g/L, Visawada 1311mg/L (Porbander), Amarnagar 2911mg/l, Ganod 1704mg/L, Pedhla 1463mg/L, Chordi 1377mg/L l(Rajkot), Silwad 1250mg/l, (Sabarkhantha), Moti moladi 1278mg/l, Shiyani 1065mg/L(Surendranagar), Govindpura 1702mg/l, Saidal 1028m Vadodara). In most of the other places chloride problem is not eminent.

Fig-30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Gujarat and UT of Daman & Diu
ISO Conductivity (may 2015)
PAKISTAN
RAJASTHAN
MADHYA PRADESH
MAHARASHTRA
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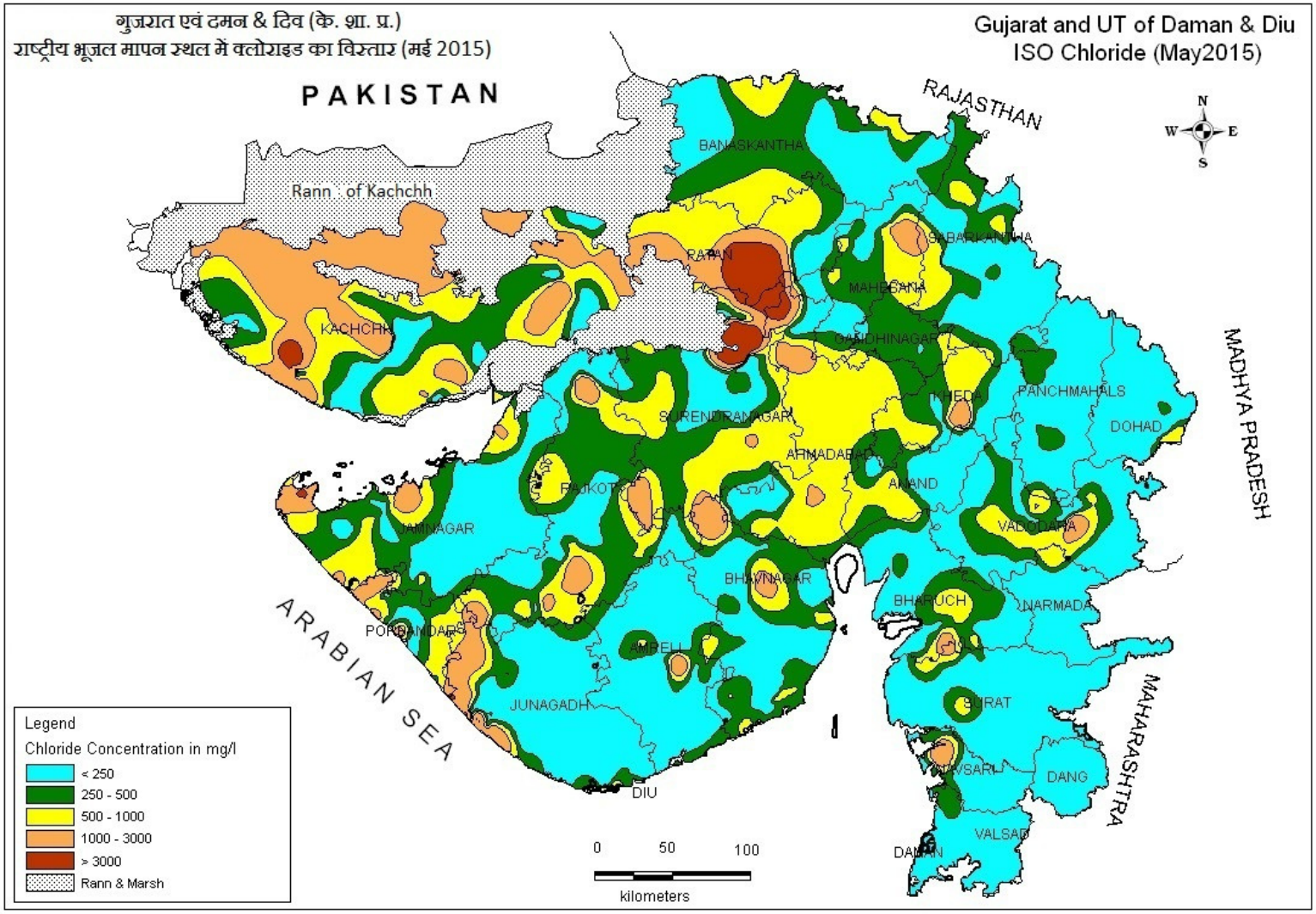
Rann of Kachchh
BANASKANTHA
SABARKANDHA
PATAN
MAHESANA
GANDHINAGAR
KACHCHH
AHMADABAD
DOHAD
PANCHMAHALS
SURENDRANAGAR
RAJKOT
JAMNAGAR
PORBANDAR
AMRELI
BHAVNAGAR
BHARUCH
JUNAGADH
SURAT
NAVSARI
DIU
DAMAN
VALSAD
N
S
W
E
LEGEND
Electrical conductivity
in µS/cm at 25°C
< 750
750 - 1500
1500 - 3000
3000 - 5000
5000 - 10000
> 10000
Rann & Marsh
0
50
100
kilometers

Fig-31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DOHAD
SURENDRANAGAR
AHMADABAD
RAJKOT
ANAND
JAMNAGAR
VADODARA
BHAVNAGAR
BHARUCH
NARMADA
PORBANDAR
AMRELI
JUNAGADH
SURAT
NAVSARI
DANG
DIU
VALSAD
DAMAN
Legend
Chloride Concentration in mg/l
< 250
250 - 500
500 - 1000
1000 - 3000
> 3000
Rann & Marsh
0
50
100
kilometers
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W

4.2.3 Nitrate

Nitrate is a naturally occurring compound that is formed in the soil when nitrogen and oxygen combine. The primary source of all nitrates is atmospheric nitrogen gas. This is converted into organic nitrogen by some plants by a process called nitrogen fixation. Dissolved nitrogen in the form of nitrate is the most common contaminant of groundwater. Nitrate in groundwater generally originates from non point sources such as leaching of chemical fertilizers and animal manure, groundwater pollution from septic and sewage discharges etc. It is difficult to identify the natural and man-made sources of nitrogen contamination of ground water. Some chemical and microbiological processes such as nitrification and denitrification also influence the nitrate concentration in ground water. The map showing distribution of nitrate in the state is represented in **Fig 32**.

As per the BIS standard for drinking water the maximum desirable limit of nitrate concentration in groundwater is 45 mg/l .Though nitrate is considered relatively non-toxic, a high nitrate concentration in drinking water is an environmental health concern arising from increased risks of methaemoglobinemia particularly to infants. Adults can tolerate little higher concentration.

High Nitrate > 45mg/Lhave been found in 179 number of samples out of 599 total number of samples analyzed indicating high nitrate pollution due to use of nitrogen containing fertilizer, domestic and agriculture waste and man made anthropogenic activities. Nitrate value have been found in the range of 100mg/l–400mg/l at 220mg/l Goradka, 210mg/l Bhuva,225mg/l Bagasara, 230mg/L Badhda, Govadka 105mg/L, Ankadia Mota 115mg/L, Dhari 125mg/l, Veerpur 114mg/L,Fifad 185mg/L (Amreli). Amirgarh 115mg/L, Ratanpur 2 110mg/L (Banaskantha), 130mg/l Kavi, (Bharuch), 114mg/L Vavdi, 135mg/L Shantinagar, 108mg/L Bhutia (Bhavnagar), 200mg/l Dahod UrbanII, 220mg/l Dahod I, 105mg/L Dhanpur, 400mg/L Garbara (Dahod), 126mg/L Gomtimata (Diu), 140mg/L Paliya (Gandhinagar), 160mg/l Bed, 120mg/L Vadtara, 102mg?l Bedanpur, 190mg/L Khirsara, (Jamnagar), 110mg/L Seriakhan, 130mg/L Kalej (Junagardh), 110mg/l Samkhiyari, (kacchh), 175mg/L Ladvel, 105mg/L Shekhupura, (Kheda), 185mg/L Unjha (Mehsana), 230mg/L Nemaria, (Narmada), 135mg/L Ranipura, (Panchmahal), 245mg/L Patan 2, 150mg/L Piprala (Patan), 175mg/l Palkheda , 108mg/L Bakhrala (Porbander), 150mg/l Kamlapur, 105mg/L Dhoraji 1, 140mg/L Hadmadia, 120mg/L Mota Dadwa, 125mg/L Jaspur, 120mg/L Jasdan 2, 105mg/L Movaiya (Rajkot),135g/l Boral, 190mg/l Choriwad, 100mg/l Silwad, , 140mg/l Gadada, 115mg/l Kesarpur-Idar, 165mg/l Khedbramah,120mg/l Matoda, 140mg/l Wadali, 130mg/L Gadha 1, 130mg/L varwada, 125mg/L Idar, 125mg/L Modasa 2, 125mg/L Seenawad, 130mg/L Matha Suliya (Sabarkhantha), 130mg/L Mandvi2, 105mg/L Nizar 1 (Surat), 165mg/l Sukhpar, 145mg/l Motimoladi, 215mg/l Sudamda (Suredranagar), 130mg/L Saidal (Vadodara)

In addition to above critically nitrate affected locations, 112 water samples at different locations have been found to contain nitrate in the range of 45mg/l- 100mg/l representing of nitrate content . In most of other places having nitrate < 45mg/l there is no problem with respect to nitrate pollution.

4.2.4 Fluoride

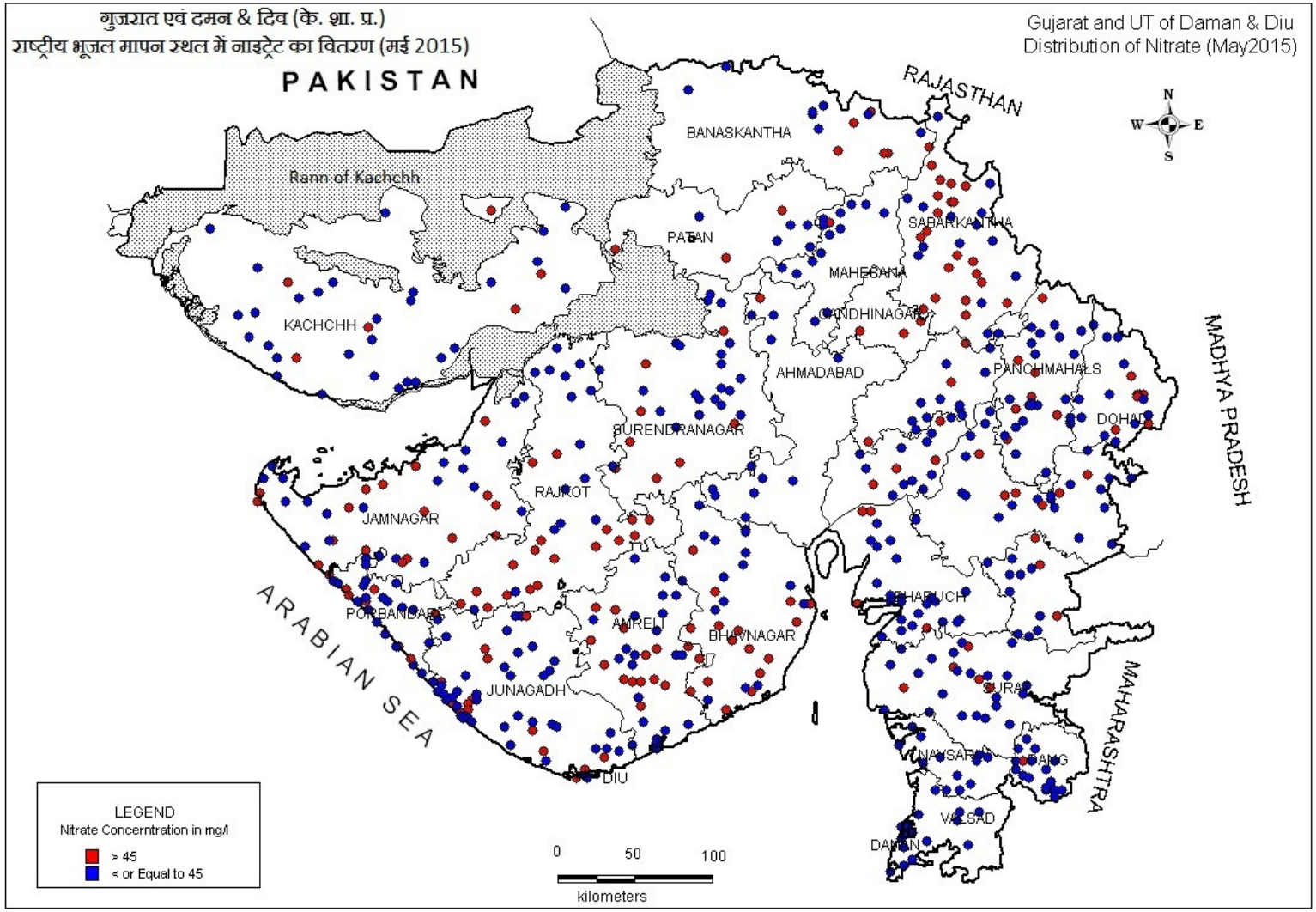
Fluorine is a fairly common element but it does not occur in the elemental state in nature because of its high reactivity. Fluorine is the most electronegative and reactive of all elements that occur naturally within many type of rocks. It exists in the form of fluorides in a number of minerals of which fluorspar, cryolite, fluorite & fluorapatite are the most common.

Most of the fluoride found in groundwater is naturally occurring from the breakdown of rocks and soils or weathering and deposition of atmospheric particles. Most of the fluorides are sparingly soluble and are present in groundwater in small amount. The type of rocks, climatic conditions, nature of hydro geological strata and time of contact between rock and the circulating groundwater affect the occurrence of fluoride in natural water. Presence of other ions particularly bicarbonate and calcium ions also affects the concentration of fluoride in groundwater. The map showing distribution of Fluoride in the state is represented in **Fig 33**.

It is well known that small amount of fluoride (>1.0 mg/l) have proven to be beneficial in reducing tooth decay. Community water supplies commonly are treated with sodium fluoride or fluorosilicates to maintain fluoride level ranging from 0.8 to 1.2 mg/l to reduce the incidences of dental carries. However, high concentrations (>1.5mg/l) have resulted in staining of tooth enamel while at still higher levels of fluoride (> 5.0 mg/l) further critical problems such as stiffness of bones. BIS has recommended an upper desirable limit of 1.0 mg/l of fluoride concentration in drinking water, which can be extended to 1.5 mg/l in case no alternative source of drinking water is available. Water having fluoride concentration more than 1.5mg/l is not suitable for drinking purposes.

High Fluoride >1.5mg/l, which is mainly attributed due to geogenic conditions, have been observed in 46 water samples out of 599 water samples analyzed. Fluoride values to the extent of 4.50 mg/l Barvala, 2.80 mg/L Dalod, 1.92mg/l Tagadi (Ahmedabad**)**, 2.50 mg/L Victor (Amreli,), 1.80 mg/l Ganapipli and 2.30 mg/L khoda (Banaskantha), 2.84mg/l Sajod (Bharuch), 4.35 mg/l Ayodhayapuram, 2.96mg/L Vallabhipur, 1.75mg/l Ningala (Bhavnagar**)**, 2.80 mg/l Garbara, 2.66mg/l Badpa,2.56mg/l Dahod Urban3,2.60 mg/l Dahod1, 2.50mg/l Khandaniya (Dohad**)**, 3.00mg/l Samrasar 2.20 mg/L Bhogat, 2.98mg/l Kalyanpur1, 1.80mg/l Mojap, 3.00mg/l Ambaliya, 2.16 Aramda (Jamnagar), 2.68 mg/l Kothara (Kacchh**)**, 2.50 mg/l Kapadvanj (Kheda), 1.80mg/l unad and 1.90 Dosaj (Mahesana**)**, 2.80mg/l Dhanol nani, 1.60mg/l Natapur, 1.80 mg/l Khadki,1.70mg/l Ranipura, 1.70mg/l Santrampur1 (Panchmahal), 3.00mg/l Piprala, (Patan), 1.60mg/l Degam (Porbandar), 2.90 mg/l Amarnagar, 2.34mg/l Ganod, 2.70mg/l Upleta (Rajkot), 2.56mg/l Sabalwad and 2.60mg/l Idar (Sabarkhantha), 3.52mg/l Ratanpur1, 2.20mg/l Muli, 1.60mg/l Dhama, 1.55mg/l Lakhtar, 2.20mg/l Dhandhalpur (Suredranagar**),** 1.94mg/l Motichikhali, 2.36mg/l Chotaudaipur, 1.92mg/l Vega, 2.90mg/l Masor, (Vadodara), have been observed indicating prominence of fluoride problem in these areas.

Fig-32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MAHARASHTRA
ARABIAN SEA
Rann of Kachchh
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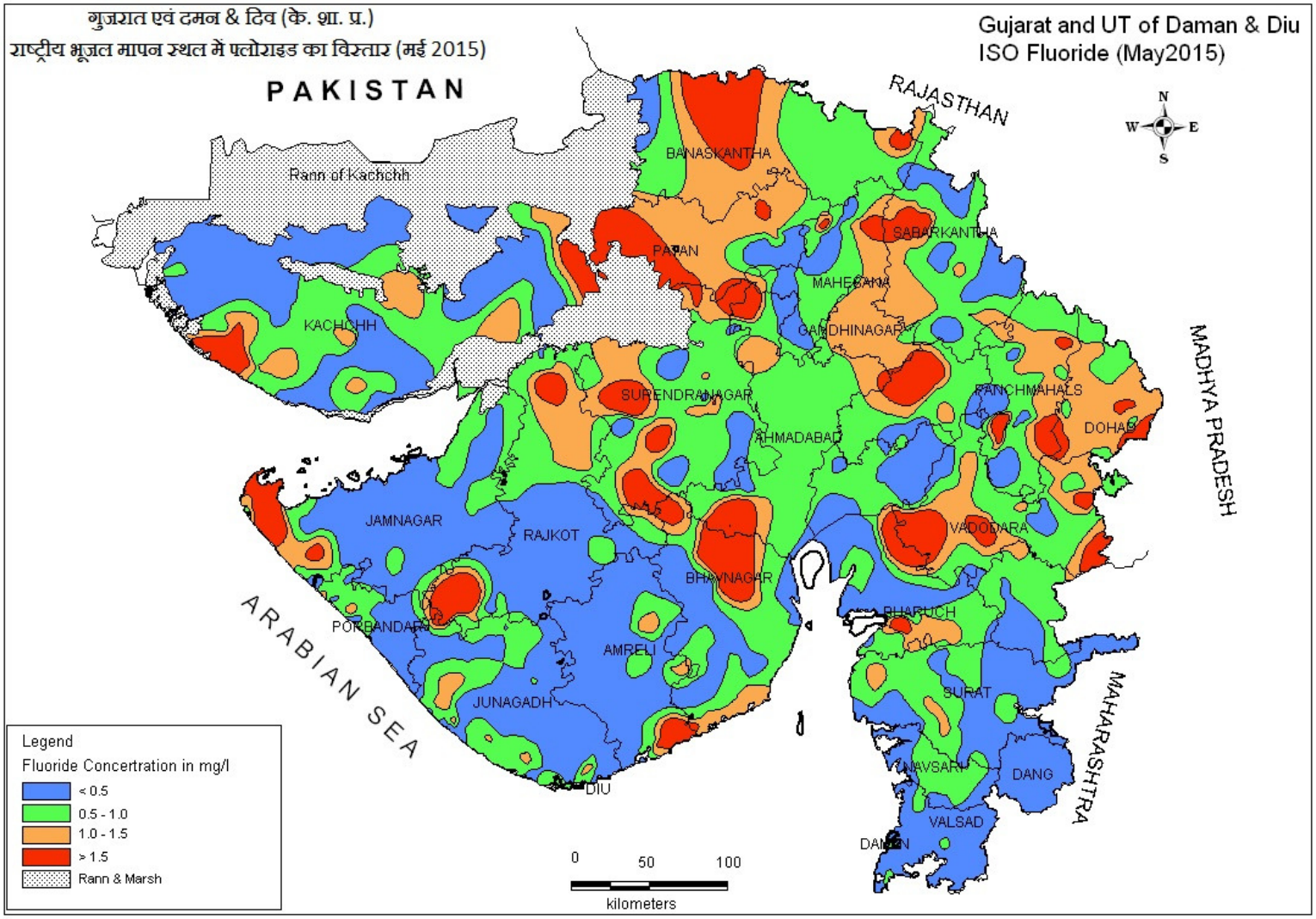
PATAN
SABARKANTHA
MAHESANA
GANDHINAGAR
AHMADABAD
PANCHMAHALS
DOHAD
KACHCHH
SURENDRANAGAR
RAJKOT
JAMNAGAR
PORBANDAR
AMRELI
BHAVNAGAR
JUNAGADH
DIU
BHARUCH
SURAT
NAVSARI
DANG
VALSAD
DAMAN
N
S
E
W
LEGEND
Nitrate Concerntration in mg/l
> 45
< or Equal to 45
0
50
100
kilometers

Fig-33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KACHCHH
SURENDRANAGAR
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RAJKOT
VADODARA
BHAVNAGAR
BHARUCH
PORBANDAR
AMRELI
SURAT
JUNAGADH
NAVSARI
DANG
DIU
VALSAD
DAMAN
N
S
W
E
0
50
100
kilometers
Legend
Fluoride Concertration in mg/l
< 0.5
0.5 - 1.0
1.0 - 1.5
> 1.5
Rann & Marsh

4.2.5 Arsenic

Arsenic is a naturally occurring trace element found in rocks, soils and the water in contact with them. Arsenic has been recognized as a toxic element and is considered as human health hazard. As per BIS standard for drinking water (BIS 1991) Arsenic in ground water beyond permissible limit (>50 ug/L) has not been determined in any sample out of total samples analyzed (599). A total number of samples having Arsenic in the range of 10-50 ug/L is 24, repeat analysis may be undertaken at these places to rule out any Arsenic hazard. The point value map of Arsenic in Gujarat State is as per Figure 34.

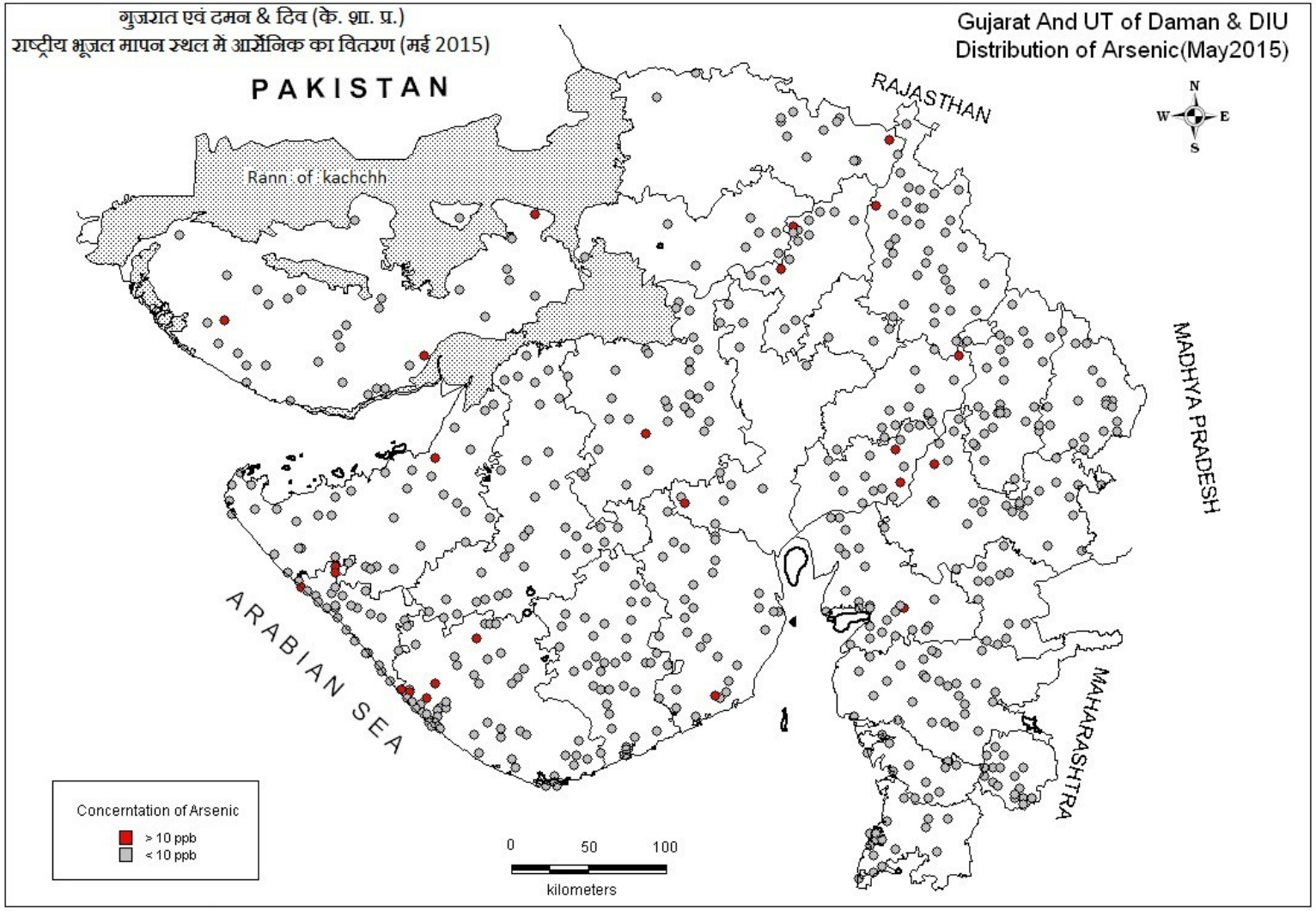
4.2.6 Conclusion

In general groundwater quality is good in hard rock areas occupying eastern hilly part of the state, central part of Kachchh and Saurashtra plateau. In soft rock and unconsolidated formations ground water quality is variable.

The quality of groundwater deteriorates in discharge area. Quality of ground water is inferior along the coast, the Rann and in the low-lying saline tract between Saurashtra and main land Gujarat.

The deterioration in groundwater quality in the coastal areas is mainly due to overdrawals causing seawater ingress which needs to be arrested.

Fig-34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PAKISTAN
RAJASTHAN
MADHYA PRADESH
MAHARASHTRA
ARABIAN SEA
Rann of kachchh
N
W
E
S
Concerntation of Arsenic
> 10 ppb
< 10 ppb
0
50
100
kilometers

Distrct wise range distribution of pollutioin parameters observed during HGNWS monitoring 2015							
S.N.	District	analysed for Basic	No of samplese with EC > 3200 uS/cm	No of samplese with Cl > 1000mg\L	No of samples with NO3 > 45mg/L	No of samplese with F > 1.5 mg\L	No of samples with As > 50ug\L
1	Ahmedabad	11	6 (Max.15440,Dalod)	3 (Max.4402,Dalod)	1 (Max.50,Dalod)	3(Max.4.50,Barwala)	
			5(Min.385,Dhanduka 1)	8(Min.14,Dhanduka 1)	10(Min.00,Endla)	8(Min.0.35,Dhanduka 1)	(Max. 7 Dalod)
2	Amreli	38	1 (Max.9175,Bhua)	1(Max.2304,Bhuva)	15 (Max.230,Badhda)	1 (Max.2.50,Victor)	
			37(Min.190,Trakuda)	37(Min.21,Trakuda)	23(Min.5,Chavand)	37(Min.0.00,Dharangani)	(Max. 20,Jafrabad)
3	Anand	15	3(Max.4319,Laxmipura)	0 (Max.922,Kansari 1)	4 (Max.90,Adas)	0(Max.1.00,Ras)	
			12(min.637,Tol)	15(Min.64,Tol)	11(Min.2,Bhadran)	15(Min.0.00,Bhadran)	(Max. 12,Ras)
4	Banaskantha	13	2(Max.4028,Khoda	0 (Max. 852,Amirgarh)	5 (Max.115,Amirgarh)	2(Max.2.30,Khoda)	
			11(Min.478 ,Dantiwada 1)	13(Min.43,Bharol 1)	8(Min.8,Bharol 1)	11(Min.0.20,Bharol 1)	
5	Bharuch	26	6(Max.5635,Panoli)	1(Max.1631,Panoli)	4(Max.130,Kavi)	1 (Max. 2.84,Sajod)	
			20(Min. 558,Mehgam 1)	25(Min. 42,Bhensli)	22(Min. 2,Nirnavi)	25(Min.0.00,Chidra)	
6	Bhavnagar	32	4(Max.8460,Tardhera)	2(Max.2056,Tardhera)	16 (Max. 135,Shantinagar)	3(Max. 4.35,Ayodhyapuram)	
			28(Min. 358,Timbi 2)	30(Min. 28,Timbi 2)	16(Min.5,Datha)	29(Min.0.03,Ghogha)	
7	Daman	5	0(Max.1453,Warkhund)	0 (Max. 227,Warkhund)	0 (Max. 12,Warkhund)	0 (Max 1.05,Warkhund)	
			5(Min.678,Dalwada)	5(Min.36,Manawad)	5(Min.0, Dalwada)	5(Min. 0.20,Manwad)	
8	Dahod	20	1 (Max. 4865,Garbara)	0 (Max.895, Garbara)	7 (Max. 400, Garbara)	5 (Max.2.80,Garbara)	
			19(Min.612, Khandania)	20(Min.21, kanjetha)	13(Min. 3, Varamkheda)	15(Min.0.60,Dahod 2)	
9	Diu	3	2(Max.4000, Gomtimata)	1(Max.1064,Jolawadi)	1 (Max. 126,Gomtimata)	0(Max.0.90,Gomtimata).	
			1(Min.2947,Diu)	2(Min.744,Diu)	2(Min.2 ,Diu)	3(Min.0.50, Diu)	
10	Gandhinagar	2	0 (Max. 2677,Serthapara)	0 (Max. 284,Serthapara)	2 (Max.140,Paliya)	0 (Max. 1.30,Serthapara).	
			2(Min.1977,Paliya)	2(Min.249,Paliya)	0(Min.70,Serthapara)	2(Min.1.12,Paliya)	
11	Jamnagar	39	8(Max.10420,Samrasar)	7(Max.3191,Samrasar)	18 (Max. 190 khirsara)	6(Max. 3.00, Samrasar)	
			31(Min. 372, Motimalti)	32(Min.35, Motimalti)	21(Min. 2, Khirsara)	33(Min. 0.10, Khirsara)	
12	Junagadh	53	15(Max.10800,Antroli)	13(Max. 3479, Antroli)	14(Max. 130,Kalej)	0(Max. 1.36, Goraj-1	
			38(Min. 418,Juthal)	40(Min. 35,Juthal)	39(Min. 2, Kendipur)	53(Min. 0.05,Antroli)	
13	Kachchh	36	16 (Max. 15920,Vinjhan-1)	13(Max. 5141, Vinjhan-1)	6 (Max. 110,Samkhiyari)	1 (Max.2.68, Kothara)	
			20(Min. 374,Rapur-2)	22(Min. 21, Gagodar)	30(Min. 0, Sedat)	35(Min.0.00 Motichher)	

14	Kheda	14	3 (Max.8060,Alina)	1 (Max.2286, Alina)	2 (Max. 175, Ladvel)	01(Max. 2.50,Kapadvanj)	
			11(Min.714,Balasinor 1)	13(Min. 57, Bariyavi)	12(Min. 0.00, Bariyavi)	13(Min.0.10,Alindra)	
15	Mahesana	15	3 (Max. 8190,Unad 1)	1(Max.1527, Unad 1)	1 (Max. 185, Unjha)	2 (Max. 1.90,Dosaj)	1 (Max. 0.85,Asjol)
			12(Min. 385,Asjol)	14(Min.21,Asjol)	14(Min. 0.00,Tarabh)	13(Min.0.15,Asjol)	11(Min.0.00,Bhandupara)
16	Narmada	12	1 (Max. 4522Namariya)	0(Max. 886,Namaria)	3(Max. 230,Nemaria)	0 (Max. 1.08, Namaria)	6(Max. 3.50,Jhankh)
			11(Min. 500, Khadiapada)	12(Min. 21, Ringaini)	9(Min. 0, Ringani)	12(Min 0.30,Khadiapara)	2(Min0.00,Heerapur)
17	Navsari	11	1 (Max 6322,Navsari)	1 (Max. 2095,Navsari)	0 (Max. 17,Kaliyari)	0 (Max. 0.90,Duvada)	0(Max. 0.03,Moti Valzar)
			10(Min. 700,Moti valzar)	10(Min. 28,Manavkhadak)	11(Min. 0, Manavkhadak)	11(Min.0.20, Sharikhurd)	5(Min.0.00,Unai)
18	Panchmahals	29	0(Max. 2381,Vejalpur)	0 (Max. 469, Lunawada)	7(Max. 135, Ranipura)	5(Max. 2.80,Dhanol nani)	1(Max. 2.55,Sarsawa)
			29(Min. 71,Godara,college)	29(Min.14, Godara ,college)	22(Min. 3, Khadki)	24(Min. 0.00, Tuwa)	10(Min.0.00,Khadki)
19	Patan	8	3 (Max.29200,Motichander)	2 (Max.11132,Motichander)	3 (Max.245, Patan-2)	1 (Max. 3.00,Piprala)	
			5(Min. 778,Shankhari)	6(Min.43,Sander)	5(Min. 4 Sander)	7(Min.0.00,Dharmoda)	
20	Porbandar	30	12(Max.6694, Mojieana)	6(Max.1985, Mojieana)	8 (Max.175,Palkhada)	1(Max.1.60, Dehagam)	2(Max.2.40,Kuchhadi)
			18(Min.431, Navibander)	24(Min.64, Navibander)	22(Min. 1.0,Tukara)	29(Min.0.00,Pata)	0(Min.0.85,Patla)
21	Rajkot	34	8(Max.8753, Amarnagar)	4(Max. 2911,Amarnagar)	18(Max. 150, Kamalapur)	3(Max.2.90,Amarnagar)	0 (Max.0.08,Sardhar1)
			26(Min.768, Patanvav)	30(Min.57, Patanvav)	16(Min.1, Mota gundala)	31(Min.0.11, Pedala)	5(Min.0.00,Dadia)
22	Sabarkantha	38	3(Max. 4826,Silwad	1 (Max. 1250, Silwad)	24 (Max.190,Choriwad	2(Max.2.60, Idar)	1(Max.0.78,Sabbalwad)
			35(Min. 524,Virpur2j	37(Min.57, Malpur)	14(Min. 0, Megraj)	36(Min.0.00, Atarasuma)	16(Min.0.00,Malpur)
23	Surat	28	0 (Max. 2614, Mota)	0(Max.639,Wadoli)	5(Max 130,Mandvi2)	0(Max.1.25, Olpad)	0(Max. 0.20,Gangatha)
			28(Min.314,Vyara 1)	28(Min.21, Moti chher)	23(Min.0.0, Wadoli)	28(Min.0.20, Karanjvel)	23(Min.0.00,Digas)
24	Surendranagar	30	4(Max. 54000, Kharaghoda)	3 (Max. 24318, Kharaghoda)	8 (Max. 215, Sudamda)	5(Max.3.52, Ratanpur-1)	0 (Max.0.06,Bajana)
			26(Min.335, Ganshayamgadh)	27(Min.36, Ganshayamgadh)	22(Min.0.0, Laktar)	25(Min.0.20, Vanala)	12(Min.0.00,Muli)
25	The dangs	18	0 (Max. 972,Ahwa 1)	0 (Max. 121,Ahwa-1)	1(Max.75,Chincingoatha)	0 (Max. 0.35, Ahawa-1)	1(Max.0.60,Dhumkal)
			18(Min.318, Amapada)	18(Min.14, Chikadi)	17(Min.1,Dhumkal)	18(Min.0.10, Malegam)	14(Min.0.00,waghai)
26	Vadodara	28	3(Max. 6132,Govindpura)	2 (Max.1702,Govindpura)	6(Max.130,Saidal)	4(Max. 2.90, (Masor)	1(Max.0.45,ONGC Campus)
			25(Min.410, Ghamodi)	26(Min.28, Ghamodi)	22(Min.2.0,Kevadi)	24(Min.0.24, Govindpura)	3(Min.0.00,Rasulpur)
27	Valsad	11	0 (Max. 2423, Muli-1)	0 (MAX. 447,Muli-1)	0 (Max.26, Udhawada)	0 (Max.0.70,Tumb)	0 (Max.0.25,Fali)
			11(Min.210,Kapardha)	11(Min.21,Kapardha)	11(Min. 0.00,Tumb)	11(Min.0.10,Kapardha)	4(Min.0.00,,Lakadmal)
	Gujrat & UT of		104(Max. 54000 ,Kharaghoda)	63 (Max. 24318,Kharaghoda)	179(Max. 400, Garbara)	46(Max. 4.50, Barwala)	36 (Max.6.40,Bhanwad)
	Daman & Diu	599	493(Min.71, Godhara College)	536(Min.14, Kharaghoda)	420(Min. 0.0, Tumb)	553(Min.0.00, Pata)	179(Min.0.00,Lakadmal)

			Annexure: IIa
SITE_NAME	SITE_TYPE	BASIN_NAME	SUB_BASIN_NAME
Barvala	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Bhangadh_Pz	Tube Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Bhariyad	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Bopal_Pz_I	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Bopal_Pz_II	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Bopal_Pz_III	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Charanki	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Dalod	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Devalia	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Dhandhuka1	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Endla	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Gamph	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Ghuma	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Ghuma_Pz_I	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Ghuma_Pz_II	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Godhavi	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Hansalpur	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Hansalpur_Pz-I	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Hansalpur_Pz-II	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Hansalpur_Pz-III	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Hazipur Garden_Pz_I	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Hazipur Garden_Pz_II	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Hazipur Garden_Pz_III	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Ingoli_Pz	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Jhanjharwa_Pz_II	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Jholapur_Pz_I	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Jholapur_Pz_II	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Jholapur_Pz_III	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kankariya_Pz_I	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Kankariya_Pz_II	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati

Kumarkhan	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kundal	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kundali	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Mandal1	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Mandal2	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Navrangpura	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Pachcham_Pz	Tube Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Rajpada	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Rampara	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Ranpur2	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Salangpor	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Sanand I	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Sanand II	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Sanand iii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Sanand1	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Shilaj_Pz_I	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Shilaj_Pz_II	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Shilaj_Pz_III	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Sitapur	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Tagadi	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Tagadi1	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Thori mubarak	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Ughraj_Pz	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Ughraj1	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Vagad(Repl)_Pz	Tube Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Vasai_Pz_I	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Vasai_Pz_II	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Vatwa	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Vatwa Pz-I	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Vatwa Pz-II	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Vatwa Pz-III	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Viramgam	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Viramgam II	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch

Viramgam III	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Viramgam1	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Viramgam2	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Vithalpur	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Watchafalia	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Amreli	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Amreli_Pz	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Amritvel_Pz	Tube Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Ankadia mota	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Babra	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Babra_Pz	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Babra1	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Badhda	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Bagasara	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Bhavardi	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Bhavardi1	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Bherai	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Bhudani	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Bhuva	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Chalala	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Charkhadia_Pz	Tube Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Charkhadia1	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Chavand	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Dalkhania	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Dhantardi	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Dharangani	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Dhari	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Dhari_Pz	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Gokharwala	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Goradka	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Govadka	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Hamapur_Pz	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Haripur_Pz_I	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat

Haripur_Pz_II	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Ingorala	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Ishwaria	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Jafrabad	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Jesar_Pz	Tube Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Jesar1	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Jhar	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Jira	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Junasavar_Pz	Tube Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Kerala	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Khamba	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Khamba_Pz	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Khamba1	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Lathi	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Liliya_Pz_I	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Liliya_Pz_II	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Lotpur	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Luvariya	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Malila	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Mandal	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Morjhar	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Motabamodra_Pz	Tube Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Munjiasar Mota	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Munjiasar Mota1	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Nageshri	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Nageshri_Pz	Tube Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Nana jhinjhuda	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Nana jhinjhuda1	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Nanakankot	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Nesdi_Pz	Tube Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Oliya	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Piyava	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Punjapadar	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat

Saladi	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Salena	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Savarkundla	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Savarkundla1	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Shedhavadar	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Simiran	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Tajpur	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Thavi i	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Thavi ii	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Thavi iii	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Timbi	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Timbi1	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Timbi2	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Trakuda	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Vaghania juna	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Vankiya	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Vankiya1	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Vavdi_Pz	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Victor	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Virpur	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Adas_Pz	Tube Well	Mahi	Upto Kadana Dam
Anand	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Anklav_Pz_I	Tube Well	Mahi	Upto Kadana Dam
Anklav_Pz_II	Tube Well	Mahi	Upto Kadana Dam
Anklav2	Dug Well	Mahi	Upto Kadana Dam
Ashi_Pz	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Bandhani	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Bhadran	Dug Well	Mahi	Upto Kadana Dam
Borsad I	Tube Well	Mahi	Upto Kadana Dam
Borsad_Pz_II	Tube Well	Mahi	Upto Kadana Dam
Dali	D C B	Mahi	Upto Kadana Dam
Davalpura_Pz	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Dharmaj	D C B	Sabarmati	Lb Of Sabarmati Upto Hathmati

Ghora	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Golana	Tube Well	Mahi	Upto Kadana Dam
Golana	Tube Well	Mahi	Upto Kadana Dam
Hariyan_Pz	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Kansari1	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Kathana_Pz_I	Tube Well	Mahi	Upto Kadana Dam
Kathana_Pz_II	Tube Well	Mahi	Upto Kadana Dam
Laxmipura	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Navapura	Dug Well	Mahi	Upto Kadana Dam
Pansora_Pz_I	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Pansora_Pz_II	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Petlad_Pz_I	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Petlad_Pz_II	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Ras	Dug Well	Mahi	Upto Kadana Dam
Sarsa_Pz_I	Tube Well	Mahi	Upto Kadana Dam
Sarsa_Pz_II	Tube Well	Mahi	Upto Kadana Dam
Sarsa2	Dug Well	Mahi	Upto Kadana Dam
Siswa_Pz_I	Tube Well	Mahi	Upto Kadana Dam
Siswa_Pz_II	Tube Well	Mahi	Upto Kadana Dam
Sojitra_Pz_I	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Sojitra_Pz_II	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Tarapur Pz-I	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Tarapur Pz-II	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Tarapur2	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Tarapur2	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Vasad	Dug Well	Mahi	Upto Kadana Dam
Walmi_ I	Tube Well	Mahi	Upto Kadana Dam
Walmi_ II	Tube Well	Mahi	Upto Kadana Dam
Agdol	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Agthala	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Agthala	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Ambaji_Pz	Bore Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch

Amirgadh	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Aserda_Pz	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Asodar	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Balodhar_Pz-I	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Balodhar_Pz-II	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Balodhar_Pz-III	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Bhabhar iii	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Bhabhar Pz-I	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Bhabhar ii	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Bhabhar Pz-II	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Bhadli kotha	D C B	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Bharol	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Bharol1	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Bhorol_Pz_I	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Biyok_Pz-I	Tube Well	Luni and other drainage into Great Rann of Kutch	Mainly Luni
Biyok_Pz-II	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Chandisar	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Chitrasani	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Choudungri	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Dalwana_Pz_I	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Dalwana_Pz_II	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Danta	Bore Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Danta1	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Dantiwada	D C B	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch

Dantiwada	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Deesa1	D C B	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Deesa2	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Deesa2	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Dhanera Pz- II	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Dhanera Pz-I	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Dhanera1	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Dhaneri	D C B	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Dharnodhar	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Dharnodhar_Pz-I	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Dhima	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Gangodra	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Iqbalgarh	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Jalotra	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Jalotra Pz-I	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Jalotra Pz-II	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Jegal	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Jerda Pz-I	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Jerda Pz-II	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Jhat	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Jhat vadli	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Jorapura	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kamboi PZ-I	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kamboi-PZII	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kansari	D C B	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Khimmat	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Khimmat	Dug Well	Luni and other drainage into Great Rann of	Mostly Great Rann Of Kutch

		Kutch	
Khoda	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Khorada	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Kidotar	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kuchwada	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Lakhani i	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Lakhani ii	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Lakhani iii	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Mahi ow	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Mahi pz	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Mahi tw iii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Mahi tw_II	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Mahi twi	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Mahi_Pz	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Manglore	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Masali	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Mavsari I	Tube Well	Luni and other drainage into Great Rann of Kutch	Mainly Luni
Mavsari ii	Tube Well	Luni and other drainage into Great Rann of Kutch	Mainly Luni
Meda	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Mitha	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Mitha	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Miyal ii	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Miyal iii	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Miyal pz-i	Tube Well	Luni and other drainage into Great Rann of	Mostly Great Rann Of Kutch

		Kutch	
Mohabbat gadh	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Motasada	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Moti mahudi	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Nenava	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Palanpur_Pz	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Palanpur1	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Palanpur2	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Panthawada	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Rah	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Rah Pz-III	Tube Well	Luni and other drainage into Great Rann of Kutch	Mainly Luni
Rah_Pz I	Tube Well	Luni and other drainage into Great Rann of Kutch	Mainly Luni
Rah_Pz II	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Rampura	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Ramun	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Rasna	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Rasna(Repl)_Pz_I	Tube Well	Luni and other drainage into Great Rann of Kutch	Mainly Luni
Rasna1	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Rasna2	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Ratanpur2	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Rupal_Pz_I	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Rupal_Pz_II	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Samalwada	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Sankad	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Santorwada	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Sihori i	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch

Sihori ii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Sodapur	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Suigam	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Tharad1	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Tharad1	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Thawar	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Unchasan	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Unchasan	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Vadgamda	D C B	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Vav ii	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Vav i	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Vav2	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Amod	Dug Well	Mahi	Upto Kadana Dam
Arethi	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Bhadkodra	Dug Well	Mahi	Upto Kadana Dam
Bharuch	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Bharuch I	Tube Well	Narmada	Confluence With Sea To Navgam Dam
Bharuch Ii	Tube Well	Narmada	Confluence With Sea To Navgam Dam
Bhensli	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Dahegam	Dug Well	Mahi	Upto Kadana Dam
Dahej	Dug Well	Mahi	Upto Kadana Dam
Gandhar	Dug Well	Mahi	Upto Kadana Dam
Hansot	Tube Well	Tapti	Sea Confluence To Ukai
Hinglot	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Ilav	Dug Well	Tapti	Sea Confluence To Ukai
Jambusar	Tube Well	Mahi	Upto Kadana Dam

Jambusar1	Dug Well	Mahi	Upto Kadana Dam
Jambusar2	Dug Well	Mahi	Upto Kadana Dam
Jesajpur	D C B	Narmada	Confluence With Sea To Navgam Dam
Jetpur1	Dug Well	Tapti	Sea Confluence To Ukai
Jhagadia	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Juna borbhata	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Kadodara	Tube Well	Mahi	Upto Kadana Dam
Kalak	Dug Well	Mahi	Upto Kadana Dam
Kaswa	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Kavachiya	Dug Well	Tapti	Sea Confluence To Ukai
Kavi	Dug Well	Mahi	Upto Kadana Dam
Kondh	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Luhara	Dug Well	Mahi	Upto Kadana Dam
Mahegam	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Mahegam1	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Modoliya	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Mokhdi	Dug Well	Tapti	Sea Confluence To Ukai
Motwan	Dug Well	Tapti	Sea Confluence To Ukai
Mulad	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Navetha	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Netrang	Bore Well	Narmada	Confluence With Sea To Navgam Dam
Netrang(Rep)_Pz	Bore Well	Narmada	Confluence With Sea To Navgam Dam
Netrang1	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Nirnavi	Dug Well	Mahi	Upto Kadana Dam
Panoli	Dug Well	Tapti	Sea Confluence To Ukai
Raymal	Dug Well	Tapti	Sea Confluence To Ukai
Roja tankaria	Dug Well	Mahi	Upto Kadana Dam
Sajod	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Sarod	Dug Well	Mahi	Upto Kadana Dam
Simodra	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Talodra	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Tankari	Dug Well	Mahi	Upto Kadana Dam
Utraj	Dug Well	Tapti	Sea Confluence To Ukai

Valia	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Ambala	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Bhavnagar1	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Bhudel	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Bhumbhali	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Bhuteshwar	Tube Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Bhutia	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Chok	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Datha	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Dhasa	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Dudhala	D C B	Southern Kathiawar	Draining Into Gulf Of Khambat
Gadhada1	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Gadhada2	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Gadhula	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Gadhula1	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Gariyadhar	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Ghogha	Dug Well	Mahi	Upto Kadana Dam
Ghogha1	Dug Well	Mahi	Upto Kadana Dam
Jalia	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Kardej	Tube Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Khijadiya	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Kobidi	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Longadi	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Lonjdhara	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Lundra	Tube Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Mahuva	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Mahuva1	D C B	Southern Kathiawar	Draining Into Gulf Of Khambat
Malanka	Tube Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Malvav	Tube Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Motivadal	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Ningala	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Noghanvadar	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Palitana1	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat

Palitana2	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Paliyad	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Paliyad1	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Paliyad2	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Panchpipla	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Panvi	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Panvi1	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Pasvi	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Porbada	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Randola	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Sajnasar	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Sandhida	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Satanes	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Shantinagar	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Sihor	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Surkha	Tube Well	Mahi	Upto Kadana Dam
Talaja i	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Talaja ii	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Talaja1	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Talaja2	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Tansa	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Tardhera	D C B	Southern Kathiawar	Draining Into Gulf Of Khambat
Tatam	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Timbi2	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Trapaj	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Umrala	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Vallabhipur1	Tube Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Vallbhipur	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Vartij	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Virdi	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Ambawadi	Dug Well	Sharavati to Tapti	Savitri To Tapti
Bhimpor k.falia	Dug Well	Sharavati to Tapti	Savitri To Tapti
Dabhel	Dug Well	Sharavati to Tapti	Savitri To Tapti

Dalwada	Dug Well	Sharavati to Tapti	Savitri To Tapti
Daman	Bore Well	Sharavati to Tapti	Savitri To Tapti
Jempore	Dug Well	Sharavati to Tapti	Sharavati To Savitri
Khariwad daman	Dug Well	Sharavati to Tapti	Savitri To Tapti
Khariwad daman1	Dug Well	Sharavati to Tapti	Savitri To Tapti
Morwad	Dug Well	Sharavati to Tapti	Savitri To Tapti
Ringwada	Dug Well	Sharavati to Tapti	Sharavati To Savitri
Warkund	Dug Well	Sharavati to Tapti	Savitri To Tapti
Chakarteeth_Pz	Tube Well	Sharavati to Tapti	Savitri To Tapti
Diu	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Vanakbarh_Pz	Tube Well	Sharavati to Tapti	Savitri To Tapti
Dabhava	Dug Well	Mahi	Upto Kadana Dam
Dadhela	Dug Well	Mahi	Upto Kadana Dam
Dahod	Bore Well	Mahi	Kadana Dam To Jakham Confluence
Dahod1	Dug Well	Mahi	Kadana Dam To Jakham Confluence
Dahod2	Dug Well	Mahi	Kadana Dam To Jakham Confluence
Devgadh Baria	Dug Well	Mahi	Upto Kadana Dam
Devgadh bariya	Bore Well	Mahi	Upto Kadana Dam
Dhanpur	Dug Well	Mahi	Upto Kadana Dam
Fatepura(Karodia)	Bore Well	Mahi	Upto Kadana Dam
Garbara	Dug Well	Mahi	Kadana Dam To Jakham Confluence
Jhalod	Bore Well	Mahi	Kadana Dam To Jakham Confluence
Jhalod1	Dug Well	Mahi	Kadana Dam To Jakham Confluence
Kanjetha	Dug Well	Mahi	Upto Kadana Dam
Khandania	Dug Well	Mahi	Upto Kadana Dam
Limbdi2	Dug Well	Mahi	Kadana Dam To Jakham Confluence
Limkheda	Bore Well	Mahi	Upto Kadana Dam
Mirakhedi	Dug Well	Mahi	Kadana Dam To Jakham Confluence
Panchwada	Dug Well	Mahi	Kadana Dam To Jakham Confluence
Pipero	Bore Well	Mahi	Upto Kadana Dam
Salaya1	Dug Well	Mahi	Upto Kadana Dam
Sukhsar	Dug Well	Mahi	Kadana Dam To Jakham Confluence
Tokarba	Dug Well	Mahi	Upto Kadana Dam

Varamkheda	Dug Well	Mahi	Kadana Dam To Jakham Confluence
Wadia	Dug Well	Mahi	Upto Kadana Dam
Charada_Pz_I	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Chatral	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Chiloda_Pz_I	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Chiloda_Pz_II	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Dahegam I	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Dahegam II	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Kalol(Nest)_Pz_I	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kalol(Nest)_Pz_II	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kalol(Nest)_Pz_III	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kalol(Rep)_Pz_II	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kalol_Pz_IV	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kasturinagar(IFFCO)	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Mansa	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Nardipur i	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Nardipur ii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Palaj_Pz-I	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Palaj_Pz-II	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Palaj_Pz-III	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Paliya	D C B	Sabarmati	Lb Of Sabarmati Upto Hathmati
Sardhao i	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Sardhav ii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Amran_Pz	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Amran1	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Aramda	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Asota Mota	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Bed	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Bed1	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Bedanpur	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Bhatia	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Bhatiya	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Changa	D C B	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar

Dharampur2	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Dharsanvel	Tube Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Dharsanvel1	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Dhrol1	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Dhrol2	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Dudhai2	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Dwarka	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Falla	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Gajana	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Gordhanpur	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Haripur2	D C B	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Haryana	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Jam Ambardi	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Jambuda	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Jamnagar1	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Jamnagar2	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Jodia	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Juvanpur	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Kajuda	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Kalavad1	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Kalavad2	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Kalawad	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Khambalia	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Khambaliya	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Khambhaliya	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Kolva1	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Kuvadia	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Lalpur	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Lalpur1	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Latipur	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Machhlivad	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Mojap	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Mojap1	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar

Mota Bharudia	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Moti khavdi	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Moti matli	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Moti Rafudar	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Navi Madhi_Pz	Tube Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Nikava	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Okhamadhi	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Pindara	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Pindara1	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Pirlakhasar	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Pithad	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Ravesia	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Salaya	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Samrasar	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Samrasar1	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Vad panchasara	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Vadtara	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Varwada	D C B	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Vibhania	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Vijarkha	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Vinjhalpur	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Dhokadva	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Dolasa	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Girgadhada	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Kesariya	Tube Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Longia	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Motisar	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Sametar	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Shapur	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Una1	Tube Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Una2	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Adesar (Pond)	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Adesar_Pz	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area

Adesar1	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Adhoi_EW	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Adhoi_Pz	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Anandsar_EW	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Anjar	Bore Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Anjar City	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Anjar Np Between 1&10	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Anjar Np Garden	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Anjar Np Opp. Raph. Hospt	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Anjar Np Tw-2	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Anjar Np Tw-4	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Anjar Np-5	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Anjar1	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Asambia mota_Pz	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Asambia mota1	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Baladiya	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Balasar	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Bandiya	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Baranda	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Bela	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Bela1	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Bhachau	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Bhachau1	D C B	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Bhachau2	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Bhadia mota	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Bhadreshwar	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Bhavanipur	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Bherandiala	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Bhimasar	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area

Bhimasar1	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Bhirandiala	D C B	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Bhirandiala	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Bhuj (Circuit House)	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Bhuj (Hospital)	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Bhuj _mes	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Bhuj Dot-1	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Bhujodi	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Bidada	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Chandranagar	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Chitrod	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Chopadwa-i	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Chopadwa-ii	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Chopdwa-iii	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Chubdak	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Dabhada	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Dabhada1	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Dayapar	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Dayapar1	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Desalpur	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Desalpur1	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Deshalpur	D C B	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Deshalpur m.	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Deshalpur m.1	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area

Deshalpur rapar	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Devisar	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Devpargadh	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Dharesi	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Dholavira	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Dholavira(EW)_Pz	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Dhori	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Dhori1	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Dinara mota	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Dindayal-nagar	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Dot-2	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Dudhai	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Dudhai- Fresh	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Dudhai Saline	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Dudhai1	D C B	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Dunai	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Gadhsisa	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Gadhsisa1	D C B	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Gadhuli	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Gagodar	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Gandhidham	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Gandhidham1	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Haboi	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Halra	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch

Hirapar I	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Hirapur-ii	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Hirapur-iii	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Jadopar	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Jawaharpur	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Jhura	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Kakarwa	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Kalyanpur2	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Kanmir	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Kanmir1	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Kanyabe	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Kanyabe1	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Kanyabe2	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Karagoga	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Kataria	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Kera1	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Kera2	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Khabrau	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Kharai	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Kharoi	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Khavada	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Khavda	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Khedoi	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Khedoi1	D C B	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Khedoi2	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area

Kotadi	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Kotaya	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Kotda jadvapur	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Kothara	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Kuda	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Kukma	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Kukma- II	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Kukma- II	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Kukma iii (cazri)	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Kumbhardi	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Kumbhariya	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Lakhond	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Lakhpat	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Lakhpat_Pz	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Lilpur	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Lodai	D C B	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Lodarani	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Lohariya	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Madhapar	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Madhapar	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Madhapar1	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Madhapar2	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Mandvi	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area

Mandvi (Mahadev Temple)	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Mandvi (Shitla Mata)	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Mandvi1	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Manfara	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Manfara1	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Manzil	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Mata no madh	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Mathada	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Mathada1	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Mathak	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Mathak1	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Mau Moti	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Mokha	D C B	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Morjhar1	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Mota baraya	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Mothala	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Moti cher	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Mundra	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Mundra1	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Mundra2	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
N. sarovar	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Nadapa	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Nagalpar (Nakhatrana)	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Nagalpar 3 (kpt TW-2)	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Nagalpar Moti	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Nagalpur 1	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Nakhatrana	D C B	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch

Nakhatrana1	D C B	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Nakhtrana	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Naliya	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Naliya (Bus S)	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Nandela Wandh	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Narayan Sarovar I	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Narayan Sarovar II	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Narayansarovar	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Naredi (kotada Roha)	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Netra-1	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Netra-8 (khersara)	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Nirona	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Nirona1	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Nirona2	D C B	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Nirona2	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Nirona2	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Panandro Cp I	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Panandro Cp II	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Rapar	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Rapar1	D C B	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Rapar2	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Ratanpur	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Ratanpur khadir	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch

Ratanpur(maum.)	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Rathanpurkhadir	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Rawapar	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Raydhanpur	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Raydhanpur_Pz	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Reha	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Rudramata	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Samkhiari	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Sedat	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Selari	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Selari	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Shinaya	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Shinogra Tw-3	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Shivlakha	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Sindhodi mata	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Sinogra- II	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Sukhpar	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Tera	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Trambo (raydhanpur-2)	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Varedia	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Vinjhan	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Vinjhan1	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Alina	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Balasinor	Bore Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Balasinor1	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Bar	Dug Well	Mahi	Upto Kadana Dam
Bhaner (deep)	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati

Bhaner(medium)	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Bhaner(shallow)	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Chaklashi	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Dakor	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Gadwell	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Juna vasadra	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Kalesar	Dug Well	Mahi	Upto Kadana Dam
Kapadvanj	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Khatraj	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Khatraj1	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Kheda	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Ladvel	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Limbasi	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Limbasi	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Limbasi	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Limbasi1	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Mahudha	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Matar I	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Matar II	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Nadiad Pz-I	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Nadiad Pz-II	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Nadiad2	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Nes_Pz	Tube Well	Mahi	Upto Kadana Dam
Nes_Pz(Sy)	Tube Well	Mahi	Upto Kadana Dam
Sarkhej _ I	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Sarkhej _ II	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Sarkhej _ Pz-III	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Sewalia	Dug Well	Mahi	Upto Kadana Dam
Shekhupura	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Thasra	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Vaso	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Virpur_Pz	Bore Well	Mahi	Kadana Dam To Jakham Confluence
Vyas vasna	Bore Well	Sabarmati	Lb Of Sabarmati Upto Hathmati

Anandpura i	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Anandpura iii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Asjol	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Ayeti	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Bhalpura1	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Bhandu i	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Bhandu II	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Bhandu III	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Bhandu IV	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Bhandu V	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Bhandupara	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Budasan	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Charasan i	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Charasan i	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Dabhora	D C B	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Daran_Pz-I	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Daran_Pz-II	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Daran_Pz-III	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Dharpura	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Dosaj	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Gerita	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Ghumasan_Pz-I	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Ghumasan_Pz-II	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Ghumasan_Pz-III	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Gilosan	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Jantral i	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Jantral ii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Jantral iii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Jaska(Sy_4")Pz_II	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Jaska(Sy_8")Pz_I	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Kadi_Pz	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kadi1	D C B	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kaipur i	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch

Kaipur ii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kaipur iii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kaipur iv	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kalyanpur	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Karalli (i)	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Karalli (iii)	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Karalli II	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Karbatia i	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Karbatia ii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Karbatia ii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Karbatiya	D C B	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Khali	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kheralu	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kheralu (deep)	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kheralu(shallow	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kheralu1	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kolwada	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Maguna	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Maktupur	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Maktupur2	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Maktupur2	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Malekpur-Pz	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Mehsana	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Mehsana IV	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Mehsana v	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Mehsana I	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Mehsana II	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Mehsana III	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Mewad	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Modhera II	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Modhera i	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Modhera iii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Motipura_Pz_I	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch

Motipura_Pz_II	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Motipura_Pz_III	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Nandasan	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Pamol	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Pamol1	D C B	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Pamol1	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Panchot	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Pilwai i	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Pilwai ii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Piora	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Rampura1	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Saola i	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Saola ii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Saola iii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Sihi	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Sundarpura i	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Sundarpura ii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Sundarpura iii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Sundarpura iv	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Suraj	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Tarabh	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Unad	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Unad1	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Unawa	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Vadnagar	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Vidaj	D C B	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Visnagar	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Visnagar i	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Visnagar ii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Visnagar iii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Visnagar iv	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Walam i	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Walam ii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch

Walam iii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Walam iv	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Agar(Rep)_Pz	Bore Well	Narmada	Confluence With Sea To Navgam Dam
Agar_Pz	Tube Well	Narmada	Confluence With Sea To Navgam Dam
Amayar	Dug Well	Tapti	Rb Ukai Dam To Purna Confluence
Baman Phalia_Pz	Bore Well	Narmada	Confluence With Sea To Navgam Dam
Bhavpura i	Tube Well	Narmada	Confluence With Sea To Navgam Dam
Bhavpura ii	Tube Well	Narmada	Confluence With Sea To Navgam Dam
Bujetha	Tube Well	Narmada	Confluence With Sea To Navgam Dam
Chikada	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Dediapada	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Dev mogra	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Garudeshwar	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Gola talawadi	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Hirapura	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Kanbi pitha	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Kewadia_Pz	Bore Well	Narmada	Confluence With Sea To Navgam Dam
Khota amba	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Namaria	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Nani singlot	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Rajpipla	Tube Well	Narmada	Confluence With Sea To Navgam Dam
Rasela	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Rasulpura_Pz	Tube Well	Narmada	Confluence With Sea To Navgam Dam
Ringani	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Selemba	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Sunderpura	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Sunderpura_Pz	Bore Well	Narmada	Confluence With Sea To Navgam Dam
Abrama	Dug Well	Sharavati to Tapti	Savitri To Tapti
Anklas	Dug Well	Sharavati to Tapti	Savitri To Tapti
Chikhali road	Dug Well	Sharavati to Tapti	Savitri To Tapti
Chinam	Dug Well	Sharavati to Tapti	Savitri To Tapti
Dandi	Dug Well	Sharavati to Tapti	Savitri To Tapti
Hanumanbari	Dug Well	Sharavati to Tapti	Savitri To Tapti

Hond	Dug Well	Sharavati to Tapti	Savitri To Tapti
Kaliyari	Dug Well	Sharavati to Tapti	Savitri To Tapti
Kantasvel	Dug Well	Sharavati to Tapti	Savitri To Tapti
Khergam	Dug Well	Sharavati to Tapti	Savitri To Tapti
Navsari	Tube Well	Sharavati to Tapti	Savitri To Tapti
Navsari1	Dug Well	Sharavati to Tapti	Savitri To Tapti
Onjal	Dug Well	Sharavati to Tapti	Savitri To Tapti
Onjal1	Dug Well	Sharavati to Tapti	Savitri To Tapti
Pipalkhed	Dug Well	Sharavati to Tapti	Savitri To Tapti
Rankuva	Dug Well	Sharavati to Tapti	Savitri To Tapti
Sari_khurd	Dug Well	Sharavati to Tapti	Savitri To Tapti
Ubhrat	Dug Well	Sharavati to Tapti	Savitri To Tapti
Unai	Dug Well	Sharavati to Tapti	Savitri To Tapti
Vansda	Bore Well	Sharavati to Tapti	Savitri To Tapti
Bavaliya	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Bavaliya_Pz	Bore Well	Mahi	Upto Kadana Dam
Gadhar	Dug Well	Mahi	Upto Kadana Dam
Godhra	Bore Well	Mahi	Upto Kadana Dam
Godhra1	Dug Well	Mahi	Upto Kadana Dam
Godhra2	Dug Well	Mahi	Upto Kadana Dam
Jambughoda	Bore Well	Narmada	Confluence With Sea To Navgam Dam
Kadana	Dug Well	Mahi	Upto Kadana Dam
Kalol	Dug Well	Mahi	Upto Kadana Dam
Kothamba	Dug Well	Mahi	Upto Kadana Dam
Limbadia peti	Dug Well	Mahi	Upto Kadana Dam
Lunawada	Dug Well	Mahi	Upto Kadana Dam
Malekpur1	Dug Well	Mahi	Upto Kadana Dam
Pandarvada	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Pavagadh	Dug Well	Mahi	Upto Kadana Dam
Rajgadh1	Dug Well	Mahi	Upto Kadana Dam
Ram patel na m.	Bore Well	Mahi	Upto Kadana Dam
Ranipura	Dug Well	Mahi	Upto Kadana Dam
Santrampur	Bore Well	Mahi	Kadana Dam To Jakham Confluence

Santrampur1	Dug Well	Mahi	Kadana Dam To Jakham Confluence
Santroad	Dug Well	Mahi	Upto Kadana Dam
Shehra	Dug Well	Mahi	Upto Kadana Dam
Shivrajpur	Dug Well	Mahi	Upto Kadana Dam
Tarkanda	Dug Well	Mahi	Upto Kadana Dam
Tarvada	Tube Well	Sharavati to Tapti	Savitri To Tapti
Timbi2	Dug Well	Mahi	Upto Kadana Dam
Tuwa	Dug Well	Mahi	Upto Kadana Dam
Vejalpur	Dug Well	Mahi	Upto Kadana Dam
Asladi I	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Asladi ii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Baspa	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Baspa	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Baspa (Repl) i	Tube Well	Luni and other drainage into Great Rann of Kutch	Mainly Luni
Baspa (Repl) ii	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Bhatsan	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Bhutia vasna i	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Bhutia vasna II	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Biliya i	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Biliya ii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Biliya iv	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Biliya iii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Biliya(Temple)_Pz_I	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Biliya(Temple)_Pz_II	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Bolera	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Chanasma i	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Chanasma II	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Dharmoda	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Dharmoda1	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Dharno dharda	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Dhinoj	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Dhinoj1	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch

Dhinoj2	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Hajipur	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Hajipur	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Harij i	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Harij II	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Harij iii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Himanipur	D C B	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Jhajahm	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Kamliwara (ow3)	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kamliwara (tw1)	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kamliwara ow01	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kamliwara ow10	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kamliwara un5	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Khimiana i	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Khimiana ii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Khimiana iii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Khorada/karuda	D C B	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Matarwadi I	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Matarwadi II	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Matarwadi iii	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Moti chander	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Nedra	D C B	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Patan2	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Patan2	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Piprala	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Piprala1	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Radhanpur	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Radhanpur1	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Radhanpur2	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Sami	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Sami1	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Sami1	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Sander	D C B	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch

Sankheshwar	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Santhalpur	Dug Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Shankhari	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Sidhada	Tube Well	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area
Sidhpur	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Varahi	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Vauva	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Vauva(Repl)_Pz	Tube Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Vauva1	Dug Well	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch
Vijaynagar1	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Wagdod	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Wagdod1	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Amar nagar	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Amrapur1	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Bantia	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Bhadla	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Bhalgam	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Chhatar	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Chhibda	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Chhibda	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Dhuva	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Gavridad	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Hadmatia	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Jamkandorna	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Kalyanpur2	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Khamta	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Khirsara1	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Lajai	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Lalavadar	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Lodhika	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Lodhika1	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar

Macchukunda	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Mahika	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Malia	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Maliya	Tube Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Modpar1	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Morbi	Tube Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Morvi	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Mota dhansura	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Movaiya	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Neknam	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Nichi mandal	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Padadhari	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Padadhari1	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Pipaliya Agabhi	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Rajkot	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Rajkot1	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Ranpur1	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Sarvad	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Sindhavadar	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Tankara	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Targhari	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Vangadra	Bore Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Vinchhia	Dug Well	Southern Kathiawar	Draining Into Gulf Of Khambat
Wankaner	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Wankaner1	Tube Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Wankaner-1	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Wankaner2	D C B	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Bamna	Bore Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Bayad_Pz	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Bhadreshwar	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Bhiloda_Pz	Bore Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Bhiloda2	D C B	Sabarmati	Lb Of Sabarmati Upto Hathmati
Bibipur	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati

Bibipur1	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Boral	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Chandap_Pz	Bore Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Chitoda	Bore Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Choriwad	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Dhansura	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Dhansura1	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Gadha	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Gamdi	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Goral	Bore Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Hamirpur	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Harsol	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Harsol1	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Himmatnagar	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Himmatnagar_Pz	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Idar	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Jhaloti	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Jivanpura	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Karanpur	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Kuski_Pz	Bore Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Laxmanpura	Bore Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Mahiyapur	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Malpur_Pz	Bore Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Meghraj	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Modasa	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Modasa_Pz	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Nandoj	Bore Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Panvath/porvad	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Prantij	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Prantij I	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Prantij II	Tube Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Punasan	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Rajgadh	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati

Revas	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Sabdajinamuvada	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Sathamba	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Shamlaji	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Takatuka	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Varvada	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Vejpur_Pz	Bore Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Vijaynagar	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Vijaynagar_Pz	Bore Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Virpur (Himmat)	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Virpur (Idar)	Dug Well	Sabarmati	Lb Of Sabarmati Upto Hathmati
Allu	Dug Well	Sharavati to Tapti	Savitri To Tapti
Asarma	Dug Well	Tapti	Sea Confluence To Ukai
Baben	Dug Well	Sharavati to Tapti	Savitri To Tapti
Bardoli	Tube Well	Sharavati to Tapti	Savitri To Tapti
Bed Kuva Dur	Dug Well	Tapti	Sea Confluence To Ukai
Bedchit	Dug Well	Sharavati to Tapti	Savitri To Tapti
Bhurvel (ukai)	Dug Well	Tapti	Sea Confluence To Ukai
Chavada	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Dungri	Dug Well	Tapti	Sea Confluence To Ukai
Gandhinagar	Dug Well	Tapti	Sea Confluence To Ukai
Gangtha	Dug Well	Tapti	Sea Confluence To Ukai
Hindoliya	Dug Well	Sharavati to Tapti	Savitri To Tapti
Jahangirpura	Dug Well	Tapti	Sea Confluence To Ukai
Jesingpura[sg]	Dug Well	Tapti	Sea Confluence To Ukai
Jhankhavav	Dug Well	Tapti	Sea Confluence To Ukai
Jhankhvav	Bore Well	Tapti	Sea Confluence To Ukai
Juna umarpada	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Kadod	Dug Well	Tapti	Sea Confluence To Ukai
Kadodra	Dug Well	Tapti	Sea Confluence To Ukai
Karanjvel	Dug Well	Sharavati to Tapti	Savitri To Tapti
Kasal	Dug Well	Tapti	Sea Confluence To Ukai
Kathor	Dug Well	Tapti	Sea Confluence To Ukai

Khedwada (Ashram Falia)	Dug Well	Tapti	Sea Confluence To Ukai
Kherwa	Dug Well	Tapti	Sea Confluence To Ukai
Kim road	Dug Well	Tapti	Sea Confluence To Ukai
Kim_road	Dug Well	Tapti	Sea Confluence To Ukai
Kim_road1	Dug Well	Tapti	Sea Confluence To Ukai
Kosamba	Tube Well	Tapti	Sea Confluence To Ukai
Kosamba1	Dug Well	Tapti	Sea Confluence To Ukai
Kosamba2	Dug Well	Tapti	Sea Confluence To Ukai
Kukarmunda	Dug Well	Tapti	Sea Confluence To Ukai
Laskana	Dug Well	Tapti	Sea Confluence To Ukai
Madhi	Dug Well	Sharavati to Tapti	Savitri To Tapti
Mahuva2	Dug Well	Sharavati to Tapti	Savitri To Tapti
Malda	Dug Well	Tapti	Sea Confluence To Ukai
Mandvi2	Dug Well	Tapti	Sea Confluence To Ukai
Navi pardi	Dug Well	Tapti	Sea Confluence To Ukai
Nizar	Bore Well	Tapti	Lb Ukai Dam To Purna Confluence
Nizar1	Dug Well	Tapti	Sea Confluence To Ukai
Nogama	Dug Well	Tapti	Sea Confluence To Ukai
Olpad	Tube Well	Tapti	Sea Confluence To Ukai
Olpad2	Dug Well	Tapti	Sea Confluence To Ukai
Palsana	Dug Well	Sharavati to Tapti	Savitri To Tapti
Pankheda	Dug Well	Tapti	Sea Confluence To Ukai
Puna	Bore Well	Sharavati to Tapti	Savitri To Tapti
Puna1	Dug Well	Sharavati to Tapti	Savitri To Tapti
Sachin town	Dug Well	Sharavati to Tapti	Savitri To Tapti
Sachin town1	Dug Well	Sharavati to Tapti	Savitri To Tapti
Sarbhon	Dug Well	Sharavati to Tapti	Savitri To Tapti
Songadh	Bore Well	Tapti	Sea Confluence To Ukai
Sultanabad	Dug Well	Tapti	Sea Confluence To Ukai
Surat	Tube Well	Tapti	Sea Confluence To Ukai
Surat1	Dug Well	Tapti	Sea Confluence To Ukai
Surat2	Dug Well	Tapti	Sea Confluence To Ukai
Tawali	Dug Well	Tapti	Sea Confluence To Ukai

Ten-bardoli	Dug Well	Sharavati to Tapti	Savitri To Tapti
Tokarwa	Dug Well	Tapti	Sea Confluence To Ukai
Uchchhal	Dug Well	Tapti	Sea Confluence To Ukai
Ushker	Dug Well	Tapti	Sea Confluence To Ukai
Vadade-Khurd	Dug Well	Sharavati to Tapti	Savitri To Tapti
Valod	Dug Well	Sharavati to Tapti	Savitri To Tapti
Vyara1	Dug Well	Sharavati to Tapti	Savitri To Tapti
Wadoli	Dug Well	Tapti	Sea Confluence To Ukai
Adriyana	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Bajana	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Bamanbor	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Chotila	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Chotila_1	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Chotila1	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Chuli	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Dasada	Tube Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Dasada1	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Degam	Tube Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Dhrangadhra	Tube Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Dhrangadhra1	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Dhrangadhra2	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Halvad1	Tube Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Halvad2	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Jhinjhuwada	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Juna Devaliya	Tube Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Juna Devaliya1	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Juna Devaliya2	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Juna Devaliya2	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Kharaghoda	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Kherwa	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Khodu	D C B	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Lakhtar	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Malaniyad	Tube Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar

Manpur	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Mathak2	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Mathak2	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Miani	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Navagam Devpura	Bore Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Naviyani	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Rajsitapur	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Ranipet	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Ratanpur1	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Sara	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Sarla	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Sukhpar1	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Surel	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Tarnetar	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Vaodi	Tube Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Velavadar	Dug Well	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar
Visawadi	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Vitthalgarh	Dug Well	Draining into Gulf of Kutch	Ruper,Saraswati, Banas draining into Little Rann of Kutch
Aherdi	Dug Well	Sharavati to Tapti	Savitri To Tapti
Ahwa_Pz	Bore Well	Sharavati to Tapti	Savitri To Tapti
Ahwa1	Dug Well	Sharavati to Tapti	Savitri To Tapti
Bardipada	Dug Well	Sharavati to Tapti	Savitri To Tapti
Bari pada	Dug Well	Sharavati to Tapti	Savitri To Tapti
Bhenskatri	Dug Well	Sharavati to Tapti	Savitri To Tapti
Bori gaotha	Dug Well	Sharavati to Tapti	Savitri To Tapti
Chikhli	Dug Well	Sharavati to Tapti	Savitri To Tapti
Chinchnogaotha	Dug Well	Sharavati to Tapti	Savitri To Tapti
Chinchpada	Dug Well	Sharavati to Tapti	Savitri To Tapti
Dhumkal	Dug Well	Sharavati to Tapti	Savitri To Tapti
Gadad	Dug Well	Sharavati to Tapti	Savitri To Tapti
Ghubita	Dug Well	Sharavati to Tapti	Savitri To Tapti
Jakana	Dug Well	Sharavati to Tapti	Savitri To Tapti
Kakshala	Bore Well	Sharavati to Tapti	Savitri To Tapti

Kalibel	Dug Well	Sharavati to Tapti	Savitri To Tapti
Mahal	Dug Well	Sharavati to Tapti	Savitri To Tapti
Malegaon	Dug Well	Sharavati to Tapti	Savitri To Tapti
Mheskatri	Bore Well	Sharavati to Tapti	Savitri To Tapti
Nadak khadi	Dug Well	Sharavati to Tapti	Savitri To Tapti
Nana pada	Dug Well	Sharavati to Tapti	Savitri To Tapti
Sodmal	Dug Well	Sharavati to Tapti	Savitri To Tapti
Subir	Dug Well	Sharavati to Tapti	Savitri To Tapti
Umberpada	Dug Well	Sharavati to Tapti	Savitri To Tapti
Alladpur	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Amreshwar	Dug Well	Mahi	Upto Kadana Dam
Asala	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Asoj	Dug Well	Mahi	Upto Kadana Dam
Baladgam	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Baroda	Dug Well	Mahi	Upto Kadana Dam
Baroda1	Dug Well	Mahi	Upto Kadana Dam
Bhindol	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Bodeli	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Chavaria	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Chhaliyar	Dug Well	Mahi	Upto Kadana Dam
Chhota udepur	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Chisadia	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Chitral PZ_II	Tube Well	Mahi	Upto Kadana Dam
Chitral Pz-I	Tube Well	Mahi	Upto Kadana Dam
Chota udepur	Bore Well	Narmada	Confluence With Sea To Navgam Dam
Dabhoi	Dug Well	Mahi	Upto Kadana Dam
Devat (thadgam)	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Ferkuva	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Gamod	Tube Well	Narmada	Confluence With Sea To Navgam Dam
Ghamodi	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Ghayaj i	Tube Well	Mahi	Upto Kadana Dam
Ghayaj ii	Tube Well	Mahi	Upto Kadana Dam
Gothada	Dug Well	Mahi	Upto Kadana Dam

Govindpura	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Haldarva I	Tube Well	Mahi	Upto Kadana Dam
Haldarva Ii	Tube Well	Mahi	Upto Kadana Dam
Handod	Tube Well	Mahi	Upto Kadana Dam
Handod1	Tube Well	Mahi	Upto Kadana Dam
Handod2	Tube Well	Mahi	Upto Kadana Dam
Jojh	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Juna samalya	Dug Well	Mahi	Upto Kadana Dam
Kalitalavdi	Dug Well	Mahi	Upto Kadana Dam
Kaprali	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Karamasiya	Dug Well	Mahi	Upto Kadana Dam
Kevadi	Dug Well	Mahi	Upto Kadana Dam
Kurali i	Tube Well	Mahi	Upto Kadana Dam
Kurali ii	Tube Well	Mahi	Upto Kadana Dam
Makni	D C B	Narmada	Confluence With Sea To Navgam Dam
Masor	Dug Well	Mahi	Upto Kadana Dam
Moti chikhali	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Naswadi	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Naswadi1	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Panwad	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Patiyapura	Dug Well	Mahi	Upto Kadana Dam
Pavi	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Pitha	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Rasulpur	Dug Well	Mahi	Upto Kadana Dam
Raypura i	Tube Well	Mahi	Upto Kadana Dam
Raypura ii	Tube Well	Mahi	Upto Kadana Dam
Saidal	Dug Well	Mahi	Upto Kadana Dam
Saidivasana	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Sankarda	Tube Well	Mahi	Upto Kadana Dam
Sankarda1	Tube Well	Mahi	Upto Kadana Dam
Sankheda	Tube Well	Mahi	Upto Kadana Dam
Segwa chouki ii	Tube Well	Narmada	Confluence With Sea To Navgam Dam
Segwa chowki I	Tube Well	Narmada	Confluence With Sea To Navgam Dam

Sengpur	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Sinor	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Tundav	Dug Well	Mahi	Upto Kadana Dam
Vadaj	Tube Well	Mahi	Upto Kadana Dam
Vadala	Dug Well	Mahi	Upto Kadana Dam
Vadodara I	Tube Well	Mahi	Upto Kadana Dam
Vadodara Ii	Tube Well	Mahi	Upto Kadana Dam
Vagudan	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Vega	Dug Well	Mahi	Upto Kadana Dam
Vejpur1	Bore Well	Mahi	Upto Kadana Dam
Vejpur2	Dug Well	Mahi	Upto Kadana Dam
Waghach	Dug Well	Narmada	Confluence With Sea To Navgam Dam
Wankaner2	Bore Well	Mahi	Upto Kadana Dam
Atul	Dug Well	Sharavati to Tapti	Savitri To Tapti
Awadha	Dug Well	Sharavati to Tapti	Savitri To Tapti
Dahli (bhilad)	Dug Well	Sharavati to Tapti	Savitri To Tapti
Dharampur1	Bore Well	Sharavati to Tapti	Savitri To Tapti
Dharampur2	Dug Well	Sharavati to Tapti	Savitri To Tapti
Kanadu	Dug Well	Sharavati to Tapti	Savitri To Tapti
Kaparda	Dug Well	Sharavati to Tapti	Savitri To Tapti
Karwad	Dug Well	Sharavati to Tapti	Savitri To Tapti
Lakadmal	Dug Well	Sharavati to Tapti	Savitri To Tapti
Manala	Bore Well	Sharavati to Tapti	Savitri To Tapti
Mandwa	Dug Well	Sharavati to Tapti	Savitri To Tapti
Motaponda	Dug Well	Sharavati to Tapti	Savitri To Tapti
Muli1	Dug Well	Sharavati to Tapti	Savitri To Tapti
Nanaponda	Dug Well	Sharavati to Tapti	Savitri To Tapti
Tithal	Dug Well	Sharavati to Tapti	Savitri To Tapti
Tumb	Dug Well	Sharavati to Tapti	Savitri To Tapti
Udwada	Dug Well	Sharavati to Tapti	Savitri To Tapti
Umargaon	Dug Well	Sharavati to Tapti	Savitri To Tapti
Valsad1	Bore Well	Sharavati to Tapti	Savitri To Tapti

Annex - IIb

DISTRIBUTION OF GROUND WATER MONITORING WELLS IN THE MAJOR RIVER BASIN 2015-16

DISTRICT_NAME	BASIN_NAME	SUB_BASIN_NAME	Total
Ahmedabad	Draining into Gulf of Kutch	Rupen	17
	Draining into Gulf of Kutch Total		17
	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch	1
	Luni and other drainage into Great Rann of Kutch Total		1
	Sabarmati	Lb Of Sabarmati Upto Hathmati	22
		Rb Of Sabarmati And Upper Part Beyond Hathmati	21
	Sabarmati Total		43
	Southern Kathiawar	Draining Into Gulf Of Khambat	10
	Southern Kathiawar Total		10
Ahmedabad Total			71
Amreli	Southern Kathiawar	Draining Into Gulf Of Khambat	58
		Rivers draining into Arabian Sea (Western part)	5
	Southern Kathiawar Total		63
Amreli Total			63
Anand	Mahi	Upto Kadana Dam	18
	Mahi Total		18
	Sabarmati	Lb Of Sabarmati Upto Hathmati	15
	Sabarmati Total		15
Anand Total			33
Banaskantha	Draining into Gulf of Kutch	Rupen	31
	Draining into Gulf of Kutch Total		31
	Luni and other drainage into Great Rann of Kutch	Mainly Luni	8
		Mostly Great Rann Of Kutch	31
	Luni and other drainage into Great Rann of Kutch Total		39
	Sabarmati	Lb Of Sabarmati Upto Hathmati	1
		Rb Of Sabarmati And Upper Part Beyond Hathmati	1
	Sabarmati Total		2
Banaskantha Total			72
Bharuch	Mahi	Upto Kadana Dam	13
	Mahi Total		13

	Narmada	Confluence With Sea To Navgam Dam	19
	Narmada Total		19
	Tapti	Sea Confluence To Ukai	10
	Tapti Total		10
Bharuch Total			42
Bhavnagar	Mahi	Upto Kadana Dam	1
	Mahi Total		1
	Southern Kathiawar	Draining Into Gulf Of Khambat	51
		Rivers draining into Arabian Sea (Western part)	1
	Southern Kathiawar Total		52
Bhavnagar Total			53
DAMAN	Sharavati to Tapti	Savitri To Tapti	8
		Sharavati To Savitri	1
	Sharavati to Tapti Total		9
DAMAN Total			9
DIU	Sharavati to Tapti	Savitri To Tapti	
	Sharavati to Tapti Total		
	Southern Kathiawar	Draining Into Gulf Of Khambat	7
	Southern Kathiawar Total		7
DIU Total			7
Dohad	Mahi	Kadana Dam To Jakham Confluence	15
		Upto Kadana Dam	15
	Mahi Total		30
Dohad Total			30
Gandhinagar	Draining into Gulf of Kutch	Rupen	10
	Draining into Gulf of Kutch Total		10
	Sabarmati	Lb Of Sabarmati Upto Hathmati	9
		Rb Of Sabarmati And Upper Part Beyond Hathmati	14
	Sabarmati Total		23
Gandhinagar Total			33
Jamnagar	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar	41
	Draining into Gulf of Kutch Total		41
	Southern Kathiawar	Rivers draining into Arabian Sea (Western part)	16

	Southern Kathiawar Total		16
Jamnagar Total			57
Junagadh	Southern Kathiawar	Draining Into Gulf Of Khambat	9
		Rivers draining into Arabian Sea (Western part)	65
	Southern Kathiawar Total		74
Junagadh Total			74
Kachchh	Draining into Gulf of Kutch	South Flowing Drainage Mostly Bhuj Area	40
	Draining into Gulf of Kutch Total		40
	Luni and other drainage into Great Rann of Kutch	Mostly Great Rann Of Kutch	29
	Luni and other drainage into Great Rann of Kutch Total		29
Kachchh Total			69
Kheda	Mahi	Kadana Dam To Jakham Confluence	1
		Upto Kadana Dam	5
	Mahi Total		6
	Sabarmati	Lb Of Sabarmati Upto Hathmati	22
	Sabarmati Total		22
Kheda Total			28
Mahesana	Draining into Gulf of Kutch	Ruper	53
	Draining into Gulf of Kutch Total		53
	Sabarmati	Lb Of Sabarmati Upto Hathmati	2
		Rb Of Sabarmati And Upper Part Beyond Hathmati	6
	Sabarmati Total		8
Mahesana Total			61
Narmada	Narmada	Confluence With Sea To Navgam Dam	22
	Narmada Total		22
	Tapti	Rb Ukai Dam To Purna Confluence	5
	Tapti Total		5
Narmada Total			27
Navsari	Sharavati to Tapti	Savitri To Tapti	25
	Sharavati to Tapti Total		25
Navsari Total			25
Panchmahals	Mahi	Kadana Dam To Jakham Confluence	3
		Upto Kadana Dam	33

	Mahi Total		37
	Narmada	Confluence With Sea To Navgam Dam	3
	Narmada Total		3
	Sabarmati	Lb Of Sabarmati Upto Hathmati	5
	Sabarmati Total		5
	Sharavati to Tapti	Savitri To Tapti	3
	Sharavati to Tapti Total		3
Panchmahals Total			48
Patan	Draining into Gulf of Kutch	Rupen	26
		South Flowing Drainage Mostly Bhuj Area	4
	Draining into Gulf of Kutch Total		30
	Luni and other drainage into Great Rann of Kutch	Mainly Luni	2
		Mostly Great Rann Of Kutch	3
	Luni and other drainage into Great Rann of Kutch Total		5
	Sabarmati	Lb Of Sabarmati Upto Hathmati	3
	Sabarmati Total		3
Patan Total			38
Porbandar	Southern Kathiawar	Rivers draining into Arabian Sea (Western part)	31
	Southern Kathiawar Total		31
Porbandar Total			31
Rajkot	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar	31
	Draining into Gulf of Kutch Total		31
	Southern Kathiawar	Draining Into Gulf Of Khambat	4
		Rivers draining into Arabian Sea (Western part)	25
	Southern Kathiawar Total		29
Rajkot Total			60
Sabarkantha	Sabarmati	Lb Of Sabarmati Upto Hathmati	45
		Rb Of Sabarmati And Upper Part Beyond Hathmati	12
	Sabarmati Total		57
Sabarkantha Total			57
Surat	Narmada	Confluence With Sea To Navgam Dam	4
	Narmada Total		4
	Sharavati to Tapti	Savitri To Tapti	28

	Sharavati to Tapti Total		28
	Tapti	Lb Ukai Dam To Purna Confluence	4
		Sea Confluence To Ukai	34
	Tapti Total		38
Surat Total			70
Surendranagar	Draining into Gulf of Kutch	North Flowing Drainage Of Jamnagar	24
		Ruper	14
	Draining into Gulf of Kutch Total		38
	Sabarmati	Rb Of Sabarmati And Upper Part Beyond Hathmati	17
	Sabarmati Total		17
Surendranagar Total			55
The dangs	Sharavati to Tapti	Savitri To Tapti	31
	Sharavati to Tapti Total		31
The dangs Total			31
Vadodara	Mahi	Upto Kadana Dam	29
	Mahi Total		29
	Narmada	Confluence With Sea To Navgam Dam	35
	Narmada Total		35
Vadodara Total			64
Valsad	Sharavati to Tapti	Savitri To Tapti	22
	Sharavati to Tapti Total		22
Valsad Total			22
Grand Total			1236

Annexure IIIa						
DEPTH TO WATER UNCONFINED AQUIFERS IN GUJARAT DURING 2015-16						
Sl.No.	**Location**	**District**	**May-14**	**Aug-15**	**Nov-15**	**Jan-16**
1	Ahmedabad	Bagodara_Pz_II	-	5.15	5.75	7.15
2	Ahmedabad	Barvala	9	8.55	9.5	9.7
3	Ahmedabad	Dalod	6.45	4.55	3.8	5
4	Ahmedabad	Devalia	20.4	13.78	-	16.8
5	Ahmedabad	Dhandhuka1	3.42	2.88	3.5	3.75
6	Ahmedabad	Endla	3.12	2.51	1.82	2.01
7	Ahmedabad	Fedra	-	1.1	1.99	2.09
8	Ahmedabad	Gamph	2.42	1.3	1.2	2
9	Ahmedabad	Ghuma	3.8	2.3	2.78	3.2
10	Ahmedabad	Ghuma_Pz_II	0.84	2.34	2.65	2.24
11	Ahmedabad	Hansalpur_Pz-III	3.59	2.6	2.32	2.35
12	Ahmedabad	Kumarkhan	3.89	3.95	2.73	3.05
13	Ahmedabad	Kundal	-	11.8	11.8	11.8
14	Ahmedabad	Kundali	24.12	10.7	15.4	12.1
15	Ahmedabad	Mandal2	3.71	3.08	2.69	4.64
16	Ahmedabad	Pachcham_Pz	-	1.45	1.25	3.25
17	Ahmedabad	Rajpada	24.77	16.45	14.3	18.55
18	Ahmedabad	Salangpor	22.3	8.05	7.55	9.85
19	Ahmedabad	Sola_Pz_III	13.48	10.93	10.83	12.12
20	Ahmedabad	Tagadi1	2.57	2.57	2.17	4.07
21	Ahmedabad	Ughraj1	6.67	11.28	11.28	10.17
22	Ahmedabad	Upardhal1	11.9	11.9	11.9	11.9
23	Ahmedabad	Vagad(Repl)_Pz	-	5.68	5.95	6.1
24	Ahmedabad	Viramgam2	3.02	1.1	0.85	1.9
25	Ahmedabad	Visalpur_Pz-II	8.6	6.5	7.36	8.03
26	Amreli	Amreli	11.94	4.67	4.04	6.74
27	Amreli	Amreli_Pz	11.51	7.38	8.2	9.15
28	Amreli	Amritvel_Pz	2.65	2.43	2.15	3.75
29	Amreli	Ankadia mota	10.85	5.15	6.75	7.25
30	Amreli	Badhda	9.13	7.27	6.75	7.75
31	Amreli	Bagasara	20.55	14.12	13.15	19.75
32	Amreli	Bhavardi1	3.47	1.1	2	2.3
33	Amreli	Bherai	2.58	2.65	2.41	4.01
34	Amreli	Bhuva	4.51	3.56	4.6	4.7
35	Amreli	Chalala	30.92	28.07	27.13	27.83
36	Amreli	Charkhadia_Pz	20.67	16.69	-	15.43
37	Amreli	Charkhadia1	18.2	16.26	13.7	17
38	Amreli	Chavand	7.22	5.82	5	6.1
39	Amreli	Devaliya	13.75	-	13.15	-
40	Amreli	Dharangani	29.35	29.3	30.55	-
41	Amreli	Dhari	14.11	-	-	-

42	Amreli	Dhari_Pz	18.93	9.24	9.2	11.4
43	Amreli	Dhrai Balmukand	20.3	10.12	11.2	11.9
44	Amreli	Fifad	4.74	4.89	4.3	5.6
45	Amreli	Gopalpura Vanda Pz	26.74	28.7	-	31.1
46	Amreli	Goradka	5.81	4.25	4.45	6.45
47	Amreli	Govadka	6.82	0.98	1.5	5.1
48	Amreli	Hinderana	5.2	5.36	7.7	6.8
49	Amreli	Hipavadli	8.7	8.9	9.8	9.1
50	Amreli	Ingorala	11.54	9.56	10.3	15.1
51	Amreli	Jafrabad	1.99	1.47	2.37	2.87
52	Amreli	Jira	9.25	3.2	3.7	5
53	Amreli	Kadiyali	5.79	2.9	4.7	4.3
54	Amreli	Kerala	39.21	39.45	36.15	41.85
55	Amreli	Khamba	5.56	3.66	2.91	5.41
56	Amreli	Khamba_Pz	10.48	3.45	8.2	8.7
57	Amreli	Kotadapitha	-	10.46	12.89	10.89
58	Amreli	Kunkavav	19.73	15.45	13.45	20.65
59	Amreli	Lathi	5.09	1.91	3.75	3.45
60	Amreli	Lotpur	6.65	2.3	1.55	2.65
61	Amreli	Luvariya	10.07	3.89	5.6	4.8
62	Amreli	Mandal	33.6	28.11	23.5	29.7
63	Amreli	Manila Pz	19.38	18.06	15.8	19.9
64	Amreli	Morjhar	36.45	38.4	33.55	39.75
65	Amreli	Nageshri	4.25	2.69	1.85	3.75
66	Amreli	Nesdi_Pz	-	55.27	49.15	-
67	Amreli	Piyava	27.4	33.12	30.8	20.2
68	Amreli	Punjapadar	10.82	7.5	6.58	8.18
69	Amreli	Salena	13.32	15.81	14.07	14.97
70	Amreli	Sanaria	5.5	2.01	3.4	4.5
71	Amreli	Savarkundla	6.3	-	8.35	-
72	Amreli	Tajpur	25.85	14.16	11.35	19.2
73	Amreli	Timbi2	4.97	4.47	3.47	5.92
74	Amreli	Trakuda	8.14	6.8	8.85	10.3
75	Amreli	Untvad	18.64	15.01	14.5	12.9
76	Amreli	Vaghania juna	7.55	3.59	4.7	7.2
77	Amreli	Vanda	13.22	5.8	6.85	14.8
78	Amreli	Vankiya	10.3	4.66	7.1	5.7
79	Amreli	Vankiya1	12.05	11.32	1.8	11.3
80	Amreli	Vavdi Pz	-	22.8	21.3	-
81	Amreli	Victor	0.88	0.2	2.15	0.75
82	Amreli	Virpur	21.55	15.25	16.85	16.55
83	Anand	Adas_DW	19.13	17.72	19.17	20.6
84	Anand	Anand	9.49	8.79	8.45	10.03
85	Anand	Anklav2	23.91	24.6	26.81	27.28

86	Anand	Bandhani	4.61	4.02	3.9	4.64
87	Anand	Bhadran	14.51	-	12.57	14.58
88	Anand	Boriyani	5.35	3.83	4.15	7.4
89	Anand	Dali	4.24	3.23	3.34	3.65
90	Anand	Davalpura_Pz	1.65	0.38	0.93	1.04
91	Anand	Dharmaj	11.75	12.14	11.82	13.32
92	Anand	Ghora	5.78	3.76	3.4	5.06
93	Anand	Kansari1	12.6	-	10.08	12.99
94	Anand	Laxmipura	3.45	2.17	2.47	1.37
95	Anand	Navapura	24.26	23.96	26.56	26.56
96	Anand	Parvata	7.32	3.92	-	5.25
97	Anand	Ras	2.17	2.27	1.24	1.17
98	Anand	Tarapur Pz-II	3.04	0.73	2.63	2.81
99	Anand	Tol	0.94	7.5	-	1.02
100	Banaskantha	Ambaji_Pz	13.81	4.53	5.53	5.21
101	Banaskantha	Amirgadh	13.46	10	12.37	12.73
102	Banaskantha	Bharol1	3.16	-	3.1	3.66
103	Banaskantha	Danta	10.8	7.28	10.31	10.5
104	Banaskantha	Dantiwada	63.83	62.57	25.92	62.04
105	Banaskantha	Deesa Pzii	61.3	-	57.95	59.38
106	Banaskantha	Ganapipli	12.12	9.8	9.21	8.43
107	Banaskantha	Gangodra	22.5	7.3	13.32	16.47
108	Banaskantha	Iqbalgarh	31.05	24.09	30.48	29.91
109	Banaskantha	Jhat	16.01	8.88	10.13	10.53
110	Banaskantha	Khoda	23.82	26.15	20.58	21.1
111	Banaskantha	Kidotar	18.3	17.22	16.73	15.02
112	Banaskantha	Meda	11.13	9.1	9.19	9.43
113	Banaskantha	Miyal ii	-	20.44	-	18.84
114	Banaskantha	Mohabbat gadh	21.84	15.58	15.13	14.31
115	Banaskantha	Naroli Pziii	9.25	7.1	9.22	8.85
116	Banaskantha	Palanpur2	33.92	23.5	34.17	26.48
117	Banaskantha	Ratanpur2	18.29	16.23	13.01	14.62
118	Banaskantha	Sodapur	19.02	6.04	11.84	11.65
119	Banaskantha	Tharad Pziii	14.34	10.5	10.42	10.58
120	Bharuch	Arethi	-	5.12	6.17	7.61
121	Bharuch	Bharuch	3.57	2.98	2.85	3.92
122	Bharuch	Bhensli	2.2	2.76	1.82	2.87
123	Bharuch	Chhindra	8.83	-	9.83	5.6
124	Bharuch	Dahegam	8.27	8.03	10.38	8.82
125	Bharuch	Hansot	3.16	-	-	-
126	Bharuch	Ilav	8.19	7.46	8.19	8.19
127	Bharuch	Jambusar	5.87	-	6.11	7.59
128	Bharuch	Jambusar2	9.6	-	-	-
129	Bharuch	Jetpur1	3.21	3.56	4.56	2.46

130	Bharuch	Jokhla	3.51	-	2.35	2.9
131	Bharuch	Juna borbhata	1.57	6.16	5.92	8.5
132	Bharuch	Kalak1	7.32	-	-	6.88
133	Bharuch	Kaswa	6.3	7.63	4.29	5.91
134	Bharuch	Kavachiya	7.3	3.39	3.92	5.87
135	Bharuch	Kavi	6.23	7.39	7.3	8.23
136	Bharuch	Kondh	4.8	3.36	3.26	3.44
137	Bharuch	Luhara	3.15	3.36	2.6	2.75
138	Bharuch	Mahegam1	5.53	6.47	-	6.89
139	Bharuch	Modoliya	8.87	4.15	8.87	8.87
140	Bharuch	Mokhdi	9.84	-	6.22	8.79
141	Bharuch	Motwan	2.68	2.68	2.08	2.3
142	Bharuch	Mulad	9.01	6.44	7.02	4.14
143	Bharuch	Mungaj	-	3.83	-	7.03
144	Bharuch	Navetha	6.12	6.4	5.53	6.58
145	Bharuch	Netrang(Rep)_Pz	10.75	3.58	6.35	8.92
146	Bharuch	Netrang1	8.96	3.82	3.23	2.1
147	Bharuch	Nirnavi	10.2	8.56	8.15	1.8
148	Bharuch	Panoli	3.01	-	1.37	1.69
149	Bharuch	Raymal	0.96	1.4	1.04	4.63
150	Bharuch	Roja tankaria	7.41	9.18	7.34	-
151	Bharuch	Sahol	3.37	-	1.69	3.27
152	Bharuch	Sajod	4.75	5.17	4.06	4.66
153	Bharuch	Sarod	18.14	16.56	17.93	17.39
154	Bharuch	Simodra	6.65	-	4.97	6.3
155	Bharuch	Sindhav	9.11	-	9.09	5.95
156	Bharuch	Tankari	3.45	4.77	3.6	5.37
157	Bharuch	Utraj	3.7	5.86	3.84	5.36
158	Bharuch	Valia1	3.91	-	2.96	3.65
159	Bhavnagar	Ambala	-	17.65	16.8	18.4
160	Bhavnagar	Ayodhayapuram	9.57	7.16	4.7	7.8
161	Bhavnagar	Bhavnagar1	5.03	5.73	7.1	6.3
162	Bhavnagar	Bhudel	1.34	1.26	2	1.4
163	Bhavnagar	Bhumbhali	2.75	2.4	1.7	3.7
164	Bhavnagar	Bhutia	17.67	20.65	21.3	23.1
165	Bhavnagar	Bora	27.72	28.05	24.1	29.4
166	Bhavnagar	Chowk Pz	25.82	23.74	24.3	26.5
167	Bhavnagar	Datha	5.19	5.46	6.86	5.94
168	Bhavnagar	Dhasa	4.67	2.49	2.59	3.79
169	Bhavnagar	Dudhala	11.89	10.38	7	12.7
170	Bhavnagar	Gadhada2	4.51	4.45	3.3	5.5
171	Bhavnagar	Gariyadhar	25.12	23	20.7	25.4
172	Bhavnagar	Ghogha1	3.85	1.6	1.25	2.1
173	Bhavnagar	Jalia	-	22.35	23.6	23.45

174	Bhavnagar	Khijadiya	9.59	11.25	11.15	11.75
175	Bhavnagar	Kundheli	10.28	19.43	11	10.5
176	Bhavnagar	Lakadiya	-	-	11.6	-
177	Bhavnagar	Longadi	4.34	3.25	4.8	3.8
178	Bhavnagar	Lonjdhara	23.44	23.22	21.22	24.22
179	Bhavnagar	Mahuva1	19.7	25.26	-	27.66
180	Bhavnagar	Malvav_Pz	26.83	28.44	25.9	-
181	Bhavnagar	Motivadal	4.22	3.15	2.67	3.37
182	Bhavnagar	Ningala	13.37	5.45	5.15	6.75
183	Bhavnagar	Palitana1	8.35	6.33	6.2	8.5
184	Bhavnagar	Palitana2	9.33	6.18	6.05	7.75
185	Bhavnagar	Paliyad2	23.61	-	-	-
186	Bhavnagar	Panchpipla	2.02	1.65	1.35	2.45
187	Bhavnagar	Panvi1	6.75	2.3	2	3.1
188	Bhavnagar	Pasvi	15.7	11.67	13.1	15.4
189	Bhavnagar	Piparla	-	2.42	2.9	3.8
190	Bhavnagar	Porbada	10.12	12.58	11.43	12.73
191	Bhavnagar	Sajnasar	7.54	2.14	2.4	6
192	Bhavnagar	Sandhida	2.3	1.56	2.75	2.05
193	Bhavnagar	Satanes	16.57	5.03	5.27	9.97
194	Bhavnagar	Shantinagar	11	10.56	9.6	11.2
195	Bhavnagar	Talaja2	11.43	10.88	12.03	11.23
196	Bhavnagar	Tansa	-	7.3	16.65	9.4
197	Bhavnagar	Tardhera	20.39	20.03	20.7	21.2
198	Bhavnagar	Tatam	24.58	21.12	20.42	23.12
199	Bhavnagar	Timbi2	15.6	11.2	-	11.6
200	Bhavnagar	Trapaj	20	-	-	-
201	Bhavnagar	Umrala	13.65	6.25	6	14.02
202	Bhavnagar	Vadal	8.59	3.4	3.55	5.4
203	Bhavnagar	Vallabhipur1	5.3	4.22	5.3	5.3
204	Bhavnagar	Vallbhipur	4.8	4.62	1.6	4.75
205	Bhavnagar	Vavdi	13.8	3.6	4.7	4.9
206	Daman	Ambawadi	4.93	2.9	3.4	4.2
207	Daman	Bhimpor k.falia	8.25	3.55	4.45	5.55
208	Daman	Dabhel	6.22	0.7	4.2	6.7
209	Daman	Dalwada	8.24	1.45	2.38	6.15
210	Daman	Daman	10.15	1.35	1.75	6.3
211	Daman	Jempore	3.4	1.5	1.65	2.75
212	Daman	Khariwad daman	5.02	1.33	1.73	3.33
213	Daman	Morwad	8.73	3.68	4.4	6.7
214	Daman	Warkund	7.19	1.5	2.3	4.6
215	Diu	Chakarteeth_Pz	-	6.1	5.4	6.5
216	Diu	Diu	4.13	3.08	2.9	3.9
217	Diu	Gomtimata	4.28	-	3.8	4.55

218	Diu	Jalawadi	6.82	-	4.92	6.05
219	Dohad	Ambakatch	3	0.87	2.7	1.9
220	Dohad	Bapda	7.7	4.03	7.2	8.92
221	Dohad	Dabhava	5.78	3.65	3.8	5.67
222	Dohad	Dadhela	7.95	3.65	5.4	7.15
223	Dohad	Dahod	2.5	0.73	2.5	2.24
224	Dohad	Dahod2	8.32	4.45	6.67	8.83
225	Dohad	Devgadh Baria	10.3	7.05	10	10.41
226	Dohad	Devgadh bariya	13.5	8	10.45	13.19
227	Dohad	Dhanpur	12.75	8.18	-	10.98
228	Dohad	Dohad_Urban1	3.4	-	1.6	7.6
229	Dohad	Dohad_Urban2	7.75	4.46	6.15	6.3
230	Dohad	Dohad_Urban3	7.82	0.15	4.72	4.72
231	Dohad	Fatepura(Karodia)	10.9	6.5	9.2	-
232	Dohad	Garada	7.1	2.4	2.65	7.9
233	Dohad	Garbara	8.55	2.7	3.25	4.15
234	Dohad	Jhalod	6.2	5.3	5.7	8.7
235	Dohad	Jhalod1	7.2	4.3	4.9	6.9
236	Dohad	Kanjetha	10.85	5.45	6.85	9.73
237	Dohad	Khandania	13.3	11.01	13.1	-
238	Dohad	Limbdi2	6.6	3.2	4.5	4.76
239	Dohad	Limkheda	8.9	5.5	6.8	7.47
240	Dohad	Mirakhedi	7	2.1	3.6	6.1
241	Dohad	Panchwada	5.7	2.77	5	4.04
242	Dohad	Pipero	11.27	5.66	7.95	9.83
243	Dohad	Salaya1	14.82	6.32	10.22	14.83
244	Dohad	Sarsava	14.5	1.8	8	9.27
245	Dohad	Sukhsar	9.95	5.85	7.95	9.87
246	Dohad	Thada	10.3	3.5	9.2	10.3
247	Dohad	Tokarba	5.05	1.69	4.55	5.19
248	Dohad	Varamkheda	1.55	0.81	1.15	4.55
249	Dohad	Wadia	8.34	6.04	7.84	8.34
250	Gandhinagar	Amrapur Pziii	58.3	-	-	-
251	Gandhinagar	Dahegam II	-	-	-	6.63
252	Gandhinagar	Kasturinagar(IFFCO)	11.99	27	11.73	11.6
253	Gandhinagar	Lodra	53.87	-	54.28	-
254	Gandhinagar	Paliya	12.55	11.74	12.87	9.69
255	Gandhinagar	Serthapara1	13.59	13.11	11.36	10.3
256	Jamnagar	Amaliya Chokri	3.4	6.94	2.24	3.8
257	Jamnagar	Ambardi	11.62	10.54	7.36	12.79
258	Jamnagar	Amran_Pz	7.2	2.59	2.61	3.49
259	Jamnagar	Amran1	7.55	2.22	1.88	4.3
260	Jamnagar	Aramda	5.9	4.21	5.02	5.7
261	Jamnagar	Balwa	21.5	21.25	18.6	20.02

262	Jamnagar	Bed1	10.05	7.94	9.22	10.54
263	Jamnagar	Bedanpur	7.05	1.58	7.72	9.5
264	Jamnagar	Bhadthar	-	12.83	-	-
265	Jamnagar	Bhanvad	13.83	15.2	14.16	16
266	Jamnagar	Bhatia	20.21	1.26	19.71	19.81
267	Jamnagar	Bhatiya	-	0.62	4.67	5.45
268	Jamnagar	Bhogat1	11.06	6.6	7.61	10.85
269	Jamnagar	Changa	14.95	16.78	19.45	16.55
270	Jamnagar	Dhrol2	8.23	2.8	1.64	3.34
271	Jamnagar	Drafa	-	5.36	-	-
272	Jamnagar	Dudhai2	3.55	2.15	1.07	2.65
273	Jamnagar	Dwarka	7.57	7.4	7.7	7.2
274	Jamnagar	Gordhanpur	21.6	5.15	19.02	21.6
275	Jamnagar	Haripur2	10.79	15.78	8.41	24.41
276	Jamnagar	Haryana	10.3	5.52	8.1	9.4
277	Jamnagar	Jambuda	8.54	3.29	4.5	10.14
278	Jamnagar	Jamjodhpur	7.21	6.15	5.5	7.85
279	Jamnagar	Jamnagar1	18	3.75	11.25	15.55
280	Jamnagar	Jamnagar2	9.74	7.23	9.16	12.69
281	Jamnagar	Juvanpur	23.77	21.25	23.18	23.3
282	Jamnagar	Kajuda	9.6	4.27	10.05	14.95
283	Jamnagar	Kalawad	3.38	2.95	3	3.13
284	Jamnagar	Kalyanpur2	6.8	7.44	22.3	23.75
285	Jamnagar	Khambhaliya	6.05	7.89	7.08	9.75
286	Jamnagar	Khirsara	9.49	17.39	13.37	15.29
287	Jamnagar	Kuvadia	16.7	13.65	11.8	14.35
288	Jamnagar	Lalpur1	9.25	9.46	13.5	11.35
289	Jamnagar	Lambha 1	9.45	7.17	12.4	12.8
290	Jamnagar	Modpar	17.4	15.61	17.4	17.4
291	Jamnagar	Mojap	7.94	6.16	8.43	8.34
292	Jamnagar	Mota kalawad	25.46	25.35	19.03	20.45
293	Jamnagar	Motagop	9.52	6.6	6.3	9.52
294	Jamnagar	Moti khavdi	11.33	10.16	8.85	11.33
295	Jamnagar	Moti matli	14.39	17.67	11.59	18.55
296	Jamnagar	Nikava	4.16	2.53	2.2	3.3
297	Jamnagar	Pindara1	7.6	-	4.74	7.9
298	Jamnagar	Raval	6.4	4.57	4.95	9.2
299	Jamnagar	Salaya	3.19	1.69	3.24	3.84
300	Jamnagar	Samrasar1	5.7	3.1	3.88	5.5
301	Jamnagar	Seth vadala	12.9	8.7	8.38	14.7
302	Jamnagar	Sumana	13.95	13.95	13.95	13.95
303	Jamnagar	Toda	11.1	11.4	5.05	10.2
304	Jamnagar	Vad panchasara	20.2	12.55	14.37	16.35
305	Jamnagar	Vadtara	12.85	14.14	12.92	13.5

306	Jamnagar	Varwada	10.85	9.38	10.52	11.8
307	Jamnagar	Vijarkha	21.12	18.67	14.72	15.8
308	Jamnagar	Vinjhalpur	-	8.98	9.55	6.6
309	Junagadh	Ajotha	-	12.97	10.22	15.8
310	Junagadh	Ajotha_Pz	11.6	-	-	-
311	Junagadh	Alwani	-	-	8.2	-
312	Junagadh	Amervel Nes	5.28	2.58	2.2	4.4
313	Junagadh	Anandpur	18.5	10.72	11.35	17.8
314	Junagadh	Ankolvadi	-	4.65	-	-
315	Junagadh	Ankolwadi_1	-	-	13	-
316	Junagadh	Antroli	-	-	5.08	6.98
317	Junagadh	Arena	12.26	6.08	7.58	10.43
318	Junagadh	Bamanwara	9.55	5.71	6.46	7.61
319	Junagadh	Bantva	18.3	16.12	19.3	18.9
320	Junagadh	Bhatsimroli	22.3	15.84	12.88	19.55
321	Junagadh	Bhim Deval	8.97	6.4	5.2	7.4
322	Junagadh	Bilkha	15.85	6.7	7.52	12.4
323	Junagadh	Budhecha	8.92	4.8	2.13	7.33
324	Junagadh	Chokli	-	20.16	16.34	26.6
325	Junagadh	Chorwad	7.52	4	4.8	6.02
326	Junagadh	Dhokadva	12.27	8.02	6.1	17.2
327	Junagadh	Dolasa	-	-	-	4.3
328	Junagadh	Gadu	17.7	24.32	26.6	38.4
329	Junagadh	Galodar	19.54	8.63	17.86	20.36
330	Junagadh	Gangda_Pz	8.35	8.15	9.4	9
331	Junagadh	Girgadhada	6.68	6.75	5.55	13.2
332	Junagadh	Goraj1	31.6	15.22	19.4	33.3
333	Junagadh	Govindpura2	-	26.8	23.3	30.4
334	Junagadh	Jambur[madhapar	5.38	5.91	6.31	6.51
335	Junagadh	Jamvala	-	5.55	5.05	6.85
336	Junagadh	Jamvala1	7.31	2.75	2.6	3.6
337	Junagadh	Jargla Jargali	9.9	3.6	2.7	3.6
338	Junagadh	Junagadh	10.26	11.26	10.6	12.25
339	Junagadh	Junagadh1	8.43	6.72	5.85	13.73
340	Junagadh	Juthal	5.93	9.16	8.43	8.73
341	Junagadh	Kalej	13.17	7.6	10.8	16.4
342	Junagadh	Kanek	13.92	7.1	7.4	11.5
343	Junagadh	Kansari	14.63	12.56	14.25	15.7
344	Junagadh	Kasia Naka Check Post	3.13	1.26	2.3	2.2
345	Junagadh	Kesariya1	-	13.69	12.65	13.85
346	Junagadh	Kewarda	12.3	11.52	13.22	16.1
347	Junagadh	Khambalia1	8.63	7.45	8.3	9.38
348	Junagadh	Khokharda	23.32	21.25	23.9	25.4
349	Junagadh	Khorada1	8.64	7.83	8.55	10.55

350	Junagadh	Khoras ahir	13.35	12.45	18.65	8.85
351	Junagadh	Kodinar	13.44	11.93	10.2	13.9
352	Junagadh	Kodinar1	14.12	13.8	12.8	14.9
353	Junagadh	Kukaswada	10.09	6.4	7.12	9.8
354	Junagadh	Lohej	8.52	10.3	14.2	10.06
355	Junagadh	Maktupur1	10.1	8.35	9.4	11.2
356	Junagadh	Mandawad	14.41	12.18	9.61	-
357	Junagadh	Mangrol	17.1	16.6	16.51	18.4
358	Junagadh	Mangrol1	11.99	11.72	12.41	13.49
359	Junagadh	Manketara	31.9	28.15	22.48	23.1
360	Junagadh	Mendarda	19.08	18.18	18.14	20.65
361	Junagadh	Mendarda1	16.04	9.59	16.3	19.3
362	Junagadh	Moraj	7.15	3.43	5.1	4.9
363	Junagadh	Patla	8.6	2.78	3.88	14.8
364	Junagadh	Prachi_Pz	6.7	10.44	13.3	13
365	Junagadh	Prasli	15.8	12.21	9.08	15.7
366	Junagadh	Prempara	19.9	16.05	14.7	15.2
367	Junagadh	Sametar	18.9	9.44	8.3	10.7
368	Junagadh	Saradiya	12.78	2.18	3.12	13.1
369	Junagadh	Sepa	31.51	22.75	29.4	22.2
370	Junagadh	Seriakhan	18.68	-	19.23	21.53
371	Junagadh	Shardagram	10.3	11.18	10.45	11.9
372	Junagadh	Sil	7.5	7.01	4.06	5.54
373	Junagadh	Sil bandar	7.89	-	6.32	7.97
374	Junagadh	Talala_Pz	8.42	9.66	11	10.9
375	Junagadh	Talala1	9.48	10.33	8.49	11.84
376	Junagadh	Una1	17.1	5.4	4.4	6.9
377	Junagadh	Una2	5.24	3.28	2.18	4.63
378	Junagadh	Vadal	11.12	14.32	15.51	18.4
379	Junagadh	Vanthali ii	17.36	6.42	4.42	6.22
380	Junagadh	Visavadar	15.99	13.43	13.05	15.15
381	Kachchh	Asambia mota1	16.45	-	16.45	16.45
382	Kachchh	Bambhdai	5.7	3.62	6.75	7.1
383	Kachchh	Bhadia mota	-	-	-	15.25
384	Kachchh	Bhadreshwar	7.65	3.84	6.8	6.3
385	Kachchh	Bhuj (Circuit House)	14.57	11.31	11.02	11.67
386	Kachchh	Chandranagar	7.85	4.85	6.75	7.12
387	Kachchh	Dayapar	20.9	19.5	17.8	18.76
388	Kachchh	Dayapar1	-	-	20.25	21.18
389	Kachchh	Deshalpur rapar	15.5	5.3	9.55	9.16
390	Kachchh	Devisar	14.3	11.84	10.4	9.77
391	Kachchh	Dholavira	11.63	4.7	8.45	11.63
392	Kachchh	Dhori	15.55	-	-	-
393	Kachchh	Dhori1	16.03	16.03	16.03	16.03

394	Kachchh	Dunai	11.11	9.41	9.96	9.51
395	Kachchh	Gagodar	30.1	27	27	27.44
396	Kachchh	Gandhidham2	7	6.45	5.33	5.82
397	Kachchh	Haboi	0.24	0.04	0.27	0.36
398	Kachchh	Kakarwa	17.45	17.45	17.45	17.45
399	Kachchh	Karagoga	1.5	1	1.27	1.68
400	Kachchh	Kharai_1	3.1	-	-	-
401	Kachchh	Kharoi	9.15	2.17	3.7	4.43
402	Kachchh	Khavda	4.65	3.2	3.4	4.88
403	Kachchh	Kotada	38.8	-	38	38.5
404	Kachchh	Kotadi	11.82	10.67	11.16	12.36
405	Kachchh	Kotaya	11.6	8.66	11.7	13.31
406	Kachchh	Kothara	5.52	3.07	5.71	7.12
407	Kachchh	Kuda	28.5	19.2	18.6	19.05
408	Kachchh	Kumbhariya	7.4	6.95	7.2	7.46
409	Kachchh	Lakhpat	13.17	5.85	5.75	6.6
410	Kachchh	Lilpur	0.78	0.02	0.6	1.78
411	Kachchh	Lodai	17.1	12	13.5	13.74
412	Kachchh	Luni	3.7	2.67	6.48	7.17
413	Kachchh	Mandvi (Shitla Mata)	8.79	5.23	-	5.47
414	Kachchh	Mata no madh	14.17	10.5	11.29	12.77
415	Kachchh	Mathak1	-	11.65	11.65	11.65
416	Kachchh	Mau Moti_1	5.2	-	3.25	3.91
417	Kachchh	Mothala	5.73	5.73	3.56	4.18
418	Kachchh	Moti cher	3.46	1.42	-	2.06
419	Kachchh	Mundra	6.08	5.25	4.5	5.74
420	Kachchh	Naliya	9.9	9.65	9.56	11.15
421	Kachchh	Naliya (Bus S)	11.64	7.72	-	8.96
422	Kachchh	Rapar2	28.36	22.82	26.13	24.75
423	Kachchh	Ratanpur Khadir1	23.7	9.05	10.83	12.42
424	Kachchh	Rawapar	14.7	-	14.7	14.7
425	Kachchh	Raydhanpur_Pz	15.05	-	-	-
426	Kachchh	Rudramata	11.4	1.43	1.88	2.78
427	Kachchh	Samkhiari	21.25	1.97	3.4	4.65
428	Kachchh	Sedat	13	11.62	12.42	13.97
429	Kachchh	Shinaya	1.55	1.1	0.9	1.38
430	Kachchh	Shivlakha	22.32	8.6	9.6	11.65
431	Kachchh	Sukhpar	15.3	12.84	13.05	12.68
432	Kachchh	Suthri	-	-	10.3	9.08
433	Kachchh	Tera	12.12	10.87	13.67	13.74
434	Kachchh	Tunga	6.1	-	-	4.21
435	Kachchh	Ugardi	27.7	-	28.54	40.8
436	Kachchh	Vadala	9.75	-	8.6	10.25
437	Kachchh	Vinjhan1	10.65	8.32	8.27	8.81

438	Kheda	Alina	10.6	7.68	10.3	8.41
439	Kheda	Alindra	10.7	8.63	4.8	9.98
440	Kheda	Balasinor	3.15	2.5	2.9	3.3
441	Kheda	Balasinor1	10	6.8	6.8	8.48
442	Kheda	Bar	5.54	2.64	3.14	5.22
443	Kheda	Boriyavi	5.7	4.6	2.4	5.12
444	Kheda	Dakor	4.2	5.12	6.2	6.33
445	Kheda	Juna vasadra	4.85	2.45	2.85	5.1
446	Kheda	Kalesar	4.5	0.32	1.6	1.79
447	Kheda	Kapadvanj	12.47	8.72	10.92	13.39
448	Kheda	Kheda	-	-	-	8.1
449	Kheda	Ladvel	3.2	1.3	-	-
450	Kheda	Ladvel_1	3.05	1.15	1.65	2.65
451	Kheda	Mahudha	5.05	3.93	3.15	3.33
452	Kheda	Muliyad	3.9	0.06	1	4.18
453	Kheda	Nadiad2	9	5.22	7	17.8
454	Kheda	Nes_Pz	8.22	8.02	7.82	7.66
455	Kheda	Sarkhej _ Pz-III	34.8	35.4	35.58	34.98
456	Kheda	Shekhupura	1.25	0.42	0.1	-
457	Kheda	Thasra	4.65	0.41	2.15	3.32
458	Kheda	Vaso	5.95	5.03	2.78	6.06
459	Kheda	Virpur_Pz	7.9	5.5	5.6	7.46
460	Kheda	Vyas vasna	24.65	20.75	-	22.77
461	Mahesana	Asjol	5.95	4.35	4.98	4.53
462	Mahesana	Bhandupara	8.4	5.45	7.8	7.53
463	Mahesana	Budasan	11.87	0.68	3.16	3.52
464	Mahesana	Daran_Pz-III	2.64	1.65	2.67	2.57
465	Mahesana	Dharpura	6.97	4.88	4.9	5.15
466	Mahesana	Dosaj	5.63	10.18	6.16	6.06
467	Mahesana	Jaska(Sy_4")Pz_II	14.58	15.55	13.64	13.1
468	Mahesana	Kalyanpur	4.96	4.2	4.7	4.56
469	Mahesana	Karalli (iii)	10.69	9.1	12.34	12.09
470	Mahesana	Kheralu(shallow	5.69	1.95	5.26	4.6
471	Mahesana	Kheralu1	13.97	4.15	3.83	4.35
472	Mahesana	Maguna	7.91	1.5	2.83	4.02
473	Mahesana	Mau	8.6	-	7.09	6.82
474	Mahesana	Modhera iii	6.97	5.93	6.33	6.21
475	Mahesana	Padhadya	10.52	-	10.36	11.23
476	Mahesana	Panchot	6.05	2.5	3.15	3.9
477	Mahesana	Rampura1	8.23	6.76	7.06	7.34
478	Mahesana	Sihi	13.46	9.55	11.62	9.83
479	Mahesana	Tarabh	7.65	15.78	5.19	5.26
480	Mahesana	Thol Pz- II	17.3	-	17.92	17.18
481	Mahesana	Timba_1	16.7	-	8.85	9.88

482	Mahesana	Unad1	10.62	8.52	8.61	9.64
483	Mahesana	Unawa	4.05	3.15	3.66	3.57
484	Mahesana	Unjha	6.02	3.52	-	3.76
485	Mahesana	Vidaj	3.12	1.15	2.34	1.34
486	Mahesana	Visnagar iv	2.55	-	2.4	2.38
487	Narmada	Agar(Rep)_Pz	3.82	8.8	11.22	12.15
488	Narmada	Almadi	7.35	4.21	1.85	7.25
489	Narmada	Amayar	9.25	-	9.25	9.25
490	Narmada	Baman Phalia_Pz	19.67	18.63	19.4	20.66
491	Narmada	Chikada	5.45	5.13	5.42	4.92
492	Narmada	Chuli	12.23	4.2	6.12	9.69
493	Narmada	Dediapada	7.98	3.48	-	4.94
494	Narmada	Dev Mogra	-	-	7	-
495	Narmada	Garudeshwar	11.78	9.95	10.95	11.47
496	Narmada	Hirapura	5.95	5.17	4.46	5.55
497	Narmada	Jankh	3.4	4.62	1.09	3.19
498	Narmada	Kanbi pitha	3.45	4.61	2.44	3.77
499	Narmada	Kewadia_Pz	4.15	2.98	4.26	6.96
500	Narmada	Khaidipada	4.9	0.14	0.39	3.74
501	Narmada	Khota amba	1.63	3.47	1.07	2.91
502	Narmada	Namaria	4.25	3.77	4.13	4.47
503	Narmada	Nani singlot	9.8	7.63	7.83	9.35
504	Narmada	Ralda	3.92	2.44	2	2.66
505	Narmada	Rasela	11.92	17.5	17.5	11.92
506	Narmada	Ringani	2.21	1.82	1.6	1.83
507	Narmada	Selemba	7.71	8.3	6.44	-
508	Narmada	Selemba 1	-	-	-	7.04
509	Narmada	Sunderpura	29.95	-	-	-
510	Narmada	Sunderpura_Pz	28.78	-	-	-
511	Narmada	Umran	9	6.83	7.96	-
512	Navsari	Abrama	2.18	1.1	1.5	1.8
513	Navsari	Anklas	11	7.5	8.2	10.1
514	Navsari	Chadav	9.84	8.7	9.6	9
515	Navsari	Chinam	3.35	2.03	2.73	3.23
516	Navsari	Dandi	3.55	2	2.8	3.2
517	Navsari	Duvada	4.24	4.5	6.1	5.7
518	Navsari	Hond	8.62	5.1	6	7.8
519	Navsari	Kaliyari	11.4	2	2.9	4.7
520	Navsari	Kantasvel	8.2	4.35	5.45	6.55
521	Navsari	Khergam	7.08	2.3	3.15	4.8
522	Navsari	Limzar	5.1	-	-	-
523	Navsari	Manav Khadak	3.42	-	2.7	5.2
524	Navsari	Moti Valzar	8	3.45	5.25	4.95
525	Navsari	Navsari	27.13	15.5	18.4	18.85

526	Navsari	Navsari 1	5.03	4.97	5.27	5.57
527	Navsari	Onjal	6.44	5.35	5.55	5.65
528	Navsari	Panikhadak	11.92	8.2	8.6	8.5
529	Navsari	Pipalkhed	17.45	7.75	8.55	8.45
530	Navsari	Rankuva	-	2.4	3.6	7.48
531	Navsari	Sari_khurd	3.67	2.2	2.75	3.25
532	Navsari	Ubhrat	-	3.95	4.55	3.15
533	Navsari	Unai	9.56	6.35	9.4	9.56
534	Navsari	Vansda	10.9	19.65	21.55	9.65
535	Panchmahals	Bavaliya	9.06	5.86	6.46	8.71
536	Panchmahals	Bavaliya_Pz	28.55	26.8	8.25	28.83
537	Panchmahals	Chhabanpur	8.95	8.65	9.95	12.38
538	Panchmahals	Dhanol	5.5	0.58	5.2	5.67
539	Panchmahals	Gadhar	12.25	6.25	9.65	10.49
540	Panchmahals	Godhra	2.55	0.05	1.38	2.14
541	Panchmahals	Godhra_UR1	5.63	2.6	4.38	4.97
542	Panchmahals	Godhra_UR2	9.45	7.95	9.05	6.61
543	Panchmahals	Godhra_UR3	9.42	0.57	2.48	9.09
544	Panchmahals	Godhra2	3.94	7.19	8.34	3.4
545	Panchmahals	Jambughoda	6.65	5.17	5.45	6.07
546	Panchmahals	Jambughoda1	3.8	-	-	-
547	Panchmahals	Javan	9.3	4.88	7.3	0
548	Panchmahals	Jokha	7.58	5.18	6.28	7.54
549	Panchmahals	Kalol_UR1	12.6	-	-	15.23
550	Panchmahals	Kalol_UR2	12.84	12.08	14.14	14.32
551	Panchmahals	Kantha	5.1	2.4	5.7	3.61
552	Panchmahals	Khadki_Vadiya	10.4	10.3	13.6	15.76
553	Panchmahals	Khanpur	10.2	5	7.6	12.76
554	Panchmahals	Kothamba	4.8	2.5	2.9	5.1
555	Panchmahals	Limbadia peti	4.84	3	1.9	4.31
556	Panchmahals	Lunawada	11.41	8.81	9.91	10.79
557	Panchmahals	Malekpur1	4.5	3.8	1.7	3
558	Panchmahals	Morwa (Hadaf) Pz-I	11.8	11.1	12.2	12.99
559	Panchmahals	Natapur	11.6	6.5	7.8	8.72
560	Panchmahals	Palla Rajgarh Pz	25.6	17.77	24.7	-
561	Panchmahals	Pandarvada	15.56	6.66	5.36	15.56
562	Panchmahals	Pavagadh	10.26	7.74	10.46	10.84
563	Panchmahals	Ranipura	6	5.71	7.3	8.96
564	Panchmahals	Santrampur	8.4	6.5	8.2	9.27
565	Panchmahals	Santrampur1	13.2	14	11.9	13.11
566	Panchmahals	Santroad	10.7	11	9.5	-
567	Panchmahals	Santroad1	11	11.3	-	14.88
568	Panchmahals	Shehra	4.3	1.4	2.2	2.41
569	Panchmahals	Shivrajpur	12.5	7.43	7.7	12.5

570	Panchmahals	Suliyat	21.2	19.8	22.1	22.01
571	Panchmahals	Tarkanda	13.3	3.75	8.8	13.3
572	Panchmahals	Tarvada	12	-	12.7	-
573	Panchmahals	Timbi2	7.3	2.9	7.6	8.2
574	Panchmahals	Tuwa	5.25	3.51	5	5.05
575	Panchmahals	Ucharpi Pz	16	-	9.3	14.54
576	Panchmahals	Vejalpur	5.8	3.74	5.5	5.15
577	Patan	Dharmoda	2.52	0.05	1.98	2.32
578	Patan	Dhinoj1	9.8	6.54	7.9	8.44
579	Patan	Moti chander	2.95	0.45	1.16	4.32
580	Patan	Nedra	-	-	32.01	-
581	Patan	Patan2	17.48	15.18	14.68	15.81
582	Patan	Piprala_1	9.8	8.9	9.1	10.9
583	Patan	Radhanpur2	1.65	0.01	0.33	0.87
584	Patan	Sander	9.8	6.9	8.15	8.85
585	Patan	Sankheshwar	2.29	-	0.39	1.03
586	Patan	Shankhari	17.81	13.91	16.81	18.32
587	Porbandar	Adityana	11.84	11.85	14.45	24.75
588	Porbandar	Adwana2	14.25	16	14.16	14.65
589	Porbandar	Babda	12.93	9.57	11.82	16.1
590	Porbandar	Bakharla	21.31	12.63	23.63	23.69
591	Porbandar	Balej_1	6.01	-	5.75	6.6
592	Porbandar	Bhavpura	10.01	5.14	7.17	9.01
593	Porbandar	Bhod	21.1	16.63	24.84	28.57
594	Porbandar	Degam	17.25	18.98	19.35	19.35
595	Porbandar	Hanumangadh1	31.1	33.6	34.2	34.2
596	Porbandar	Kadegi	1.75	2.21	0.97	1.84
597	Porbandar	Kandorna	19.96	17.99	18.9	21.68
598	Porbandar	Khambodar	14.18	6.1	12.88	15.4
599	Porbandar	Kolikhada	27.78	25.88	27.43	28.68
600	Porbandar	Kuchhadi	2.56	2.42	2.95	5.25
601	Porbandar	Kutiyana_Pz	18.46	6.78	10.3	13.95
602	Porbandar	Kutiyana1	17.43	8.66	9.79	13.63
603	Porbandar	Miyani	7.45	7.78	7.67	7.55
604	Porbandar	Mocha	6.35	-	6.18	6.6
605	Porbandar	Mojiwana	11.87	13.1	13.9	23.65
606	Porbandar	Navibandar	4.28	4.4	4.32	3.28
607	Porbandar	Oddar	6.06	5.85	5.74	6.25
608	Porbandar	Palkhada1	14.34	13.92	12.48	16.78
609	Porbandar	Pata	5.31	4.96	4.73	5.8
610	Porbandar	Porbandar	7.19	3.32	4.33	5.5
611	Porbandar	Porbandar1	4.22	3.61	3.84	3.81
612	Porbandar	Ranavav2	8.2	9.24	9.5	25.7
613	Porbandar	Ratadi	6.75	6.19	5.9	6.74

614	Porbandar	Ratia	7.15	-	6.47	6.9
615	Porbandar	Simar	7.25	21	-	-
616	Porbandar	Tukda	4.89	2.15	2.48	2.78
617	Porbandar	Visavada Mul Dwarka	7.7	9.72	6.05	8.2
618	Rajkot	Amar nagar	3.34	1.9	1.83	3.25
619	Rajkot	Bhada jodiya	26.6	19.55	16.95	16.2
620	Rajkot	Bhadla	-	20.44	20.44	10.4
621	Rajkot	Bhalgam	16.97	17.12	9.2	12.07
622	Rajkot	Chhatar	8.97	3	2.91	5.15
623	Rajkot	Chordi	15.05	4.6	4.11	8.3
624	Rajkot	Dadia	17.57	10.77	11.77	12.22
625	Rajkot	Dhoraji	22.85	19.5	9.3	11.8
626	Rajkot	Ganod	4.58	6	5.1	3.8
627	Rajkot	Gogavadar	12.55	12.55	4.85	-
628	Rajkot	Hadmadiya	-	9.05	8.1	6.8
629	Rajkot	Hadmatia	14.35	8.25	7.17	5.57
630	Rajkot	Halenda	12.58	6.48	4.75	5.23
631	Rajkot	Jamwali	-	0.45	2.4	4.15
632	Rajkot	Jasapur	15.15	14.5	11.2	13.4
633	Rajkot	Jasdan	9.81	10.2	8.08	9.95
634	Rajkot	Jasdan2	9.16	12.6	9.17	11.75
635	Rajkot	Jetpur	-	6.62	3.86	6.7
636	Rajkot	Jetpur Pithad	14.95	6.4	5.9	7
637	Rajkot	Jetpur pithad.	14.81	10.31	4.93	13.36
638	Rajkot	Kalithad1	6.8	7.8	8.03	8.8
639	Rajkot	Kalyanpur2	13.24	4.95	1.77	4.1
640	Rajkot	Kamlapur	11.23	13.85	12.4	20.1
641	Rajkot	Kamlapur1	-	7.4	7.7	9.15
642	Rajkot	Khamta	-	11.95	11.06	12.95
643	Rajkot	Khirsara1	-	-	10.68	-
644	Rajkot	Lajai	-	-	-	3.85
645	Rajkot	Lalavadar	9.28	13.83	11.03	8.18
646	Rajkot	Lodhika1	12	7.3	7.76	7.3
647	Rajkot	Macchukunda	4.71	4.2	3.77	5
648	Rajkot	Malia	5.08	7	6.43	2.8
649	Rajkot	Modpar1	2.88	1.06	0.94	2.76
650	Rajkot	Morvi	3.22	2.15	2.2	2.6
651	Rajkot	Mota Dadwa	15.51	15.53	3.95	9.08
652	Rajkot	Mota dhansura	10.02	5.5	4.61	5.15
653	Rajkot	Motagundala	15.8	7.1	6.75	7.65
654	Rajkot	Movaiya	14.5	10.4	10.9	8.95
655	Rajkot	Neknam	-	12.05	16.42	11.95
656	Rajkot	Nichi mandal	5.93	9.3	7.18	6.4
657	Rajkot	Padadhari1	8.6	6.2	6.77	7.05

658	Rajkot	Patanvav	15.16	13.5	12.74	11.45
659	Rajkot	Pedhla	21.33	25.05	21.11	14.7
660	Rajkot	Rajkot	4.5	8.6	3.33	5.45
661	Rajkot	Rajkot1	10.89	9.67	3.48	7.02
662	Rajkot	Ranpur1	15.1	11.95	15.2	20.3
663	Rajkot	Ribda	10.79	6.45	6.94	8.2
664	Rajkot	Sardhar1	5.28	4.5	4.22	5.5
665	Rajkot	Sarvad	2.85	0.95	0.92	1.05
666	Rajkot	Sayapar	-	-	-	16.95
667	Rajkot	Sindhavadar	18.53	10.1	7.12	8.95
668	Rajkot	Targhari	4.15	2.1	2.42	3.1
669	Rajkot	Umrali	-	14.4	5.55	8.85
670	Rajkot	Upleta1	13.56	7.86	-	3.36
671	Rajkot	Upleta3	-	12.8	9.73	10.8
672	Rajkot	Vinchhia	4.2	3.55	3.28	4.85
673	Rajkot	Viranagar	10.55	13.03	10.43	11.38
674	Rajkot	Virpur1	9.83	6.03	5.76	12.38
675	Rajkot	Wankaner-1	8.25	8.85	5.76	6.9
676	Sabarkantha	Abhapur	-	-	7.5	-
677	Sabarkantha	Alwakampa	19.7	12.6	13.9	16.93
678	Sabarkantha	Anwarpura Pz	36.22	36.7	38.15	32.54
679	Sabarkantha	Atarsumba	9.2	2	8.1	-
680	Sabarkantha	Atarsumba_2	-	-	3.15	5.38
681	Sabarkantha	Bayad_Pz	9.5	8.1	9.3	9.73
682	Sabarkantha	Bhadreshwar	22.8	29.01	27.3	25.31
683	Sabarkantha	Bhiloda_Pz	4.85	2.45	2.4	3.72
684	Sabarkantha	Bhiloda2	10.7	4.5	4.7	5.47
685	Sabarkantha	Bibipur1	18.03	-	-	-
686	Sabarkantha	Boral	13.1	9.1	11.2	12.68
687	Sabarkantha	Boriya	7.2	6.7	6.1	6.52
688	Sabarkantha	Chandap_DW	15.3	15.2	15.4	15.21
689	Sabarkantha	Chandap_Pz	17.6	9.1	-	11.22
690	Sabarkantha	Choriwad	23.41	18.41	17.61	21.21
691	Sabarkantha	Derol Pz-II	43	42.4	35.9	43.44
692	Sabarkantha	Dhansura1	8.6	2.5	9.9	6.31
693	Sabarkantha	Gadada	17.65	6.85	6.45	7.12
694	Sabarkantha	Gadha	21.82	22	18.1	16.9
695	Sabarkantha	Hamirpur	16.4	7.3	9.7	15.42
696	Sabarkantha	Harsol1	14.35	9.85	9.15	15.8
697	Sabarkantha	Himmatnagar_Pz	8.75	7.25	5.93	-
698	Sabarkantha	Idar	9.3	3.2	5.5	6.35
699	Sabarkantha	Jhaloti	11.5	4.7	5.5	7.97
700	Sabarkantha	Karanpur	5.5	9	5.5	17.27
701	Sabarkantha	Kesharpura	23.15	16.45	14.75	20.52

702	Sabarkantha	Kesharpura_Mayal	-	7.08	2.73	3.55
703	Sabarkantha	Khedbrahma_Pz	5.25	1.45	1.6	3.05
704	Sabarkantha	Khedbramha_1	18.1	4.5	8.7	12.04
705	Sabarkantha	Kherwada	14.5	4.9	3.9	4.62
706	Sabarkantha	Malpur_1	15.6	9.9	-	-
707	Sabarkantha	Malpur_Pz	13.8	8.7	6.46	9.95
708	Sabarkantha	Mathasuliya	13.23	5.83	6.23	7.94
709	Sabarkantha	Matoda	20.01	7.6	10.6	16.07
710	Sabarkantha	Medasana	9.15	9.55	5.45	7.01
711	Sabarkantha	Meghraj_1	8.35	3.3	3.4	5.41
712	Sabarkantha	Modasa	6.98	5.88	6.08	6.89
713	Sabarkantha	Panvath/porvad	9.96	9.96	9.96	-
714	Sabarkantha	Poshina2	9	2.2	3.6	4.81
715	Sabarkantha	Punasan	7.65	3.95	5.75	5.04
716	Sabarkantha	Ramgarh	11.29	9.48	9.43	10.42
717	Sabarkantha	Ratanpur	15.7	8.9	9.2	17.1
718	Sabarkantha	Revas	16.5	12.3	15.6	14.02
719	Sabarkantha	Sabalwad	13.87	7.5	11.8	11.8
720	Sabarkantha	Sathamba	19.45	6.85	8.85	16.02
721	Sabarkantha	Seenawad	9.5	5.1	3.6	7.79
722	Sabarkantha	Shamlaji	11.1	7.15	10.15	10.95
723	Sabarkantha	Silwad	11.5	6.8	9.8	8.63
724	Sabarkantha	Takatuka	-	10.5	-	-
725	Sabarkantha	Takatuka_1	28.7	14.8	18.5	-
726	Sabarkantha	Umadpura	14.6	5.9	10.05	11.12
727	Sabarkantha	Varvada	14.1	12.2	13.6	14.04
728	Sabarkantha	Vejpur_Pz	12.7	4.35	1.95	11.22
729	Sabarkantha	Vijaynagar	12	3.8	3.85	3.81
730	Sabarkantha	Vijaynagar_Pz	11.35	5.65	4.8	-
731	Sabarkantha	Virpur (Himmat)	16	12.2	-	-
732	Sabarkantha	Virpur (Idar)	16.05	-	-	15.7
733	Sabarkantha	Virpur_1(Himmat)	-	12.35	12.55	17.55
734	Sabarkantha	Wadali	29.05	17	18.6	25.81
735	Sabarkantha	Waliampura Pz	36.45	36.8	37.1	35.34
736	Surat	Aarda Boratha	-	5	5.6	6.2
737	Surat	Allu	4.49	2.75	2.9	2.35
738	Surat	Bardoli	5.5	5.05	5.95	4.85
739	Surat	Bedchit	-	7.1	7.3	7.8
740	Surat	Bhatkol	3.29	2.45	3.15	3.35
741	Surat	Bhurvel (ukai)	3.98	2.5	3.3	3.7
742	Surat	Chapawadi	3.99	3.1	3.95	4.7
743	Surat	Chavada	4.09	1.7	2.4	3.1
744	Surat	Digas	14.94	1.1	6.9	2.38
745	Surat	Dungri	10.81	4.45	4.75	7.05

746	Surat	Gandhinagar	6.42	2.91	3.81	5.51
747	Surat	Gangadhra	9.08	6.35	9.3	9.25
748	Surat	Gangtha	-	10.1	11.3	11.6
749	Surat	Jesingpura[sg]	7.37	7.2	8.1	7.1
750	Surat	Jhankhavav	7.4	4.7	5.8	6.1
751	Surat	Jhankhvav	9.7	4.15	4.65	7.15
752	Surat	Juna umarpada	-	2.8	4.15	5.96
753	Surat	Kadod 1	5.53	4.55	5.15	12.15
754	Surat	Karanjvel	9.03	4.8	5.85	6.1
755	Surat	Kasal	8.43	3.8	4.7	8.6
756	Surat	Kathor	13.95	9.8	10.1	14.9
757	Surat	Kelkui	2.86	4.7	5.2	5.2
758	Surat	Khedwada (Ashram Falia)	7.06	6	6.45	6.8
759	Surat	Kherwa	6.3	0.8	1.4	3.3
760	Surat	Kosamba	21.67	20.4	20.5	21.3
761	Surat	Madhi 1	8.49	3.4	4.3	4.6
762	Surat	Mahuva2	17.75	16.85	17.05	17.65
763	Surat	Malda	6.22	6.2	7.3	8.3
764	Surat	Mandvi2	13.8	13.5	8.4	14.2
765	Surat	Mota	2.88	1.9	3	3.5
766	Surat	Moti Sarkui	8.29	4.05	4.75	2.55
767	Surat	Motichher	3.99	0.9	2	7.1
768	Surat	Navi pardi	2.84	1.68	2.43	3.08
769	Surat	Nizar	15.47	13.55	15.35	14.01
770	Surat	Nizar1	10.53	9.8	13.1	10.3
771	Surat	Nogama	3.57	0.94	2.04	2.09
772	Surat	Olpad2	2.37	2	3.1	2.3
773	Surat	Palsana	2.44	1.29	1.59	1.79
774	Surat	Paneshwar	18.37	9.8	11.3	11.5
775	Surat	Paniwara	-	-	-	6.25
776	Surat	Puna	12.08	8.4	9.3	10.9
777	Surat	Puna1	10.2	8.1	9	8.8
778	Surat	Sachin town	4.2	2.7	3	3.8
779	Surat	Sarbhon	2.6	1.8	2.3	2.6
780	Surat	Sayan	-	5.1	5.9	5.8
781	Surat	Sultanabad	5.83	4.81	5.51	5.91
782	Surat	Surat_DW	-	1.9	2	6.6
783	Surat	Tadkeshwar	8.8	6.1	7.3	6.73
784	Surat	Tawali	8.46	4.5	5.2	7.12
785	Surat	Ten-bardoli	6.22	5.2	5.8	5.3
786	Surat	Tokarwa 1	8.1	5.8	6.9	8.1
787	Surat	Uchchhal	12.08	10.3	9	11.5
788	Surat	Ushker	4.87	4.2	5	6.4
789	Surat	Vadade-Khurd	3.2	1.1	1.4	1.2

790	Surat	Vaheval	11.62	4.35	5.45	6.35
791	Surat	Valod	3.6	3.9	2.9	4.9
792	Surat	Vyara1	4.39	3.7	3.85	4.2
793	Surat	Wadoli	1	0.55	1.25	1.15
794	Surendranagar	Adriyana	-	5.1	5	4.8
795	Surendranagar	Anindra	9.73	3.15	4.31	-
796	Surendranagar	Bajana	2.05	5.26	5.38	4.01
797	Surendranagar	Bamanbor	-	6.87	9.07	10.6
798	Surendranagar	Chotila1	13.35	8.35	6.7	7.25
799	Surendranagar	Dasada	5.25	3.9	3.07	4.35
800	Surendranagar	Dasada1	8.7	-	-	5
801	Surendranagar	Dedadra	3.12	9	6.6	5.5
802	Surendranagar	Degam	-	-	3.5	4.1
803	Surendranagar	Dhama	7.26	7.24	7.2	8.15
804	Surendranagar	Dhandhalpur 1	9.6	0.8	1.05	2.5
805	Surendranagar	Dheduki 1	-	9.8	10.44	12.3
806	Surendranagar	Dhrangadhra 2	-	7.38	5.22	6.83
807	Surendranagar	Gamda	11.48	11.48	1.88	11.48
808	Surendranagar	Ghansyam Gadh	0.7	-	-	-
809	Surendranagar	Halvad2	14.91	8.76	10.91	8.81
810	Surendranagar	Jhinjhuwada	6.35	5.8	4.05	7.7
811	Surendranagar	Juna Devaliya 1	4.23	0.68	0.32	1.93
812	Surendranagar	Kharaghoda	1.95	2.9	2.32	2
813	Surendranagar	Kherwa	2.48	3.39	2.8	3.99
814	Surendranagar	Kukavati	3.55	0.25	3.9	-
815	Surendranagar	Lakhtar	5	2	1.91	2.1
816	Surendranagar	Latuda	3.3	8.3	6.36	7.3
817	Surendranagar	Limbdi1	2.26	0.7	1.03	1.45
818	Surendranagar	Limbdi-Pz	2.65	1.25	2.12	2.6
819	Surendranagar	Mathak2	-	11.2	8.4	12.45
820	Surendranagar	Miani	-	4.3	3.82	4.6
821	Surendranagar	Modhvana	7.88	-	1.23	0.95
822	Surendranagar	Moti Moladi	9.91	6.6	6.88	10.6
823	Surendranagar	Muli	9.2	7.7	8.72	7.6
824	Surendranagar	Nava Raisngpur	12.6	-	13.72	13.15
825	Surendranagar	Olak	4.75	4.85	4.47	4.45
826	Surendranagar	Pipli	1.5	0.02	0.02	0.05
827	Surendranagar	Rajsitapur	6.6	8.55	8.18	6.75
828	Surendranagar	Ranipet	-	7.5	5.3	9.2
829	Surendranagar	Ratanpur1	8.2	10.5	6.95	9.35
830	Surendranagar	Sara	3.55	3	3.01	4.75
831	Surendranagar	Sarla	12.4	-	12.16	24.11
832	Surendranagar	Sayala	10.54	6.1	7.77	17.15
833	Surendranagar	Shiyani	4.17	2.8	3.01	2.7

834	Surendranagar	Soldi	-	-	-	8.7
835	Surendranagar	Sudamda	4.36	1.4	2.52	4.2
836	Surendranagar	Sukhpar1	3.4	3.5	3.12	4.25
837	Surendranagar	Surel	-	-	2.31	3.15
838	Surendranagar	Surendranagar	2.71	4.9	2.37	2.75
839	Surendranagar	Surendranagar2	3.62	7.75	7.67	9.05
840	Surendranagar	Tarnetar	20.55	20.55	9.76	20.55
841	Surendranagar	Tavi 1	0.85	-	-	3.92
842	Surendranagar	Than	18.58	19.38	19.38	19.38
843	Surendranagar	Vanala	3.88	1.28	1.85	2.38
844	Surendranagar	Visawadi	5.16	3.95	3.25	4.25
845	Surendranagar	Vitthalgarh	13.8	2.3	2.05	3.15
846	Surendranagar	Warod	-	4.65	5.77	5.45
847	The dangs	Aherdi	-	1.55	2.25	2.75
848	The dangs	Ahwa_Pz	3.39	3.5	4.8	2.22
849	The dangs	Ahwa1	2.66	1	1.1	1.9
850	The dangs	Bari Pada	7.78	0.5	0.9	3
851	The dangs	Bori Gaotha 1	9.44	5.4	6.3	8.2
852	The dangs	Chikhli	6.77	1.2	1.4	2
853	The dangs	Chinchnogaotha	7.97	2.31	3.11	4.01
854	The dangs	Chinchpada	7.3	1	1.5	2.7
855	The dangs	Dhumkal	4.36	1.2	1.9	1.3
856	The dangs	Gadad	5.15	1.15	1.95	3.55
857	The dangs	Ghubita	2.39	1.6	2.4	1.3
858	The dangs	Jakana	2.35	1.75	2.55	1.85
859	The dangs	Jamalpada	7.05	3.9	4.8	5.6
860	The dangs	Kalibel	3.53	0.9	1.8	2.4
861	The dangs	Mahal	4.18	3.3	3.7	3.5
862	The dangs	Malegaon	4.08	0.2	0.5	1
863	The dangs	Mheskatri	-	11.1	-	-
864	The dangs	Nadak khadi	6.39	1.35	2.15	3.13
865	The dangs	Nana pada	6.64	2.28	2.88	5.98
866	The dangs	Sakarpatal	6.36	1.5	2.3	1.8
867	The dangs	Sodmal	10.23	1.4	1.8	6.6
868	The dangs	Subir	6.51	1.3	1.5	2.28
869	The dangs	Umberpada	5.4	1.25	1.4	3.65
870	The dangs	Vaghai	12.64	11	10.8	11.8
871	The dangs	Vazat Amba	6.12	3.1	3.35	4.5
872	Vadodara	Alladpur	8.5	7	9.94	10.43
873	Vadodara	Amreshwar	4.25	2.79	3.4	3.67
874	Vadodara	Asala	11.6	8.6	12.5	11.57
875	Vadodara	Asar	17.2	-	-	12.93
876	Vadodara	Baladgam	13	10.72	10.72	12.78
877	Vadodara	Bhindol	7.4	6.98	-	9.94

878	Vadodara	Bodeli	3.18	1.41	2	2.31
879	Vadodara	Chavaria	12.3	10.42	12.3	10.42
880	Vadodara	Chella Karamsiya Pz	2.6	-	3.76	3.36
881	Vadodara	Chhaliyar	20.23	19.12	20.28	19.25
882	Vadodara	Chhota udepur	4.65	-	3.95	4.66
883	Vadodara	Chisadia	11.88	9.44	11.88	11.88
884	Vadodara	Chitral PZ_II	24.7	22.14	25.8	24.07
885	Vadodara	Devat (thadgam)	11.7	7.38	7.44	9.5
886	Vadodara	Ferkuva	7.7	6.1	2.64	7.67
887	Vadodara	Ghamodi	8.27	7.39	6.41	8.25
888	Vadodara	Ghayaj ii	21.33	15.83	24.61	15.23
889	Vadodara	Govindpura	7	5.77	6.73	6.47
890	Vadodara	Handod2	-	25.73	-	27.21
891	Vadodara	Jojh	13.42	8.8	9.77	13.42
892	Vadodara	Juna samalya	12.62	9	12.37	11.7
893	Vadodara	Kaprali	7.5	1.05	2.32	-
894	Vadodara	Karamasiya	13.2	2.09	3.32	3.28
895	Vadodara	Kevadi	6.8	5.35	5.33	6.74
896	Vadodara	Kosindra Pz-I	1.2	2.15	3.88	3.82
897	Vadodara	Makni	9.75	10.45	9.9	10.53
898	Vadodara	Masor	12.27	14.15	15.02	11.36
899	Vadodara	Moti chikhali	3.45	2.93	3.12	4.28
900	Vadodara	Panwad	13.9	5.46	7.34	9.82
901	Vadodara	Patiyapura	7.92	7.71	8.28	8.36
902	Vadodara	Pavi	4.73	4.47	3.73	4.03
903	Vadodara	Pitha	8.26	7.58	8.08	7.71
904	Vadodara	Rasulpur	3.36	3.72	-	3.22
905	Vadodara	Saidal	2.5	-	2.86	2.57
906	Vadodara	Saidivasana	6.7	2.32	2.82	5.46
907	Vadodara	Sankarda1	29.51	24.49	25.49	25.42
908	Vadodara	Sankheda	25.48	19.74	22.74	19.83
909	Vadodara	Sengpur	10.3	6.46	7.64	7.96
910	Vadodara	Sinor	24.35	21.97	23.64	23.96
911	Vadodara	Suskal	6.41	-	-	-
912	Vadodara	Tokri	3.53	-	-	12.74
913	Vadodara	Tundav	11.85	12.47	13.02	14
914	Vadodara	Vadodara Ii	5.31	5.3	5.56	5.7
915	Vadodara	Vadodara_Kevada Bag	9.58	-	11.03	9.52
916	Vadodara	Vadodara_ONGC	9.05	-	7	7.72
917	Vadodara	Vadtalav Pz	19.45	9.22	10.13	14.34
918	Vadodara	Vagudan	6.93	4.5	6.66	6.4
919	Vadodara	Vega	5.97	4.45	3.78	6.08
920	Vadodara	Vejpur2	2.1	1.1	1.66	1.7
921	Vadodara	Waghach	9.95	7.13	9.95	9.95

922	Vadodara	Waghodia Pz	5.83	-	-	7.51
923	Vadodara	Wankaner2	45.07	34.88	-	36.4
924	Valsad	Awadha	3.54	7.35	8.15	11.25
925	Valsad	Chavshala	2.53	0.1	0.4	2.3
926	Valsad	Dahli (bhilad)	4.65	0.29	0.69	3.49
927	Valsad	Dharampur 3	13.53	11.4	12.1	9.5
928	Valsad	Dharampur1	10.83	5.6	7.6	7.7
929	Valsad	Dungri	-	3.1	4.5	4.5
930	Valsad	Fali	12.2	0.23	1	3.7
931	Valsad	Kanadu	5.83	2.2	2.7	6.2
932	Valsad	Kaparda	5.36	1.75	1.2	2.85
933	Valsad	Karwad	4.38	1.8	3.35	4.3
934	Valsad	Lakadmal	7.47	1.9	-	5.4
935	Valsad	Muli1	2.91	0.8	2.45	3.4
936	Valsad	Nanaponda	10.07	2.6	5.3	8.2
937	Valsad	Tithal	8.06	6.4	6.8	7.6
938	Valsad	Tumb	3.4	1.7	3	3.6
939	Valsad	Udwada	6.62	0.55	2.3	4.25
940	Valsad	Umargaon	4.02	3.5	4.15	4
941	Valsad	Valsad1	-	14.6	12.6	-
942	Valsad	Vapi Balitha	11.8	1.4	2.2	9.7

Annexure IIIb

DEPTH TO PIEZOMETRIC SURFACE OF CONFINED AQUIFERS IN GUJARAT DURING 2015-16

S. No.	Site_Name	District	Depth to piezometer surface in m bgl			
			May-15	Aug-15	Nov-15	Jan-16
1	Ahmedabad	Bagodara_Pz_I	-	5.54	6.2	7.6
2	Ahmedabad	Ghuma_Pz_I	100.65	98.61	95.4	98.1
3	Ahmedabad	Hansalpur_Pz-I	37.55	32.6	29.2	36.1
4	Ahmedabad	Hansalpur_Pz-II	27.87	26.4	24.63	30.4
5	Ahmedabad	Jholapur_Pz_I	67.1	47.5	46.52	-
6	Ahmedabad	Jholapur_Pz_II	17.52	13.35	10.9	-
7	Ahmedabad	Sanand I	71.34	67.85	63.58	68.4
8	Ahmedabad	Sanand II	17.48	17.3	14.9	17.65
9	Ahmedabad	Sola I	91.76	98.12	98.92	91.53
10	Ahmedabad	Sola(HC)_Pz_I	67.93	57.65	55.85	68.47
11	Ahmedabad	Vasai_Pz_I	24.7	27.9	25.48	-
12	Ahmedabad	Vatwa Pz-III	29.16	19.44	28.1	27.89
13	Ahmedabad	Visalpur_Pz-I	33.45	29.8	32.15	33.01
14	Amreli	Babra_Pz	10.12	9.32	9.1	10.9
15	Amreli	Haripur_Pz_I	5.34	4.18	5.7	-
16	Amreli	Liliya_Pz_I	5.67	4.93	4.5	6.2
17	Anand	Anklav_Pz_I	21.02	-	-	23.69
18	Anand	Anklav_Pz_II	21.51	-	-	23.9
19	Anand	Borsad I	14.77	15.22	14.87	17.03
20	Anand	Borsad_Pz_II	11.61	12	11.51	13.94
21	Anand	Hariyan_Pz	4.32	3.14	3.12	-
22	Anand	Kathana_Pz_I	13.3	-	-	16.72
23	Anand	Petlad_Pz_I	12.43	10.84	12.13	11.57
24	Anand	Petlad_Pz_II	10.86	8.6	11.47	10.1
25	Anand	Sarsa_Pz_I	-	15.65	14.52	16.13
26	Anand	Sojitra_Pz_I	4.32	-	-	-
27	Anand	Tarapur Pz-I	3.25	0.79	2.23	3.03
28	Anand	Walmi_ I	18.22	17.84	19.28	19.5
29	Anand	Walmi_ II	19.03	18.29	21.54	19.44
30	Banaskantha	Balodhar_Pz-I	145.21	147.8	144.88	141.14
31	Banaskantha	Bhabhar iii	36.6	36.1	35.32	35.64
32	Banaskantha	Biyok_Pz-I	55.8	-	-	-
33	Banaskantha	Biyok_Pz-II	-	35.46	36.6	37.53
34	Banaskantha	Deesa Pzi	79.3	63.6	74.37	72.62
35	Banaskantha	Dhanera Pz- II	81.5	76.3	80.13	77.11
36	Banaskantha	Dhanera Pz-I	100.94	82.6	94.61	91.39

37	Banaskantha	Jalotra Pz-I	19.21	11.81	12.34	12.27
38	Banaskantha	Jerda Pz-I	168.5	-	-	-
39	Banaskantha	Lakhani i	78.58	78.44	-	-
40	Banaskantha	Lakhani iii	-	-	67.4	70.85
41	Banaskantha	Mahi_Pz	152.02	142.7	149.82	147.02
42	Banaskantha	Mangrol Pzii	18.42	17.17	18.05	16.63
43	Banaskantha	Naroli Pzi	9.01	7.4	8.32	8.5
44	Banaskantha	Naroli Pzii	8.12	6.3	8.1	8.33
45	Banaskantha	Nenava Pz	90	-	-	-
46	Banaskantha	Palanpur_Pz	40.64	40.81	39.01	39.97
47	Banaskantha	Rah Pz-III	40.73	36.2	40.69	-
48	Banaskantha	Rah_Pz I	48.18	43.06	47.97	45.56
49	Banaskantha	Rah_Pz II	41.78	42	41.37	42.31
50	Banaskantha	Rasna(Repl)_Pz_I	81.63	82.25	80.07	76.49
51	Banaskantha	Rupal_Pz_I	31.05	-	29.62	27.43
52	Banaskantha	Tharad Pzi	14.81	10.51	10.69	11.14
53	Banaskantha	Tharad Pzii	14.72	10.2	10.63	10.92
54	Banaskantha	Vav ii	23.67	-	20	23.72
55	Banaskantha	Vav i	19	10.1	18.92	21.83
56	Banaskantha	Vinchivadi PZ-I	57.1	54.45	56.64	-
57	Banaskantha	Vinchivadi Pz-II	57.26	54.8	56.82	-
58	Bharuch	Bharuch I	17	5.97	6.02	4.37
59	Bharuch	Bharuch Ii	6.55	-	6	7.01
60	Bharuch	Kadodara	5.5	5.7	7.73	8.35
61	Bhavnagar	Gadhada1	7.11	7.28	3.3	9.4
62	Bhavnagar	Kardej	24.86	25.14	21.9	25.3
63	Gandhinagar	Adalaj_Pz_II	70.35	-	68.99	65.65
64	Gandhinagar	Adalaj_Pz_III	-	22.8	-	21.16
65	Gandhinagar	Amrapur Pzi	114.84	104	102.12	99.62
66	Gandhinagar	Amrapur Pzii	84.33	83.84	80.32	77.74
67	Gandhinagar	Charada Pz -II	99.05	99.5	94.72	92.4
68	Gandhinagar	Charada_Pz_I	185.34	174.6	178.37	177.32
69	Gandhinagar	Chiloda_Pz_II	109.84	-	106.18	100.85
70	Gandhinagar	Dahegam I	62.45	57.5	62.45	57.62
71	Gandhinagar	Gandhinagar II	-	88.89	-	86.3
72	Gandhinagar	Kalol(Nest)_Pz_I	-	-	73.36	71.19
73	Gandhinagar	Kalol(Nest)_Pz_II	-	126.6	-	-
74	Gandhinagar	Kalol(Nest)_Pz_III	64.61	59.63	64.3	62.57
75	Gandhinagar	Mansa	110.99	-	116.77	114.46
76	Gandhinagar	Nardipur i	94.97	95.45	95.27	95.77

77	Gandhinagar	Pethapur_Pz-I	106.5	102	104.07	101.3
78	Gandhinagar	Pethapur_Pz-II	77.99	77.6	78.12	74.52
79	Gandhinagar	Sardhav ii	132.41	-	129.49	128.08
80	Gandhinagar	Sardhav Pz -I	115.78	120.4	111.76	108.61
81	Gandhinagar	Sardhav Pz-II	134.56	128.5	131.21	126.7
82	Kachchh	Balasar	7.5	14.1	7.25	8.51
83	Kachchh	Gadhsisa	-	66.93	72.25	73.65
84	Kachchh	Khavada	6.79	4.03	6.55	7.62
85	Kachchh	Madhapar	47.87	47.97	50.78	55.07
86	Kachchh	Mandvi	28.15	26.8	26.95	29.1
87	Kachchh	Nirona	18.35	17.6	16.4	18.17
88	Kheda	Matar I	18.42	5.55	17.72	15.42
89	Kheda	Matar II	6.23	9.76	5.23	5.96
90	Kheda	Nadiad Pz-I	19	16.85	17.4	17.42
91	Kheda	Sarkhej _ I	27.4	27.55	27.73	26.26
92	Kheda	Sarkhej _ II	36.55	36.55	36.81	33.33
93	Mahesana	Daran_Pz-I	101.02	99.3	101.73	98.74
94	Mahesana	Daran_Pz-II	45.11	44.35	45.18	44.87
95	Mahesana	Jaska(Sy_8")Pz_I	56.92	-	53.37	53.91
96	Mahesana	Jotana Pzi	117.23	-	-	-
97	Mahesana	Jotana Pziii	14.6	3.53	14.32	11.64
98	Mahesana	Karalli (i)	140	132.1	131.08	130.15
99	Mahesana	Karalli II	40.76	39.45	40	39.38
100	Mahesana	Kheralu (deep)	48.06	44.8	43.99	43.48
101	Mahesana	Mehsana v	28.32	-	25.22	25.1
102	Mahesana	Mehsana I	151.6	143.13	143.69	141.43
103	Mahesana	Mehsana II	150.71	-	142.79	141.78
104	Mahesana	Mehsana III	101.56	100.82	96.88	98.87
105	Mahesana	Mewad	7.85	3.28	7.73	7.21
106	Mahesana	Modhera II	56.23	57.95	56.37	55.56
107	Mahesana	Motipura_Pz_I	51.62	49.8	46.49	46.53
108	Mahesana	Motipura_Pz_III	-	-	-	67.5
109	Mahesana	Suraj	-	-	35.35	34.7
110	Mahesana	Thol Pz -V	-	-	107.33	111.7
111	Mahesana	Thol Pz-I	66.64	-	66.3	63.36
112	Mahesana	Thol Pz-III	109.47	116.9	-	-
113	Narmada	Rajpipla	28.18	27.62	28.73	29.53
114	Narmada	Rasulpura_Pz	24.15	20.57	21.73	21.16

115	Patan	Bhutia vasna i	27.4	22.27	29.65	32.2
116	Patan	Biliya(Temple)_Pz_I	75.54	73.65	74.5	75.3
117	Patan	Biliya(Temple)_Pz_II	44.7	46.2	46.5	49.06
118	Patan	Jangral Pzi	146.3	-	-	-
119	Patan	Jangral Pzii	130.3	-	-	-
120	Patan	Kakosi Pz-I	137.95	134.82	136.76	139.42
121	Patan	Kakosi Pz-II	38.46	35.22	34.56	37.11
122	Patan	Lanwa Pz-I	130.1	126.2	71.5	73.67
123	Patan	Matarwadi I	102.52	98.37	88.07	89.42
124	Patan	Matarwadi II	69.35	49.15	43.9	45.47
125	Patan	Sidhada	5.9	4.3	-	5.8
126	Rajkot	Jamkandorna	13.14	13.55	10.82	12.55
127	Rajkot	Lodhika	13.63	7.4	8.52	8.25
128	Rajkot	Morbi	4.9	1.45	2.47	2.7
129	Sabarkantha	Kuski_Pz	21.65	4.05	3	17.67
130	Surendranagar	Halvad1	27.45	-	-	-
131	Vadodara	Chitral Pz-I	23.8	22.63	27.94	23.63
132	Vadodara	Handod1	29.51	27.33	-	27.58
133	Vadodara	Raypura i	24.37	25	27.8	24.99
134	Vadodara	Sankarda	30.03	23.93	24.32	25.51
135	Vadodara	Segwa chouki ii	-	36.76	37.37	36.09
136	Vadodara	Segwa chowki I	29.44	33.9	35.56	36.18
137	Vadodara	Vadodara I	13.62	14.08	14.69	16.31
138	Vadodara	Vadshala Pzi	20.33	-	-	-

						Annexure_IIIc
MEAN DECADAL WATER LEVELS OF THE NATIONAL HYDROGRAPH STATIONS IN GUJARAT AND UT OF DAMAN & DIU						
Sl No	**District**	**Location**	**lat**	**long**	**Mean(2006-2015) Pre Monsoon**	**Mean(2006-2015) Post Monsoon**
1	Ahmedabad	Bagodara_Pz_II	21.91	70.03	-	5.31
2	Ahmedabad	Barvala	22.15	71.89	8.67	7.13
3	Ahmedabad	Dalod	23.37	71.97	7.27	5.91
4	Ahmedabad	Devalia	22.38	71.99	15.62	-
5	Ahmedabad	Dhandhuka1	22.38	71.99	5.34	3.13
6	Ahmedabad	Endla	23.27	72.06	4.11	2.08
7	Ahmedabad	Fedra	22.46	72.16	-	1.50
8	Ahmedabad	Gamph	22.36	72.17	3.27	1.63
9	Ahmedabad	Ghuma	23.03	72.45	5.87	3.87
10	Ahmedabad	Ghuma_Pz_II	23.03	72.45	7.51	4.92
11	Ahmedabad	Hansalpur_Pz-III	23.09	72.02	4.05	3.10
12	Ahmedabad	Kumarkhan	22.90	72.02	5.72	4.64
13	Ahmedabad	Kundal	22.90	72.22	-	7.87
14	Ahmedabad	Kundali	22.27	71.70	14.37	7.01
15	Ahmedabad	Mandal2	23.28	71.92	4.73	3.10
16	Ahmedabad	Pachcham_Pz	22.23	72.18	-	1.24
17	Ahmedabad	Rajpada	22.31	71.69	-	13.87
18	Ahmedabad	Salangpor	22.16	71.77	-	11.71
19	Ahmedabad	Sola_Pz_III	23.08	72.52	11.88	9.74
20	Ahmedabad	Tagadi1	22.30	71.95	7.62	3.17
21	Ahmedabad	Ughraj1	23.37	72.10	8.19	5.45
22	Ahmedabad	Upardhal1	22.85	72.15	10.82	8.66
23	Ahmedabad	Vagad(Repl)_Pz	23.04	72.53	6.05	6.05
24	Ahmedabad	Viramgam2	23.14	72.03	3.41	1.77
25	Ahmedabad	Visalpur_Pz-II	22.92	72.49	8.83	6.12
26	Amreli	Amreli	21.61	71.23	12.45	4.66
27	Amreli	Amreli_Pz	21.61	71.23	13.96	7.54
28	Amreli	Amritvel_Pz	21.40	71.36	3.01	2.31
29	Amreli	Ankadia mota	21.65	71.11	9.69	5.96
30	Amreli	Badhda	21.27	71.34	9.24	5.75
31	Amreli	Bagasara	21.48	70.96	14.20	9.86
32	Amreli	Bhavardi1	21.11	71.26	5.07	0.72
33	Amreli	Bherai	20.87	71.36	3.22	2.48
34	Amreli	Bhuva	21.43	71.36	4.79	3.84
35	Amreli	Chalala	21.42	71.17	28.76	26.69
36	Amreli	Charkhadia_Pz	21.39	71.29	21.93	21.93
37	Amreli	Charkhadia1	21.39	71.30	20.98	17.36
38	Amreli	Chavand	21.82	71.41	10.40	5.86
39	Amreli	Devaliya	21.82	71.11	12.77	8.12

40	Amreli	Dharangani	21.33	71.20	31.20	29.23
41	Amreli	Dhari	21.34	71.04	13.13	13.13
42	Amreli	Dhari_Pz	21.33	71.02	19.92	9.38
43	Amreli	Dhrai Balmukand	21.83	71.22	21.05	8.95
44	Amreli	Fifad	21.44	71.54	5.77	4.65
45	Amreli	Gopalpura Vanda Pz	21.38	71.49	25.06	25.06
46	Amreli	Goradka	21.23	71.41	12.48	4.22
47	Amreli	Govadka	21.54	71.16	6.62	2.93
48	Amreli	Hinderana	21.23	71.20	4.35	4.65
49	Amreli	Hipavadli	21.38	71.61	9.25	8.37
50	Amreli	Ingorala	21.23	71.20	14.04	8.77
51	Amreli	Jafrabad	20.87	71.36	2.60	2.17
52	Amreli	Jira	21.24	71.09	9.66	4.26
53	Amreli	Kadiyali	20.91	71.36	6.20	3.42
54	Amreli	Kerala	21.40	71.22	36.36	33.04
55	Amreli	Khamba	21.15	71.24	8.82	4.45
56	Amreli	Khamba_Pz	21.14	71.25	12.94	8.35
57	Amreli	Kotadapitha	21.96	71.20	7.60	-
58	Amreli	Kunkavav	21.66	70.98	17.98	16.56
59	Amreli	Lathi	21.72	71.38	6.86	2.28
60	Amreli	Lotpur	20.96	71.43	6.54	4.78
61	Amreli	Luvariya	21.63	71.40	10.18	4.47
62	Amreli	Mandal	21.10	71.58	26.03	21.82
63	Amreli	Manila Pz	21.43	71.17	18.71	17.05
64	Amreli	Morjhar	21.38	71.12	34.66	23.27
65	Amreli	Nageshri	20.93	71.35	5.74	2.82
66	Amreli	Piyava	21.38	71.47	26.47	23.50
67	Amreli	Punjapadar	21.53	71.36	11.52	4.64
68	Amreli	Salena	21.39	71.53	12.05	10.00
69	Amreli	Sanaria	21.56	71.47	5.50	3.00
70	Amreli	Tajpur	21.73	71.47	18.08	8.41
71	Amreli	Timbi2	21.02	71.28	10.42	6.08
72	Amreli	Trakuda	21.02	71.28	10.20	5.16
73	Amreli	Untvad	21.92	71.22	16.49	9.39
74	Amreli	Vaghania juna	21.58	70.97	9.96	4.20
75	Amreli	Vanda	21.39	71.51	9.86	5.17
76	Amreli	Vankiya	21.52	71.14	9.45	5.40
77	Amreli	Vankiya1	21.23	71.25	13.04	5.69
78	Amreli	Vavdi Pz	21.36	71.19	-	33.46
79	Amreli	Victor	21.01	71.54	1.63	0.80
80	Amreli	Virpur	21.25	71.15	18.64	9.88
81	Anand	Adas_DW	22.48	73.03	19.13	18.19
82	Anand	Anand	22.58	72.97	8.74	6.74
83	Anand	Anklav2	22.38	73.01	22.03	19.85

84	Anand	Bandhani	22.54	72.82	4.49	2.59
85	Anand	Bhadran	22.36	72.90	15.59	13.75
86	Anand	Boriyani	22.63	73.00	5.35	3.69
87	Anand	Dali	22.28	72.77	4.90	3.64
88	Anand	Davalpura_Pz	22.46	72.80	3.76	1.60
89	Anand	Dharmaj	22.42	72.79	11.47	9.56
90	Anand	Ghora	22.69	73.05	5.13	3.18
91	Anand	Kansari1	22.34	72.65	12.34	9.84
92	Anand	Laxmipura	22.42	72.61	2.72	1.13
93	Anand	Navapura	22.31	72.96	24.51	22.44
94	Anand	Parvata	22.71	73.13	7.32	-
95	Anand	Ras	22.35	72.83	2.64	1.73
96	Anand	Tarapur Pz-II	22.49	72.66	3.79	2.22
97	Anand	Tol	22.51	72.57	0.94	-
98	Banaskantha	Ambaji_Pz	24.34	72.85	11.59	7.41
99	Banaskantha	Amirgadh	24.41	72.64	11.61	10.98
100	Banaskantha	Bharol1	24.53	71.54	4.63	4.27
101	Banaskantha	Danta	24.19	72.77	10.57	7.80
102	Banaskantha	Dantiwada	24.19	72.76	29.68	27.17
103	Banaskantha	Dantiwada	24.31	72.33	35.79	-
104	Banaskantha	Deesa Pzii	24.26	72.19	57.96	57.66
105	Banaskantha	Ganapipli	24.30	72.95	10.62	8.40
106	Banaskantha	Gangodra	24.44	72.37	21.72	15.82
107	Banaskantha	Iqbalgarh	24.35	72.54	29.21	25.91
108	Banaskantha	Jhat	24.49	72.35	16.01	14.04
109	Banaskantha	Khoda	24.66	71.77	20.82	19.10
110	Banaskantha	Kidotar	24.39	72.63	18.63	16.00
111	Banaskantha	Meda	24.40	72.29	11.94	9.84
112	Banaskantha	Mohabbat gadh	24.17	72.73	23.14	19.67
113	Banaskantha	Naroli Pziii	24.62	71.64	11.18	9.29
114	Banaskantha	Palanpur2	24.19	72.43	31.58	29.35
115	Banaskantha	Ratanpur2	24.18	72.75	17.32	13.83
116	Banaskantha	Sodapur	24.40	72.30	16.02	12.63
117	Banaskantha	Tharad Pziii	24.39	71.62	15.18	14.16
118	Bharuch	Arethi	21.61	73.44	-	5.71
119	Bharuch	Bharuch	21.70	73.00	6.88	3.49
120	Bharuch	Bhensli	21.73	72.75	3.39	2.24
121	Bharuch	Chhindra	22.13	72.67	8.83	9.83
122	Bharuch	Dahegam	22.19	72.60	7.69	7.02
123	Bharuch	Hansot	21.58	72.81	4.66	-
124	Bharuch	Ilav	21.45	72.80	6.27	5.36
125	Bharuch	Jambusar	22.05	72.81	7.42	7.53
126	Bharuch	Jambusar2	22.05	72.80	7.54	-
127	Bharuch	Jetpur1	21.49	72.71	4.14	2.15

128	Bharuch	Jokhla	21.60	73.17	3.51	1.24
129	Bharuch	Juna borbhata	21.68	72.98	6.74	5.48
130	Bharuch	Kalak1	22.02	72.76	7.32	-
131	Bharuch	Kaswa	21.68	72.82	7.11	4.53
132	Bharuch	Kavachiya	21.53	73.35	6.09	3.63
133	Bharuch	Kavi	22.19	72.64	6.82	5.69
134	Bharuch	Kondh	21.58	73.07	5.13	3.08
135	Bharuch	Luhara	21.68	72.56	4.38	3.30
136	Bharuch	Mahegam1	21.68	72.76	6.25	-
137	Bharuch	Modoliya	21.63	73.30	8.87	7.28
138	Bharuch	Mokhdi	21.53	73.29	9.30	4.68
139	Bharuch	Motwan	21.56	72.89	2.64	2.15
140	Bharuch	Mulad	21.68	73.02	8.96	6.26
141	Bharuch	Navetha	21.71	72.83	7.12	5.81
142	Bharuch	Netrang(Rep)_Pz	21.64	73.37	9.62	5.90
143	Bharuch	Netrang1	21.63	73.37	6.68	3.16
144	Bharuch	Nirnavi	21.79	72.67	10.31	7.23
145	Bharuch	Panoli	21.54	72.98	2.64	1.75
146	Bharuch	Raymal	21.52	72.82	2.41	1.33
147	Bharuch	Roja tankaria	21.92	72.79	9.72	8.14
148	Bharuch	Sahol	21.47	72.81	3.37	1.56
149	Bharuch	Sajod	21.62	72.92	3.30	2.95
150	Bharuch	Sarod	22.16	72.76	12.90	10.26
151	Bharuch	Simodra	21.74	73.21	6.77	3.99
152	Bharuch	Sindhav	22.03	72.64	9.11	8.61
153	Bharuch	Tankari	21.99	72.68	4.37	2.63
154	Bharuch	Utraj	21.59	72.83	4.44	3.44
155	Bharuch	Valia1	21.57	73.16	3.91	2.96
156	Bhavnagar	Ambala	21.71	71.84	-	12.94
157	Bhavnagar	Ayodhayapuram	21.96	71.89	11.35	6.95
158	Bhavnagar	Bhavnagar1	21.77	72.15	6.62	5.09
159	Bhavnagar	Bhudel	21.69	72.16	5.39	2.62
160	Bhavnagar	Bhumbhali	21.68	72.24	2.77	2.17
161	Bhavnagar	Bhutia	21.75	71.70	17.59	11.30
162	Bhavnagar	Bora	21.19	71.93	28.34	25.60
163	Bhavnagar	Chowk Pz	21.43	71.76	24.79	23.40
164	Bhavnagar	Datha	21.22	71.95	4.04	3.47
165	Bhavnagar	Dhasa	21.80	71.51	5.06	2.77
166	Bhavnagar	Dudhala	21.14	71.66	12.32	7.60
167	Bhavnagar	Gadhada2	21.97	71.58	4.75	4.22
168	Bhavnagar	Gariyadhar	21.54	71.57	17.99	10.30
169	Bhavnagar	Ghogha1	21.68	72.28	4.17	1.66
170	Bhavnagar	Jalia	21.80	71.62	-	11.81
171	Bhavnagar	Khijadiya	21.64	71.70	9.94	8.45

172	Bhavnagar	Kundheli	21.38	71.98	10.28	19.31
173	Bhavnagar	Lakadiya	21.46	72.09	-	11.60
174	Bhavnagar	Longadi	21.21	71.88	5.52	3.58
175	Bhavnagar	Lonjdhara	22.10	71.90	23.61	18.77
176	Bhavnagar	Mahuva1	21.10	71.77	18.29	-
177	Bhavnagar	Malvav_Pz	21.16	71.91	29.72	24.24
178	Bhavnagar	Motivadal	21.20	71.55	7.66	3.41
179	Bhavnagar	Ningala	22.02	71.70	14.82	7.82
180	Bhavnagar	Palitana1	21.53	71.82	11.18	6.47
181	Bhavnagar	Palitana2	21.52	71.84	11.21	5.95
182	Bhavnagar	Paliyad2	22.26	71.56	14.14	-
183	Bhavnagar	Panchpipla	21.55	71.72	5.98	2.18
184	Bhavnagar	Panvi1	22.08	71.89	9.46	4.02
185	Bhavnagar	Pasvi	21.29	71.97	15.87	7.74
186	Bhavnagar	Piparla	21.64	71.92	-	2.36
187	Bhavnagar	Porbada	21.80	71.70	11.25	8.61
188	Bhavnagar	Sajnasar	21.43	71.91	9.51	3.80
189	Bhavnagar	Sandhida	21.69	71.76	3.88	2.14
190	Bhavnagar	Satanes	21.44	71.84	14.75	2.56
191	Bhavnagar	Shantinagar	21.25	71.65	11.46	5.74
192	Bhavnagar	Talaja2	21.37	72.02	8.80	6.51
193	Bhavnagar	Tansa	21.51	72.13	8.47	-
194	Bhavnagar	Tardhera	22.23	71.60	19.39	16.13
195	Bhavnagar	Tatam	22.06	71.63	26.42	14.83
196	Bhavnagar	Timbi2	21.83	71.77	13.52	-
197	Bhavnagar	Trapaj	21.43	72.10	15.59	-
198	Bhavnagar	Umrala	21.85	71.81	11.87	8.59
199	Bhavnagar	Vadal	21.48	71.81	11.05	3.32
200	Bhavnagar	Vallabhipur1	21.88	71.88	5.96	4.70
201	Bhavnagar	Vallbhipur	21.88	71.88	5.98	4.57
202	Bhavnagar	Vavdi	21.57	72.20	11.77	3.48
203	Daman	Ambawadi	20.40	72.84	6.10	4.37
204	Daman	Bhimpor k.falia	20.46	72.87	7.19	4.29
205	Daman	Dabhel	20.41	72.89	3.95	2.28
206	Daman	Dalwada	20.44	72.85	7.83	2.51
207	Daman	Daman	20.42	72.85	7.94	3.13
208	Daman	Jempore	20.38	72.83	3.56	1.87
209	Daman	Khariwad daman	20.43	72.85	3.49	2.07
210	Daman	Morwad	20.44	72.83	6.98	4.75
211	Daman	Warkund	20.41	72.86	6.42	2.62
212	Diu	Chakarteeth_Pz	20.71	70.97	-	6.11
213	Diu	Diu	20.72	70.95	3.61	3.38
214	Diu	Gomtimata	20.71	70.88	4.28	3.93
215	Diu	Jalawadi	20.72	70.93	6.82	4.31

216	Dohad	Ambakatch	22.67	74.22	3.00	2.33
217	Dohad	Bapda	22.67	73.84	7.70	0.00
218	Dohad	Dabhava	22.58	73.90	5.14	2.76
219	Dohad	Dadhela	22.84	74.07	8.63	4.54
220	Dohad	Dahod	22.84	74.26	4.33	2.54
221	Dohad	Dahod2	22.83	74.23	8.98	5.96
222	Dohad	Devgadh Baria	22.70	73.91	10.89	7.40
223	Dohad	Devgadh bariya	22.70	73.92	12.98	7.34
224	Dohad	Dhanpur	22.63	74.10	12.31	-
225	Dohad	Dohad_Urban1	22.86	74.25	3.40	1.60
226	Dohad	Dohad_Urban2	22.84	74.27	7.75	5.72
227	Dohad	Dohad_Urban3	22.84	74.23	7.82	4.52
228	Dohad	Fatepura(Karodia)	23.25	74.03	12.77	8.43
229	Dohad	Garada	23.16	74.12	7.10	2.97
230	Dohad	Garbara	22.68	74.31	8.40	3.82
231	Dohad	Jhalod	23.09	74.15	9.89	7.17
232	Dohad	Jhalod1	23.09	74.13	8.69	5.78
233	Dohad	Kanjetha	22.58	74.11	10.19	5.95
234	Dohad	Khandania	22.70	73.84	12.78	10.01
235	Dohad	Limkheda	22.83	73.99	8.21	5.29
236	Dohad	Mirakhedi	22.93	74.20	6.33	2.63
237	Dohad	Panchwada	22.73	74.31	5.77	4.00
238	Dohad	Pipero	22.65	74.09	12.40	6.19
239	Dohad	Salaya1	22.81	73.89	10.66	5.10
240	Dohad	Sarsava	23.15	74.05	14.50	5.92
241	Dohad	Sukhsar	23.15	74.05	9.21	6.91
242	Dohad	Thada	22.95	74.09	10.30	7.09
243	Dohad	Tokarba	22.60	74.04	6.06	3.49
244	Dohad	Varamkheda	22.80	74.28	1.97	0.78
245	Dohad	Wadia	22.90	74.05	7.60	3.87
246	Gandhinagar	Amrapur Pziii	23.08	72.52	59.06	-
247	Gandhinagar	Kasturinagar(IFFCO)	23.19	72.55	11.58	11.03
248	Gandhinagar	Lodra	23.46	72.72	53.87	53.69
249	Gandhinagar	Paliya	23.18	72.84	12.37	10.12
250	Gandhinagar	Serthapara1	23.19	72.57	13.22	11.75
251	Jamnagar	Amaliya Chokri	22.24	69.13	3.10	3.22
252	Jamnagar	Ambardi	21.92	69.86	12.36	4.31
253	Jamnagar	Amran_Pz	22.82	70.55	3.84	2.17
254	Jamnagar	Amran1	22.83	70.56	4.58	1.77
255	Jamnagar	Aramda	22.43	69.04	5.36	4.41
256	Jamnagar	Balwa	21.90	69.96	20.36	11.50
257	Jamnagar	Bed1	22.44	69.90	8.09	5.11
258	Jamnagar	Bedanpur	22.68	70.32	5.40	3.41
259	Jamnagar	Bhanvad	21.93	69.80	13.04	6.18

260	Jamnagar	Bhatia	22.09	69.30	11.03	5.47
261	Jamnagar	Bhatiya	22.09	69.27	-	1.06
262	Jamnagar	Bhogat1	21.99	69.25	8.48	3.81
263	Jamnagar	Changa	22.35	70.04	14.63	11.44
264	Jamnagar	Dhrol2	22.57	70.42	4.81	2.69
265	Jamnagar	Dudhai2	22.79	70.50	3.51	1.47
266	Jamnagar	Dwarka	22.25	68.96	7.72	7.80
267	Jamnagar	Gordhanpur	22.45	70.00	9.73	6.02
268	Jamnagar	Haripur2	22.27	70.33	16.69	4.76
269	Jamnagar	Haryana	22.61	70.26	7.61	5.44
270	Jamnagar	Jambuda	22.53	70.20	6.85	3.33
271	Jamnagar	Jamjodhpur	21.91	70.03	7.72	4.89
272	Jamnagar	Jamnagar1	22.47	70.05	9.28	3.47
273	Jamnagar	Jamnagar2	22.46	70.08	6.08	3.21
274	Jamnagar	Juvanpur	22.17	69.37	24.34	9.13
275	Jamnagar	Kajuda	22.33	69.71	7.44	4.29
276	Jamnagar	Kalawad	22.22	70.38	4.16	3.07
277	Jamnagar	Kalyanpur2	22.02	69.39	22.63	8.04
278	Jamnagar	Khambhaliya	22.21	69.65	7.21	4.52
279	Jamnagar	Khirsara	21.98	69.60	14.42	4.98
280	Jamnagar	Kuvadia	22.20	69.58	15.80	8.52
281	Jamnagar	Lalpur1	22.19	69.96	12.81	5.94
282	Jamnagar	Lambha 1	21.90	69.32	9.63	9.10
283	Jamnagar	Modpar	21.86	69.81	17.40	8.86
284	Jamnagar	Mojap	22.37	68.98	8.25	6.38
285	Jamnagar	Mota kalawad	22.04	69.88	22.67	12.41
286	Jamnagar	Motagop	21.91	69.83	9.52	6.16
287	Jamnagar	Moti khavdi	22.39	69.87	9.61	6.86
288	Jamnagar	Moti matli	22.32	70.26	17.19	5.55
289	Jamnagar	Nikava	22.19	70.53	4.80	2.63
290	Jamnagar	Pindara1	22.25	69.26	6.63	3.58
291	Jamnagar	Raval	21.93	69.49	7.52	3.04
292	Jamnagar	Salaya	22.31	69.60	2.93	2.38
293	Jamnagar	Samrasar1	22.38	69.10	4.66	3.00
294	Jamnagar	Seth vadala	22.03	70.13	9.74	4.47
295	Jamnagar	Sumana	22.11	70.17	11.83	7.10
296	Jamnagar	Toda	22.06	70.38	14.37	5.83
297	Jamnagar	Vad panchasara	22.23	70.12	16.28	6.36
298	Jamnagar	Vadtara	22.21	69.50	12.64	7.02
299	Jamnagar	Varwada	22.29	68.97	15.73	9.98
300	Jamnagar	Vijarkha	22.42	70.18	8.58	5.27
301	Jamnagar	Vinjhalpur	22.15	69.60	-	5.21
302	Junagadh	Ajotha	20.89	70.47	-	6.32
303	Junagadh	Alwani	21.23	70.64	2.05	-

304	Junagadh	Amervel Nes	21.41	70.52	3.62	1.99
305	Junagadh	Anandpur	21.05	70.67	18.43	7.65
306	Junagadh	Ankolwadi_1	21.05	70.66	-	13.00
307	Junagadh	Antroli	21.24	70.01	-	4.07
308	Junagadh	Arena	21.08	70.18	10.75	5.94
309	Junagadh	Bamanwara	21.22	70.06	9.62	4.71
310	Junagadh	Bantva	21.49	70.08	18.33	12.73
311	Junagadh	Bhatsimroli	21.22	70.18	22.30	8.27
312	Junagadh	Bhim Deval	20.98	70.61	9.99	5.04
313	Junagadh	Bilkha	21.44	70.60	12.68	8.66
314	Junagadh	Budhecha	21.10	70.22	7.38	3.80
315	Junagadh	Chokli	21.60	70.54	26.76	11.13
316	Junagadh	Chorwad	21.04	70.22	6.94	3.88
317	Junagadh	Dhokadva	20.96	71.07	12.02	10.25
318	Junagadh	Gadu	21.05	70.28	34.34	21.40
319	Junagadh	Galodar	21.15	70.28	21.57	8.45
320	Junagadh	Gangda_Pz	20.86	71.17	8.01	4.92
321	Junagadh	Girgadhada	20.93	70.92	7.34	6.64
322	Junagadh	Goraj1	21.18	70.15	32.39	9.68
323	Junagadh	Govindpura2	20.95	70.40	-	7.10
324	Junagadh	Jambur[madhapar	21.03	70.61	8.20	3.49
325	Junagadh	Jamvala	20.98	70.77	-	3.72
326	Junagadh	Jamvala1	20.98	70.76	7.33	6.32
327	Junagadh	Jargla Jargali	20.88	70.98	14.05	2.70
328	Junagadh	Junagadh	21.51	70.46	12.25	9.81
329	Junagadh	Junagadh1	21.52	70.46	10.90	5.85
330	Junagadh	Juthal	21.17	70.27	8.96	7.55
331	Junagadh	Kalej	21.25	70.06	14.04	8.74
332	Junagadh	Kanek	21.03	70.24	13.50	6.28
333	Junagadh	Kansari	20.87	71.05	14.63	11.95
334	Junagadh	Kasia Naka Check Post	21.27	70.68	3.13	2.52
335	Junagadh	Kesariya1	20.80	70.94	-	10.37
336	Junagadh	Kewarda	21.27	70.21	14.57	9.00
337	Junagadh	Khambalia1	21.04	70.19	8.51	8.17
338	Junagadh	Khokharda	21.42	70.32	23.54	12.52
339	Junagadh	Khorada1	21.06	70.17	8.85	7.95
340	Junagadh	Khoras ahir	21.37	70.34	13.35	8.59
341	Junagadh	Kodinar	20.80	70.69	11.66	6.25
342	Junagadh	Kodinar1	20.80	70.69	13.30	8.94
343	Junagadh	Kukaswada	21.05	70.21	10.15	5.96
344	Junagadh	Lohej	21.17	70.07	7.93	8.29
345	Junagadh	Maktupur1	21.14	70.10	10.00	9.07
346	Junagadh	Mandawad	21.36	70.75	14.24	9.31

347	Junagadh	Mangrol	21.13	70.11	17.18	16.27
348	Junagadh	Mangrol1	21.13	70.12	13.38	12.31
349	Junagadh	Manketara	21.15	70.13	32.25	18.29
350	Junagadh	Mendarda	21.33	70.44	17.46	8.49
351	Junagadh	Mendarda1	21.33	70.43	15.82	8.24
352	Junagadh	Moraj	20.98	70.44	9.60	4.77
353	Junagadh	Patla	21.60	70.57	7.91	2.19
354	Junagadh	Prachi_Pz	20.92	70.61	17.50	7.56
355	Junagadh	Prasli	20.85	70.67	14.60	6.17
356	Junagadh	Prempara	21.30	70.70	18.44	10.00
357	Junagadh	Sametar	20.85	71.12	15.16	8.39
358	Junagadh	Saradiya	21.59	70.04	11.14	2.19
359	Junagadh	Sepa	21.12	70.22	25.03	17.25
360	Junagadh	Seriakhan	21.13	70.25	18.00	13.35
361	Junagadh	Shardagram	21.10	70.15	11.57	10.52
362	Junagadh	Sil	21.19	70.05	7.26	5.86
363	Junagadh	Sil bandar	21.22	70.06	9.32	6.28
364	Junagadh	Talala_Pz	21.06	70.54	10.37	6.76
365	Junagadh	Talala1	21.05	70.53	11.35	6.98
366	Junagadh	Una1	20.83	71.04	8.82	5.89
367	Junagadh	Una2	20.83	71.04	5.31	2.85
368	Junagadh	Vadal	21.61	70.50	14.26	12.92
369	Junagadh	Vanthali ii	21.47	70.33	9.04	3.97
370	Junagadh	Visavadar	21.34	70.75	14.77	9.14
371	Kachchh	Asambia mota1	22.97	69.45	11.02	7.90
372	Kachchh	Bambhdai	22.97	69.44	5.17	5.17
373	Kachchh	Bhadreshwar	22.94	69.08	8.02	5.97
374	Kachchh	Bhuj (Circuit House)	22.90	69.90	14.85	13.29
375	Kachchh	Chandranagar	23.25	69.67	7.35	5.77
376	Kachchh	Dayapar	23.45	69.40	16.77	16.48
377	Kachchh	Dayapar1	23.63	68.90	-	21.15
378	Kachchh	Deshalpur rapar	23.63	68.87	13.42	10.92
379	Kachchh	Devisar	23.75	70.68	14.27	13.25
380	Kachchh	Dholavira	23.40	69.33	9.69	7.11
381	Kachchh	Dhori	23.88	70.22	17.94	-
382	Kachchh	Dunai	23.44	69.75	10.72	8.41
383	Kachchh	Gagodar	23.43	69.75	28.32	26.89
384	Kachchh	Gandhidham2	23.05	69.50	6.14	4.41
385	Kachchh	Haboi	23.42	70.80	3.17	1.58
386	Kachchh	Kakarwa	23.08	70.15	15.68	14.73
387	Kachchh	Karagoga	23.36	69.87	3.51	2.45
388	Kachchh	Kharai_1	23.46	68.69	3.10	-
389	Kachchh	Kharoi	23.48	70.40	5.55	3.63
390	Kachchh	Khavada	22.94	69.66	5.65	5.03

391	Kachchh	Kotada	23.38	69.20	38.80	38.00
392	Kachchh	Kotadi	23.45	70.35	10.30	9.67
393	Kachchh	Kotaya	23.84	69.73	8.95	8.27
394	Kachchh	Kothara	23.04	69.19	5.24	3.79
395	Kachchh	Kuda	23.04	69.08	25.52	23.67
396	Kachchh	Kumbhariya	23.34	70.72	7.71	7.20
397	Kachchh	Lakhpat	23.82	68.78	8.77	5.42
398	Kachchh	Lilpur	23.51	70.65	1.16	0.86
399	Kachchh	Lodai	23.40	69.89	13.59	13.73
400	Kachchh	Luni	22.87	69.81	7.99	6.10
401	Kachchh	Mandvi (Shitla Mata)	22.83	69.33	7.86	-
402	Kachchh	Mata no madh	23.53	68.95	9.64	9.37
403	Kachchh	Mathak1	23.00	70.03	-	8.52
404	Kachchh	Mau Moti_1	23.08	69.30	5.20	3.25
405	Kachchh	Mothala	23.21	69.13	3.74	3.15
406	Kachchh	Moti cher	23.76	68.68	3.85	-
407	Kachchh	Mundra	22.83	69.72	6.34	4.58
408	Kachchh	Naliya	23.26	68.84	9.24	8.40
409	Kachchh	Naliya (Bus S)	23.27	68.83	9.72	-
410	Kachchh	Rapar2	23.57	70.64	27.79	26.89
411	Kachchh	Ratanpur Khadir1	23.86	70.36	19.62	14.51
412	Kachchh	Rawapar	23.11	69.29	13.62	13.59
413	Kachchh	Rudramata	23.52	69.08	7.64	4.70
414	Kachchh	Samkhiari	23.39	69.71	9.38	4.11
415	Kachchh	Sedat	23.17	69.64	13.61	12.81
416	Kachchh	Shinaya	23.03	70.05	4.37	3.63
417	Kachchh	Shivlakha	23.38	70.62	16.52	11.86
418	Kachchh	Sukhpar	23.21	69.62	14.59	14.75
419	Kachchh	Suthri	23.03	68.92	-	10.30
420	Kachchh	Tera	23.28	68.95	11.26	10.76
421	Kachchh	Tunga	23.82	69.86	6.10	-
422	Kachchh	Ugardi	23.46	69.14	27.70	24.39
423	Kachchh	Vadala	22.92	69.86	9.75	8.67
424	Kachchh	Vinjhan1	23.10	69.03	8.48	6.07
425	Kheda	Alina	22.81	73.06	10.13	7.80
426	Kheda	Alindra	22.96	73.34	10.70	5.77
427	Kheda	Balasinor	22.95	73.33	3.99	2.96
428	Kheda	Balasinor1	23.17	73.41	7.17	4.30
429	Kheda	Bar	22.65	72.95	6.16	3.40
430	Kheda	Boriyavi	22.64	72.91	5.70	2.81
431	Kheda	Dakor	22.76	73.17	6.67	5.16
432	Kheda	Juna vasadra	23.08	73.36	4.87	3.14
433	Kheda	Kalesar	22.72	73.19	3.92	1.67
434	Kheda	Kapadvanj	23.00	73.09	12.70	7.87

435	Kheda	Ladvel	22.91	73.12	2.18	-
436	Kheda	Ladvel_1	22.91	73.12	3.05	1.65
437	Kheda	Mahudha	22.78	72.94	4.14	2.60
438	Kheda	Muliyad	22.78	73.18	3.90	1.11
439	Kheda	Nadiad2	22.68	72.88	7.21	5.35
440	Kheda	Nes_Pz	24.12	72.16	8.23	6.06
441	Kheda	Sarkhej _ Pz-III	22.99	72.88	42.65	36.79
442	Kheda	Shekhupura	22.58	72.63	1.16	0.29
443	Kheda	Thasra	22.79	73.21	4.27	2.18
444	Kheda	Vaso	22.66	72.75	6.08	4.28
445	Kheda	Virpur_Pz	23.19	73.49	9.52	5.34
446	Kheda	Vyas vasna	23.11	73.10	23.48	-
447	Mahesana	Asjol	23.51	72.18	8.43	4.54
448	Mahesana	Bhandupara	23.73	72.38	9.20	8.27
449	Mahesana	Budasan	23.29	72.38	5.94	2.42
450	Mahesana	Daran_Pz-III	23.21	72.28	3.27	2.11
451	Mahesana	Dharpura	23.55	72.11	10.38	8.62
452	Mahesana	Dosaj	23.84	72.45	9.11	8.42
453	Mahesana	Jaska(Sy_4")Pz_II	23.82	72.54	14.07	13.36
454	Mahesana	Kalyanpur	23.13	72.19	6.13	5.28
455	Mahesana	Karalli (iii)	23.80	72.49	11.15	11.01
456	Mahesana	Kheralu(shallow	23.90	72.61	8.25	6.17
457	Mahesana	Kheralu1	23.89	72.61	14.67	10.18
458	Mahesana	Maguna	23.58	72.29	8.56	5.23
459	Mahesana	Mau	23.51	72.52	8.60	7.10
460	Mahesana	Modhera iii	23.72	72.47	11.15	9.65
461	Mahesana	Padhadya	23.52	72.53	10.52	10.36
462	Mahesana	Panchot	23.63	72.34	7.48	4.86
463	Mahesana	Rampura1	23.73	72.80	10.13	9.94
464	Mahesana	Sihi	23.89	72.52	13.60	11.19
465	Mahesana	Tarabh	23.80	72.35	7.49	6.05
466	Mahesana	Thol Pz-IV	23.76	72.46	19.48	18.24
467	Mahesana	Timba_1	23.85	72.72	16.70	10.10
468	Mahesana	Unad1	23.77	72.36	11.25	13.91
469	Mahesana	Unawa	23.80	72.39	4.97	3.77
470	Mahesana	Unjha	23.80	72.39	5.41	-
471	Mahesana	Vidaj	23.25	72.30	6.18	3.37
472	Mahesana	Visnagar iv	23.70	72.53	3.27	1.94
473	Narmada	Agar(Rep)_Pz	22.03	73.66	10.90	7.21
474	Narmada	Almadi	21.61	73.51	7.35	1.61
475	Narmada	Amayar	21.55	73.77	7.03	3.52
476	Narmada	Baman Phalia_Pz	21.80	73.38	18.72	15.52
477	Narmada	Chikada	21.52	73.65	5.24	3.05
478	Narmada	Chuli	21.55	73.48	12.23	6.12

479	Narmada	Dediapada	21.63	73.58	7.60	-
480	Narmada	Dev Mogra	21.59	73.72	-	5.04
481	Narmada	Garudeshwar	21.89	73.65	11.44	8.84
482	Narmada	Hirapura	21.87	73.60	5.94	3.57
483	Narmada	Jankh	21.49	73.60	3.40	1.09
484	Narmada	Kanbi pitha	21.52	73.65	3.39	1.82
485	Narmada	Kewadia_Pz	21.88	73.70	5.96	2.94
486	Narmada	Khaidipada	21.51	73.52	4.90	0.39
487	Narmada	Khota amba	21.73	73.48	1.75	1.24
488	Narmada	Namaria	22.04	73.62	5.87	4.50
489	Narmada	Nani singlot	21.67	73.67	9.70	6.88
490	Narmada	Ralda	21.61	73.65	3.92	2.46
491	Narmada	Rasela	21.93	73.49	13.16	12.90
492	Narmada	Ringani	21.84	73.47	2.03	1.87
493	Narmada	Selemba	21.61	73.76	8.86	7.35
494	Narmada	Sunderpura	21.85	73.54	31.22	-
495	Narmada	Sunderpura_Pz	21.84	73.54	30.04	-
496	Narmada	Umran	21.49	73.88	9.00	7.96
497	Navsari	Abrama	20.86	72.90	5.27	2.01
498	Navsari	Anklas	20.62	73.27	9.77	8.35
499	Navsari	Chadav	20.83	73.33	9.58	6.09
500	Navsari	Chinam	20.99	72.89	3.16	2.18
501	Navsari	Dandi	20.89	72.81	3.98	2.56
502	Navsari	Duvada	20.83	73.06	4.42	5.65
503	Navsari	Hond	20.74	73.05	8.82	5.22
504	Navsari	Kaliyari	20.73	73.15	11.41	3.54
505	Navsari	Kantasvel	20.80	73.29	8.20	5.08
506	Navsari	Khergam	20.63	73.10	8.45	3.74
507	Navsari	Limzar	20.74	73.26	5.10	-
508	Navsari	Manav Khadak	20.67	73.23	3.65	3.61
509	Navsari	Navsari	20.95	72.93	24.86	19.12
510	Navsari	Navsari 1	20.96	72.94	4.91	3.37
511	Navsari	Onjal	20.83	72.84	6.17	4.19
512	Navsari	Panikhadak	20.65	73.17	11.99	6.78
513	Navsari	Pipalkhed	20.68	73.28	15.84	6.53
514	Navsari	Rankuva	20.81	73.16	-	2.39
515	Navsari	Sari_khurd	20.79	72.95	3.98	2.63
516	Navsari	Ubhrat	21.01	72.75	-	2.76
517	Navsari	Unai	21.01	72.75	8.59	4.95
518	Navsari	Vansda	20.76	73.36	11.02	9.71
519	Panchmahals	Bavaliya	23.33	73.57	8.56	4.77
520	Panchmahals	Bavaliya_Pz	23.31	73.56	20.52	5.04
521	Panchmahals	Chhabanpur	22.83	73.61	8.95	8.58
522	Panchmahals	Dhanol	22.76	73.51	5.50	3.11

523	Panchmahals	Gadhar	23.15	73.78	11.57	4.44
524	Panchmahals	Godhra	22.78	73.61	4.09	2.32
525	Panchmahals	Godhra_UR1	22.79	73.61	5.63	3.87
526	Panchmahals	Godhra_UR2	22.77	73.59	9.45	8.65
527	Panchmahals	Godhra_UR3	22.78	73.61	9.42	2.16
528	Panchmahals	Godhra2	22.77	73.63	6.53	6.12
529	Panchmahals	Jambughoda	22.37	73.73	6.95	5.63
530	Panchmahals	Jambughoda1	22.37	73.72	3.55	-
531	Panchmahals	Javan	22.40	73.69	9.30	6.72
532	Panchmahals	Jokha	23.06	73.62	7.58	5.42
533	Panchmahals	Kalol_UR1	22.60	73.44	12.60	-
534	Panchmahals	Kalol_UR2	22.59	73.45	12.84	12.27
535	Panchmahals	Kantha	23.18	73.65	5.10	3.83
536	Panchmahals	Khadki_Vadiya	22.66	73.50	10.40	8.69
537	Panchmahals	Khanpur	23.37	73.68	10.20	9.55
538	Panchmahals	Kothamba	23.02	73.52	4.37	2.49
539	Panchmahals	Limbadia peti	23.20	73.60	5.50	2.48
540	Panchmahals	Lunawada	23.13	73.61	8.44	6.51
541	Panchmahals	Malekpur1	23.23	73.74	3.13	1.73
542	Panchmahals	Morwa (Hadaf) Pz-I	22.93	73.85	13.34	10.71
543	Panchmahals	Natapur	22.86	73.82	8.32	6.35
544	Panchmahals	Palla Rajgarh Pz	22.52	73.70	23.76	13.54
545	Panchmahals	Pandarvada	23.38	73.63	15.34	6.32
546	Panchmahals	Pavagadh	22.49	73.56	9.94	5.52
547	Panchmahals	Ranipura	22.73	73.76	8.40	4.85
548	Panchmahals	Santrampur	23.17	73.91	9.43	5.59
549	Panchmahals	Santrampur1	23.19	73.91	9.39	5.77
550	Panchmahals	Santroad	22.80	73.81	13.76	9.26
551	Panchmahals	Santroad1	22.80	73.79	11.00	-
552	Panchmahals	Shehra	22.95	73.63	3.67	1.45
553	Panchmahals	Shivrajpur	22.43	73.59	11.73	5.88
554	Panchmahals	Suliyat	23.06	73.85	18.15	16.48
555	Panchmahals	Tarkanda	22.55	73.53	11.96	4.08
556	Panchmahals	Tarvada	22.61	73.52	13.41	12.02
557	Panchmahals	Timbi2	22.51	73.51	6.61	2.96
558	Panchmahals	Tuwa	22.80	73.47	4.88	3.05
559	Panchmahals	Ucharpi Pz	23.12	73.47	15.87	9.46
560	Panchmahals	Vejalpur	22.70	73.56	5.89	3.97
561	Patan	Dharmoda	23.70	72.07	7.78	6.68
562	Patan	Dhinoj1	23.66	72.28	13.59	10.25
563	Patan	Moti chander	23.69	71.90	2.77	1.34
564	Patan	Nedra	23.59	71.78	-	32.01
565	Patan	Patan2	23.84	72.12	17.87	14.95
566	Patan	Piprala_1	23.65	71.09	9.80	8.95

567	Patan	Radhanpur2	23.83	71.61	2.05	0.75
568	Patan	Sander	23.77	72.25	17.54	14.47
569	Patan	Sankheshwar	23.52	71.79	2.90	1.38
570	Patan	Shankhari	23.78	72.16	17.63	17.50
571	Porbandar	Adityana	21.71	69.71	19.35	9.02
572	Porbandar	Adwana2	21.92	69.60	12.69	8.55
573	Porbandar	Babda	21.77	69.59	11.97	5.42
574	Porbandar	Bakharla	21.77	69.66	18.71	11.03
575	Porbandar	Balej_1	21.37	69.88	6.01	5.75
576	Porbandar	Bhod	21.66	69.82	20.77	12.76
577	Porbandar	Degam	21.71	69.61	17.38	12.39
578	Porbandar	Hanumangadh1	21.79	69.80	23.11	13.39
579	Porbandar	Kadegi	21.45	69.98	2.21	0.67
580	Porbandar	Kandorna	21.65	69.88	18.53	10.38
581	Porbandar	Khambodar	21.81	69.60	12.42	4.11
582	Porbandar	Kolikhada	21.70	69.61	27.81	14.93
583	Porbandar	Kuchhadi	21.68	69.55	3.39	2.24
584	Porbandar	Kutiyana_Pz	21.62	70.00	13.51	4.79
585	Porbandar	Kutiyana1	21.63	70.02	13.17	5.05
586	Porbandar	Miyani	21.83	69.39	7.61	7.03
587	Porbandar	Mocha	21.35	69.89	6.35	5.94
588	Porbandar	Mojiwana	21.89	69.60	13.77	6.48
589	Porbandar	Navibandar	21.45	69.79	4.42	4.30
590	Porbandar	Oddar	21.57	69.68	6.34	5.76
591	Porbandar	Palkhada1	21.76	69.49	12.42	6.86
592	Porbandar	Pata	21.30	69.94	5.55	4.14
593	Porbandar	Porbandar	21.65	69.64	5.16	2.19
594	Porbandar	Porbandar1	21.64	69.63	4.46	3.52
595	Porbandar	Ranavav2	21.68	69.75	10.00	4.05
596	Porbandar	Ratadi	21.72	69.51	7.06	4.86
597	Porbandar	Ratia	21.95	69.69	7.15	5.72
598	Porbandar	Simar	21.52	69.73	16.90	-
599	Porbandar	Tukda	21.79	69.45	3.78	2.27
600	Porbandar	Visavada Mul Dwarka	21.79	69.45	7.95	7.22
601	Rajkot	Amar nagar	22.93	70.81	3.59	3.04
602	Rajkot	Bhada jodiya	21.66	70.34	15.82	6.30
603	Rajkot	Bhadla	22.18	71.09	-	11.98
604	Rajkot	Bhalgam	22.44	71.08	14.52	7.20
605	Rajkot	Chhatar	22.50	70.75	5.90	3.42
606	Rajkot	Chordi	21.92	70.75	9.72	7.13
607	Rajkot	Dadia	22.09	70.73	11.76	7.56
608	Rajkot	Dhoraji	21.75	70.29	14.37	9.85
609	Rajkot	Ganod	21.68	70.18	4.48	3.22
610	Rajkot	Gogavadar	21.97	70.88	10.85	5.39

611	Rajkot	Hadmadiya	21.98	70.62	-	5.37
612	Rajkot	Hadmatia	22.68	70.81	7.18	4.94
613	Rajkot	Halenda	22.09	71.05	8.27	2.23
614	Rajkot	Jamwali	21.93	70.77	-	3.50
615	Rajkot	Jasapur	21.89	70.48	11.61	8.34
616	Rajkot	Jasdan	22.04	71.21	8.56	5.28
617	Rajkot	Jasdan2	22.06	71.22	10.81	6.54
618	Rajkot	Jetpur	21.76	70.62	-	5.57
619	Rajkot	Jetpur Pithad	23.02	70.92	14.62	5.90
620	Rajkot	Jetpur pithad.	21.78	70.63	16.01	8.05
621	Rajkot	Kalithad1	22.02	70.66	5.63	5.95
622	Rajkot	Kalyanpur2	22.66	70.73	6.01	3.16
623	Rajkot	Kamlapur	22.15	71.20	15.58	9.58
624	Rajkot	Kamlapur1	22.15	71.20	-	9.25
625	Rajkot	Khamta	22.48	70.55	-	5.39
626	Rajkot	Khirsara1	22.24	70.65	-	7.39
627	Rajkot	Lalavadar	22.13	71.30	12.57	5.96
628	Rajkot	Lodhika1	22.14	70.64	8.95	4.87
629	Rajkot	Macchukunda	23.00	70.90	5.46	3.34
630	Rajkot	Malia	23.10	70.77	2.52	2.19
631	Rajkot	Modpar1	22.90	70.67	3.21	2.42
632	Rajkot	Morvi	22.82	70.84	2.87	1.89
633	Rajkot	Mota Dadwa	22.00	70.99	10.73	5.18
634	Rajkot	Mota dhansura	22.96	70.62	7.88	5.04
635	Rajkot	Motagundala	21.74	70.50	8.46	4.85
636	Rajkot	Movaiya	22.45	70.61	10.03	7.54
637	Rajkot	Neknam	22.50	70.70	-	8.52
638	Rajkot	Nichi mandal	22.86	70.95	7.07	4.20
639	Rajkot	Padadhari1	22.45	70.61	7.00	5.11
640	Rajkot	Patanvav	21.64	70.26	15.70	6.80
641	Rajkot	Pedhla	21.75	70.59	20.47	12.74
642	Rajkot	Rajkot	22.31	70.81	5.91	3.51
643	Rajkot	Rajkot1	22.30	70.80	9.78	5.20
644	Rajkot	Ranpur1	22.37	70.93	14.75	10.37
645	Rajkot	Ribda	22.13	70.77	12.26	6.21
646	Rajkot	Sardhar1	22.14	70.98	4.92	3.08
647	Rajkot	Sarvad	23.01	70.71	2.57	1.29
648	Rajkot	Sindhavadar	22.55	70.89	10.46	9.11
649	Rajkot	Targhari	22.38	70.67	7.97	5.15
650	Rajkot	Umrali	21.92	70.60	-	4.70
651	Rajkot	Upleta3	21.67	70.18	7.42	9.10
652	Rajkot	Vinchhia	22.21	71.38	4.30	2.84
653	Rajkot	Viranagar	22.03	71.13	8.18	6.98
654	Rajkot	Virpur1	21.85	70.70	9.69	4.82

655	Rajkot	Wankaner-1	22.62	70.93	6.37	4.75
656	Sabarkantha	Abhapur	23.96	73.26	-	6.89
657	Sabarkantha	Alwakampa	23.28	73.21	13.46	8.63
658	Sabarkantha	Anwarpura Pz	23.41	72.85	38.09	37.27
659	Sabarkantha	Atarsumba	23.99	73.21	10.67	7.65
660	Sabarkantha	Atarsumba_2	23.99	73.21	-	3.15
661	Sabarkantha	Bayad_Pz	23.22	73.23	10.01	8.58
662	Sabarkantha	Bhadreshwar	23.75	72.98	25.95	22.39
663	Sabarkantha	Bhiloda_Pz	23.77	73.25	6.51	3.24
664	Sabarkantha	Bhiloda2	23.77	73.27	9.35	4.96
665	Sabarkantha	Boral	23.13	73.21	18.74	11.95
666	Sabarkantha	Boriya	23.24	72.94	7.21	5.71
667	Sabarkantha	Chandap_DW	23.92	72.85	15.30	16.02
668	Sabarkantha	Chandap_Pz	23.93	72.86	12.87	-
669	Sabarkantha	Choriwad	23.90	73.12	26.97	21.78
670	Sabarkantha	Derol Pz-II	23.60	72.90	43.05	38.61
671	Sabarkantha	Dhansura1	23.35	73.20	9.45	6.60
672	Sabarkantha	Gadada	23.58	73.25	17.65	6.69
673	Sabarkantha	Gadha	23.71	72.94	19.58	17.40
674	Sabarkantha	Hamirpur	23.41	73.46	16.23	11.14
675	Sabarkantha	Harsol1	23.38	73.02	14.31	8.74
676	Sabarkantha	Himmatnagar_Pz	23.61	72.97	9.39	7.33
677	Sabarkantha	Idar	23.84	73.04	8.41	4.59
678	Sabarkantha	Jhaloti	23.95	73.34	10.23	5.51
679	Sabarkantha	Karanpur	23.33	73.30	12.14	11.51
680	Sabarkantha	Kesharpura	23.92	73.15	23.15	13.31
681	Sabarkantha	Kesharpura_Mayal	23.32	72.95	-	2.73
682	Sabarkantha	Khedbrahma_Pz	24.04	73.04	5.66	2.43
683	Sabarkantha	Khedbramha_1	24.03	73.05	18.10	8.70
684	Sabarkantha	Kherwada	24.03	73.05	14.50	3.77
685	Sabarkantha	Malpur_1	24.03	73.05	15.60	-
686	Sabarkantha	Malpur_Pz	23.34	73.47	16.19	8.29
687	Sabarkantha	Mathasuliya	24.03	73.05	13.23	5.90
688	Sabarkantha	Matoda	24.11	73.01	14.95	9.56
689	Sabarkantha	Medasana	23.51	73.27	9.15	5.40
690	Sabarkantha	Meghraj_1	23.50	73.51	8.35	3.15
691	Sabarkantha	Modasa	23.46	73.31	7.69	6.30
692	Sabarkantha	Panvath/porvad	23.90	73.33	9.96	6.26
693	Sabarkantha	Poshina2	24.38	73.03	7.41	3.87
694	Sabarkantha	Punasan	23.67	73.17	7.20	5.43
695	Sabarkantha	Ramgarh	23.61	72.92	11.29	8.73
696	Sabarkantha	Ratanpur	24.21	73.00	13.49	10.70
697	Sabarkantha	Revas	23.82	73.12	23.18	15.04
698	Sabarkantha	Sabalwad	23.18	73.34	13.87	12.18

699	Sabarkantha	Sathamba	23.49	73.40	14.51	6.53
700	Sabarkantha	Seenawad	23.69	73.37	10.54	3.68
701	Sabarkantha	Shamlaji	24.01	73.12	13.73	10.03
702	Sabarkantha	Silwad	24.01	73.12	13.35	9.31
703	Sabarkantha	Takatuka_1	23.85	73.31	28.70	14.47
704	Sabarkantha	Umadpura	23.30	72.96	14.60	10.34
705	Sabarkantha	Varvada	23.44	73.06	13.95	11.27
706	Sabarkantha	Vejpur_Pz	22.54	73.15	18.69	4.88
707	Sabarkantha	Vijaynagar	24.01	73.33	8.55	2.63
708	Sabarkantha	Vijaynagar_Pz	24.01	73.33	13.56	6.36
709	Sabarkantha	Virpur (Idar)	23.78	72.93	13.71	-
710	Sabarkantha	Virpur_1(Himmat)	23.65	72.95	10.81	12.55
711	Sabarkantha	Wadali	23.93	73.03	28.58	18.58
712	Sabarkantha	Waliampura Pz	23.35	72.97	36.55	35.99
713	Surat	Aarda Boratha	21.49	74.12	-	4.85
714	Surat	Allu	21.06	73.19	3.54	3.12
715	Surat	Bardoli	21.12	73.10	6.41	4.39
716	Surat	Bedchit	20.95	73.35	-	5.92
717	Surat	Bhatkol	21.38	73.00	4.27	3.22
718	Surat	Bhurvel (ukai)	21.23	73.58	4.41	2.73
719	Surat	Chapawadi	21.15	73.39	5.93	3.91
720	Surat	Chavada	21.48	73.60	3.49	1.94
721	Surat	Digas	21.25	73.03	10.61	5.22
722	Surat	Dungri	21.41	73.13	11.21	3.71
723	Surat	Gandhinagar	21.16	73.70	5.43	2.82
724	Surat	Gangadhra	21.12	73.08	9.02	8.55
725	Surat	Gangtha	21.53	74.00	-	10.63
726	Surat	Jesingpura[sg]	21.17	73.55	7.73	6.52
727	Surat	Jhankhavav	21.45	73.33	7.40	4.71
728	Surat	Jhankhvav	21.47	72.95	9.05	4.74
729	Surat	Juna umarpada	21.46	73.49	-	2.38
730	Surat	Kadod 1	21.22	73.22	5.39	7.50
731	Surat	Karanjvel	21.01	73.46	8.67	5.60
732	Surat	Kasal	21.32	73.13	6.33	4.23
733	Surat	Kathor	21.29	72.93	12.56	8.62
734	Surat	Kelkui	21.04	73.32	2.56	2.40
735	Surat	Khedwada (Ashram Falia)	21.28	73.47	7.18	6.07
736	Surat	Kherwa	21.42	73.96	5.75	1.59
737	Surat	Kosamba	21.47	72.95	19.49	17.55
738	Surat	Madhi 1	21.13	73.25	8.38	5.15
739	Surat	Mahuva2	21.02	73.15	17.74	16.23
740	Surat	Malda	21.37	73.35	8.17	3.57
741	Surat	Mandvi2	21.25	73.30	13.58	11.18

742	Surat	Mota	21.17	73.07	2.96	2.93
743	Surat	Moti Sarkui	21.28	73.35	8.80	5.01
744	Surat	Motichher	21.21	73.36	4.89	3.81
745	Surat	Navi pardi	21.32	72.97	3.05	3.22
746	Surat	Nizar	21.48	74.20	14.62	11.43
747	Surat	Nizar1	21.48	74.19	10.37	8.03
748	Surat	Nogama	21.29	73.21	2.74	2.12
749	Surat	Olpad2	21.34	72.76	1.93	2.08
750	Surat	Palsana	21.08	72.99	2.54	1.56
751	Surat	Paneshwar	21.45	73.20	14.41	9.29
752	Surat	Puna	20.92	73.23	12.26	8.57
753	Surat	Puna1	20.93	73.23	9.60	6.40
754	Surat	Sachin town	21.09	72.88	4.20	2.47
755	Surat	Sarbhon	21.06	73.09	3.63	2.79
756	Surat	Sayan	21.31	72.91	-	4.66
757	Surat	Sultanabad	21.09	72.73	5.81	4.58
758	Surat	Surat_DW	21.18	72.79	-	2.60
759	Surat	Tadkeshwar	21.38	73.08	8.80	6.94
760	Surat	Tawali	21.38	73.90	7.62	5.11
761	Surat	Ten-bardoli	21.12	73.10	6.47	3.69
762	Surat	Tokarwa 1	21.31	73.85	8.10	5.24
763	Surat	Uchchhal	21.17	73.77	11.37	7.71
764	Surat	Ushker	21.34	73.10	5.32	4.90
765	Surat	Vadade-Khurd	21.25	73.82	3.00	1.03
766	Surat	Vaheval	20.84	73.29	11.88	6.01
767	Surat	Valod	21.05	73.27	5.01	3.00
768	Surat	Vyara1	21.11	73.40	4.19	3.97
769	Surat	Wadoli	21.43	72.83	1.95	1.23
770	Surendranagar	Adriyana	23.43	71.71	-	2.94
771	Surendranagar	Anindra	22.81	71.71	7.21	2.31
772	Surendranagar	Bajana	23.12	71.78	2.45	2.25
773	Surendranagar	Bamanbor	22.42	71.04	-	6.34
774	Surendranagar	Chotila1	22.43	71.18	8.84	4.50
775	Surendranagar	Dasada	23.32	71.82	4.68	3.68
776	Surendranagar	Dasada1	23.32	71.83	2.51	-
777	Surendranagar	Dedadra	22.78	71.73	3.65	2.63
778	Surendranagar	Degam	23.11	71.66	-	1.84
779	Surendranagar	Dhama	23.39	71.68	7.26	6.16
780	Surendranagar	Dhandhalpur 1	22.38	71.35	6.23	3.66
781	Surendranagar	Dheduki 1	22.50	71.32	-	9.75
782	Surendranagar	Dhrangadhra 2	22.99	71.50	-	8.20
783	Surendranagar	Gamda	22.90	71.56	11.74	3.01
784	Surendranagar	Ghansyam Gadh	23.11	71.48	4.05	-
785	Surendranagar	Halvad2	23.02	71.19	18.08	13.99

786	Surendranagar	Jhinjhuwada	23.35	71.66	6.69	5.39
787	Surendranagar	Juna Devaliya 1	22.98	71.01	3.34	1.30
788	Surendranagar	Kharaghoda	23.19	71.75	1.71	1.33
789	Surendranagar	Kherwa	23.00	71.75	4.88	1.22
790	Surendranagar	Kukavati	23.12	71.48	3.55	3.32
791	Surendranagar	Lakhtar	22.86	71.78	6.13	2.83
792	Surendranagar	Latuda	22.81	71.61	4.94	4.16
793	Surendranagar	Limbdi1	22.57	71.81	2.81	1.68
794	Surendranagar	Limbdi-Pz	22.57	71.81	2.54	1.74
795	Surendranagar	Mathak2	22.84	71.06	-	13.79
796	Surendranagar	Miani	23.11	71.13	-	1.51
797	Surendranagar	Modhvana	22.88	71.74	7.88	2.68
798	Surendranagar	Moti Moladi	22.42	71.11	10.17	7.11
799	Surendranagar	Muli	22.65	71.47	8.38	7.37
800	Surendranagar	Nava Raisngpur	22.74	71.26	12.60	10.46
801	Surendranagar	Olak	22.92	71.86	4.08	3.62
802	Surendranagar	Pipli	23.06	71.73	0.72	0.04
803	Surendranagar	Rajsitapur	22.84	71.59	7.28	3.48
804	Surendranagar	Ranipet	22.71	71.22	-	9.20
805	Surendranagar	Ratanpur1	22.86	71.27	7.55	5.18
806	Surendranagar	Sara	22.80	71.20	3.22	2.36
807	Surendranagar	Sarla	22.73	71.37	16.17	8.69
808	Surendranagar	Sayala	22.53	71.48	9.83	5.39
809	Surendranagar	Shiyani	22.67	71.83	4.45	3.43
810	Surendranagar	Sudamda	22.45	71.49	3.70	2.27
811	Surendranagar	Sukhpar1	23.01	71.28	9.81	5.37
812	Surendranagar	Surel	23.48	71.62	-	3.85
813	Surendranagar	Surendranagar	22.72	71.67	3.51	1.84
814	Surendranagar	Surendranagar2	22.72	71.61	5.05	5.77
815	Surendranagar	Tarnetar	22.64	71.22	17.47	15.54
816	Surendranagar	Tavi 1	22.72	71.85	2.83	-
817	Surendranagar	Than	22.58	71.20	18.58	18.12
818	Surendranagar	Vanala	22.43	71.92	4.38	3.11
819	Surendranagar	Visawadi	23.34	71.73	7.56	3.30
820	Surendranagar	Vitthalgarh	22.99	71.98	9.01	7.30
821	Surendranagar	Warod	22.56	71.65	-	4.88
822	The dangs	Aherdi	20.69	73.62	-	1.72
823	The dangs	Ahwa_Pz	20.76	73.69	3.74	2.58
824	The dangs	Ahwa1	20.76	73.68	4.52	1.41
825	The dangs	Bari Pada	20.64	73.69	10.10	0.97
826	The dangs	Bori Gaotha 1	20.81	73.50	9.22	5.31
827	The dangs	Chikhli	20.66	73.69	9.13	1.24
828	The dangs	Chinchnogaotha	20.81	73.55	7.49	2.48
829	The dangs	Chinchpada	20.64	73.78	5.66	1.36

830	The dangs	Dhumkal	20.65	73.79	4.47	1.30
831	The dangs	Gadad	20.64	73.78	4.84	2.12
832	The dangs	Ghubita	20.80	73.74	2.98	0.87
833	The dangs	Jakana	20.63	73.75	2.51	1.01
834	The dangs	Jamalpada	20.73	73.52	6.88	5.05
835	The dangs	Kalibel	20.92	73.58	3.04	1.08
836	The dangs	Mahal	20.92	73.68	5.38	3.18
837	The dangs	Malegaon	20.60	73.75	2.14	0.63
838	The dangs	Nadak khadi	20.80	73.61	5.86	2.20
839	The dangs	Nana pada	20.70	73.58	8.75	2.76
840	The dangs	Sakarpatal	20.72	73.56	5.63	1.96
841	The dangs	Sodmal	20.87	73.62	11.14	2.75
842	The dangs	Subir	20.92	73.58	6.53	1.48
843	The dangs	Umberpada	20.68	73.73	6.12	1.86
844	The dangs	Vaghai	20.76	73.50	12.29	8.93
845	The dangs	Vazat Amba	20.88	73.52	6.34	3.81
846	Vadodara	Alladpur	22.25	73.72	7.94	7.18
847	Vadodara	Amreshwar	22.23	73.48	6.31	4.03
848	Vadodara	Asala	22.38	73.93	10.32	6.08
849	Vadodara	Asar	22.20	74.01	17.20	-
850	Vadodara	Baladgam	22.14	74.01	13.00	9.28
851	Vadodara	Bhindol	22.20	73.90	8.35	1.06
852	Vadodara	Bodeli	22.27	73.72	1.83	-
853	Vadodara	Chavaria	22.19	73.99	12.30	10.95
854	Vadodara	Chella Karamsiya Pz	22.40	73.43	4.01	2.36
855	Vadodara	Chhaliyar	22.67	73.32	20.46	20.45
856	Vadodara	Chhota udepur	22.31	74.02	6.82	3.71
857	Vadodara	Chisadia	22.40	74.13	11.88	11.07
858	Vadodara	Chitral PZ_II	23.23	69.70	24.70	24.91
859	Vadodara	Devat (thadgam)	22.10	73.98	9.40	6.63
860	Vadodara	Ferkuva	22.37	74.21	7.58	4.51
861	Vadodara	Ghamodi	22.37	74.08	8.30	5.15
862	Vadodara	Ghayaj ii	22.23	73.05	29.06	27.09
863	Vadodara	Govindpura	22.21	73.74	5.68	3.40
864	Vadodara	Jojh	22.44	73.96	12.35	8.11
865	Vadodara	Juna samalya	22.50	73.28	12.10	10.75
866	Vadodara	Kaprali	21.98	73.94	7.16	2.62
867	Vadodara	Karamasiya	22.42	73.42	11.00	8.40
868	Vadodara	Kevadi	22.52	73.94	6.82	4.36
869	Vadodara	Kosindra Pz-I	22.15	73.76	2.71	2.75
870	Vadodara	Makni	22.23	73.68	9.53	8.53
871	Vadodara	Masor	22.14	72.91	12.85	11.04
872	Vadodara	Moti chikhali	22.01	74.08	3.44	2.97
873	Vadodara	Panwad	22.20	74.04	13.64	4.62

874	Vadodara	Patiyapura	22.28	73.44	8.18	5.25
875	Vadodara	Pavi	22.34	73.83	4.50	3.46
876	Vadodara	Pitha	22.25	73.64	8.34	5.41
877	Vadodara	Rasulpur	22.60	73.23	5.52	-
878	Vadodara	Saidal	22.28	73.50	3.31	1.97
879	Vadodara	Saidivasana	22.06	74.02	5.71	2.95
880	Vadodara	Sankarda1	23.06	72.48	34.06	27.80
881	Vadodara	Sankheda	22.54	73.18	21.89	18.52
882	Vadodara	Sengpur	22.04	73.89	9.74	5.53
883	Vadodara	Sinor	21.91	73.34	23.66	21.72
884	Vadodara	Suskal	22.29	73.78	6.39	-
885	Vadodara	Tokri	22.15	74.03	10.77	-
886	Vadodara	Tundav	22.48	73.20	14.66	9.62
887	Vadodara	Vadodara Ii	23.70	72.37	6.78	4.91
888	Vadodara	Vadodara_Kevada Bag	22.29	73.20	9.58	8.21
889	Vadodara	Vadodara_ONGC	22.27	73.21	9.05	6.26
890	Vadodara	Vadtalav Pz	22.26	73.78	11.94	9.67
891	Vadodara	Vagudan	22.07	74.14	6.88	5.95
892	Vadodara	Vega	22.16	73.41	6.05	3.60
893	Vadodara	Vejpur2	22.75	73.36	2.72	1.88
894	Vadodara	Waghach	22.07	73.85	8.44	5.42
895	Vadodara	Waghodia Pz	22.36	73.38	6.12	-
896	Valsad	Awadha	20.52	73.29	6.24	4.14
897	Valsad	Chavshala	20.33	73.33	3.10	0.98
898	Valsad	Dahli (bhilad)	20.26	72.88	4.56	2.73
899	Valsad	Dharampur 3	20.54	73.17	13.89	9.39
900	Valsad	Dharampur1	20.53	73.16	10.39	5.49
901	Valsad	Dungri	20.69	72.95	-	5.72
902	Valsad	Fali	20.31	73.38	11.52	1.06
903	Valsad	Kanadu	20.33	72.84	5.77	3.79
904	Valsad	Kaparda	20.34	73.22	6.58	2.64
905	Valsad	Karwad	20.36	72.98	4.50	3.60
906	Valsad	Muli1	20.63	73.03	8.10	2.26
907	Valsad	Nanaponda	20.41	73.12	3.26	5.78
908	Valsad	Tithal	20.60	72.90	10.15	6.22
909	Valsad	Tumb	20.22	72.84	7.87	3.38
910	Valsad	Udwada	20.46	72.92	5.39	2.42
911	Valsad	Umargaon	20.19	72.75	6.94	3.92
912	Valsad	Valsad1	20.61	72.93	3.97	10.14
913	Valsad	Vapi Balitha	20.38	72.90	10.15	4.93

Annexure IV

CHEMICAL DATA OF NATIONAL HYDROGRAPH NETWORK STATIONS OF GUJARAT AND UT OF DAMAN & DIU May 2015

SN	Well I D	District	Taluka	Location	Type	pH	EC	TDS	CO3	HCO3	Cl	NO3	SO4	F	Alk	Ca	Mg	TH	Na	K	SAR	Arsenic
							uS/cm	mg/L														ug/L
1	W220900071533001	Ahmedabad	BARWALA	Barvala	Dug Well	7.84	**5440**	3645	0	1281	815	32	407	**4.50**	1050	80	144	800	863	2.0	13.27	6
2	W230200072264501	Ahmedabad	DASKROI	Ghuma	Dug Well	8.18	**3796**	2543	0	598	815	21	270	0.61	490	140	120	850	318	320.0	4.74	1
3	W222230071591001	Ahmedabad	DHANDHUKA	Dhandhuka1	Dug Well	8.28	385	258	0	171	14	2	36	0.35	140	36	19	170	14	1.9	0.47	2
4	W222130072100001	Ahmedabad	DHANDHUKA	Gamph	Dug Well	7.99	**4185**	2804	0	500	**1028**	15	84	0.96	410	80	144	800	543	47.0	8.35	6
5	W221745071565001	Ahmedabad	DHANDHUKA	Tagadi1	Dug Well	8.21	1207	809	0	390	135	3	107	**1.92**	320	52	26	240	180	7.8	5.05	1
6	W232200071580001	Ahmedabad	MANDAL	Dalod	Dug Well	8.03	**15440**	10345	0	342	**4402**	**50**	992	**2.80**	280	240	134	1650	2760	43.0	29.54	7
7	W231630071550001	Ahmedabad	MANDAL	Mandal2	Dug Well	8.22	**3494**	2341	0	268	951	3	173	0.45	220	80	107	640	516	5.5	8.87	5
8	W221610071420001	Ahmedabad	RANPUR	Kundali	Dug Well	8.19	1027	688	0	378	120	42	33	0.61	310	40	58	340	97	0.4	2.29	2
9	W221830071413001	Ahmedabad	RANPUR	Rajpada	Dug Well	8.10	1063	712	0	342	120	31	56	0.82	280	68	43	350	86	1.6	2.00	3
10	W231620072033001	Ahmedabad	VIRAMGAM	Endla	Dug Well	8.52	616	413	18	159	149	0	1	0.80	160	28	32	200	81	10.7	2.49	5
11	W230830072020001	Ahmedabad	VIRAMGAM	Viramgam2	Dug Well	8.69	**4928**	3302	48	281	**1250**	6	351	1.32	310	332	63	340	980	10.7	23.11	6
12	W213630071133001	Amreli	AMRELI	Amreli	Dug Well	8.00	1424	954	0	549	170	22	116	0.35	450	564	41	580	116	3.3	2.09	2
13	W213845071063001	Amreli	AMRELI	Ankadia mota	Dug Well	7.95	1334	894	0	378	170	**115**	60	0.48	310	68	48	370	156	3.2	3.53	1
14	W213230071093001	Amreli	AMRELI	Govadka	Dug Well	8.01	2548	1707	0	305	532	**105**	263	0.31	250	120	168	1000	170	2.8	2.34	2
15	W215500071130001	Amreli	BABRA	Untvad	Dug Well	8.01	855	573	0	317	78	45	42	0.30	260	92	29	350	47	3.0	1.09	4
16	W212845070574501	Amreli	BAGASARA	Bagasara	Dug Well	7.75	1900	1273	0	390	227	**225**	255	0.50	320	120	14	360	337	0.4	7.72	1
17	W213500070580001	Amreli	BAGASARA	Vaghania juna	Dug Well	8.22	935	626	0	354	128	41	8	0.45	290	56	24	240	127	9.4	3.56	5
18	W212500071100001	Amreli	DHARI	Chalala	Dug Well	8.23	620	415	0	183	78	20	70	0.36	150	48	22	210	65	1.6	1.95	2
19	W212000071120001	Amreli	DHARI	Dharangani	Dug Well	8.20	294	197	0	110	28	6	15	0.00	90	24	14	120	14	2.3	0.56	2
20	W212015071023001	Amreli	DHARI	Dhari	Dug Well	7.73	1708	1144	0	354	241	**125**	109	0.20	290	84	84	560	133	0.6	2.44	3
21	W212350071130001	Amreli	DHARI	Kerala	Dug Well	8.17	1642	1100	0	525	241	32	35	0.23	430	28	29	190	298	0.7	9.40	5
22	W212234071070701	Amreli	DHARI	Morjhar	Dug Well	8.03	560	375	0	220	57	9	17	0.23	180	48	17	190	45	1.2	1.42	4
23	W211515071090001	Amreli	DHARI	Virpur	Dug Well	7.93	1100	737	0	451	78	**114**	14	0.24	370	92	50	440	68	1.1	1.41	4
24	W205205071214501	Amreli	JAFRABAD	Bherai	Dug Well	8.24	898	602	0	281	149	12	3	0.44	230	20	10	90	161	11.4	7.38	6
25	W205200071214501	Amreli	JAFRABAD	Jafrabad	Dug Well	8.10	1746	1170	0	232	383	22	21	0.36	190	48	43	300	220	54.0	5.52	**20**
26	W205530071211501	Amreli	JAFRABAD	Nageshri	Dug Well	8.05	640	429	0	268	57	15	55	0.25	220	52	31	210	74	12.8	2.22	4
27	W205345071121501	Amreli	JAFRABAD	Timbi2	Dug Well	7.91	665	446	0	183	106	37	54	0.40	150	36	22	180	96	8.7	3.11	3
28	W210630071153001	Amreli	KHAMBHA	Bhavardi1	Dug Well	8.24	899	602	0	329	71	**90**	32	0.50	270	76	38	350	59	1.6	1.37	3
29	W211400071120001	Amreli	KHAMBHA	Ingorala	Dug Well	7.95	956	641	0	354	57	**76**	93	0.42	290	48	67	400	60	0.4	1.30	3
30	W210900071142001	Amreli	KHAMBHA	Khamba	Dug Well	8.28	925	620	0	310	50	39	182	0.30	254	52	24	280	123	3.9	3.20	3
31	W210100071165001	Amreli	KHAMBHA	Trakuda	Dug Well	8.17	190	127	0	73	21	11	27	0.02	60	28	10	110	8	1.2	0.33	3

32	W211400071150001	Amreli	KHAMBHA	Vankiya1	Dug Well	8.17	890	596	0	403	57	**57**	20	0.33	330	68	41	340	64	0.6	1.51	8
33	W211557071202001	Amreli	KUNDLA-SAVAR	Badhda	Dug Well	7.96	2250	1508	0	329	248	**230**	370	0.35	270	200	120	1000	90	1.3	1.24	3
34	W212558071215001	Amreli	KUNDLA-SAVAR	Bhuva	Dug Well	8.22	**9175**	6147	0	671	**2304**	**210**	361	0.80	550	120	324	1650	1260	88.0	13.49	2
35	W212330071174501	Amreli	KUNDLA-SAVAR	Charkhadia1	Dug Well	8.24	1322	886	0	549	106	**66**	21	0.65	450	24	17	130	252	4.1	9.61	4
36	W211330071244001	Amreli	KUNDLA-SAVAR	Goradka	Dug Well	7.73	1595	1069	0	268	163	**220**	139	0.20	220	124	77	630	67	0.4	1.16	3
37	W212300071280001	Amreli	KUNDLA-SAVAR	Piyava	Dug Well	8.28	1200	804	0	573	99	33	13	0.25	470	32	29	200	208	0.9	6.39	3
38	W213945070590001	Amreli	KUNKAVAV-VADIA	Kunkavav	Dug Well	8.05	1116	748	0	329	184	**60**	106	0.34	270	64	50	370	148	1.9	3.35	2
39	W214900071244501	Amreli	LATHI	Chavand	Dug Well	8.18	503	337	0	305	28	5	17	0.48	250	32	29	200	52	0.3	1.60	3
40	W214315071230001	Amreli	LATHI	Lathi	Dug Well	8.42	830	556	72	183	80	22	100	0.60	270	52	14	190	146	2.3	4.61	4
41	W213730071234501	Amreli	LATHI	Luvariya	Dug Well	8.43	644	431	72	207	43	11	24	1.50	290	16	2	50	156	0.2	9.59	8
42	W214330071280001	Amreli	LATHI	Tajpur	Dug Well	7.94	335	224	0	146	28	7	25	0.73	120	28	19	150	20	4.4	0.71	4
43	W213130071213001	Amreli	LILIA	Punjapadar	Dug Well	8.03	560	375	0	293	35	9	9	0.36	240	24	7	90	100	8.4	4.58	2
44	W210045071323001	Amreli	RAJULA	Victor	Dug Well	8.25	1530	1025	0	537	234	10	2	**2.50**	440	12	29	150	295	18.1	10.47	4
45	W205829071244601	Amreli	Jafrabad	Hinderana(Charnara)	Dug Well	8.28	1193	799	0	268	220	14	35	0.73	220	20	14	110	218	3.9	9.04	3
46	W212610071322501	Amreli	Savar Kundla	Fifad	Dug Well	8.17	2749	1842	0	402	532	**185**	112	0.45	330	100	156	900	210	13.0	3.04	3
47	W212244071365301	Amreli	Savar Kundla	Hipavadli	Dug Well	8.46	2071	1388	22	647	57	**80**	320	1.10	567	20	26	160	409	0.8	14.06	3
48	W205430071213701	Amreli	Jafrabad	Kadiyali	Dug Well	8.42	817	547	72	110	85	11	131	0.80	210	32	31	190	133	6.7	4.20	5
49	W212323071302701	Amreli	Savar Kundla	Vanda	Dug Well	8.53	2757	1847	120	1098	461	20	59	1.00	1100	60	97	550	593	1.4	10.99	5
50	W223430072582001	Anand	ANAND	Anand	Dug Well	7.76	1621	1086	0	549	177	44	28	0.22	450	84	74	520	114	2.8	2.17	3
51	W224249073073601	Anand	UMRETH	Parvata	Dug Well	8.05	1333	893	0	525	113	30	27	0.66	430	52	46	320	150	1.0	3.65	2
52	W222300073003001	Anand	ANKLAV	Anklav2	Dug Well	7.97	1191	798	0	500	99	44	11	0.10	410	32	62	340	119	1.8	2.81	1
53	W222120072535001	Anand	BORSAD	Bhadran	Dug Well	7.50	977	655	0	354	92	2	31	0.00	290	72	55	410	21	3.0	0.45	9
54	W221845072574501	Anand	BORSAD	Navapura	Dug Well	8.04	1510	1012	0	732	121	29	9	0.30	600	72	72	480	150	5.9	2.98	5
55	W222045072500001	Anand	BORSAD	Ras	Dug Well	8.21	2085	1397	0	842	227	26	2	1.00	690	48	10	160	400	7.3	13.75	**12**
56	W221630072460001	Anand	CAMBAY	Dali	DCB	8.12	**4227**	2832	0	1061	674	24	207	0.90	870	96	79	570	690	16.3	12.57	10
57	W222030072390001	Anand	CAMBAY	Kansari1	Dug Well	7.80	**4295**	2878	0	805	922	**46**	85	0.57	660	260	36	800	600	8.8	9.22	8
58	W222500072363001	Anand	CAMBAY	Laxmipura	Dug Well	8.17	**4319**	2894	0	866	815	9	222	0.90	710	120	60	550	720	3.2	13.35	3
59	W223230072490001	Anand	PETLAD	Bandhani	Dug Well	7.88	754	505	0	256	92	16	12	0.50	210	68	12	220	68	11.6	1.99	4
60	W224130073031501	Anand	UMRETH	Ghora	Dug Well	7.75	1948	1305	0	549	248	**80**	25	0.02	450	172	31	560	154	2.1	2.83	8
61	W222843073014901	Anand	ANAND	Adas_DW	Dug Well	7.54	1270	851	0	525	92	**90**	13	0.30	430	44	91	490	73	1.0	1.43	1
62	W223756073001501	Anand	Anand	Boriyavi	Dug Well	8.00	1377	923	0	561	156	8	5	0.00	460	88	43	400	120	28.0	2.61	9
63	W222515072474001	Anand	PETLAD	Dharmaj	Dug Well	8.29	1844	1235	0	708	184	**65**	49	0.48	580	40	31	230	330	2.1	9.46	4
64	W223039072340001	Anand	Tarapur	Tol	Dug Well	8.28	637	427	0	232	64	6	49	0.40	190	48	22	210	59	5.1	1.77	6

65	W242420072383001	Banaskantha	AMIRGADH	Amirgadh	Dug Well	7.56	**3704**	2482	0	476	852	**115**	132	0.75	390	96	185	1000	386	3.8	5.31	nd
66	W242045072321501	Banaskantha	AMIRGADH	Iqbalgarh	Dug Well	7.74	1149	770	0	354	149	**70**	10	0.70	290	76	46	380	88	2.3	1.96	nd
67	W242340072374001	Banaskantha	AMIRGADH	Kidotar	Dug Well	7.94	1602	1073	0	793	121	36	17	0.90	650	96	56	470	185	9.0	3.71	1
68	W241750072565001	Banaskantha	DANTA	Ganapipli	Dug Well	8.12	885	593	0	354	78	41	19	**1.80**	290	68	29	290	78	2.4	1.99	2
69	W241000072434001	Banaskantha	DANTA	Mohabbat gadh	Dug Well	7.61	1783	1195	0	281	341	**95**	63	0.95	230	200	19	580	130	3.6	2.35	nd
70	W241030072444501	Banaskantha	DANTA	Ratanpur2	Dug Well	7.89	1185	794	0	305	156	**110**	21	0.35	250	128	19	400	85	3.1	1.85	nd
71	W242610072215501	Banaskantha	DANTIWADA	Gangodra	Dug Well	8.27	1902	1274	0	415	391	16	58	0.95	340	84	63	470	232	6.9	4.65	nd
72	W242405072174501	Banaskantha	DANTIWADA	Sodapur	Dug Well	8.28	1063	712	0	354	149	18	25	1.15	290	24	19	140	187	2.8	6.87	nd
73	W242350072170501	Banaskantha	DEESA	Meda	Dug Well	8.06	1054	706	0	423	121	18	14	0.40	347	112	41	450	46	7.5	0.94	nd
74	W241140072260001	Banaskantha	PALANPUR	Palanpur2	Dug Well	8.28	1374	921	0	439	185	**95**	7	0.92	360	52	19	210	230	1.1	6.90	nd
75	W243150071323001	Banaskantha	THARAD	Bharol	Dug Well	8.26	615	412	0	329	43	8	10	0.20	270	60	12	200	40	48.6	1.23	2
76	W243930071460001	Banaskantha	THARAD	Khoda	Dug Well	8.25	**4028**	2699	0	890	753	29	143	**2.30**	730	72	68	460	701	35.5	14.21	nd
77	W241830072193001	Banaskantha	DANTIWADA	Dantiwada1	Dug Well	8.13	478	320	0	171	57	19	6	0.65	140	56	10	180	30	2.2	0.97	nd
78	W215500072473001	Bharuch	AMOD	Roja tankaria	Dug Well	8.23	707	474	0	281	99	4	3	0.36	230	60	22	240	64	8.6	1.80	2
79	W214030072583001	Bharuch	ANKLESVAR	Juna borbhata	Dug Well	8.20	1923	1288	0	814	262	13	12	0.36	667	100	79	580	201	39.0	3.63	7
80	W213320072531501	Bharuch	ANKLESVAR	Motwan	Dug Well	8.18	1983	1329	0	427	383	3	57	0.74	350	72	46	370	272	5.5	6.15	1
81	W214100073011001	Bharuch	ANKLESVAR	Mulad	Dug Well	7.98	3008	2015	0	263	608	42	389	1.00	216	280	12	750	357	23.0	5.67	2
82	W213215072583001	Bharuch	ANKLESVAR	Panoli	Dug Well	8.21	**5635**	3775	0	439	**1631**	**56**	107	1.18	360	240	252	1650	552	2.3	5.91	4
83	W213700072552501	Bharuch	ANKLESVAR	Sajod	Dug Well	8.15	2084	1396	0	866	205	10	26	**2.84**	710	24	17	180	398	2.6	12.90	**12**
84	W214200073001501	Bharuch	BHARUCH	Bharuch	Dug Well	7.67	3200	2144	0	464	709	5	134	0.00	380	180	156	1100	201	3.9	2.63	4
85	W214100072490001	Bharuch	BHARUCH	Kaswa	Dug Well	8.25	602	403	0	244	50	4	32	0.42	200	68	19	250	27	10.4	0.74	6
86	W214100072453002	Bharuch	BHARUCH	Mahegam1	Dug Well	8.16	558	374	0	244	43	5	18	0.22	200	60	19	230	25	6.6	0.72	3
87	W214228072495001	Bharuch	BHARUCH	Navetha	Dug Well	8.21	**3431**	2299	0	464	815	5	274	0.37	380	160	192	1200	292	40.5	3.66	2
88	W212930072423001	Bharuch	HANSOT	Jetpur1	Dug Well	8.24	1678	1124	0	610	198	18	47	0.50	500	84	46	400	181	44.3	3.93	**16**
89	W213115072491501	Bharuch	HANSOT	Raymal	Dug Well	7.70	647	433	0	195	99	3	38	0.50	160	52	19	210	62	3.1	1.86	1
90	W213530072493001	Bharuch	HANSOT	Utraj	Dug Well	8.50	960	643	108	195	64	6	130	1.27	340	24	19	140	200	1.3	7.35	**26**
91	W221105072355001	Bharuch	JAMBUSAR	Dahegam	Dug Well	7.89	1800	1206	0	378	276	**70**	45	0.00	310	164	31	540	123	44.0	2.30	8
92	W220100072453001	Bharuch	JAMBUSAR	Kalak	Dug Well	8.24	1375	921	0	329	213	6	136	0.30	270	100	36	400	148	7.7	3.22	3
93	W221137072382201	Bharuch	JAMBUSAR	Kavi	Dug Well	8.02	**3224**	2160	0	952	355	**130**	240	0.40	780	60	108	600	220	440.0	3.90	**12**
94	W215930072403001	Bharuch	JAMBUSAR	Tankari	Dug Well	8.15	**3300**	2211	0	903	496	18	227	1.00	740	140	168	1050	300	55.0	4.03	9
95	W214430073123001	Bharuch	JHAGADIA	Simodra	Dug Well	7.85	2054	1376	0	366	440	28	21	0.50	300	84	55	440	246	2.8	5.10	2
96	W214330072450001	Bharuch	VAGRA	Bhensli	Dug Well	8.16	790	529	0	354	42	5	28	0.12	290	44	24	210	80	13.1	2.40	4
97	W214030072333001	Bharuch	VAGRA	Luhara	Dug Well	7.86	2066	1384	0	817	170	**58**	20	0.20	670	64	50	370	219	110.0	4.95	**24**

98	W214730072400501	Bharuch	VAGRA	Nirnavi	Dug Well	8.02	988	662	0	488	71	2	10	0.50	400	60	24	250	122	14.4	3.35	4
99	W213450073040501	Bharuch	VALIA	Kondh	Dug Well	8.20	1897	1271	0	342	368	34	89	1.28	280	88	62	480	207	2.0	4.11	1
100	W213415073093001	Bharuch	VALIA	Valia	Dug Well	7.80	**4007**	2685	0	354	780	9	628	1.27	290	240	144	1200	400	0.7	5.02	2
101	W220736072401101	Bharuch	Jambusar	Chhindra	Dug Well	8.07	899	602	0	354	78	35	8	0.00	290	60	48	350	20	38.0	0.46	4
102	W213545073100901	Bharuch	Valia	Jokhla	Dug Well	7.98	995	667	0	439	78	9	50	1.20	360	56	41	310	103	0.1	2.54	2
103	W220137072381001	Bharuch	Jambusar	Sindhav	Dug Well	8.06	1132	758	0	415	135	3	6	0.57	340	56	26	250	135	16.4	3.71	**12**
104	W214130072093001	Bhavnagar	BHAVNAGAR	Bhudel	Dug Well	8.18	2568	1721	0	805	369	**87**	29	0.85	660	56	91	520	354	12.7	6.75	4
105	W214046072143901	Bhavnagar	BHAVNAGAR	Bhumbhali	Dug Well	8.06	3054	2046	0	281	851	18	105	0.70	230	140	19	1130	203	22.6	2.63	5
106	W221345071361501	Bhavnagar	BOTAD	Tardhera	DCB	7.42	**8460**	5668	0	1159	**2056**	38	376	1.50	950	800	480	4000	144	42.0	0.99	2
107	W214800071303001	Bhavnagar	GADHADA	Dhasa	Dug Well	8.34	686	460	72	37	106	12	80	0.20	150	56	45	330	30	11.5	0.72	nd
108	W215800071344501	Bhavnagar	GADHADA	Gadhada2	Dug Well	7.87	1427	956	0	342	234	**69**	106	0.25	280	116	67	570	97	1.1	1.77	nd
109	W220105071420001	Bhavnagar	GADHADA	Ningala	Dug Well	8.41	972	651	84	193	99	27	24	**1.75**	298	36	22	180	143	1.3	4.63	5
110	W220330071380001	Bhavnagar	GADHADA	Tatam	Dug Well	7.94	752	504	0	268	106	19	20	0.60	220	44	38	270	64	5.1	1.69	2
111	W213235071335501	Bhavnagar	GARIADHAR	Gariyadhar	Dug Well	7.76	2383	1597	0	390	567	**84**	81	0.14	320	220	108	1000	130	12.5	1.79	1
112	W214053072163701	Bhavnagar	GHOGHA	Ghogha	Dug Well	8.22	**3380**	2265	0	500	567	**84**	329	0.03	410	140	156	1000	290	50.0	3.99	**12**
113	W210815071393001	Bhavnagar	MAHUVA	Dudhala	DCB	8.22	1610	1079	0	427	177	34	157	0.55	350	80	62	460	154	5.0	3.12	2
114	W211250071530001	Bhavnagar	MAHUVA	Longadi	Dug Well	8.34	1020	683	84	98	64	43	80	0.60	220	52	22	220	97	30.0	2.84	1
115	W210545071460001	Bhavnagar	MAHUVA	Mahuva1	DCB	8.58	2696	1806	204	122	532	**49**	90	1.22	440	80	48	400	431	2.3	9.37	nd
116	W211150071330001	Bhavnagar	MAHUVA	Motivadal	Dug Well	8.27	992	665	0	390	85	**78**	4	0.35	320	64	38	320	87	7.7	2.11	5
117	W211445071390001	Bhavnagar	MAHUVA	Shantinagar	Dug Well	8.02	2452	1643	0	427	496	**135**	198	0.25	350	220	132	1100	126	6.6	1.65	4
118	W213815071420001	Bhavnagar	PALITANA	Khijadiya	Dug Well	8.59	436	292	48	24	35	23	53	0.30	100	28	12	120	48	4.6	1.91	nd
119	W213120071502001	Bhavnagar	PALITANA	Palitana2	Dug Well	7.97	1336	895	0	366	206	**63**	22	0.35	300	124	29	430	110	0.9	2.31	nd
120	W213300071431501	Bhavnagar	PALITANA	Panchpipla	Dug Well	8.12	1557	1043	0	378	276	**57**	8	0.80	310	80	48	400	166	0.2	3.61	2
121	W212530071544501	Bhavnagar	PALITANA	Sajnasar	Dug Well	8.10	1089	730	0	402	113	**84**	9	0.55	330	116	26	400	78	5.7	1.70	nd
122	W214115071453001	Bhavnagar	SIHOR	Sandhida	Dug Well	8.24	720	482	0	354	64	16	35	0.34	290	84	36	360	33	2.7	0.76	3
123	W211315071570001	Bhavnagar	TALAJA	Datha	Dug Well	8.78	2966	1987	84	390	674	5	165	1.47	460	100	168	950	300	4.5	4.23	2
124	W211730071580001	Bhavnagar	TALAJA	Pasvi	Dug Well	8.16	945	633	0	329	64	**60**	69	0.65	270	78	43	370	52	20.6	1.18	nd
125	W212200072010001	Bhavnagar	TALAJA	Talaja2	Dug Well	7.91	1575	1055	0	427	305	**75**	10	0.35	350	120	74	610	114	0.7	2.01	1
126	W214450071420001	Bhavnagar	UMRALA	Bhutia	Dug Well	8.04	1855	1243	0	268	397	**108**	73	0.44	220	160	50	610	157	1.0	2.76	3
127	W214954071455801	Bhavnagar	UMRALA	Timbi2	Dug Well	8.07	358	240	0	171	28	10	37	0.22	140	32	26	190	17	4.2	0.54	1
128	W220550071535001	Bhavnagar	VALLABHIPUR	Lonjdhara	Dug Well	8.56	1130	757	96	317	92	19	22	1.49	420	28	36	220	172	1.2	5.04	5
129	W220430071533001	Bhavnagar	VALLABHIPUR	Panvi1	Dug Well	8.40	2562	1717	240	439	319	19	100	1.50	760	80	84	550	363	10.5	6.73	4
130	W215300071523001	Bhavnagar	VALLABHIPUR	Vallbhipur	Dug Well	8.47	**6096**	4084	180	232	**1382**	7	528	**2.96**	490	60	29	1350	772	0.8	9.14	8

131	W215737071531101	Bhavnagar	Vallabhipur	Ayodhyapuram(Narayan dham)	Dug Well	8.56	**3968**	2659	180	1220	815	13	5	**4.35**	1300	60	84	500	916	1.3	17.81	**13**
132	W214600072090001	Bhavnagar	BHAVNAGAR	Bhavnagar1	Dug Well	8.30	1045	700	48	244	160	8	64	0.50	280	60	29	270	144	1.7	3.81	8
133	W211128071554401	Bhavnagar	Mahuva	Bora	Dug Well	7.77	1650	1106	0	793	99	**57**	35	1.47	650	28	22	160	330	3.5	11.34	1
134	W212837071482201	Bhavnagar	Palitana	Vadal	Dug Well	7.90	963	645	0	342	121	**81**	40	0.35	280	76	60	450	51	0.8	1.05	1
135	W213405072115301	Bhavnagar	Ghogha	Vavdi	Dug Well	8.42	1317	882	72	158	121	**114**	177	0.80	250	92	82	570	60	0.6	1.09	2
136	W224200073545001	Dohad	DEVGAD BARIA	Devgadh Baria	Dug Well	7.93	1247	835	0	268	220	39	32	1.05	220	72	36	330	125	3.1	2.99	nd
137	W224215073501501	Dohad	DEVGAD BARIA	Khandania	Dug Well	8.07	612	410	0	317	36	18	17	**2.50**	260	52	22	220	60	1.3	1.76	nd
138	W224830073533001	Dohad	DEVGAD BARIA	Salaya1	Dug Well	8.01	762	511	0	244	85	24	42	0.95	200	60	24	250	63	2.0	1.73	1
139	W223800074061501	Dohad	DHANPUR	Dhanpur	Dug Well	7.93	962	645	0	256	92	**105**	40	1.25	210	60	39	310	74	2.1	1.83	nd
140	W223450074065001	Dohad	DHANPUR	Kanjetha	Dug Well	8.21	623	417	0	305	21	8	41	0.90	250	44	19	190	65	2.8	2.05	nd
141	W223615074021501	Dohad	DHANPUR	Tokarba	Dug Well	7.88	754	505	0	305	78	5	5	1.05	250	64	29	280	43	2.6	1.12	nd
142	W225020074153001	Dohad	DOHAD	Dahod1 (Forest)	Dug Well	8.13	2256	1512	0	427	341	**220**	96	**2.60**	350	96	83	580	249	4.7	4.50	**25**
143	W224930074140001	Dohad	DOHAD	Dahod2 (Jilla Se	Dug Well	8.24	940	630	0	207	99	**100**	82	0.60	170	72	34	320	73	0.8	1.77	nd
144	W224800074163001	Dohad	DOHAD	Varamkheda	Dug Well	8.14	835	559	0	329	99	3	26	1.33	270	36	36	240	94	1.7	2.64	nd
145	W230900074030001	Dohad	FATEPURA	Sukhsar	Dug Well	8.00	749	502	0	342	43	39	35	1.05	280	52	32	230	84	1.7	2.41	nd
146	W224050074184501	Dohad	GARBADA	Garbara	Dug Well	7.87	**4865**	3260	0	683	895	**400**	206	**2.80**	560	80	146	800	728	39.1	11.19	nd
147	W224345074183001	Dohad	GARBADA	Panchwada	Dug Well	8.11	901	604	0	452	64	18	3	0.85	370	44	17	280	93	4.6	2.42	nd
148	W230015074093001	Dohad	JHALOD	Limbdi2	Dug Well	7.96	821	550	0	232	121	10	25	0.90	190	72	12	230	78	5.6	2.24	nd
149	W225600074120001	Dohad	JHALOD	Mirakhedi	Dug Well	7.94	797	534	0	305	50	**70**	39	1.05	250	84	22	300	56	0.6	1.41	nd
150	W225015074040001	Dohad	LIMKHEDA	Dadhela	Dug Well	7.79	918	615	0	329	85	26	37	1.33	270	60	36	300	71	5.0	1.78	nd
151	W224000074131301	Dohad	Dhanpur	Ambakatch	Dug Well	8.04	1306	875	0	683	107	5	11	1.25	560	64	61	410	148	4.2	3.18	1
152	W224012073503001	Dohad	DEVGAD BARIA	Badpa	Dug Well	7.84	1624	1088	0	366	213	25	155	**2.66**	300	68	15	230	259	1.9	7.43	nd
153	W225041074160001	Dohad	DOHAD	Dahod Urban-2	Dug Well	7.78	2294	1537	0	292	383	**200**	201	0.62	239	120	78	620	248	3.2	4.33	nd
154	W225023074140201	Dohad	DOHAD	Dahod Urban-3	Dug Well	8.06	1600	1072	0	500	213	**60**	43	**2.56**	410	52	44	310	232	2.4	5.73	1
155	W230953074072201	Dohad	JHALOD	Garada	Dug Well	8.26	789	529	0	268	50	11	83	0.95	220	72	17	250	64	2.7	1.76	nd
156	W202440072531001	Daman	Daman	Dabhel	Dug Well	7.92	956	641	0	378	99	3	53	0.45	310	44	36	260	115	1.0	3.10	2
157	W202635072510701	Daman	Daman	Dalwada	Dug Well	7.95	678	454	0	293	57	0	29	0.55	240	32	27	190	75	0.7	2.37	1
158	W202240072493701	Daman	Daman	Jempur	Dug Well	8.02	928	622	0	415	76	8	59	0.20	340	20	36	200	146	18.9	4.49	nd
159	W202607072495201	Daman	Daman	Manwad	Dug Well	8.12	696	466	0	317	36	3	33	0.20	260	36	24	190	73	3.4	2.30	1
160	W202429072513501	Daman	Daman	Warkund	Dug Well	8.13	1453	974	0	476	227	12	23	1.05	390	40	71	390	166	0.9	3.65	nd
161	W204253070565501	Diu	DIU	Diu	Dug Well	8.40	2947	1974	84	134	744	12	219	0.50	250	140	132	900	300	66.0	4.35	9
162	W204230070523501	Diu	DIU	Gomti Mata	Dug Well	8.26	**4000**	2680	0	573	744	**126**	487	0.90	470	100	324	1600	250	42.0	2.72	**14**
163	W204318070555901	Diu	DIU	Jalawali	Dug Well	8.16	**3990**	2673	0	159	**1064**	18	368	0.58	130	240	228	1550	230	7.1	2.54	2

164	W231045072503001	Gandhinagar	DEHGAM	Paliya	DCB	8.26	1977	1325	0	634	249	**140**	19	1.12	520	48	122	620	180	1.1	3.14	3
165	W231130072340001	Gandhinagar	GANDHINAGAR	Serthapara	DCB	8.00	2677	1794	0	976	284	**70**	59	1.30	800	120	88	660	307	41.2	5.20	**15**
166	W215500069513001	Jamnagar	BHANVAD	Ambardi	Dug Well	7.88	1628	1091	0	427	220	**96**	70	0.68	350	68	58	410	187	2.9	4.02	nd
167	W215540069474501	Jamnagar	BHANVAD	Bhanvad	Dug Well	8.09	820	549	0	329	71	30	100	0.35	270	52	58	370	60	0.4	1.36	nd
168	W215430069494501	Jamnagar	BHANVAD	Mota kalawad	Dug Well	7.87	3157	2115	0	220	815	**56**	264	0.29	180	280	150	1350	145	1.1	1.72	1
169	W223400070250001	Jamnagar	DHROL	Dhrol2	Dug Well	8.26	1372	919	0	500	163	16	55	0.40	410	52	38	290	195	4.1	4.98	2
170	W215415069573001	Jamnagar	JAMJODHPUR	Balwa	Dug Well	8.16	1100	737	0	427	128	23	7	0.35	350	92	46	420	64	3.1	1.36	nd
171	W220200070073001	Jamnagar	JAMJODHPUR	Seth vadala	Dug Well	7.94	1252	839	0	268	163	**81**	133	0.14	220	68	60	420	109	0.2	2.31	1
172	W222615069540001	Jamnagar	JAMNAGAR	Bed	Dug Well	8.04	2456	1646	0	476	425	**160**	196	0.12	390	220	60	800	244	1.5	3.75	nd
173	W222100070023001	Jamnagar	JAMNAGAR	Changa	DCB	8.06	1047	701	0	305	191	10	16	0.20	250	64	10	200	160	2.0	4.92	nd
174	W223130070121501	Jamnagar	JAMNAGAR	Jambuda	Dug Well	7.98	1448	970	0	366	234	42	125	0.60	300	60	55	380	193	0.2	4.30	nd
175	W222730070044501	Jamnagar	JAMNAGAR	Jamnagar2	Dug Well	7.95	1147	768	0	342	170	11	90	0.40	280	48	36	270	164	0.4	4.34	nd
176	W222500070110001	Jamnagar	JAMNAGAR	Vijarkha	Dug Well	8.14	763	511	0	256	78	12	63	0.64	210	36	12	140	119	0.5	4.37	1
177	W224945070334501	Jamnagar	JODIYA	Amran1	Dug Well	8.28	911	610	0	427	99	4	48	0.68	350	44	26	220	150	3.5	4.40	1
178	W224100070190001	Jamnagar	JODIYA	Bedanpur	Dug Well	7.88	**3927**	2631	0	195	**1028**	**102**	324	0.54	160	320	216	1700	161	1.2	1.70	nd
179	W224730070301501	Jamnagar	JODIYA	Dudhai2	Dug Well	8.34	925	620	72	110	135	2	60	0.46	210	28	29	190	128	1.6	4.04	1
180	W221615070200001	Jamnagar	KALAVAD	Haripur2	DCB	8.33	768	515	108	24	71	**56**	73	0.65	200	48	31	250	80	1.5	2.20	1
181	W221300070230001	Jamnagar	KALAVAD	Kalawad	Dug Well	7.95	1680	1126	0	378	227	**87**	126	0.34	310	104	65	530	141	5.8	2.66	1
182	W221900070155001	Jamnagar	KALAVAD	Moti matli	Dug Well	8.23	372	249	0	171	35	4	3	0.30	140	24	12	110	40	2.8	1.66	nd
183	W221130070320001	Jamnagar	KALAVAD	Nikava	Dug Well	7.86	1229	823	0	476	163	7	8	0.47	390	60	38	310	151	10.5	3.73	2
184	W220345070230001	Jamnagar	KALAVAD	Toda	Dug Well	8.25	972	651	0	207	127	**90**	74	0.29	170	68	31	310	88	3.3	2.17	nd
185	W215930069144501	Jamnagar	KALYANPUR	Bhogat	Dug Well	8.24	1943	1302	0	207	468	21	45	**2.20**	170	108	41	440	215	6.7	4.46	nd
186	W221015069220001	Jamnagar	KALYANPUR	Juvanpur	Dug Well	8.05	761	510	0	281	78	41	21	0.20	230	68	22	260	63	0.2	1.70	1
187	W220100069240001	Jamnagar	KALYANPUR	Kalyanpur1	Dug Well	8.28	**4607**	3087	0	476	**1205**	**72**	28	**2.98**	390	180	192	1250	440	3.9	5.41	1
188	W220100069233001	Jamnagar	KALYANPUR	Kalyanpur2	Dug Well	7.92	1304	874	0	256	234	41	48	0.40	210	48	31	250	174	1.1	4.78	nd
189	W215845069360001	Jamnagar	KALYANPUR	Khirsara	Dug Well	8.07	2835	1899	0	427	460	**190**	325	0.10	350	220	144	1130	170	4.8	2.20	2
190	W221450069153001	Jamnagar	KALYANPUR	Pindara	Dug Well	8.08	1679	1125	0	220	284	2	233	0.65	180	108	50	480	162	10.8	3.21	nd
191	W215935069144501	Jamnagar	KALYANPUR	Raval	Dug Well	7.92	2170	1454	0	207	539	27	47	0.20	170	144	53	580	198	0.4	3.57	1
192	W222000069423001	Jamnagar	KHAMBHALIA	Kajuda	Dug Well	7.69	**5511**	3692	0	220	**1489**	**100**	476	0.16	180	280	420	2450	200	0.5	1.76	nd
193	W221205069350001	Jamnagar	KHAMBHALIA	Kuvadia	Dug Well	8.23	1133	759	0	439	135	31	20	0.19	360	96	29	360	110	1.7	2.52	2
194	W221820069361501	Jamnagar	KHAMBHALIA	Salaya	Dug Well	8.26	1869	1252	0	622	213	**75**	48	0.20	510	48	26	230	320	31.6	9.17	4
195	W221230069300001	Jamnagar	KHAMBHALIA	Vadtara	Dug Well	8.15	2926	1960	0	317	628	**120**	338	0.20	260	120	156	950	302	4.2	4.26	nd
196	W221130069574001	Jamnagar	LALPUR	Lalpur1	Dug Well	8.19	1653	1108	0	402	227	**48**	178	0.44	330	116	48	490	179	0.7	3.52	3

197	W222600069023001	Jamnagar	OKHAMANDAL	Aramda	Dug Well	8.55	2710	1816	108	378	496	13	42	**2.16**	490	100	84	600	303	45.4	5.38	1
198	W221445068573001	Jamnagar	OKHAMANDAL	Dwarka	Dug Well	8.11	1871	1254	0	293	376	**75**	22	0.40	240	72	38	340	240	30.0	5.66	nd
199	W222200068590001	Jamnagar	OKHAMANDAL	Mojap	Dug Well	8.43	**6392**	4283	204	24	**1702**	4	262	**1.80**	360	200	132	1050	930	103.0	12.48	5
200	W222230069061501	Jamnagar	OKHAMANDAL	Samrasar	Dug Well	8.21	**10420**	6981	0	464	**3191**	3	111	**3.00**	380	320	288	2000	1410	35.5	13.71	5
201	W221730068580001	Jamnagar	OKHAMANDAL	Varwada	DCB	7.83	**8956**	6001	0	158	**2801**	**46**	268	1.10	130	380	240	1950	1150	24.3	11.32	nd
202	W221425069073101	Jamnagar	OKHAMANDAL	Amaliya Chokri	Dug Well	8.54	**3510**	2352	168	207	780	6	137	**3.00**	450	100	180	1000	331	18.0	4.55	4
203	W215356069192501	Jamnagar	OKHAMANDAL	Lambha 1	Dug Well	8.06	**4013**	2689	0	244	**1134**	**78**	194	0.75	200	240	96	1000	500	2.5	6.87	nd
204		Jamnagar	OKHAMANDAL	Manpur	Dug Well	7.95	1258	843	0	171	248	**46**	76	0.13	140	100	53	470	65	0.1	1.30	nd
205	W213630070340001	Junagadh	BHESAN	Patla	Dug Well	7.48	1398	937	0	354	220	**60**	77	0.73	290	52	66	400	154	1.0	3.35	1
206	W212620070360001	Junagadh	JUNAGADH	Bilkha	Dug Well	8.08	1085	727	0	427	128	14	14	0.60	350	84	54	430	60	2.2	1.26	1
207	W213100070273001	Junagadh	JUNAGADH	Junagadh1	Dug Well	7.97	923	618	0	281	121	44	17	0.38	230	68	29	290	77	1.5	1.97	1
208	W211600070123001	Junagadh	KESHOD	Kewarda	Dug Well	8.08	959	643	0	464	43	42	49	1.26	380	100	36	400	60	11.2	1.30	nd
209	W204800070413002	Junagadh	KODINAR	Kodinar1	Dug Well	8.26	995	667	0	281	163	11	47	0.45	230	52	53	350	79	6.6	1.84	nd
210	W210545070130001	Junagadh	MALIA	Budhecha	Dug Well	7.82	1508	1010	0	293	291	**48**	51	1.20	240	68	46	360	180	2.0	4.12	nd
211	W210230070130001	Junagadh	MALIA	Chorwad	Dug Well	7.53	**10600**	7102	0	146	**3337**	30	494	0.26	120	840	182	2850	1185	4.4	9.65	nd
212	W210850070163001	Junagadh	MALIA	Galodar	Dug Well	7.95	909	609	0	366	99	32	6	0.34	300	64	46	350	57	0.2	1.32	nd
213	W211000070160001	Junagadh	MALIA	Juthal	Dug Well	8.14	418	280	0	195	35	19	20	0.30	160	48	17	190	26	2.8	0.82	1
214	W210150070143001	Junagadh	MALIA	Kanek	Dug Well	7.73	**7575**	5075	0	305	**2308**	21	234	0.38	250	760	158	2550	579	40.8	4.99	nd
215	W210240070113001	Junagadh	MALIA	Khambalia1	Dug Well	7.43	**7383**	4947	0	146	**2308**	24	253	0.26	120	660	170	2350	621	4.5	5.57	nd
216	W210315070123001	Junagadh	MALIA	Kukaswada	Dug Well	7.81	**3779**	2532	0	281	937	35	259	0.30	230	224	10	600	583	19.5	10.35	nd
217	W212915070050001	Junagadh	MANAVADAR	Bantva	Dug Well	7.67	**6235**	4177	0	232	**1747**	2	402	0.30	190	296	215	1620	684	5.2	7.39	1
218	W211410070002501	Junagadh	MANGROL	Antroli	Dug Well	7.77	**10850**	7270	0	146	**3479**	45	386	0.05	120	660	280	2800	1255	20.7	10.31	nd
219	W210450070103501	Junagadh	MANGROL	Arena	Dug Well	7.54	**8557**	5733	0	134	**2592**	**52**	416	0.38	110	440	292	2300	915	45.7	8.30	nd
220	W211315070032001	Junagadh	MANGROL	Bamanwara	Dug Well	7.50	**8187**	5485	0	171	**2592**	**90**	303	0.50	140	920	219	3200	475	4.7	3.65	2
221	W211100070091502	Junagadh	MANGROL	Goraj1	Dug Well	8.28	975	653	0	366	99	44	22	1.36	300	54	32	260	112	1.9	3.02	nd
222	W211455070033001	Junagadh	MANGROL	Kalej	Dug Well	7.84	**6784**	4545	0	207	**2059**	**130**	181	0.69	170	780	121	2450	440	9.3	3.86	nd
223	W210350070102501	Junagadh	MANGROL	Khorada1	Dug Well	7.80	**5235**	3507	0	378	**1420**	25	202	0.30	310	200	121	1000	722	39.7	9.93	1
224	W211000070040001	Junagadh	MANGROL	Lohej	Dug Well	8.00	**7419**	4971	0	329	**2201**	21	299	0.62	270	440	158	1750	917	31.7	9.53	2
225	W210835070054501	Junagadh	MANGROL	Maktupur1	Dug Well	7.61	**10770**	7216	0	146	**3408**	24	607	0.40	120	560	33	2550	1422	13.0	12.24	1
226	W210750070071001	Junagadh	MANGROL	Mangrol1	Dug Well	8.03	1619	1085	0	354	312	**50**	48	0.81	290	92	24	330	199	47.8	4.76	5
227	W210900070074501	Junagadh	MANGROL	Manketara	Dug Well	8.10	1040	697	0	244	149	40	54	0.96	200	64	29	280	103	2.2	2.68	nd
228	W210700070131001	Junagadh	MANGROL	Sepa	Dug Well	7.99	998	669	0	232	142	**55**	69	0.85	190	68	36	320	88	18.1	2.14	nd
229	W210800070145501	Junagadh	MANGROL	Seriakhan	Dug Well	7.77	1645	1102	0	232	312	**110**	85	0.53	190	120	47	480	154	0.5	3.06	nd

230	W210615070091001	Junagadh	MANGROL	Shardagram	Dug Well	7.58	**10330**	6921	0	183	**3195**	17	613	0.50	150	480	158	1850	1618	10.9	16.36	2
231	W211108070024701	Junagadh	MANGROL	Sil	Dug Well	7.71	**5491**	3679	0	220	**1598**	41	173	0.70	180	260	122	1150	703	30.1	9.01	nd
232	W211325070032001	Junagadh	MANGROL	Sil bandar	Dug Well	8.28	**3580**	2399	0	732	817	42	118	0.59	600	180	61	700	503	94.0	8.27	7
233	W211930070260001	Junagadh	MENDARDA	Mendarda1	Dug Well	8.27	666	446	0	366	43	8	28	0.64	300	40	46	290	50	0.1	1.28	1
234	W210145070363001	Junagadh	TALALA	Jambur[madhapa	Dug Well	8.02	893	598	0	256	85	13	129	0.32	210	68	53	390	40	1.1	0.88	2
235	W210305070313001	Junagadh	TALALA	Talala1	Dug Well	7.94	501	336	0	207	57	10	5	0.10	170	60	7	180	39	3.4	1.26	1
236	W205730071041501	Junagadh	UNA	Dhokadva	Dug Well	8.28	580	389	0	293	35	9	45	0.30	240	52	36	280	30	1.4	0.78	3
237	W204510070551001	Junagadh	UNA	Girgadhada	Dug Well	8.01	911	610	0	232	106	**75**	107	0.38	190	96	44	410	48	0.8	1.03	2
238	W205900070454501	Junagadh	UNA	Jamvala1	Dug Well	8.00	558	374	0	220	43	12	85	0.36	180	64	29	280	28	0.2	0.73	nd
239	W205115071071501	Junagadh	UNA	Sametar	Dug Well	8.33	856	574	48	134	121	17	81	0.17	190	52	50	340	56	2.0	1.32	1
240	W204930071023001	Junagadh	UNA	Una2	Dug Well	8.39	1936	1297	108	171	333	**72**	111	1.30	320	64	60	410	259	4.0	5.56	3
241	W212515070190001	Junagadh	VANTHALI	Khokharda	Dug Well	7.97	1500	1005	0	329	263	**55**	70	0.48	270	96	41	410	163	1.7	3.50	nd
242	W212215070202001	Junagadh	VANTHALI	Khoras ahir	Dug Well	8.21	2694	1805	0	500	511	**90**	153	0.90	410	120	73	600	356	2.2	6.32	nd
243	W205320070281502	Junagadh	VERAVAL	Ajotha	Dug Well	8.27	1431	959	0	207	312	37	97	0.74	170	112	62	540	96	2.7	1.80	nd
244	W205900070261001	Junagadh	VERAVAL	Moraj	Dug Well	8.13	760	509	0	207	99	10	105	1.04	170	68	22	260	79	0.5	2.13	nd
245	W212130070444501	Junagadh	VISAVADAR	Mandawad	Dug Well	8.25	918	615	0	146	170	22	94	0.15	120	68	24	270	96	0.9	2.54	nd
246	W211800070420001	Junagadh	VISAVADAR	Prempara	Dug Well	8.65	1062	712	84	110	99	41	112	0.58	230	92	50	440	38	6.5	0.79	2
247	W210032070433301	Junagadh	Talala	Amervel Nes	Dug Well	8.36	647	433	72	12	42	32	127	0.33	130	68	34	310	18	1.0	0.44	nd
248	W205839070363301	Junagadh	Talala	Bhim Deval	Dug Well	7.97	1163	779	0	207	148	**57**	179	0.80	170	92	46	420	90	2.1	1.91	7
249	W205251070590301	Junagadh	Una	Jargla Jargali	Dug Well	8.28	490	328	0	232	35	10	6	0.34	190	48	17	190	30	0.9	0.95	1
250	W205212071030401	Junagadh	Una	Kansari	Dug Well	8.20	575	385	0	146	64	37	51	0.60	120	40	31	230	30	5.3	0.86	3
251	W205103070400901	Junagadh	Kodinar	Prasli	Dug Well	8.09	1313	880	0	256	191	**75**	51	1.10	210	64	48	360	110	62.0	2.52	2
252	W212437070310501	Junagadh	JUNAGADH	Anandpur	Dug Well	7.62	426	285	0	159	57	14	4	0.50	130	48	12	170	27	1.6	0.90	1
253	W213607070323001	Junagadh	JUNAGADH	Chokli	Dug Well	8.11	647	433	0	305	64	7	3	0.39	250	56	22	230	56	0.0	1.61	1
254	W211613070405001	Junagadh	Vasavadar	Kasia Naka Check Post	Dug Well	8.36	502	336	60	85	43	9	8	0.20	170	64	5	180	31	0.3	1.00	nd
255	W211620070284701	Junagadh	MENDARDA	Kanedipur	Dug Well	8.05	635	425	0	317	50	2	4	0.39	260	56	29	260	36	0.6	0.97	1
256	W213519070021501	Junagadh	VANTHALI	Saradiya	Dug Well	8.00	2375	1591	0	268	554	18	134	0.20	220	128	68	600	260	1.6	4.61	nd
257	W213632070300801	Junagadh	JUNAGADH	Vadal	Dug Well	8.21	1290	864	0	476	185	37	47	0.83	390	88	73	520	99	6.4	1.89	1
258	W230230069043001	Kachchh	ABDASA	Kotaya	Dug Well	8.41	1401	939	60	146	198	22	213	1.07	220	48	46	310	200	1.4	4.94	nd
259	W230943068544301	Kachchh	ABDASA	Kothara	Dug Well	8.50	3072	2058	84	476	744	2	38	**2.68**	530	100	120	750	410	3.3	6.51	7
260	W231600068500001	Kachchh	ABDASA	Naliya1	Dug Well	8.72	1696	1136	96	366	213	13	137	0.74	460	24	29	180	340	5.0	11.02	3
261	W231700068565001	Kachchh	ABDASA	Tera	Dug Well	9.00	2984	1999	96	305	780	42	47	1.50	410	120	168	1000	281	6.8	3.86	nd
262	W230600069013001	Kachchh	ABDASA	Vinjhan1	Dug Well	7.75	**15920**	10666	0	305	**5141**	2	363	0.85	250	520	564	3650	1990	31.0	14.32	nd

263	W232715070210001	Kachchh	BHACHAU	Kharoi	Dug Well	8.12	1348	903	0	268	278	2	1	0.00	220	80	60	450	78	6.0	1.60	4
264	W235145070213002	Kachchh	BHACHAU	Rathanpurkhadir	Dug Well	8.28	**4032**	2701	0	256	**1099**	**48**	205	0.15	210	260	232	1200	383	17.0	4.81	nd
265	W231800070303001	Kachchh	BHACHAU	Samkhiari	Dug Well	8.09	**4967**	3328	0	439	**1134**	**110**	446	1.27	360	200	228	1450	500	16.0	5.71	4
266	W231500069400002	Kachchh	BHUJ	Bhuj1	Dug Well	8.25	913	612	0	244	92	6	96	0.08	200	72	31	310	58	13.3	1.43	1
267	W232130069520001	Kachchh	BHUJ	Haboi	Dug Well	8.10	1446	969	0	268	227	8	169	0.85	220	76	50	400	151	10.7	3.28	nd
268	W235020069435001	Kachchh	BHUJ	Khavada	Dug Well	7.76	**11940**	8000	0	281	**2836**	12	1662	0.30	230	620	312	2850	1460	42.0	11.89	3
269	W232400069533001	Kachchh	BHUJ	Lodai	DCB	7.96	**4188**	2806	0	207	886	8	689	1.32	170	260	324	1500	305	2.6	3.42	nd
270	W230825069382001	Kachchh	BHUJ	Sedat	Dug Well	8.39	722	484	60	195	28	0	86	0.00	260	60	36	300	41	3.2	1.03	nd
271	W231230069370001	Kachchh	BHUJ	Sukhpar	Dug Well	7.74	**9244**	6193	0	244	**2730**	**60**	505	1.35	200	480	240	2200	1140	5.8	10.57	nd
272	W230500070083002	Kachchh	GANDHIDHAM	Gandhidham1	Dug Well	8.13	1614	1081	0	488	227	44	36	0.85	400	116	46	480	147	23.0	2.92	2
273	W230200070031501	Kachchh	GANDHIDHAM	Shinaya	Dug Well	8.12	**5067**	3395	0	378	**1347**	2	320	0.30	310	260	108	1100	676	7.7	8.86	1
274	W233200068570001	Kachchh	LAKHPAT	Mata no madh	Dug Well	8.12	1366	915	0	158	291	0	172	0.00	130	80	34	340	177	8.2	4.17	1
275	W234530068403001	Kachchh	LAKHPAT	Moti cher	Dug Well	7.92	**3810**	2553	0	134	**1064**	0	299	0.00	110	260	216	1550	180	27.8	1.99	5
276	W230300069300001	Kachchh	MANDVI	Dunai	Dug Well	8.29	1035	693	0	488	113	4	40	0.38	400	72	38	340	123	2.7	2.90	nd
277	W230230069113001	Kachchh	MANDVI	Kotadi	Dug Well	8.49	2634	1765	84	268	567	**50**	196	1.20	360	140	84	700	330	6.4	5.42	1
278	W225030069203001	Kachchh	MANDVI	Mandvi1	Dug Well	8.40	968	649	60	98	121	4	139	0.30	180	40	36	250	116	5.2	3.19	nd
279	W225000069200002	Kachchh	MANDVI	Mandvi-3	Dug Well	8.29	547	366	0	281	28	30	28	0.00	230	72	12	230	43	15.1	1.23	5
280	W225400069540001	Kachchh	MUNDRA	Bhadreshwar	Dug Well	8.28	1068	716	0	317	191	0	30	0.00	260	96	36	390	80	12.3	1.76	nd
281	W225630069394501	Kachchh	MUNDRA	Karagoga	Dug Well	8.42	**4851**	3250	108	561	886	4	631	1.15	640	120	96	700	860	3.4	14.13	nd
282	W232700069240001	Kachchh	NAKHATRANA	Chandranagar	Dug Well	8.28	2442	1636	0	415	461	5	288	0.62	340	200	180	1000	140	19.7	1.92	nd
283	W232410069194501	Kachchh	NAKHATRANA	Devisar	Dug Well	7.96	**5700**	3819	0	378	**1418**	4	461	1.00	310	200	204	1350	677	19.7	8.01	nd
284	W232200069120001	Kachchh	NAKHATRANA	Kotda jadvapur	Dug Well	8.26	**3264**	2187	0	403	674	12	360	0.30	330	180	168	1150	243	6.3	3.12	1
285	W234450070404501	Kachchh	RAPAR	Deshalpur rapar	Dug Well	8.04	**7235**	4847	0	427	**1985**	10	396	0.00	350	360	180	1650	900	56.0	9.63	1
286	W232500070480001	Kachchh	RAPAR	Gagodar	Dug Well	8.43	397	266	72	98	21	3	5	0.08	200	32	14	140	50	2.5	1.84	1
287	W235240070483101	Kachchh	RAPAR	Kuda	Dug Well	8.24	1137	762	0	451	106	41	22	1.17	370	132	19	410	61	32.0	1.31	**22**
288	W233040070390001	Kachchh	RAPAR	Lilpur	Dug Well	7.98	**9219**	6177	0	220	**2482**	**100**	716	0.77	180	64	312	2900	761	31.0	6.14	1
289	W233400070381502	Kachchh	RAPAR	Rapar2	Dug Well	8.29	374	251	0	159	35	2	34	0.10	130	36	14	150	31	4.6	1.10	nd
290	W225620069045801	Kachchh	MANDVI	Bambhdai	Dug Well	8.04	**6384**	4277	0	281	**1985**	0	165	0.60	230	280	192	1500	800	5.9	8.98	nd
291	W225224069484201	Kachchh	Mundra	Luni	Dug Well	8.25	2718	1821	0	146	674	11	250	0.00	120	180	108	700	300	10.4	4.93	nd
292	W232747069081701	Kachchh	NAKHATRANA	Ugardi	Dug Well	7.71	**8875**	5946	0	317	**2375**	**48**	670	0.62	260	320	288	2000	1100	7.3	10.69	1
293	W225458069512001	Kachchh	MUNDRA	Vadala	Dug Well	7.98	**4163**	2789	0	415	**1063**	18	224	0.70	340	200	132	1050	487	4.2	6.53	nd
294	W225700073193001	Kheda	BALASINOR	Balasinor1	Dug Well	8.24	714	478	0	183	107	24	20	0.56	150	8	54	240	48	0.5	1.35	nd
295	W230500073214501	Kheda	BALASINOR	Juna vasadra	Dug Well	8.27	913	612	0	378	71	42	15	0.66	310	72	36	330	61	2.1	1.46	6

296	W230015073053001	Kheda	KAPADVANJ	Kapadvanj	Dug Well	8.10	**3787**	2537	0	464	838	39	219	**2.50**	380	88	19	300	710	16.8	17.82	3
297	W225430073071501	Kheda	KATHLAL	Ladvel	Dug Well	8.05	2625	1759	0	427	497	**175**	96	0.90	350	96	36	640	305	9.5	5.24	4
298	W224830073033001	Kheda	MAHUDHA	Alina	Dug Well	7.41	**8060**	5400	0	293	**2286**	4	512	0.60	240	216	170	1240	1290	20.7	15.93	nd
299	W224700072563001	Kheda	MAHUDHA	Mahudha	Dug Well	8.60	1582	1060	60	573	192	31	29	1.30	570	20	17	120	360	2.2	14.29	nd
300	W223430072373001	Kheda	MATAR	Shekhupura	Dug Well	8.26	2248	1506	0	549	398	**105**	30	0.80	450	64	88	520	252	54.4	4.80	2
301	W224100072530001	Kheda	NADIAD	Nadiad2	Dug Well	8.70	**4207**	2819	132	451	852	14	200	0.20	590	24	112	520	440	446.0	8.39	6
302	W224545073101001	Kheda	THASRA	Dakor	Dug Well	8.50	1273	853	120	476	128	28	15	1.10	590	40	58	340	218	1.1	5.14	1
303	W224315073113001	Kheda	THASRA	Kalesar	Dug Well	8.50	1759	1179	156	610	149	22	19	0.95	760	52	54	350	305	13.8	7.09	2
304	W231005073244001	Kheda	VIRPUR	Bar	Dug Well	8.27	2916	1954	0	854	426	21	120	0.90	700	248	15	680	205	280.0	3.42	4
305	W224203072583601	Kheda	NADIAD	Alindra	Dug Well	8.28	1327	889	0	549	149	8	12	0.10	450	84	41	380	139	28.3	3.10	8
306	W223808072543301	Kheda	NADIAD	Boriyavi	Dug Well	8.58	859	576	72	366	57	0	19	0.77	420	32	92	430	43	1.0	0.90	4
307	W224659073103601	Kheda	Tharsa	Muliyad	Dug Well	8.50	1064	713	72	512	64	13	6	1.30	540	32	44	260	180	0.8	4.85	2
308	W233030072110001	Mehsana	BECHARAJI	Asjol	Dug Well	8.23	385	258	0	207	21	26	6	0.15	170	56	5	160	25	9.8	0.86	nd
309	W233245072064501	Mehsana	BECHARAJI	Dharpura	Dug Well	8.28	1296	868	0	622	99	12	18	0.95	510	44	29	230	175	48.9	5.02	**26**
310	W231715072223001	Mehsana	KADI	Budasan	Dug Well	8.09	1079	723	0	366	149	22	10	0.75	300	96	17	310	92	26.8	2.27	3
311	W231450072180001	Mehsana	KADI	Vidaj	DCB	8.28	1922	1288	0	622	263	27	40	0.25	510	64	19	240	233	164.8	6.54	**16**
312	W235315072364501	Mehsana	KHERALU	Kheralu1	Dug Well	8.07	374	251	0	171	43	2	6	0.40	140	40	15	160	23	3.4	0.79	nd
313	W235330072310001	Mehsana	KHERALU	Rampura1	Dug Well	8.64	986	661	36	488	64	9	7	0.60	460	44	22	200	169	2.2	5.20	nd
314	W235045072430001	Mehsana	KHERALU	Unad	Dug Well	8.09	**8190**	5487	0	1598	**1527**	45	411	**1.80**	1310	100	219	1150	1293	19.9	16.58	8
315	W233440072172001	Mehsana	MAHESANA	Maguna	Dug Well	7.97	**3431**	2299	0	976	611	43	36	0.55	800	120	209	1160	270	29.3	3.45	2
316	W233745072203001	Mehsana	MAHESANA	Panchot	Dug Well	8.27	2478	1660	0	549	497	8	20	0.45	450	80	49	400	315	77.8	6.85	1
317	W235030072270001	Mehsana	UNJHA	Dosaj	Dug Well	8.03	2302	1542	0	366	454	31	191	**1.90**	300	56	34	280	413	16.2	10.73	2
318	W234800072210001	Mehsana	UNJHA	Sihi	Dug Well	8.18	908	608	0	329	92	44	15	0.45	270	36	24	240	66	54.9	1.85	nd
319	W234600072214501	Mehsana	UNJHA	Unawa	Dug Well	8.23	**4305**	2884	0	915	781	16	277	0.65	750	120	117	780	591	75.5	9.20	nd
320	W234330072230001	Mehsana	VISNAGAR	Bhandupara	Dug Well	8.26	2330	1561	0	451	483	6	49	0.85	370	56	44	320	367	18.5	8.92	nd
321	W234530072273001	Mehsana	VISNAGAR	Tarabh	Dug Well	8.27	488	327	0	244	43	0	4	0.25	200	56	12	190	31	6.9	0.98	nd
322	W234752072234001	Mehsana	UNJHA	Unjha	Dug Well	8.02	3179	2130	0	634	497	**185**	172	0.95	520	56	88	500	440	78.9	8.56	nd
323	W213115073384502	Narmada	DEDIAPADA	Kanbi pitha	Dug Well	7.97	610	409	0	293	35	16	13	0.33	240	60	31	280	17	0.2	0.44	1
324	W215330073390001	Narmada	NANDOD	Garudeshwar	Dug Well	8.20	1000	670	0	451	57	**58**	34	0.77	370	96	43	420	53	1.9	1.12	3
325	W215205073360001	Narmada	NANDOD	Hirapura	Dug Well	8.04	713	478	0	378	25	3	23	0.76	310	84	17	280	43	1.0	1.12	2
326	W214400073283001	Narmada	NANDOD	Khota amba	Dug Well	8.09	639	428	0	342	21	5	19	0.56	280	48	41	290	21	0.4	0.54	1
327	W215530073293001	Narmada	NANDOD	Rasela	Dug Well	8.25	494	331	0	256	21	3	12	0.53	210	56	14	200	26	0.0	0.80	nd
328	W215030073280001	Narmada	NANDOD	Ringani	Dug Well	8.09	560	375	0	293	21	0	70	0.71	240	44	48	310	16	10.0	0.40	nd

329	W215050073321001	Narmada	NANDOD	Sunderpura	Dug Well	8.23	631	423	0	293	21	15	92	0.41	240	60	46	340	18	0.8	0.42	6
330	W213630073453002	Narmada	SAGBARA	Selemba	Dug Well	7.98	765	513	0	268	57	**52**	86	0.50	220	88	38	380	25	0.4	0.56	nd
331	W220240073372001	Narmada	TILAKWADA	Namaria	Dug Well	7.55	**4522**	3030	0	512	886	**230**	453	1.08	420	200	408	1750	274	1.2	2.85	3
332	W212932073354901	Narmada	Dediapada	Jankh	Dug Well	8.10	626	419	0	293	35	6	41	0.52	240	64	34	300	18	0.2	0.45	nd
333	W213050073311001	Narmada	Dediapada	Khaidipada	Dug Well	8.17	500	335	0	220	28	10	38	0.30	180	48	29	240	13	0.1	0.36	1
334	W213636073390901	Narmada	Dediapada	Ralda	Dug Well	7.88	1457	976	0	451	220	27	29	0.34	370	60	55	380	164	1.6	3.66	nd
335	W204330073090001	Navsari	CHIKHLI	Kaliyari	Dug Well	7.86	844	565	0	366	64	17	23	0.65	300	20	54	270	74	0.3	1.96	nd
336	W203800073054501	Navsari	CHIKHLI	Khergam	Dug Well	7.95	764	512	0	366	57	3	17	0.30	300	60	17	220	84	0.2	2.46	nd
337	W204715072571501	Navsari	GANDEVI	Sari_khurd	Dug Well	7.75	2021	1354	0	390	447	3	49	0.20	320	44	90	480	245	21.7	4.86	1
338	W205930072531001	Navsari	JALALPORE	Chinam	Dug Well	7.88	2888	1935	0	891	440	11	126	0.40	730	32	54	300	552	4.9	13.86	2
339	W205330072483001	Navsari	JALALPORE	Dandi	Dug Well	7.92	1315	881	0	586	114	6	29	0.35	480	16	44	220	211	4.6	6.19	1
340	W205658072563001	Navsari	NAVSARI	Navsari1	Dug Well	7.93	**6322**	4236	0	317	**2095**	5	172	0.40	260	260	231	1600	845	4.9	9.18	1
341	W204952073200401	Navsari	VANSDA	Chandav	Dug Well	7.98	1062	712	0	427	121	7	18	0.75	350	76	41	360	87	1.2	1.99	nd
342	W204943073032701	Navsari	GANDEVI	Duvada	Dug Well	7.91	1077	722	0	488	78	3	95	0.90	400	28	49	270	159	0.7	4.21	nd
343	W204027073140001	Navsari	CHIKHLI	Manav Khadak	Dug Well	7.85	714	478	0	378	28	0	17	0.70	310	40	24	200	78	0.5	2.40	2
344	W204818073160001	Navsari	VANSDA	Moti Valzar	Dug Well	7.78	700	469	0	354	36	6	16	0.65	290	40	27	210	71	0.4	2.13	1
345	W203857073100101	Navsari	CHIKHLI	Panikhadak	Dug Well	7.95	882	591	0	317	99	3	33	0.35	260	60	36	300	64	1.5	1.61	1
346	W224330073453001	Panchmahals	GHOGHAMBA	Ranipura	Dug Well	8.12	1654	1108	0	488	213	**135**	44	**1.70**	400	64	88	520	158	3.3	3.01	nd
347	W224609073352801	Panchmahals	GODHRA	Godhra UR_2	Dug Well	8.03	1016	681	0	317	149	34	13	0.95	260	60	17	220	136	1.1	3.99	2
348	W224648073362501	Panchmahals	GODHRA	Godhra UR_3	Dug Well	8.26	283	190	0	183	21	3	11	0.35	150	32	12	130	30	1.7	1.14	2
349	W224815073281501	Panchmahals	GODHRA	Tuwa	Dug Well	8.22	815	546	0	415	32	4	0	0.00	340	32	34	220	78	16.9	2.29	nd
350	W223030073303001	Panchmahals	HALOL	Timbi2	Dug Well	8.00	908	608	0	415	64	39	22	0.05	340	36	71	380	49	1.4	1.09	nd
351	W224145073333001	Panchmahals	KALOL	Vejalpur	Dug Well	8.13	2381	1595	0	708	383	32	10	0.50	580	96	126	760	165	37.9	2.60	nd
352	W230110073311001	Panchmahals	LUNAWADA	Kothamba	Dug Well	7.94	1621	1086	0	268	312	**65**	86	0.70	220	104	44	440	170	2.4	3.52	1
353	W231215073360001	Panchmahals	LUNAWADA	Limbadia peti	Dug Well	8.20	794	532	0	366	64	9	15	1.25	300	40	36	250	77	2.3	2.12	nd
354	W230745073363001	Panchmahals	LUNAWADA	Lunawada	Dug Well	8.24	2123	1422	0	451	469	15	31	0.23	370	208	19	600	223	16.4	3.96	nd
355	W231350073441001	Panchmahals	LUNAWADA	Malekpur1	Dug Well	8.27	686	460	0	281	57	31	30	1.03	230	64	12	210	74	3.0	2.22	nd
356	W224800073484501	Panchmahals	MORWA (HADAF)	Santroad	Dug Well	8.26	697	467	0	293	57	16	4	1.15	240	60	17	220	56	2.2	1.64	nd
357	W230900073463001	Panchmahals	SANTRAMPUR	Gadhar	Dug Well	8.06	747	500	0	207	107	40	15	1.15	170	76	10	230	66	3.3	1.89	nd
358	W231130073543001	Panchmahals	SANTRAMPUR	Santrampur1	Dug Well	8.22	904	606	0	268	135	19	19	**1.71**	220	68	12	230	102	1.3	2.92	nd
359	W225715073373001	Panchmahals	SHEHERA	Shehra	Dug Well	8.27	1754	1175	0	708	163	**55**	35	0.82	580	40	32	230	246	100.2	7.05	4
360	W224940073364501	Panchmahals	GODHRA	Chhabanpur	Dug Well	8.16	759	509	0	244	99	**48**	17	0.82	200	68	15	230	78	2.0	2.24	3
361	W224531073302401	Panchmahals	Kalol	Dhanol	Dug Well	8.60	1914	1282	85	634	241	**46**	17	**2.80**	661	20	12	100	445	1.9	19.35	1

362	W224615073380001	Panchmahals	GODHRA	Godhra2	Dug Well	7.19	71	48	0	49	14	7	2	0.15	40	16	0	40	13	0.0	0.89	nd
363	W224734073362401	Panchmahals	GODHRA	Godhra UR_1	Dug Well	8.26	828	555	0	342	92	21	11	0.82	280	40	34	240	93	1.6	2.61	nd
364		Panchmahals	JAMBUGODHA	Jambughora	Dug Well	8.11	975	653	0	305	149	35	7	0.95	250	64	19	240	120	2.8	3.37	1
365	W222405073410601	Panchmahals	JAMBUGODHA	Javan	Dug Well	8.20	487	326	0	159	64	8	14	0.70	130	44	12	160	39	13.4	1.34	nd
366	W230343073371301	Panchmahals	LUNAWADA	Jokha	Dug Well	8.27	997	668	0	451	78	12	18	1.25	370	80	7	230	130	7.6	3.73	nd
367	W223601073263601	Panchmahals	KALOL	Kalol UR_1	Dug Well	8.45	1259	844	96	390	135	22	17	0.60	480	92	56	460	115	4.1	2.33	1
368	W223523073270501	Panchmahals	KALOL	Kalol UR_2	Dug Well	8.26	1506	1009	0	488	192	**95**	14	1.03	400	112	32	410	165	1.0	3.54	nd
369	W223944073300101	Panchmahals	GODHRA	Khadki Vadiya	Dug Well	8.28	1254	840	0	586	99	3	17	**1.80**	480	36	54	310	155	1.4	3.83	nd
370	W232212073403801	Panchmahals	KHANPUR	Khanpur	Dug Well	8.15	665	446	0	244	71	**52**	3	0.65	200	52	27	240	50	1.1	1.40	nd
371	W231042073390801	Panchmahals	LUNAWADA	Kantha	Dug Well	8.20	708	474	0	305	71	9	11	1.05	250	40	15	160	98	1.7	3.37	2
372	W224800073484501	Panchmahals	MORWA (HADAF)	Natapur	Dug Well	8.24	773	518	0	305	85	13	6	**1.60**	250	68	5	190	93	2.3	2.93	nd
373	W231340073583701	Panchmahals	FATEPURA	Sarsava	Dug Well	8.02	624	418	0	268	36	21	12	0.80	220	48	19	200	47	1.9	1.44	2
374	W230344073510301	Panchmahals	MORWA (HADAF)	Suliyat	Dug Well	8.28	927	621	0	306	128	25	59	1.00	251	96	12	290	105	6.5	2.68	nd
375	W234150072041001	Patan	CHANASMA	Dharmoda	Dug Well	8.49	1011	677	96	183	57	6	112	0.00	310	36	22	180	153	35.0	4.96	**15**
376	W233930072164501	Patan	CHANASMA	Dhinoj	Dug Well	8.26	2200	1474	0	683	277	14	60	0.00	560	104	46	450	228	70.0	4.67	3
377	W235100072060001	Patan	PATAN	Patan2	Dug Well	7.96	**3977**	2665	0	915	638	**245**	171	1.50	750	140	192	1150	410	46.0	5.26	**15**
378	W234600072151501	Patan	PATAN	Sander	DCB	8.41	631	423	72	159	43	4	15	0.00	250	48	24	220	51	11.7	1.49	nd
379	W234645072094501	Patan	PATAN	Shankhari	Dug Well	8.40	778	521	108	49	50	4	102	1.10	220	36	22	180	103	9.7	3.34	nd
380	W234930071365002	Patan	RADHANPUR	Radhanpur2	Dug Well	8.22	2800	1876	0	659	674	13	24	1.10	540	160	36	550	456	37.0	8.45	**16**
381	W233540071465001	Patan	SAMI	Moti chander	Dug Well	7.54	**29200**	19564	0	769	**11132**	**95**	971	1.20	630	660	912	5450	5600	72.0	32.98	**14**
382	W233850071060001	Patan	SANTALPUR	Piprala	Dug Well	8.56	**6594**	4418	156	647	**1631**	**150**	118	**3.00**	790	120	132	850	1160	0.9	17.30	nd
383	W212702069590001	Porbandar	KUTIYANA	Kadegi	Dug Well	8.14	**4240**	2841	0	378	**1008**	21	345	0.35	310	120	88	660	675	3.9	11.42	nd
384	W213750070010001	Porbandar	KUTIYANA	Kutiyana1	Dug Well	7.67	2664	1785	0	207	596	**60**	186	0.45	170	112	68	560	324	27.2	5.95	nd
385	W215500069360001	Porbandar	PORBANDAR	Adwana1	Dug Well	8.08	1529	1024	0	634	177	45	15	0.78	520	96	72	540	132	7.2	2.47	nd
386	W212215069523001	Porbandar	PORBANDAR	Balej	Dug Well	7.78	**3469**	2324	0	305	852	**60**	145	0.15	250	192	54	700	445	23.4	7.31	3
387	W214835069243001	Porbandar	PORBANDAR	Bhavpura	Dug Well	7.81	**5652**	3787	0	159	**1666**	42	144	0.46	130	480	156	1850	389	10.0	3.93	nd
388	W214830069360501	Porbandar	PORBANDAR	Khambodar	Dug Well	8.34	902	604	132	122	113	7	19	0.70	320	44	26	220	133	4.4	3.90	nd
389	W214100069330001	Porbandar	PORBANDAR	Kuchhadi	Dug Well	8.12	**4822**	3231	0	268	**1276**	31	192	0.75	220	180	108	900	582	102.0	8.43	1
390	W215000069232001	Porbandar	PORBANDAR	Miyani	Dug Well	8.36	**3262**	2186	48	122	886	**48**	144	0.18	180	320	60	1050	269	62.0	3.61	3
391	W212645069473001	Porbandar	PORBANDAR	Navibandar	Dug Well	8.03	431	289	0	122	64	13	18	0.05	100	28	7	100	40	27.9	1.74	6
392	W213400069405001	Porbandar	PORBANDAR	Oddar	Dug Well	8.13	**4510**	3022	0	244	**1420**	19	52	1.00	200	88	117	700	711	25.9	11.68	1
393	W214530069291501	Porbandar	PORBANDAR	Palkhada	Dug Well	7.84	**3507**	2350	0	207	922	**175**	39	0.35	170	320	60	1050	285	40.2	3.82	nd
394	W211750069563001	Porbandar	PORBANDAR	Pata	Dug Well	8.28	3048	2042	0	500	639	32	130	0.00	410	144	24	460	471	17.0	9.55	1

395	W213830069373001	Porbandar	PORBANDAR	Porbandar1	Dug Well	8.00	1073	719	0	244	213	12	25	0.20	200	48	17	190	152	18.5	4.79	2
396	W214735069474501	Porbandar	RANAVAV	Hanumangadh	Dug Well	8.12	1815	1216	0	390	341	8	63	0.50	320	92	36	380	230	23.2	5.13	1
397	W214100069444501	Porbandar	RANAVAV	Ranavav	Dug Well	7.83	952	638	0	268	156	35	17	0.45	220	60	22	240	115	1.9	3.23	nd
398	W214231069423901	Porbandar	RANAVAV	Adityana	Dug Well	7.97	713	478	0	246	78	32	14	0.65	202	48	22	210	67	1.9	2.01	1
399	W214612069351701	Porbandar	PORBANDAR	Babda	Dug Well	8.31	2543	1704	24	281	567	11	142	0.64	270	120	84	650	271	2.4	4.62	nd
400	W214553069394001	Porbandar	PORBANDAR	Bakharla	Dug Well	8.31	2088	1399	42	232	397	**108**	39	0.70	260	120	46	490	215	9.5	4.22	1
401	W213932069491601	Porbandar	RANAVAV	Bhod	Dug Well	7.96	704	472	0	244	85	19	16	0.45	200	64	15	220	62	1.8	1.82	nd
402	W214237069362001	Porbandar	PORBANDAR	Degam	Dug Well	8.20	**3834**	2569	0	500	922	11	87	**1.60**	410	140	96	750	497	15.9	7.89	1
403	W213852069530001	Porbandar	RANAVAV	Kandorna	Dug Well	7.51	2236	1498	0	171	540	37	137	0.40	140	128	49	520	260	5.2	4.96	nd
404	W214159069365101	Porbandar	PORBANDAR	Kolikhada village 2	Dug Well	8.49	1880	1260	72	610	227	**60**	44	1.10	620	24	22	150	410	1.2	14.55	1
405	W212054069532101	Porbandar	KUTIYANA	Mocha	Dug Well	8.28	1271	852	0	183	284	8	43	0.00	150	40	58	340	123	8.8	2.90	2
406	W215309069360101	Porbandar	PORBANDAR	Mojiwana	Dug Well	8.03	**6694**	4485	0	98	**1985**	42	385	0.37	80	360	300	2150	553	1.8	5.19	nd
407	W214313069304301	Porbandar	PORBANDAR	Ratadi	Dug Well	8.26	**3743**	2508	0	378	993	**50**	36	0.86	310	220	96	950	395	12.5	5.57	1
408		Porbandar	PORBANDAR	Ratanpur	Dug Well	7.94	**6868**	4602	0	305	**1846**	11	404	0.36	250	200	207	1350	905	33.9	10.71	2
409	W212617069482201	Porbandar	PORBANDAR	Ratia	Dug Well	7.77	2076	1391	0	354	454	**58**	250	0.30	290	104	48	460	296	120.0	6.00	2
410	W215649069410901	Porbandar	PORBANDAR	Simar	Dug Well	8.20	1726	1156	0	159	454	34	10	0.38	130	124	10	350	215	1.1	5.00	2
411	W213058069434301	Porbandar	PORBANDAR	Tukda	Dug Well	8.06	524	351	0	244	64	1	11	0.10	200	32	12	130	80	4.4	3.05	2
412	W214708069264701	Porbandar	PORBANDAR	Visavada	Dug Well	7.97	**4306**	2885	0	171	**1311**	29	55	1.20	140	280	120	1200	379	76.0	4.76	2
413	W213945070203001	Rajkot	DHORAJI	Bhada jodiya	Dug Well	8.24	1434	961	0	512	121	**50**	109	1.05	420	40	27	210	248	4.7	7.44	4
414	W214330070270001	Rajkot	DHORAJI	Dhoraji1	Dug Well	7.73	2765	1853	0	73	738	**105**	182	0.30	60	296	19	820	262	1.0	3.98	2
415	W213840070154001	Rajkot	DHORAJI	Patanvav	Dug Well	8.15	768	515	0	354	57	12	6	0.50	290	80	12	250	64	16.7	1.76	2
416	W215500070445501	Rajkot	GONDAL	Chordi	Dug Well	7.59	**4784**	3205	0	122	**1377**	**58**	226	0.25	100	424	136	1620	336	6.9	3.63	3
417	W220530070440001	Rajkot	GONDAL	Dadia	Dug Well	7.81	2409	1614	0	134	596	34	228	0.38	110	224	97	960	123	1.0	1.73	3
418	W215841070372301	Rajkot	Gondal	Hadmadiya	Dug Well	8.19	1892	1268	0	220	334	**140**	142	0.29	180	116	75	600	147	1.2	2.61	3
419	W220110070393701	Rajkot	Gondal	Kolithad1	Dug Well	8.00	793	531	0	220	71	**70**	29	0.38	180	60	24	250	55	0.1	1.51	3
420	W215945070594501	Rajkot	GONDAL	Mota dadwa	Dug Well	8.01	1584	1061	0	207	320	**120**	37	0.38	170	156	43	570	89	0.8	1.62	4
421	W220730070460001	Rajkot	GONDAL	Ribda	Dug Well	8.08	914	612	0	427	78	9	25	0.35	350	56	39	300	90	0.4	2.26	3
422	W215330070290001	Rajkot	JAMKANDORNA	Jasapur	Dug Well	8.26	1228	823	0	244	170	**125**	114	0.38	200	88	55	450	98	0.5	2.01	2
423	W220330071131501	Rajkot	JASDAN	Jasdan2	Dug Well	7.31	1600	1072	0	231	284	**120**	53	0.39	189	108	49	470	128	0.5	2.57	2
424	W220845071120001	Rajkot	JASDAN	Kamlapur	Dug Well	7.36	**3484**	2334	0	146	979	**150**	41	0.38	120	368	68	1200	222	1.2	2.79	4
425	W220800071181501	Rajkot	JASDAN	Lalavadar	Dug Well	7.80	867	581	0	329	57	**65**	16	0.50	270	64	34	300	56	0.7	1.41	3
426	W220130071073001	Rajkot	JASDAN	Viranagar	Dug Well	7.97	2827	1894	0	537	540	**85**	138	1.00	440	160	83	740	316	0.4	5.05	2
427	W214630070380001	Rajkot	JETPUR	Jetpur pithad.	Dug Well	7.28	**3823**	2561	0	231	902	**70**	372	0.28	189	376	147	1560	167	0.4	1.84	3

428	W214405070300501	Rajkot	JETPUR	Motagundala	Dug Well	8.09	1004	673	0	244	170	3	13	0.75	200	60	19	230	106	0.1	3.04	3
429	W214505070353001	Rajkot	JETPUR	Pedhla	Dug Well	7.57	**5450**	3652	0	390	**1463**	**66**	238	0.11	320	496	112	1700	465	4.6	4.90	3
430	W230530070454501	Rajkot	MALIYA	Malia	Dug Well	7.98	905	606	0	329	99	26	0	0.50	270	48	24	220	98	9.9	2.87	5
431	W225730070370001	Rajkot	MALIYA	Mota dhansura	Dug Well	8.05	1226	821	0	268	213	6	100	0.55	220	68	39	380	117	6.6	2.61	3
432	W225830070420001	Rajkot	MALIYA	Sarvad	Dug Well	8.28	1735	1162	0	586	185	6	93	1.42	480	32	10	120	336	12.3	13.34	2
433	W225600070483001	Rajkot	MORVI	Amar nagar	Dug Well	8.05	**8753**	5865	0	305	**2911**	19	74	**2.90**	250	260	425	2400	970	3.6	8.61	3
434	W230005070534501	Rajkot	MORVI	Macchukunda	Dug Well	8.02	988	662	0	366	128	4	20	1.35	300	56	34	280	106	7.1	2.75	2
435	W224900070503001	Rajkot	MORVI	Morvi	Dug Well	8.22	1931	1294	0	354	398	31	24	1.45	290	56	63	400	236	3.1	5.13	2
436	W225130070570001	Rajkot	MORVI	Nichi mandal	Dug Well	8.02	**3438**	2303	0	573	667	30	238	1.26	470	80	24	300	643	17.5	16.14	4
437	W222700070363001	Rajkot	PADDHARI	Movaiya	Dug Well	7.53	**3783**	2535	0	85	951	**105**	312	0.65	70	304	19	840	460	3.8	6.90	4
438	W220530071030001	Rajkot	RAJKOT	Halenda	Dug Well	8.26	1636	1096	0	390	256	**85**	153	0.55	320	44	114	580	154	3.0	2.78	3
439	W221800070480001	Rajkot	RAJKOT	Rajkot1	Dug Well	8.04	1513	1014	0	634	163	24	15	0.29	520	112	39	440	160	10.0	3.32	**14**
440	W222200070554501	Rajkot	RAJKOT	Ranpur1	Dug Well	8.20	1138	762	0	268	178	22	16	0.40	220	72	34	320	87	0.4	2.11	4
441	W220830070590001	Rajkot	RAJKOT	Sardhar2	Dug Well	8.15	2132	1428	0	732	327	10	7	0.20	600	80	53	420	305	75.7	6.47	2
442	W223015070451501	Rajkot	TANKARA	Chhatar	Dug Well	8.09	1541	1032	0	220	341	**64**	149	0.80	180	100	66	520	164	0.4	3.13	3
443	W214030070104501	Rajkot	UPLETA	Ganod	Dug Well	8.15	**6676**	4473	0	293	**1704**	**75**	574	**2.34**	240	200	146	1100	1030	1.6	13.50	4
444	W214455070163001	Rajkot	UPLETA	Upleta1	Dug Well	8.26	2430	1628	0	744	341	**70**	64	**2.70**	610	32	19	160	491	0.5	16.88	5
445	W222630071050001	Rajkot	WANKANER	Bhalgam	Dug Well	8.28	1510	1012	0	293	270	11	153	0.95	240	68	66	440	164	3.2	3.40	4
446	W223300070533001	Rajkot	WANKANER	Sindhavadar	Dug Well	8.03	1500	1005	0	366	284	40	16	1.20	300	48	39	280	220	0.3	5.72	5
447	W230730073123001	Sabarkantha	BAYAD	Boral	Dug Well	8.05	2991	2004	0	476	625	**135**	98	0.74	390	56	136	700	366	2.3	6.01	nd
448	W231030073201501	Sabarkantha	BAYAD	Sathamba	Dug Well	8.04	949	636	0	270	178	41	15	0.70	221	52	46	320	95	2.7	2.31	4
449	W234600073162001	Sabarkantha	BHILODA	Bhiloda2	DCB	7.83	1247	835	0	342	213	18	18	0.63	280	52	58	370	115	3.2	2.60	nd
450	W234010073102501	Sabarkantha	BHILODA	Punasan	Dug Well	7.92	697	467	0	207	92	35	7	0.32	170	56	19	220	54	0.8	1.58	nd
451	W234110073220001	Sabarkantha	BHILODA	Shamlaji	Dug Well	8.11	940	630	0	281	156	19	19	0.52	230	44	32	240	115	1.2	3.23	1
452	W235050073183001	Sabarkantha	BHILODA	Takatuka	Dug Well	8.14	2757	1847	0	293	653	45	154	0.52	240	80	92	580	364	2.8	6.57	nd
453	W232100073120002	Sabarkantha	DHANSURA	Dhansura1	Dug Well	8.22	1253	840	0	268	220	**55**	47	0.85	220	60	75	460	78	0.8	1.58	nd
454	W232000073180001	Sabarkantha	DHANSURA	Karanpur	Dug Well	8.26	715	479	0	305	71	25	5	1.00	250	44	24	210	78	0.9	2.34	nd
455	W234230072563001	Sabarkantha	HIMATNAGAR	Gadha1	Dug Well	8.03	2980	1997	0	342	625	**130**	201	1.35	280	72	44	360	520	2.0	11.92	nd
456	W233230073060001	Sabarkantha	HIMATNAGAR	Varvada	Dug Well	8.08	1603	1074	0	256	305	**130**	33	0.75	210	60	44	330	210	3.5	5.03	nd
457	W233915072573001	Sabarkantha	HIMATNAGAR	Virpur2	Dug Well	8.07	524	351	0	195	64	34	9	0.53	160	56	15	200	41	0.7	1.26	nd
458	W234445072584501	Sabarkantha	IDAR	Bhadreshwar1	Dug Well	7.40	2246	1505	0	830	241	**94**	7	1.40	680	104	68	540	263	9.2	4.92	1
459	W235030073021501	Sabarkantha	IDAR	Idar	Dug Well	8.28	1080	724	0	293	107	**125**	38	**2.60**	240	56	36	290	115	1.7	2.94	nd
460	W234915073070001	Sabarkantha	IDAR	Revas	Dug Well	7.80	1431	959	0	195	320	38	52	0.85	160	116	58	530	80	1.3	1.51	nd

461	W240145073030001	Sabarkantha	KHEDBRAHMA	Khedbramha	Dug Well	7.59	**3425**	2295	0	134	866	**165**	219	0.95	110	312	73	1080	290	2.3	3.84	nd
462	W240640073003001	Sabarkantha	KHEDBRAHMA	Matoda	Dug Well	8.07	2535	1698	0	403	497	**120**	38	0.10	330	200	54	720	210	29.7	3.40	nd
463	W242230073020001	Sabarkantha	KHEDBRAHMA	Poshina2	Dug Well	8.15	1806	1210	0	610	256	45	11	1.00	500	80	66	470	205	9.7	4.11	nd
464	W241230072595501	Sabarkantha	KHEDBRAHMA	Ratanpur2	Dug Well	8.03	1619	1085	0	244	305	**65**	93	0.65	200	84	54	430	164	12.6	3.44	nd
465	W240030073070001	Sabarkantha	KHEDBRAHMA	Silwad	Dug Well	7.70	**4826**	3233	0	317	**1250**	**100**	229	0.86	260	160	185	1160	555	13.7	7.08	nd
466	W232945073303001	Sabarkantha	MEGHRAJ	Meghraj	Dug Well	7.98	555	372	0	256	64	0	11	0.35	210	28	24	170	66	3.5	2.20	nd
467	W232745073183001	Sabarkantha	MODASA	Modasa2	Dug Well	8.28	1061	711	0	159	156	**125**	67	0.20	130	80	29	320	94	0.7	2.28	nd
468	W240030073070001	Sabarkantha	KHEDBRAHMA	Silwad	Dug Well	7.82	1517	1016	0	195	298	**125**	50	0.40	160	104	58	500	110	5.4	2.14	4
469	W232240073010001	Sabarkantha	TALOD	Harsol1	Dug Well	8.18	1285	861	0	573	92	**65**	28	1.30	470	20	56	280	187	1.0	4.86	nd
470	W235400073071001	Sabarkantha	VADALI	Choriwad	Dug Well	8.04	1913	1282	0	305	327	**190**	53	0.95	250	188	63	730	91	2.7	1.46	nd
471	W235600073020001	Sabarkantha	VADALI	Wadali	Dug Well	7.73	1474	988	0	220	220	**140**	116	0.90	180	88	44	400	152	4.5	3.30	nd
472	W235910073123001	Sabarkantha	VIJAYNAGAR	Atarsumba	Dug Well	7.95	838	561	0	220	128	**52**	15	0.00	180	52	39	290	60	2.9	1.53	nd
473	W240030073211501	Sabarkantha	VIJAYNAGAR	Vijaynagar1	Dug Well	8.26	1059	710	0	268	213	8	16	0.55	220	40	34	240	142	4.8	3.99	nd
474	W231629073123001	Sabarkantha	Dhansura	Alwa Kampa	Dug Well	8.10	1171	785	0	415	142	**54**	7	0.02	340	32	75	390	94	1.5	2.07	1
475	W231434072562701	Sabarkantha	Talod	Boriya	Dug Well	7.92	2550	1709	0	256	568	**65**	173	0.75	210	96	78	560	320	0.8	5.88	2
476	W235524072511201	Sabarkantha	IDAR	Chandap_DW	Dug Well	8.26	911	610	0	317	107	42	4	1.15	260	76	22	280	80	6.8	2.08	2
477	W233431073151101	Sabarkantha	MODASA	Gadada	Dug Well	8.02	1764	1182	0	342	305	**140**	53	1.17	280	68	97	570	146	3.1	2.66	nd
478	W235455073084301	Sabarkantha	Vadoli	Kesharpura	Dug Well	7.88	1217	815	0	195	199	**115**	59	0.95	160	88	46	410	88	1.6	1.89	nd
479	W232041073275201	Sabarkantha	MALPUR	Malpur_1	Dug Well	8.01	824	552	0	244	57	**80**	61	1.05	200	48	41	290	56	1.6	1.43	1
480	W233609073091601	Sabarkantha	HIMATNAGAR	Mathasuliya	Dug Well	8.28	1253	840	0	366	142	**130**	18	0.20	300	64	41	330	120	30.5	2.87	nd
481	W233043073162801	Sabarkantha	MODASA	Medasana	Dug Well	8.22	897	601	0	281	114	**46**	16	0.75	230	32	32	210	110	0.7	3.30	nd
482	W233619072550901	Sabarkantha	HIMATNAGAR	Ramgarh	Dug Well	8.25	**3571**	2393	0	549	852	10	78	1.05	450	96	92	620	524	23.6	9.15	2
483	W235227072574701	Sabarkantha	IDAR	Sabalwad	Dug Well	7.96	992	665	0	305	85	41	71	**2.56**	250	92	27	340	67	1.8	1.58	nd
484	W231813072575201	Sabarkantha	Talod	Umedpura	Dug Well	8.28	1529	1024	0	476	234	**70**	30	1.32	390	32	71	370	205	0.5	4.63	nd
485	W210345073113001	Surat	BARDOLI	Allu	Dug Well	8.02	753	505	0	366	50	6	27	1.05	300	20	41	220	86	1.2	2.52	1
486	W210530072433001	Surat	CHORASI	Sultanabad	Dug Well	7.85	1140	764	0	439	135	32	54	0.35	360	44	61	360	127	22.0	2.91	3
487	W211730072554501	Surat	KAMREJ	Kathor	Dug Well	7.97	1448	970	0	659	149	23	55	0.60	540	52	85	480	161	1.9	3.20	2
488	W211700073140001	Surat	MANDVI	Kasal	Dug Well	7.88	747	500	0	329	57	17	26	0.35	270	60	63	280	52	0.1	1.35	2
489	W211515073174501	Surat	MANDVI	Mandvi2	Dug Well	8.11	1180	791	0	366	128	**130**	67	0.50	300	88	56	450	96	0.5	1.97	3
490	W211900073080001	Surat	MANDVI	Nogama	Dug Well	7.94	1032	691	0	354	85	**70**	14	0.55	290	96	29	360	57	0.3	1.31	2
491	W211850073093001	Surat	MANDVI	Ushker	Dug Well	7.77	750	503	0	354	50	29	30	0.45	290	72	17	250	77	2.0	2.12	3
492	W212600073130005	Surat	MANGROL	Nizar1	Dug Well	7.88	1052	705	0	293	128	**105**	57	0.90	240	52	54	350	101	0.7	2.35	2
493	W212030072453001	Surat	OLPAD	Olpad2	Dug Well	8.05	1710	1146	0	622	185	34	113	1.25	510	32	39	240	314	62.1	8.81	2

494	W212530072494501	Surat	OLPAD	Wadoli	Dug Well	7.76	2397	1606	0	342	639	0	159	0.90	280	120	134	850	235	1.7	3.50	2
495	W210440072593001	Surat	PALSANA	Palsana	Dug Well	7.92	1026	687	0	439	135	9	68	0.30	360	96	49	440	88	3.4	1.82	4
496	W211330073344501	Surat	SONGADH	Bhurvel (ukai)	Dug Well	7.95	707	474	0	244	78	15	4	0.40	200	56	32	270	27	1.3	0.71	nd
497	W211015073331501	Surat	SONGADH	Jesingpura[sg]	Dug Well	8.11	865	580	0	451	21	3	39	0.70	370	44	36	260	85	0.6	2.29	2
498	W211200072500005	Surat	SURAT CITY	Uchchhal1	Dug Well	7.94	928	622	0	403	57	**75**	1	0.35	330	88	44	400	34	0.6	0.74	3
499	W212740073293001	Surat	UMARPADA	Chavada	Dug Well	8.05	463	310	0	220	28	12	14	0.35	180	40	19	180	30	0.0	0.97	2
500	W210300073160001	Surat	VALOD	Valod	Dug Well	7.78	421	282	0	244	28	3	14	0.40	200	44	29	230	13	0.2	0.37	3
501	W210000073283001	Surat	VYARA	Karanjvel	Dug Well	7.95	460	308	0	232	28	4	13	0.20	190	44	34	180	31	1.8	1.00	2
502	W210630073234501	Surat	VYARA	Vyara1	Dug Well	7.95	312	209	0	146	28	2	28	0.35	120	28	12	120	33	2.5	1.31	2
503	W212249073001501	Surat	Mangrol	Bhatkol	Dug Well	8.05	914	612	0	403	107	1	36	0.75	330	20	36	200	149	1.3	4.58	1
504	W210905073233701	Surat	VYARA	Chapawadi	Dug Well	8.02	517	346	0	244	43	9	17	0.20	200	48	24	220	31	0.4	0.91	1
505	W212430073080002	Surat	MANGROL	Dungri	Dug Well	7.98	1190	797	0	598	43	29	50	0.20	490	12	44	210	192	1.8	5.76	2
506	W210231073192401	Surat	Valod	Kelkui	Dug Well	7.86	392	263	0	195	57	2	4	0.35	160	48	12	170	36	0.1	1.20	2
507	W211652073275501	Surat	Songarh	Kherwada	Dug Well	7.79	621	416	0	354	50	15	3	0.40	290	72	29	300	36	0.2	0.90	2
508	W211013073040701	Surat	Bardoli	Mota	Dug Well	8.15	2614	1751	0	287	604	26	129	1.05	235	100	85	600	302	3.6	5.36	2
509	W211645073205901	Surat	Mandavi	Moti Sarkui	Dug Well	7.95	625	419	0	305	43	31	14	0.55	250	60	7	270	38	0.3	1.01	2
510	W211245073214401	Surat	VYARA	Moti Chher	Dug Well	7.90	553	371	0	220	21	**80**	17	0.45	180	64	22	250	20	1.2	0.55	2
511	W212715073115401	Surat	MANGROL	Paneshwar	Dug Well	8.05	1767	1184	0	207	391	32	118	0.35	170	156	63	650	105	0.2	1.79	3
512	W205014073171601	Surat	Mahuva	Vaheval	Dug Well	7.88	605	405	0	281	36	19	12	0.40	230	68	19	250	28	0.1	0.77	4
513	W223445071115901	Surendranagar	Chotila	Than	Dug Well	8.06	1768	1185	0	268	369	**52**	63	0.75	220	124	29	430	196	1.2	4.11	4
514	W222600071551501	Surendranagar	CHUDA	Vanala	Dug Well	8.28	1192	799	0	268	192	8	100	0.20	220	60	29	270	154	6.4	4.07	5
515	W230700071470001	Surendranagar	DASADA	Bajana	Dug Well	7.69	1086	728	0	232	135	3	129	0.56	190	64	34	250	125	6.0	3.44	7
516	W232307071404601	Surendranagar	Dasada	Dhama	Dug Well	8.26	2575	1725	0	524	433	10	180	**1.60**	430	64	63	420	299	147.0	6.34	**16**
517	W232100071393001	Surendranagar	DASADA	Jhinjhuwada	Dug Well	8.18	860	576	0	366	85	3	23	0.90	300	40	29	220	106	12.9	3.11	4
518	W231115071450001	Surendranagar	DASADA	Kharaghoda	Dug Well	6.67	**54000**	36180	0	159	**24318**	**55**	2205	0.68	130	1360	3927	####	8125	46.0	25.27	6
519	W230015071444501	Surendranagar	DASADA	Kherwa	Dug Well	8.05	2170	1454	0	281	440	1	189	1.05	230	96	49	440	285	7.1	5.91	2
520	W232030071440001	Surendranagar	DASADA	Visawadi	Dug Well	8.13	1875	1256	0	439	355	9	51	1.15	360	52	34	270	304	12.5	8.04	9
521	W230722071284701	Surendranagar	Dhangadhara	Kukavati	Dug Well	8.24	669	448	0	281	71	3	6	0.93	230	48	21	210	61	2.8	1.83	3
522	W225030071353001	Surendranagar	DHRANGADHRA	Rajsitapur	Dug Well	8.25	896	600	0	464	71	5	6	0.70	380	24	15	120	172	4.8	6.83	1
523	W225130071161501	Surendranagar	DHRANGADHRA	Ratanpur1	Dug Well	8.15	3017	2021	0	378	625	35	271	**3.52**	310	96	117	720	369	2.1	5.98	2
524	W230030071170001	Surendranagar	HALVAD	Sukhpar1	Dug Well	8.03	2964	1986	0	512	525	**165**	153	1.15	420	64	53	380	499	1.5	11.13	8
525	W225130071470001	Surendranagar	LAKHTAR	Lakhtar	Dug Well	8.28	864	579	0	244	135	0	9	**1.55**	200	40	12	150	118	9.9	4.19	2
526	W224315071511502	Surendranagar	LAKHTAR	Tavi1	Dug Well	8.06	2768	1855	0	110	738	6	217	0.50	90	104	19	340	477	5.7	11.25	3

527	W224000071494501	Surendranagar	LIMBDI	Shiyani	Dug Well	8.24	**4874**	3266	0	305	**1065**	**60**	561	0.85	250	240	85	950	670	5.3	9.45	1
528	W223900071280001	Surendranagar	MULI	Muli	Dug Well	8.25	2461	1649	0	622	398	44	96	**2.20**	510	40	27	220	460	0.7	13.48	4
529	W224431071154201	Surendranagar	Muli	Nava Raisangpur	Dug Well	8.09	2996	2007	0	293	639	**80**	250	0.20	240	166	24	500	450	0.7	8.75	4
530	W224400071220001	Surendranagar	MULI	Sarla	Dug Well	8.27	1348	903	0	366	199	28	25	0.85	300	56	32	270	168	27.7	4.45	1
531	W222245071210001	Surendranagar	SAYLA	Dhandhalpur	Dug Well	8.24	2020	1353	0	525	312	**80**	84	**2.20**	430	40	19	180	393	6.1	12.74	5
532	W222715071290601	Surendranagar	Sayla	Sudamda	Dug Well	7.80	**3557**	2383	0	256	809	**215**	164	0.22	210	296	330	1080	290	2.4	3.84	**13**
533	W224837071422101	Surendranagar	Wadhvan	Anindra	Dug Well	8.04	654	438	0	244	64	2	19	1.40	200	52	19	210	49	6.0	1.47	2
534	W224630071440001	Surendranagar	WADHWAN	Dedadra	Dug Well	7.72	1714	1148	0	610	192	19	71	0.93	500	80	17	270	274	10.5	7.25	2
535	W224847071362901	Surendranagar	Wadhvan	Latuda	Dug Well	8.14	2622	1757	0	537	440	21	200	1.00	440	56	83	480	323	111.2	6.41	3
536	W224300071363001	Surendranagar	WADHWAN	Surendranagar2	Dug Well	8.16	2556	1713	0	451	497	30	146	0.55	370	64	63	420	385	3.3	8.17	2
537	W230624071290301	Surendranagar	Dhangadhara	Ghansyam Gadh	Dug Well	8.25	335	224	0	171	36	2	2	0.30	140	32	10	120	35	2.1	1.39	3
538	W225846071003201	Surendranagar	Halvad	Juna Devliya 1	Dug Well	7.29	1179	790	0	342	163	6	72	0.73	280	44	41	280	145	8.3	3.77	nd
539	W225253071440801	Surendranagar	Lakhtar	Modhvana	Dug Well	8.14	790	529	0	220	114	2	46	0.40	180	44	21	200	89	9.0	2.74	2
540	W222515071063701	Surendranagar	Chotila	Moti Moladi	Dug Well	7.70	**4850**	3250	0	232	**1278**	**145**	256	0.58	190	496	195	2040	166	0.5	1.60	4
541	W225507071514801	Surendranagar	Lakhtar	Olak	Dug Well	8.28	767	514	0	232	121	7	9	0.55	190	36	29	210	78	8.5	2.34	2
542	W230336071440301	Surendranagar	Dasada	Pipli	Dug Well	8.26	728	488	0	220	92	10	66	0.70	180	24	24	160	106	7.9	3.64	4
543	W204530073410001	The Dangs	The dangs	Ahwa1	Dug Well	7.86	972	651	0	268	121	31	55	0.35	220	88	27	330	67	11.0	1.60	3
544	W203830073413001	The Dangs	The dangs	Bari pada	Dug Well	7.80	346	232	0	183	36	12	33	0.25	150	52	15	190	26	0.3	0.82	3
545	W204840073301501	The Dangs	The dangs	Bori gaotha	Dug Well	7.92	439	294	0	244	21	10	24	0.15	200	56	27	250	6	0.2	0.16	2
546	W203930073411501	The Dangs	The dangs	Chikhli	Dug Well	7.85	363	243	0	195	14	6	15	0.20	160	44	19	190	5	0.4	0.16	2
547	W204830073331001	The Dangs	The dangs	Chinchnogaotha	Dug Well	7.88	696	466	0	281	64	**75**	12	0.35	230	80	24	300	44	0.2	1.10	2
548	W203845073473001	The Dangs	The dangs	Dhumkal	Dug Well	7.66	371	249	0	171	21	1	22	0.35	140	40	15	160	16	0.7	0.55	1
549	W204800073441501	The Dangs	The dangs	Ghubita	Dug Well	7.96	397	266	0	195	21	1	99	0.25	160	44	39	270	11	0.1	0.29	1
550	W203800073444501	The Dangs	The dangs	Jakana	Dug Well	7.96	609	408	0	232	43	36	28	0.20	190	64	24	260	23	0.8	0.62	2
551	W203600073444501	The Dangs	The dangs	Malegaon	Dug Well	7.97	393	263	0	195	50	10	17	0.10	160	44	15	170	40	0.5	1.33	2
552	W204815073364501	The Dangs	The dangs	Nadak khadi	Dug Well	7.99	425	285	0	244	28	16	15	0.25	200	48	7	150	55	0.2	1.95	2
553	W204200073350001	The Dangs	The dangs	Nana pada	Dug Well	8.02	367	246	0	220	21	1	21	0.20	180	40	15	160	34	0.5	1.17	2
554	W205200073370001	The Dangs	The dangs	Sodmal	Dug Well	8.06	424	284	0	244	28	1	17	0.30	200	48	17	190	32	0.1	1.01	2
555	W205520073345001	The Dangs	The dangs	Subir	Dug Well	8.02	480	322	0	256	36	6	10	0.20	210	52	19	210	31	0.7	0.93	2
556	W204100073433001	The Dangs	The dangs	Umberpada	Dug Well	8.04	459	308	0	220	36	14	29	0.10	180	60	15	210	29	0.1	0.87	2
557		The Dangs	The dangs	Amba Pada	Dug Well	7.78	318	213	0	183	21	4	9	0.35	150	36	15	150	20	1.1	0.71	2
558	W204310073332501	The Dangs	The dangs	Sakarpatal	Dug Well	8.01	374	251	0	207	36	3	18	0.20	170	44	12	160	38	0.4	1.31	2
559	W205242073310601	The Dangs	The dangs	Vazat Amba	Dug Well	8.10	463	310	0	244	36	8	7	0.10	200	52	22	220	21	0.2	0.62	2

560	W204550073301601	The Dangs	The Dang	Waghai	Dug Well	8.06	481	322	0	268	36	1	10	0.25	220	56	15	200	38	1.4	1.17	2
561	W222300073560001	Vadodara	CHHOTA UDAIPUI	Asala	Dug Well	7.99	928	622	0	134	135	**55**	143	0.63	110	88	43	400	45	1.0	0.98	nd
562	W221830074010002	Vadodara	CHHOTA UDAIPUI	Chhota udepur	Dug Well	8.39	1358	910	108	405	99	7	45	**2.36**	512	84	31	340	171	6.1	4.03	2
563	W222200074123001	Vadodara	CHHOTA UDAIPUI	Ferkuva	Dug Well	8.21	1058	709	0	378	106	40	38	0.50	310	128	31	450	39	7.7	0.80	3
564	W222200074043001	Vadodara	CHHOTA UDAIPUI	Ghamodi	Dug Well	8.24	410	275	0	207	28	2	21	1.19	170	44	12	160	35	1.4	1.20	1
565	W223100073563001	Vadodara	CHHOTA UDAIPUI	Kevadi	Dug Well	8.18	510	342	0	232	43	2	34	1.19	190	48	17	190	47	0.6	1.48	3
566	W221340073290001	Vadodara	DABHOI	Amreshwar	Dug Well	8.28	1363	913	0	390	213	5	71	0.60	320	84	29	380	149	8.9	3.32	2
567	W220934073244501	Vadodara	DABHOI	Vega	Dug Well	9.01	3039	2036	300	122	603	7	125	**1.92**	600	100	168	950	300	7.8	4.23	**12**
568	W222030073500001	Vadodara	JETPUR PAVI	Pavi	Dug Well	8.28	2779	1862	0	439	567	9	224	1.15	360	120	168	1000	190	6.7	2.61	1
569	W221730073464501	Vadodara	JETPUR PAVI	Suskal	Dug Well	8.28	644	431	0	195	64	**52**	12	0.34	160	60	17	220	40	2.6	1.17	1
570	W220040074050001	Vadodara	KAVANT	Moti chikhali	Dug Well	7.99	639	428	0	305	43	17	26	**1.94**	250	60	26	260	45	0.6	1.21	2
571	W221200074023001	Vadodara	KAVANT	Panwad	Dug Well	7.85	1589	1065	0	500	248	38	3	0.77	410	156	38	550	97	28.5	1.80	1
572	W220215073531501	Vadodara	NASVADI	Sengpur	Dug Well	8.08	596	399	0	256	43	34	23	0.65	210	68	24	270	25	0.8	0.66	2
573	W220830072543001	Vadodara	PADRA	Masor	Dug Well	8.61	1780	1193	168	354	92	11	204	**2.90**	570	20	36	200	336	1.9	10.33	7
574	W221500073430001	Vadodara	SANKHEDA	Alladpur	Dug Well	8.27	1460	978	0	598	128	10	61	1.06	490	78	65	460	132	3.6	2.68	2
575	W221615073430001	Vadodara	SANKHEDA	Bodeli	Dug Well	8.02	1336	895	0	317	213	35	37	0.40	260	60	19	230	185	0.5	5.30	1
576	W221240073442901	Vadodara	SANKHEDA	Govindpura	Dug Well	7.89	**6132**	4108	0	476	**1702**	38	154	0.24	390	180	55	1600	650	5.2	7.07	1
577	W221330073404501	Vadodara	SANKHEDA	Makni	DCB	7.96	1591	1066	0	403	184	**90**	128	0.43	330	80	89	570	106	10.0	1.93	8
578	W221515073383001	Vadodara	SANKHEDA	Pitha	Dug Well	8.24	2130	1427	0	781	284	22	16	1.10	640	84	96	610	200	30.0	3.52	7
579	W224000073190001	Vadodara	SAVLI	Chhaliyar	Dug Well	8.38	870	583	84	159	50	9	110	1.00	270	36	53	310	72	1.1	1.78	1
580	W223015073170001	Vadodara	SAVLI	Juna samalya	Dug Well	8.27	1800	1206	0	451	284	**75**	42	1.18	370	48	67	400	222	37.0	4.83	1
581	W223600073140001	Vadodara	SAVLI	Rasulpur	Dug Well	8.15	1566	1049	0	476	277	31	15	0.50	390	80	41	370	196	25.0	4.43	4
582	W222900073121001	Vadodara	SAVLI	Tundav	Dug Well	8.26	1018	682	0	366	99	44	72	0.40	300	44	60	360	46	77.0	1.05	4
583	W224450073212001	Vadodara	SAVLI	Vejpur2	Dug Well	8.98	937	628	108	73	113	3	90	0.30	240	24	31	190	142	39.0	4.48	1
584	W215445073203001	Vadodara	SINOR	Sinor	Dug Well	8.22	1277	856	0	525	121	7	42	0.44	430	64	89	530	57	4.1	1.08	nd
585	W221630073263001	Vadodara	VAGHODIA	Patiyapura	Dug Well	8.23	1434	961	0	464	184	**55**	73	0.80	380	84	82	550	99	6.2	1.84	3
586	W221700073301001	Vadodara	VAGHODIA	Saidal	Dug Well	7.93	**5132**	3438	0	427	**1028**	**130**	545	0.80	350	220	278	1700	365	88.8	3.85	4
587	W221736073115401	Vadodara	Vadodara City	Kevada Bag	Dug Well	8.64	1594	1068	132	317	149	30	114	1.34	480	24	34	200	294	6.3	9.04	7
588	W221609073124601	Vadodara	Vadodara City	ONGC	Dug Well	8.36	**3387**	2269	84	573	638	5	187	1.34	610	100	108	700	471	5.1	7.74	3
589	W203100073171501	Valsad	DHARAMPUR	Awadha	Dug Well	8.01	508	340	0	256	36	3	14	0.10	210	52	22	220	27	0.1	0.79	2
590	W203130073102001	Valsad	DHARAMPUR	Dharampur3	Dug Well	7.96	687	460	0	281	78	2	17	0.25	230	56	29	260	47	0.1	1.27	2
591	W202800073093001	Valsad	DHARAMPUR	Lakadmal	Dug Well	8.20	428	287	0	146	43	2	6	0.55	120	40	15	160	14	0.8	0.48	3
592	W202030073130001	Valsad	KAPRADA	Kaparda	Dug Well	8.13	210	141	0	98	21	1	9	0.10	80	28	5	90	14	4.3	0.64	2

593	W202145072583001	Valsad	PARDI	Karwad	Dug Well	8.24	874	586	0	378	85	2	18	0.05	310	72	29	300	70	11.2	1.76	2
594	W203036072554101	Valsad	PARDI	Udwada	Dug Well	7.98	936	627	0	329	99	26	27	0.30	270	80	41	370	42	0.5	0.95	2
595	W201530072530001	Valsad	UMBERGAON	Dahli (bhilad)	Dug Well	8.17	843	565	0	366	78	15	27	0.20	300	76	34	330	56	0.1	1.34	2
596	W201930072503001	Valsad	UMBERGAON	Kanadu	Dug Well	8.19	494	331	0	232	36	1	8	0.35	190	48	19	200	24	0.4	0.74	2
597	W201300072503001	Valsad	UMBERGAON	Tumb	Dug Well	8.25	764	512	0	342	71	0	35	0.70	280	44	39	270	69	2.2	1.83	2
598	W203800073013001	Valsad	VALSAD	Muli1	Dug Well	8.11	2423	1623	0	342	447	2	280	0.65	280	56	61	390	379	2.2	8.34	2
599	W201130072450001	Valsad	UMBERGAON	Umargaon	Dug Well	8.12	934	626	0	329	107	14	15	0.15	270	56	39	300	69	5.3	1.73	3