केन्द्रीय भूमि जल बोर्ड

जल संसाधन, नदी विकास और गंगा संरक्षण

विभाग, जल शक्ति मंत्रालय

भारत सरकार

Central Ground Water Board

Department of Water Resources, River Development and Ganga Rejuvenation,

Ministry of Jal Shakti

Government of India

AQUIFER MAPPING AND MANAGEMENT OF GROUND WATER RESOURCES

PUNE DISTRICT
MAHARASHTRA

मध्यक्षेत्र, नागपुर

Central Region, Nagpur

AQUIFER MAPS AND GROUND WATER MANAGEMENT PLANS, PUNE DISTRICT, MAHARASHTRA

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PUNE DISTRICT AT A GLANCE

1. GENERAL INFORMATION				
	Geographical Area	:	15642 sq. km	
	Administrative Divisions (As on 31/03/2012)		Taluka- 14; Pune City, Haveli, Khed, Ambegaon, Junnar, Shirur, Daund, Indapur, Baramati, Purandhar, Bhor, Velhe, Mulshi and Maval	
	Towns / Villages /Grampanchayat	:	19 / 1877 / 1407	
	Population (Census, 2011)	:	94,29,408	
	Average Annual Rainfall	:	468 mm to 4659 mm	
2. GEOMORPHOLOGY				
	Major Physiographic unit	:	Western Ghats, Foot Hills, Central Plateau and Eastern Plains	
	Major Drainage	:	Krishna River Basin, Bhima Sub-basin (Bhima-Ghod, Mula-Mutha & Nira)	
3. LAND USE (2010-11)				
	Forest Area	:	1718.09 sq. km.	
	Net Area Sown	:	9917.87 sq. km.	
	Cultivable Area	:	11729.52 sq. km.	
4. SOIL TYPE				
	Medium to deep black soil and deep brown to red soil (Regur).			
5. PRINCIPAL CROPS (2016-17)				
	Paddy	:	730 sq. km.	
	Wheat	:	601 sq. km.	
	Jowar, Bajra, Maize, Ragi etc Cereals	:	3638 sq. km.	
	Pulses	:	765.93 sq. km.	
	Oil Seeds	:	578 sq. km.	
	Sugarcane	:	1306.21 sq. km.	
	Fruits		137 sq. km.	
	vegetables		890 sq. km.	
6. IRRIGATION BY DIFFERENT SOURCES (2006-07)				
	Structure		Nos.	Potential Created (ha)
	Dugwells	:	129745	145550
	Tubewells/Borewells	:	7986	
	Surface Flow Schemes	:	11907	
	Lift Irrigation Schemes	:	1954	
	Net Irrigated Area	:	3,20,00 ha	
7. GROUND WATER MONITORING WELLS (As on 31/05/2019)				
	Dugwells	:	42	
	Piezometers	:	1	
8. GEOLOGY				
	Upper Cretaceous-Lower Eocene	:	Basalt (Deccan Traps)	
9. HYDROGEOLOGY				
	Water Bearing Formation	:	Basalt- Weathered/fractured/ jointed vesicular/massive, under phreatic and semi-confined to confined conditions.	

			Alluvium- Sand and Gravel, under semi-confined to confined conditions.
	Pre-monsoon Depth to Water Level (May-2017)	:	0.90 to30.35 m bgl
	Post-monsoon Depth to Water Level (Nov.-2017)	:	Ground level to 25.2 m bgl
	Pre-monsoon Water Level Trend (2008-2017)	:	Rise: 0.0001 to 0.750 m/year Fall: 0.0116 to 0.42 m/year
	Post-monsoon Water Level Trend (2008-2017)	:	Rise: 0.0012 to 1.588 m/year Fall: 0.0028 to 0.6992 m/year
10. GROUND WATER EXPLORATION (2018)			
	Wells Drilled	:	EW-102, OW-41
	Depth Range	:	Down to 201.30 m bgl
	Discharge	:	Negligible to 30.62 lps
11. GROUND WATER QUALITY			
	Good and suitable for drinking and irrigation purposes. However localized Nitrate Contamination is observed.		
	Type of Water	:	Basalt- Ca-$HCO_3$and Ca-Cl
12. DYNAMIC GROUND WATER RESOURCES (2013)			
	Net Annual GW availability	:	1740.09 MCM
	Total Draft (Irrigation + Domestic)	:	1285.39 MCM
	Net GW availability for future irrigation	:	442.34 MCM
	Stage of GW Development	:	73.87%
13. AWARENESS AND TRAINING ACTIVITY			
A	Mass Awareness Programme	:	Yet to be taken up
B	Water Management Training Programme	:	1
C	Training programme on aquifer management	:	1
14. ARTIFICIAL RECHARGE & RAINWATER HARVESTING			
	Projects completed	:	Nil
	Projects under technical guidance	:	Nil
15. GROUND WATER CONTROL & REGULATION			
	Over-Exploited Taluka	:	Nil
	Semi-Critical Taluka	:	Baramati and Purandar
	Notified Taluka	:	Nil
16. MAJOR GROUND WATER PROBLEMS AND ISSUES			

	About 50 % area of Pune district is falling under 'Rain Shadow' zone. Long term rain fall data analysis reveals that eastern, southern, south-eastern, central and north-central part area of district around Indapur, Baramati, Jejuri, Daund, Talegaon, Dhamdhare, Alandi, Shirur and Bhor covering about 50% geographical area experiences drought conditions. Therefore, these areas are classified as Drought Prone Areas. Decadal pre-monsoon water level trend (2009-18) reveals that by and large, during pre-monsoon periods 65 % of the area and during post monsoon period, 68 % of the area is showing fall in water levels. Falling trend of water level is observed in major parts of Pune City, Haveli, Khed, Junnar, Daund, Indapur, Baramati, Purandhar, Bhor, Velhe, Mulsi and Maval Talukas of the district.

AQUIFER MAPS AND GROUND WATER MANAGEMENT PLANS,
PUNE DISTRICT, MAHARASHTRA

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PUNE DISTRICT

1.0 Introduction

Pune is the second largest district of Maharashtra State in respect of area. The district has a geographical area of 15642 sq. km., which is 5.08% of the total area of State. It is situated in the western part of the State and lies between north latitude 17°54' and 19°24' and east longitudes 73°29' and 75°10' and falls in parts of Survey of India degree sheets 47-E, 47-F, 47-I, 47-J, 47-K, 47-N and 47-O. It is bounded by Ahmadnagar district in the north and east, Satara and Solapur districts in south and south east respectively and Thane and Raigarh districts in North West and west respectively. For administrative convenience it is divided in 14 talukas namely Pune City, Haveli, Khed, Ambegaon, Junnar, Shirur, Daund, Indapur, Baramati, Purandhar, Bhor, Velhe, Mulsi and Maval. The district headquarters is located at Pune City. The population of the district is 94, 29,408 as per 2011 census with density of 603 persons/sq.km. There are 19 towns and 1877 villages in the district, out of which 18 villages are not habited. The district has 13 Panchayat Samitis, 11 Nagar Parishads, 2 Municipal Corporation and 1407 Gram Panchayats. National Highway No.4 (Mumbai-Bangalore, National Highway No.9 (Pune-Solapur- Hyderabad) and National Highway No. 50 (Pune-Nashik) passes through the district. Also, Mumbai - Pune Expressway connects Mumbai and Pune, passess through the Khandala and Lonavala. The urban areas of Pune District ares well-connected to a major Indian cities like Mumbai, Bhusaval, Howrah, Patna, Nizamabad, Manmad, Delhi and Jammu via a dense railway network. Pune railway division is one of the five railway divisions of Central Railway (India) Zone of Indian Railways.

As per land use details (2014-15), the forest cover area of the district is 1846.10 sq.km, which is about 11.43% of total geographic area of the district. The gross cultivable area of district is 10576 sq.km whereas net sown area is 9920 sq.km (2010-11).

Since 1964, Central Ground Water Board has taken up several studies in the district.Keeping in view the current demand and supply and futuristic requirement of water, Central Ground Water Board has initiated the National Aquifer Mapping Programme (NAQUIM) in country during XII five-year plan, with a priority to study Over-exploited, Critical and Semi-Critical talukas. Hence, Pune district has been taken up to carry out detailed hydrogeological investigations in the years 2016-17, 2017-18, 2018-19. Pune district is categorized as safe as per Ground Water Resources Estimation as on March 2013. Two Talukas namely Baramati and Purandhar are categorized as "Semi-Critical" where stage of ground water development is computed as 95.37% and 92.10 % respectively, while rest of the Talukas are categorized as "Safe".The Administrative and Index map of the study area is presented in **Fig.1.1 a & 1.1b**.

Figure 1 .1a: Index map, Pune District

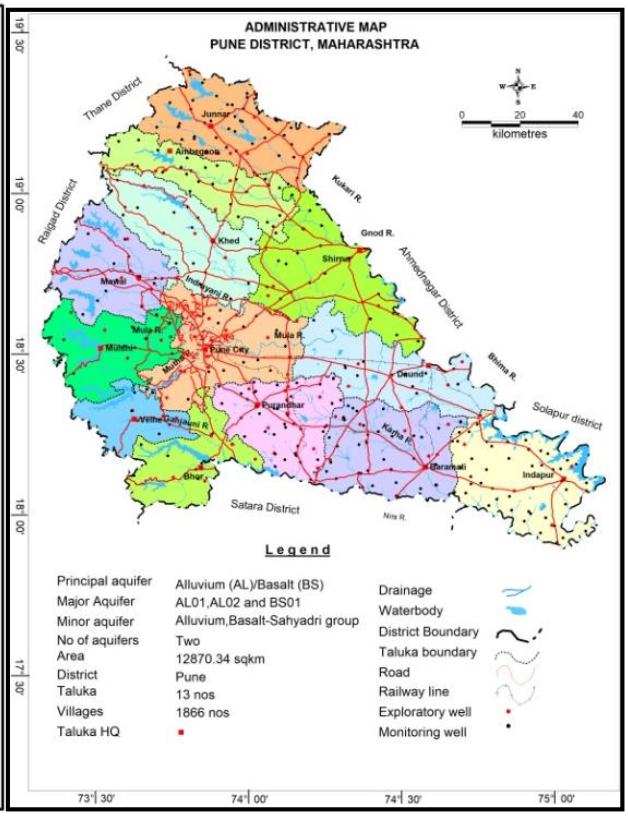


Figure 1.1b: Administrative map, Pune District

Ground water exploratory drilling in the district has been taken up in different phases since 1994. The ground water exploration has been done in hard rock areas occupied by Deccan Trap Basalt. To establish the aquifer geometry, disposition and potential of aquifers,ground water exploration down to the depth of 200 m bgl has been taken up where the data gap exists and accordingly 14exploratory wells and 5 observation wells have been constructed during 2015-16, 7 exploratory wells and 3 observation wells have been constructed during 2017-18 and 14 exploratory wells and 1 observation well have been constructed during 2018-19. A total of 102 EW, 41 OW and 3 Piezometers have been constructed till March 2019. Salient Features of Ground Water Exploration are given in **Annexure –I**

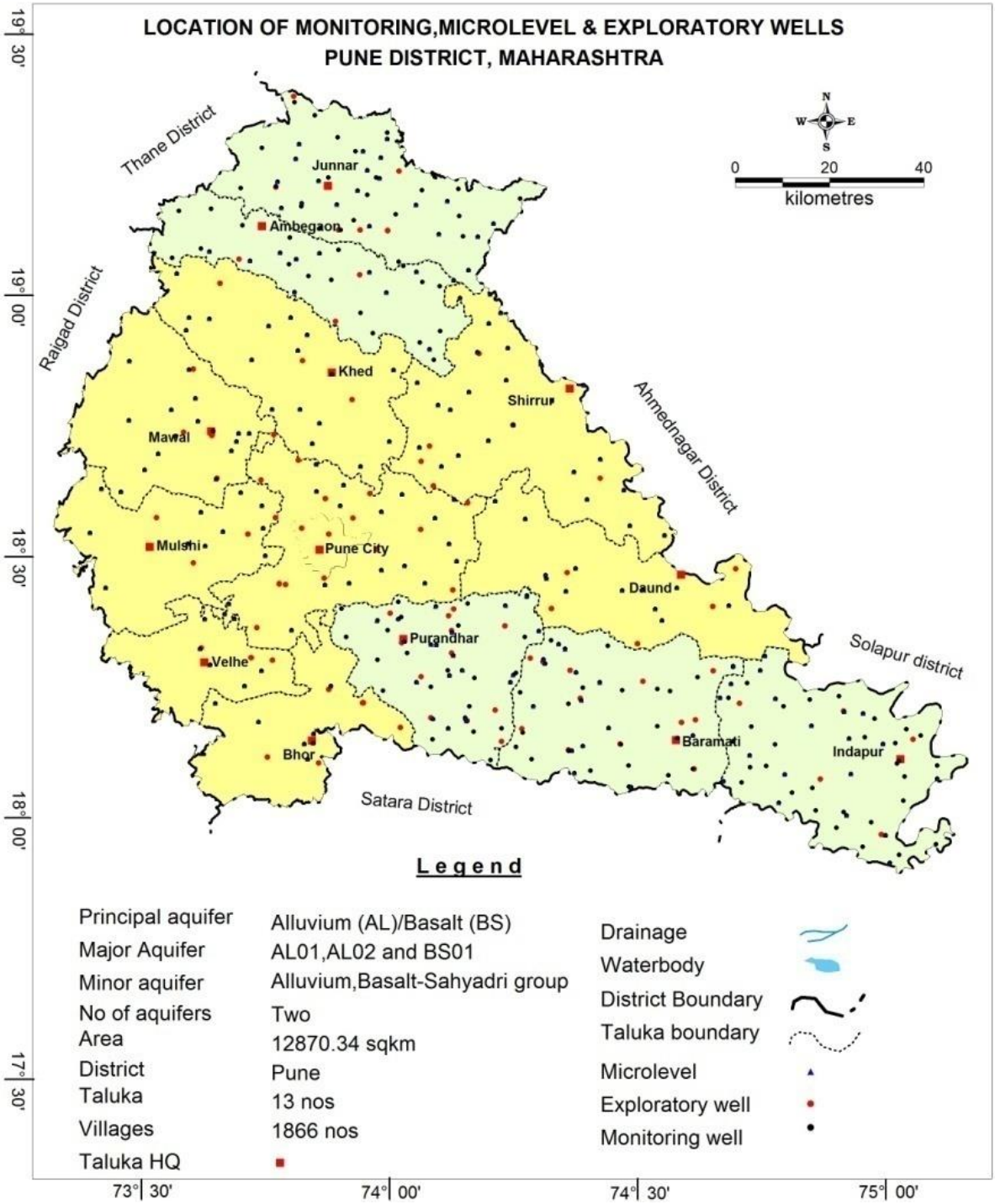
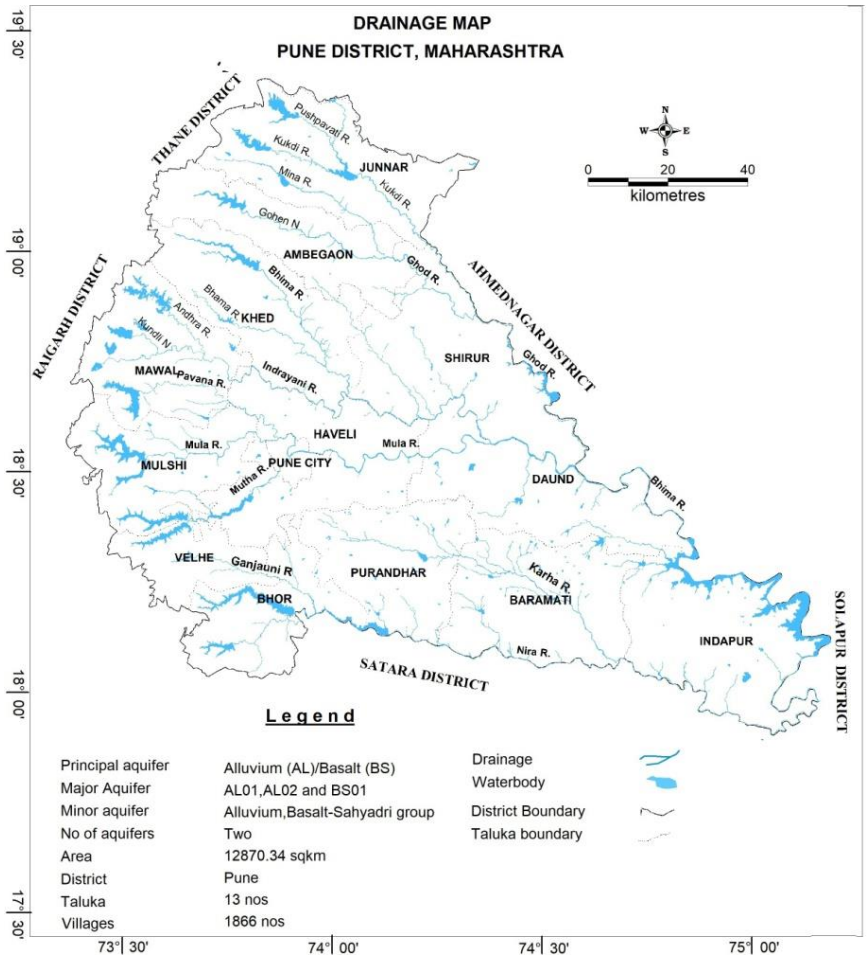


Figure 1.2: Locations of Existing Exploratory wells and Ground Water Monitoring Wells.

2.0 Physiography, Drainage and Soil Types

The district forms part of Western Ghat and Deccan Plateau. Physiographically the district can be divided in to four major characteristic land forms namely; (1) The hills and Ghats -Pune stands on the leeward side of the Western Ghats. The western belt stretching from 16 to 31 km east of Sahayadri is an extremely rugged country cut by deep valleys, divided and crossed by hill ranges. (2) The foot hills or the region of denudational origin witha series of small hills stretch in to valleys and large spurs from Plateaux (3) The Plateau or High Level Plateau (>900 mamsl) and Middle Level Plateau (600-900 mamsl)- the central belt extending for about 30 km east of western belt across the tract whose eastern belt is roughly marked by a line drawn from Pabal in the north to south up to Purandhar through Pune and the eastern belt with a rolling topography and low hills sinking slowly in to the plains with relatively broader valleys and(4) The Plains or Older Flood Plain (513-560 mamsl), The western part of the area is occupied by hills, the central part by hillocks and the eastern part by nearly plain terrain with few isolated mounds, dissected by valleys of Karha River and other tributaries of Nira River. The heights of the hillocks vary between 100 to 150 m above the ground level. The minimum elevation in the area is 516 m above mean sea level and the maximum being 1403 m above m.s.l. (Torna, Velhe taluka).

The district comes under Krishna River Basin and is drained by River Bhima and its tributaries. Bhima, the main tributary of Krishna rises in the Sahyadri mountains (Bhima Shankar Hill) in the district and flows east. The tributaries of Bhima are are Pushpavati, Krushnavati, Kukadi river, Meena, Ghod River, Bhama, Andhra, Indrayani river, Pavna River, Mula river, Mutha river, Ambi, Mose, Shivganga, Kanandi, Gunjavni, Welvandi river, Nira river, Karha river, and Velu.The district has three major drainage systems namely (i) The Bhima-Ghod River System in northern,north-eastern and eastern part, of which Bhima River has a total length of about 355 km and Ghod river has a drainage of about 196 km. (ii) Mula-Mutha River System covering the central part and having total length of 242 km in the district. (iii) Nira River system covering south, south-east and eastern part and has total length of about 231 km in the district. At least one river flows through each taluka. All the rivers mostly have semi-dendritic drainage pattern and the



drainage density is quite high. These rivers are flooded in the rainy season and are dry in the summer season. Based on geomorphological setting and drainage pattern the district is divided into 71 watersheds.

The soils of Pune district are the product of weathering of basalts controlled by climate. In general they are clayey loam in texture and fairly high in calcium carbonate, high porosity but moderate to low permeability, thus having low to moderate infiltration capacity. Based on physical characteristics the soils of the area have been classified into three major groups: Medium black soil, Red Sandy soils and Shallow black soils. The black soil in layers of several feet deep is found in eastern parts, i.e. Khed, Shirur, Daund, and Purandar talukas and the whole of Baramati and Indapur Talukas. This soil is suitable for Rabi crops such as wheat, gram, jowar, and sugarcane, as it retains moisture for a long time. The brown soil is shallower and coarser than black soil and is found in western parts, i.e. Shirur, Daund, and Purandar Talukas. The red soil is found in Junnar and Ambegaon Talukas and small part of Khed Taluka. Bajara, groundnut and chilies are grown in this soil.Soil suitable for paddy is available in Maval, Mulsi, Bhor, Velhe and western parts of Khed,Ambegaon and Junnar Talukas.

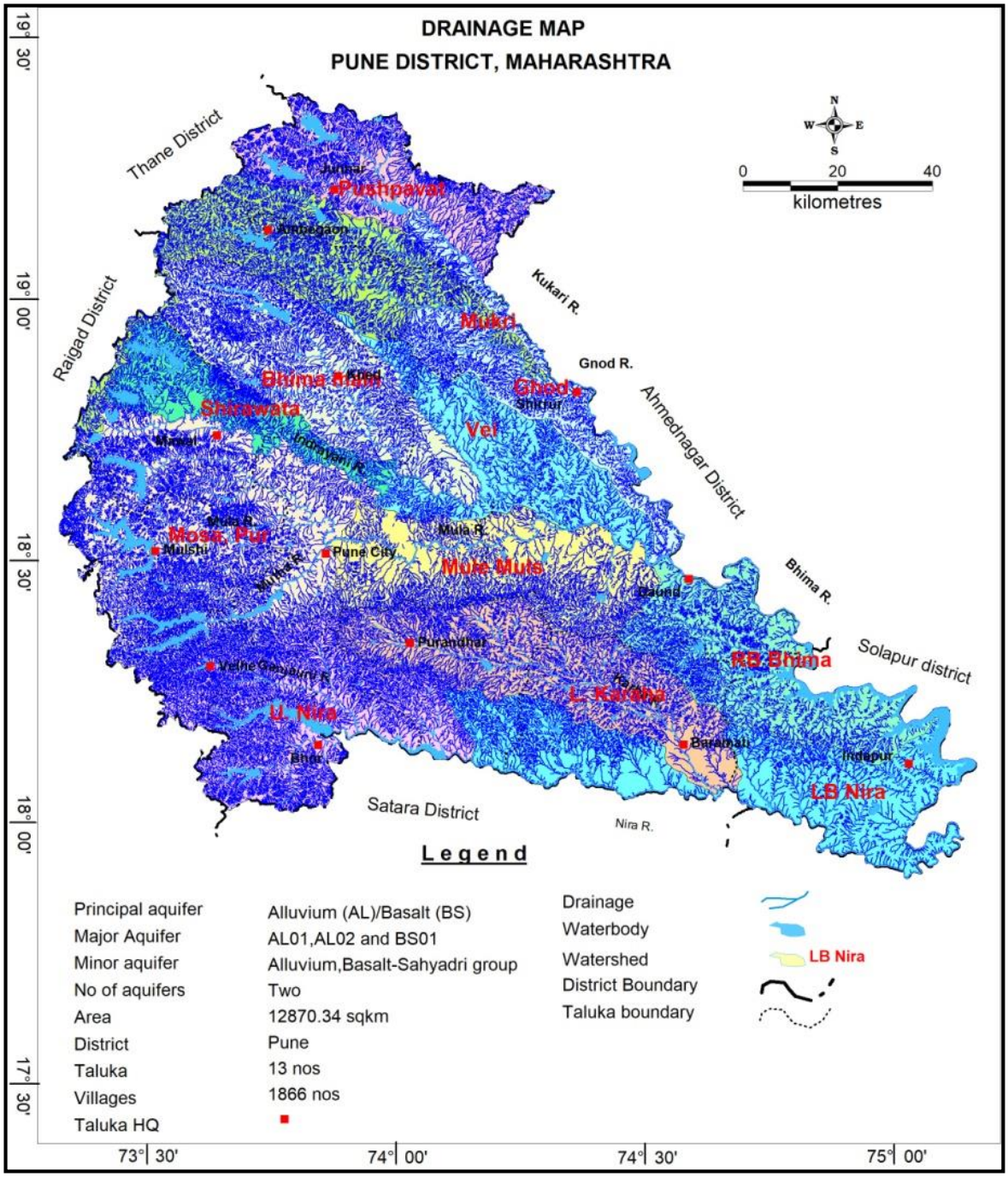


Figure 2.1: Drainage

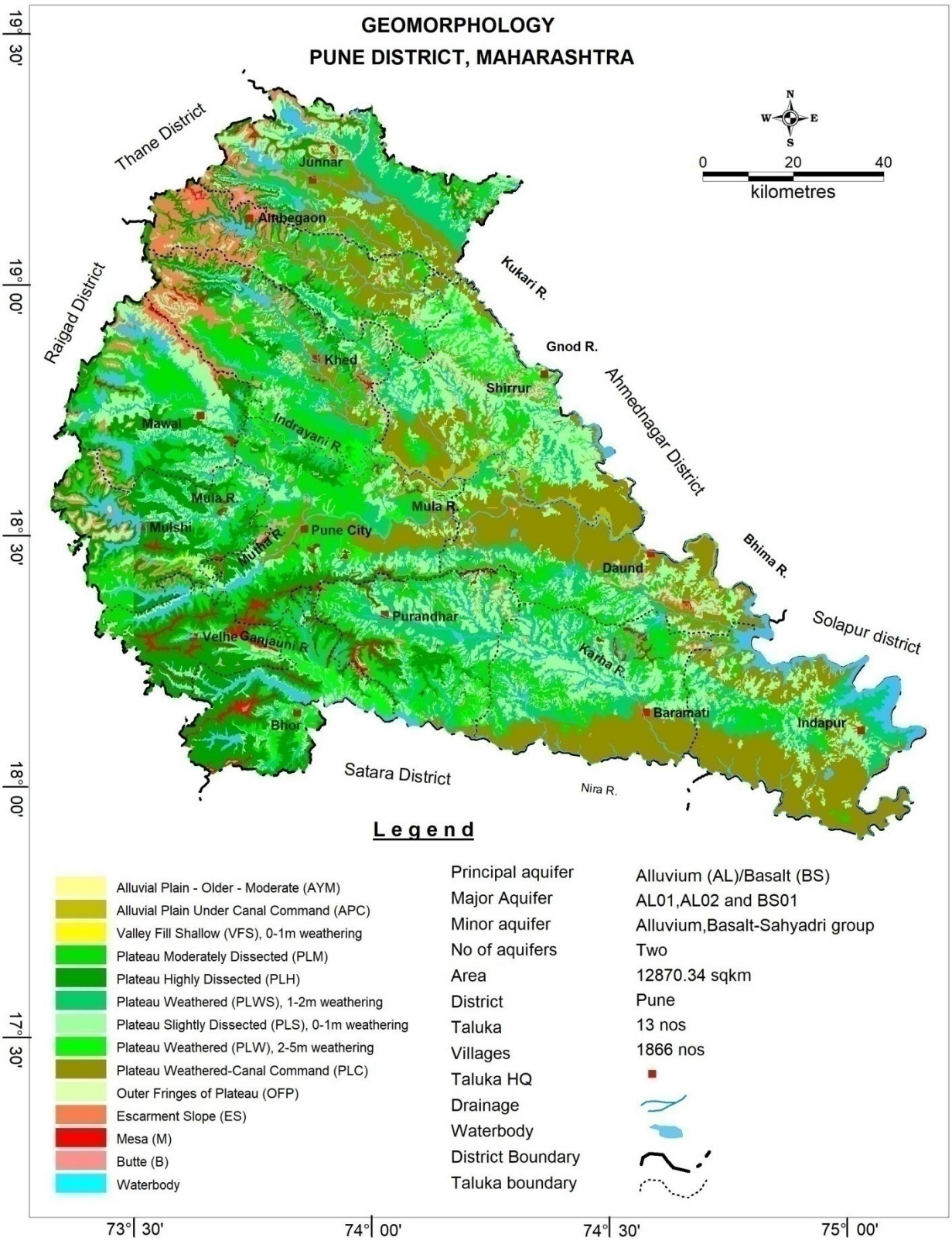


Figure 2.2: Geomorphology

3.0 Climate and Rainfall

The climate of Pune district is characterized by hot tropical climate with moderate summer, mild winter season and general dryness throughout the year except during the south-west

monsoon season, i.e., June to September. Temperature varies from 6.8 degree centigrade as minimum to 40 degrees centigrade. As per Agro-climatic Zones of the Agriculture Department, major part of Pune district falls under 'Assured Rainfall Zone'. The average rainfall is about 1000 mm.The drought prone areas in the extreme east receive rainfall of 500 to 600 mm. Taluka falling in the highest rainfall intensity zone (rainfall >1000 mm) are Velhe, Mulshi and Maval (Fig. 3.1). Physiography of this area shows a hilly and undulating terrain, with altitude ranging between 100 and 500 m above MSL. Taluka falling in the moderate rainfall intensity zone (rainfall between 500 and 1000 mm) is Bhor, Ambegaon, Junnar, Khed, Haveli, Pune city and Purandhar. Talukas with the lowest rainfall intensity, the dry and semi-arid zone (rainfall < 500 mm) are Shirur, Daund, Indapur and Baramati. The decline in the amount of rainfall towards the East is due to the Sahyadrian mountainous zone, which creates a rain shadow region hardly 100 km east of the divide. The Average annual rainfall (2009-2018) of the district is 946.21 mm spread over 30 to 90 rainy days. Long term rainfall analysis (1901-2018) and annual rainfall data of last ten years is given in **Table 3.1 and 3.2.**

Based on long term rainfall analysis it is observed that:

- The normal annual rainfall in the district varies between 477.4 mm in Daund taluka and 2531.8 mm in Velhe taluka.
- The coefficient of variation of the annual rainfall from the normal rainfall has been observed between 28% and 58%.
- The percentage of probability of receiving excess rainfall varies from 15 % at Maval taluka to 23 % at Baramati taluka.

Table 3.1: Long-term rainfall analysis

Taluka	Period	No of Years	Normal Rainfall	Std. Deviation	Coefficient of Variation	Rainfall Trend/Slope (mm/year)	Departures - Number of Years (% of Total Years)						
							Positive	Negative	Droughts			Normal & Excess R/F	
									Moderate	Severe	Acute	Normal	Excess
Ambegaon	1998 – 2018	21	804.6 mm	230 mm	29 %	3.499 mm/year	11 (52%)	10 (48%)	3 (14%)	1 (5%)	0 (0%)	12 (57%)	4 (19%)
Baramati	1901 – 2018	111	504.9 mm	170 mm	34 %	0.949 mm/year	49 (44%)	62 (56%)	20 (18%)	5 (5%)	1 (1%)	60 (54%)	25 (23%)
Bhor	1901 – 2018	105	1065.2 mm	302 mm	28 %	4.478 mm/year	45 (43%)	60 (57%)	16 (15%)	3 (3%)	0 (0%)	66 (63%)	20 (19%)
Daund	1901 – 2018	112	461.5 mm	230 mm	29 %	149 mm/year	53 (47%)	59 (53%)	25 (22%)	4 (4%)	0 (0%)	60 (54%)	23 (21%)
Haveli	1998 – 2018	21	670 mm	304 mm	40 %	17.081 mm/year	12 (57%)	9 (43%)	5 (24%)	1 (5%)	0 (0%)	6 (29%)	9 (43%)
Indapur	1920 – 2018	90	503.8 mm	208 mm	39 %	0.77 mm/year	44 (49%)	46 (51%)	16 (18%)	6 (7(%)	0 (0%)	12 (13%)	4 (4%)
Junnar	1901 – 2018	100	760.9 mm	238 mm	31 %	1.53 mm/year	47 (47%)	53 (53%)	17 (17%)	3 (3%)	0 (0%)	62 (62%)	18 (18%)
Khed	1901 – 2018	103	695.8 mm	208 mm	30 %	1.457 mm/year	47 (46%)	56 (54%)	20 (19%)	1 (1%)	0 (0%)	66 (64%)	16 (16%)
Maval	1901 – 2018	100	1292.3 mm	455 mm	35 %	6.872 mm/year	41 (41%)	58 (58%)	23 (23%)	2 (2%)	0 (0%)	60 (60%)	15 (15%)
Mulshi	1901 – 2018	115	1662.7 mm	552 mm	36 %	1.164 mm/year	56 (49%)	59 (51%)	21 (18%)	11 (10%)	0 (0%)	62 (54%)	21 (18%)

Taluka	Period	No of Years	Normal Rainfall	Std. Deviation	Coefficient of Variation	Rainfall Trend/Slope (mm/year)	Departures - Number of Years (% of Total Years)						
							Positive	Negative	Droughts			Normal & Excess R/F	
									Moderate	Severe	Acute	Normal	Excess
Pune City	1901 – 2018	118	669.4 mm	218 mm	31 %	1.184 mm/year	65 (56%)	52 (44%)	16 (14%)	2 (2%)	2 (2%)	69 (58%)	19 (16%)
Purandhar	1901 – 2018	103	556.4 mm	204 mm	35 %	0.685 mm/year	47 (46%)	56 (54%)	19 (18%)	5 (5%)	0 (0%)	58 (56%)	21 (20%)
Shirur	1901 – 2018	109	513.6 mm	162 mm	32 %	0.211 mm/year	46 (42%)	63 (58%)	23 (21%)	3 (3%)	0 (0%)	62 (57%)	21 (19%)
Velhe	1998 – 2018	21	2641.4 mm	1457 mm	58%	-45.629 mm/year	5 (24%)	16 (76%)	8 (38%)	1 (5%)	0 (0%)	8 (38%)	4 (19%)

NOTE: Rainfall departure: EXCESS: > +25; NORMAL: +25 to -25; MODERATE: -25 to -50; SEVERE: -50 to -75; ACUTE: < -75

Table 3.2: Annual rainfall data (2009-2018) (in mm)

Taluka	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Decadal Average
Pune City	909.7	1169	979.9	492.7	660.4	819.7	780.6	620.4	758.6	446.4	**763.74**
Haveli	909.7	1169	979.9	492.7	660.4	819.7	780.6	620.4	758.6	446.4	**667.93**
Mulshi	938.3	1147.8	979.6	505.4	661.4	373.9	423.3	385.5	558	333.6	**1835.01**
Bhor	1836.7	1592	1792	1438	2069.4	2014.2	1452.9	2099.5	2453.4	2221.2	**1325.58**
Maval	1213	1121	1129.3	833	1652.9	1625.6	1223.2	1888.9	1570.9	1516.4	**1760.51**
Velhe	1364.8	1168	1482	1013	2296	1945.1	1666.3	2374.4	2896	2381.2	**1987.63**
Junnar	1405	2043	2695.1	2070.4	2069.6	1812.4	1662.6	1832.2	1877	1674.8	**887.49**
Khed	706	862.3	769	557.1	1158.7	963	856.6	1121.3	1133.5	798	**748.58**
Ambegaon	639.6	1018.4	637.7	436.2	797.4	589.6	815.1	815.6	1043.6	618.6	**774.51**
Shirur	732.3	823.4	836	616.6	816.3	584.6	800.3	700.4	1100.2	511.6	**537.52**
Baramati	859.6	849.5	441.8	321	558.6	352.5	490.5	440	569.7	170.7	**487.51**
Indapur	738.8	804.6	291	235	504	417.6	399.4	447.5	583.2	244.4	**505.43**
Daund	932.4	805.8	399	250.6	506.4	400.5	338.3	470.7	605.2	240.8	**450.38**
Purandhar	474.3	639.3	347.6	337.4	574.9	372.6	371.4	441.3	618.3	160.5	**490.89**
District Average	806	602	609.4	371	572.2	371.3	388.8	270.2	421	358.1	**946.21**

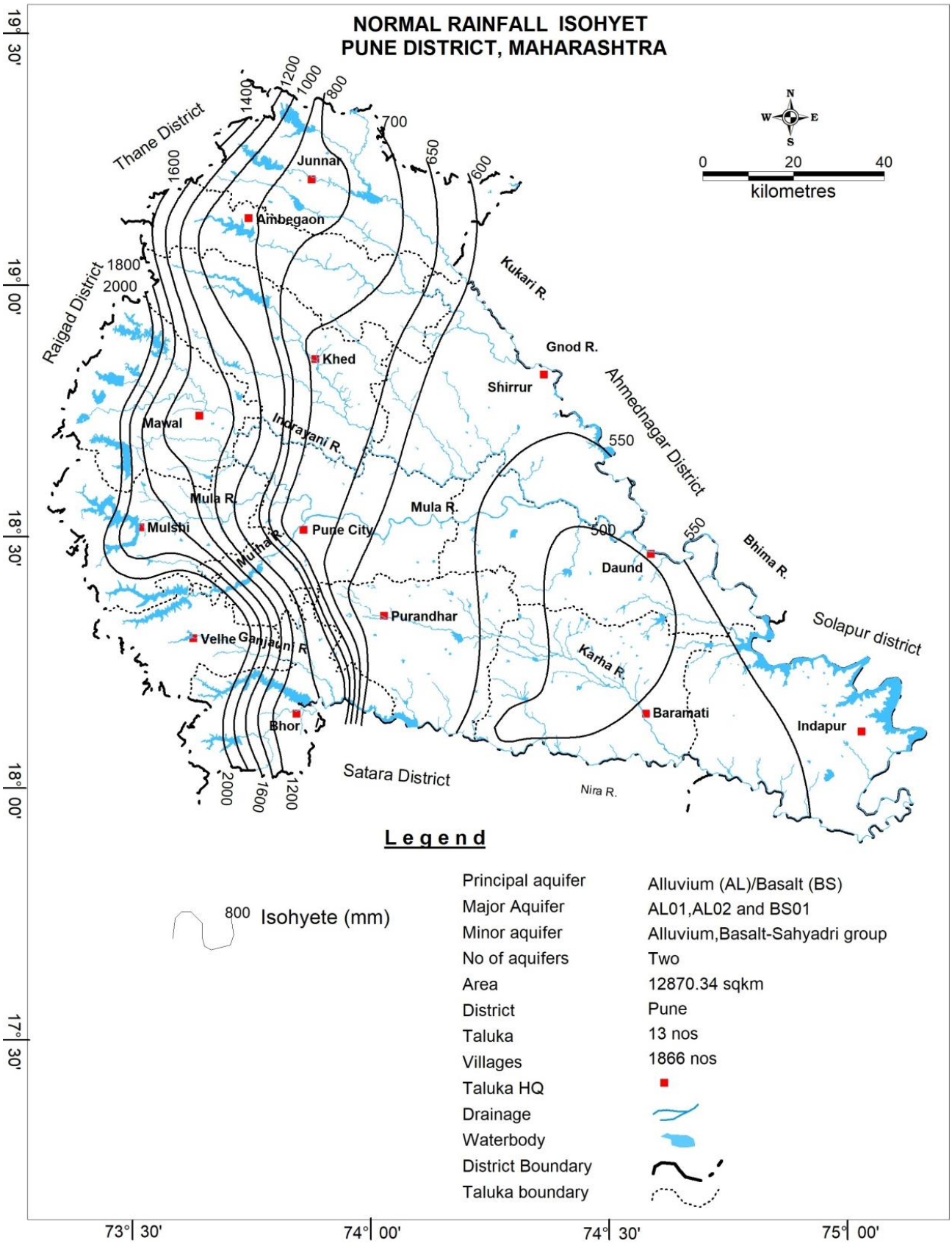


Figure 3.1: Average Annual Rainfall

4.0 Geology

Geologically, the area is divided into following two parts i.e., Deccan Trap and Older

Alluvium formation. The generalized geological sequence occurring in the Basin is given in **Table 4.1**.

Table 4.1:**Generalized Geological sequence, Pune district**

Age	Group	Sub-groups	Formation	Thickness in meters	Lithology
Quaternary (Recent to Sub-Recent) (> 1 million years)			Alluvium		Sand, silt and clay.
Upper Cretaceous to Eocene (30-60 million years)	North Sahyadri	Diveghat	Purandargad	300	Deccan Trap basalt with inter-trappeans. : Simple flows, aphyric to plagioclase microphyric
			Diveghat	350	Deccan Trap basalt with inter-trappeans. : Simple/ Aa flows, aphyric
		Lonavala	Karla	250	Deccan Trap basalt with inter-trappeans. : Fine grained, aphyric, pahoehoe flows
			Indrayani	125	Deccan Trap basalt with inter-trappeans. :a thick succession of 'Aa' flows - Aphyric to sparsely phyric flows
		Kalsubai	Upper and Lower Ratangarh	250	Deccan Trap basalt : compound pahoehoe flows Megacryst lava flow

Alluvium:

Alluvium, belonging to the Quaternary period forms a very productive aquifer in the district.The alluvial deposits are restricted as narrow belts along the banks of major river courses like Bhima and their tributaries. The alluvium occurs in patches in paleo depressions. These shallow alluvium deposits comprise of loose or semi-consolidated medium to coarse grained sands, gravels, fine silt with admixture of clays resting directly on the massive, weathered or amygdaloidal zones of the basaltic lava flows.

Deccan Trap Basalt:

Almost the entire district is underlain by Deccan Volcanic Basalts belonging to Sahyadri Group of Upper Cretaceous to Eocene age, comprises of various lava flows, which can be classified in the field into two types as simple and compound flows. The compound flows occur at lower elevations whereas the simple flows are confined to the elevation above 680 m. The compound flows although vesicular and amygdaloidal in nature, hard and compact in their middle sections. They are fractured and jointed, and show moderate degree of weathering at places. Each individual lava flow consists of lower massive part becoming

vesicular /amygdaloidal towards top, ranges in their individual thickness from a few centimeters to tens of meters. The flows have wide variation in colour and texture especially when they are amygdaloidal in nature with secondary mineral infillings such as Zeolites, calcite, and Agate and Chalcedony etc. The red /green/black bole beds constituting the marker horizons separating the two flows were discontinuous and generally inconsistent. The basalts are intruded by dykes and are found commonly in pahoehoe flows in the area. The dykes vary in thickness from one or two meters to as much as 10 meters and extend for long distances. The dykes display the joints parallel to the walls, at right angle to the walls besides horizontal ones, with chilled margins. The dykes act as barrier or as water conduits / pathways for the movement of groundwater flow depending on intensity of fracturing in the dyke rock. The location and orientation of the dykes with respect to the groundwater flow are very important.

The oldest Lower Ratangarh Formation comprising of two compound pahoehoe flows is restricted to the western boundary of the district while the Upper Ratangarh Formation consisting only of compound pahoehoe flows is restricted to the northwestern parts of Ghod valley and in the central part in the Bhima valley.

Indrayani Formation is characterized by the presence of compact, massive, porphyritic basalt. The phenocrysts are embedded in fine-grained groundmass. This formation is classified as Khandala Formation of Lonavala sub group based on geochemical consideration. Indrayani Formation lava flows are, generally jointed and highly weathered, occupy the low-lying flat plain areas and give rise to moderate to good aquifers.

Karla Formation essentially comprises of compound lava flows exhibiting the pahoehoe characters. Based on geochemical characters this formation has been classified as Bushe Formation. It is comprised of aphyric or sparsely plagioclase phyric compound flows. The flows are characterized by the presence coarse grained, altered, amygdaloidal basalt and near absence of plagioclase. From the ground water point of view this formation occupies the low-lying fiat plains and gives rise to moderate to good aquifers.

Diveghat Formation, overlying the Karla Formation is exposed on the hills and along the hill slopes above 700 m from msl. It comprises mainly of simple flows of ‘aa’ type that are aphyric. The lava flows of this formation are characterized by presence of vesicular, plagioclase basalt with medium-grained groundmass. From hydrogeological view point these flows occur on the hilly terrain and therefore not potential for groundwater.

Purandargad is the youngest formation characterized by the presence of aphyric to plagioclase microphyric basalt with the phenociysts embedded in a fine-grained groundmass. From hydrogeological point of view this formation is not very significant as it occupies the hills and hill slopes. This formation is not potential for the development of groundwater resources as it forms the runoff zone.

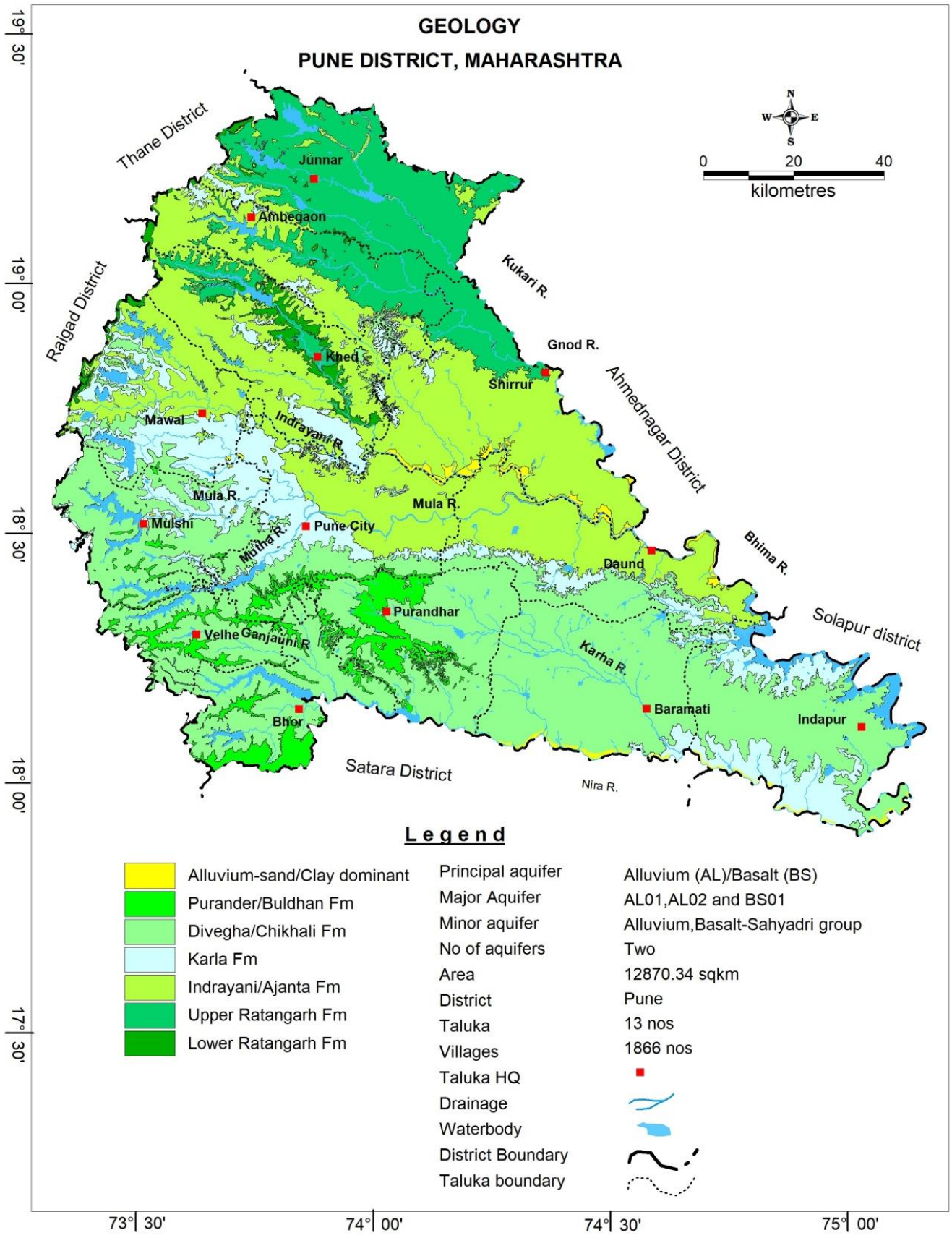


Figure 4.1: Geological Map

5.0 Major Aquifer Systems

Alluvium and Basalt aquifers are the main aquifers in the district. Two aquifer Systems in Basalt and one shallow aquiferin Alluvium (limed to river banks)are found to be prevailing in the district. (**Figure 5.1**)

Figure 5.1: Major Aquifers

5.1 Hydrogeology

Deccan Trap Basalt of upper Cretaceous to lower Eocene age is the major rock formation in the district, whereas only a very narrow belt confined to the banks of rivers is underlain by Recent Alluvium. A map depicting hydrogeological features is presented in **figure 5.2.**

In Alluvial deposits, inter pore spaces constitutes the potential water bearing zones and prevalence of sand and gravels renders them a high degree of porosity and permeability and make them a potential ground water reservoir. However, alluvium occurance is restricted to narrow belts along the banks of major river coursesand has limited depth. The older Alluvium, which is more clayey with thin horizons of sand and silt, forms a comparatively lesser potential aquifer. Ground water in Alluvium occurs mostly under water table and also under semi-

confined to confined conditions in certain places. Shallow Aquifer occurs from 2 to 32 m bgl depth with shallow water levels. The yield varies from 50-300 m^3/day.

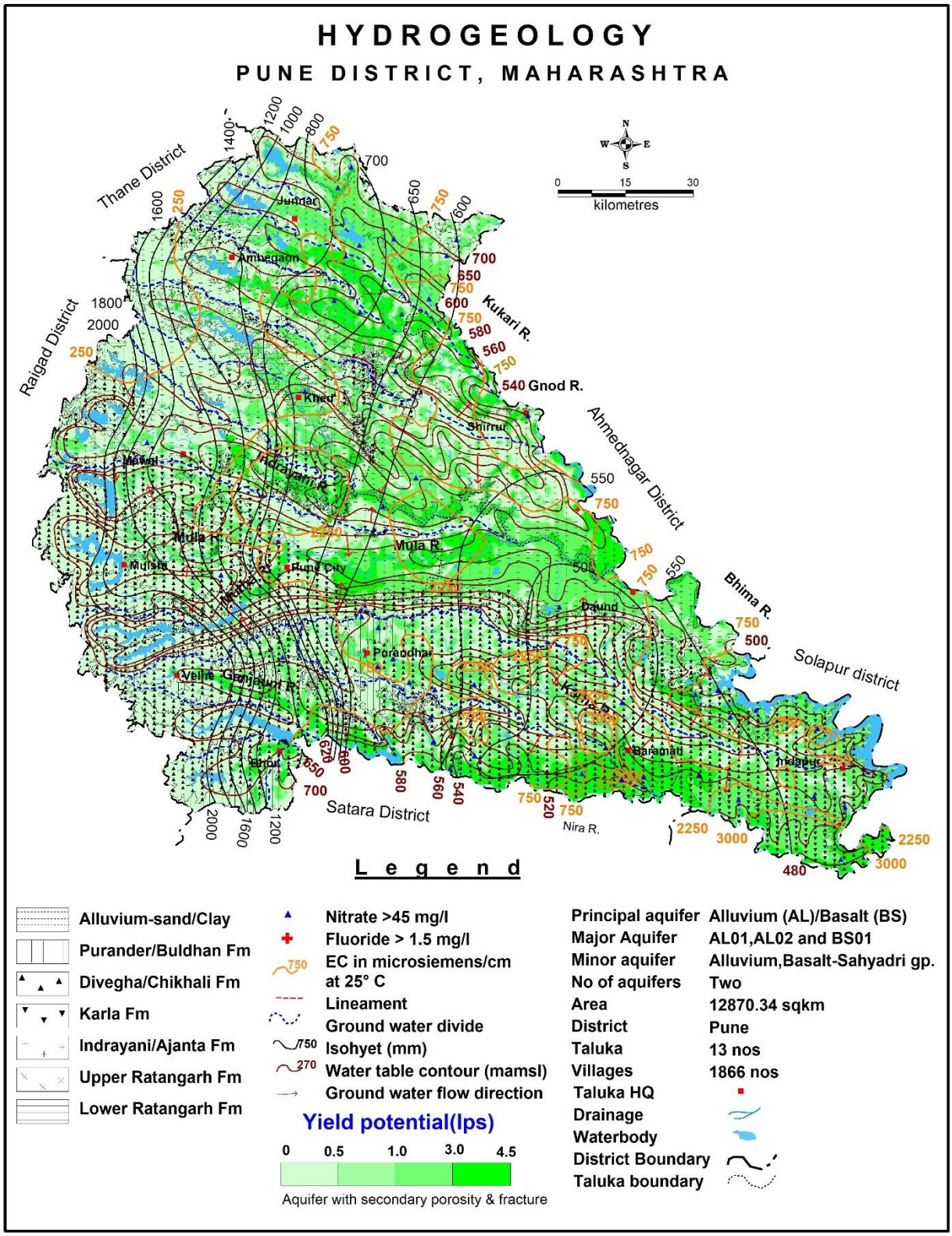


Figure 5.2- Hydrogeology

Deccan basalts are hydrogeologically in-homogeneous rocks. The weathered and jointed /fractured parts of the rock, as also permeable inter-flow beds constitute the zone of ground water storage and flow. The existence of multiple aquifers is characteristic of basalt and

exhibits wide variation in the joint/fracture intensity. The yields of well is function of the permeability and transmissivity of aquifer and it depends upon the degree of weathering and topographic setting of the aquifer. Due to wide variation in secondary openings, the potential areas for ground water are generally localized. In general, ground water occurs under phreatic/unconfined to semi-confined conditions in basalts. Two Aquifer system has been delineated: Aquifer I from 9 to 30 m (Weathered /Jointed Basalt); and Aquifer II from 48 to 175 m (Jointed/fractured basalt). Shallow Aquifer generally tapped by the dug wells of 9 to 30 m depth, have water levels ranging from 2.1 to 25.0 m bgl and yield varies from 10 to 100 m^3/day. The deeper Aquifer is being tapped by borewells with depth ranging from 50 to 180 m bgl and the water level from 6 to 45 m bgl. Based on Ground Water Exploration, Aquifer wise characteristics are given **table 5.1**. Maps depicting Aquifer wise yield potential are shown in **fig. 5.3**

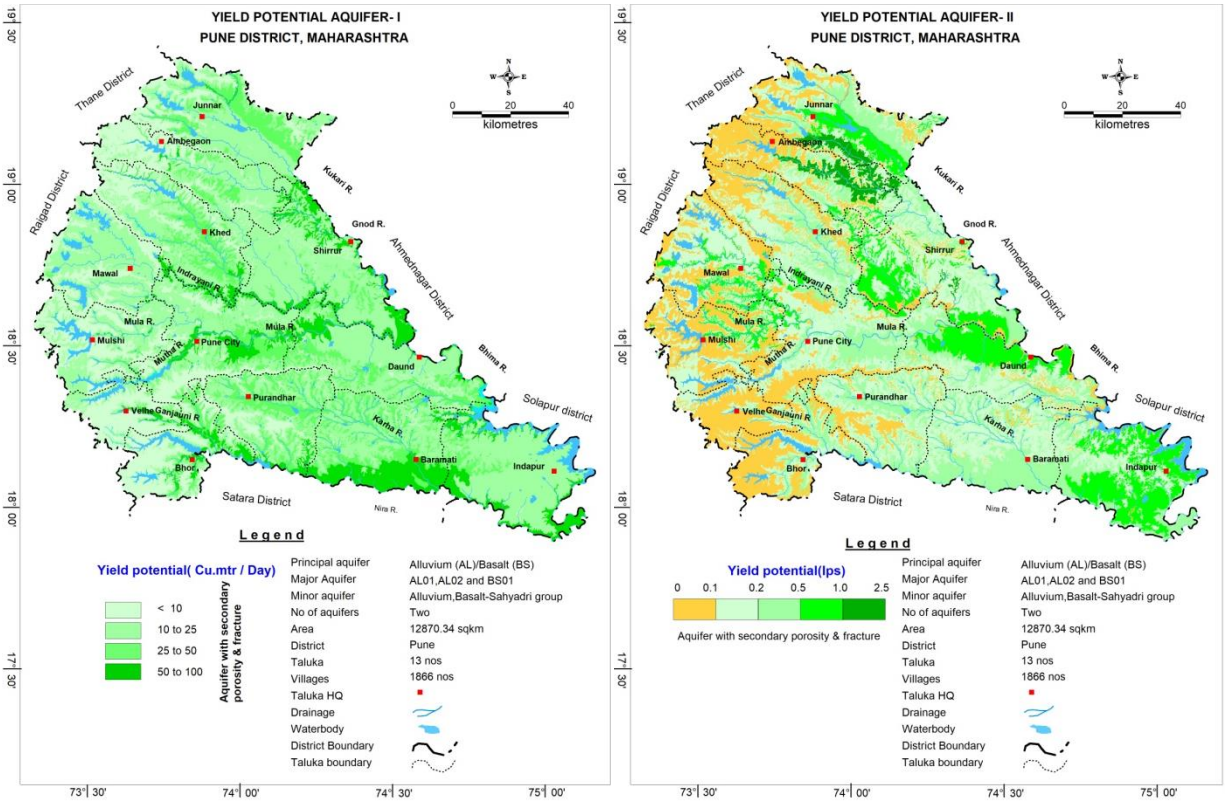


Figure 5.3: Aquifer wise yield potential

Table 5.1: Aquifer Characteristic of Pune district

Aquifer	Formation	Depth range (mbgl)	SWL (mbgl)	Thickness (m)	Fractures Zones encountered (m bgl)	Yield	Sustaina-bility	Aquifer parameter (Transmissivity)	Sy/S	Suitability for drinking/ irrigation
Aquifer-I	Deccan Trap-Weathered/ Fractured Basalt	9-30	2.1 – 30.0	Upto 30	5 to 22	10 to 100 m^3/day	1 to 3 Hours	5.0-55	0.019-0.028	Yes , suitable for both except nitrate, fluoride and high EC in some pockets.
Aquifer-II	Jointed/ Fractured Basalt	48-175	9.0-70	Upto 175	0.5 to 12	Upto 2.5 lps	0.5 to 3 hour	25 - 250	1.20 x 10-4. 3.57 x 10-4	Yes, suitable for both, except High EC

5.2 Aquifer Parameters

Aquifer parameters are available from ground water exploration carried out in the area of the district as well as from the pumping tests carried out on dugwells in Basaltic and Alluvial terrain. For aquifer-I, the specific capacity of the wells tapping Deccan Trap Basalt ranges between 1.7 to 18.9 lpm/m of draw down, the permeability ranges from 12 to 65 m/day and the transmissivity ranges from 5.0 to 55 m^2/day. The specific yield ranges from 0.019 to 0.028. During the pumping tests conducted on the exploratory wells tapping aquifer-II, the transmissivity was found to vary from 18 to 89 m^2/day. The storage coefficient varied between 0.00034 to 6.37 $x10^{-4}$.

5.3 3-D and 2-D Aquifer Disposition

Based on the existing data, aquifer disposition in 3D, Fence diagram, and several hydrogeological sections have been prepared along section lines shown in figure 5.4, 5.5 and 5.6 to understand the subsurface disposition of aquifer system.

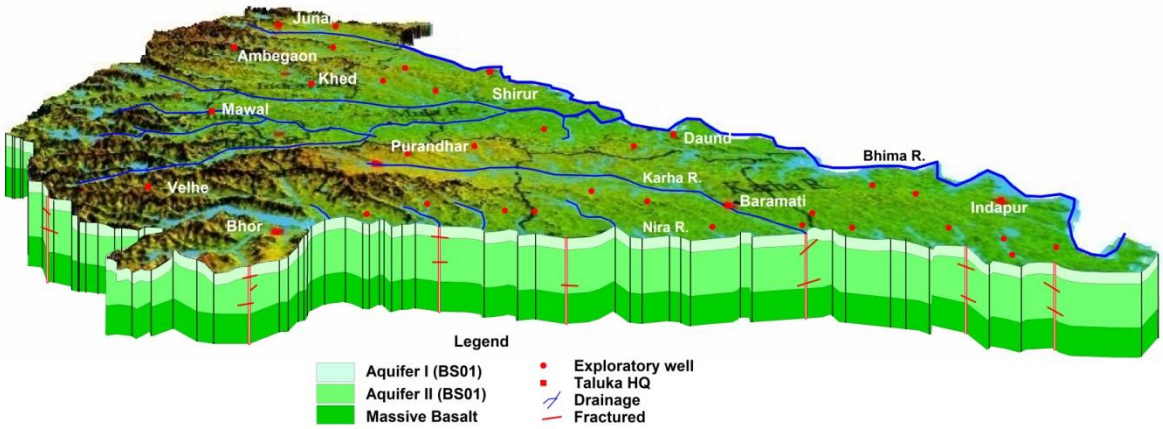


Fig. 5.4 a: 3D Aquifer Disposition

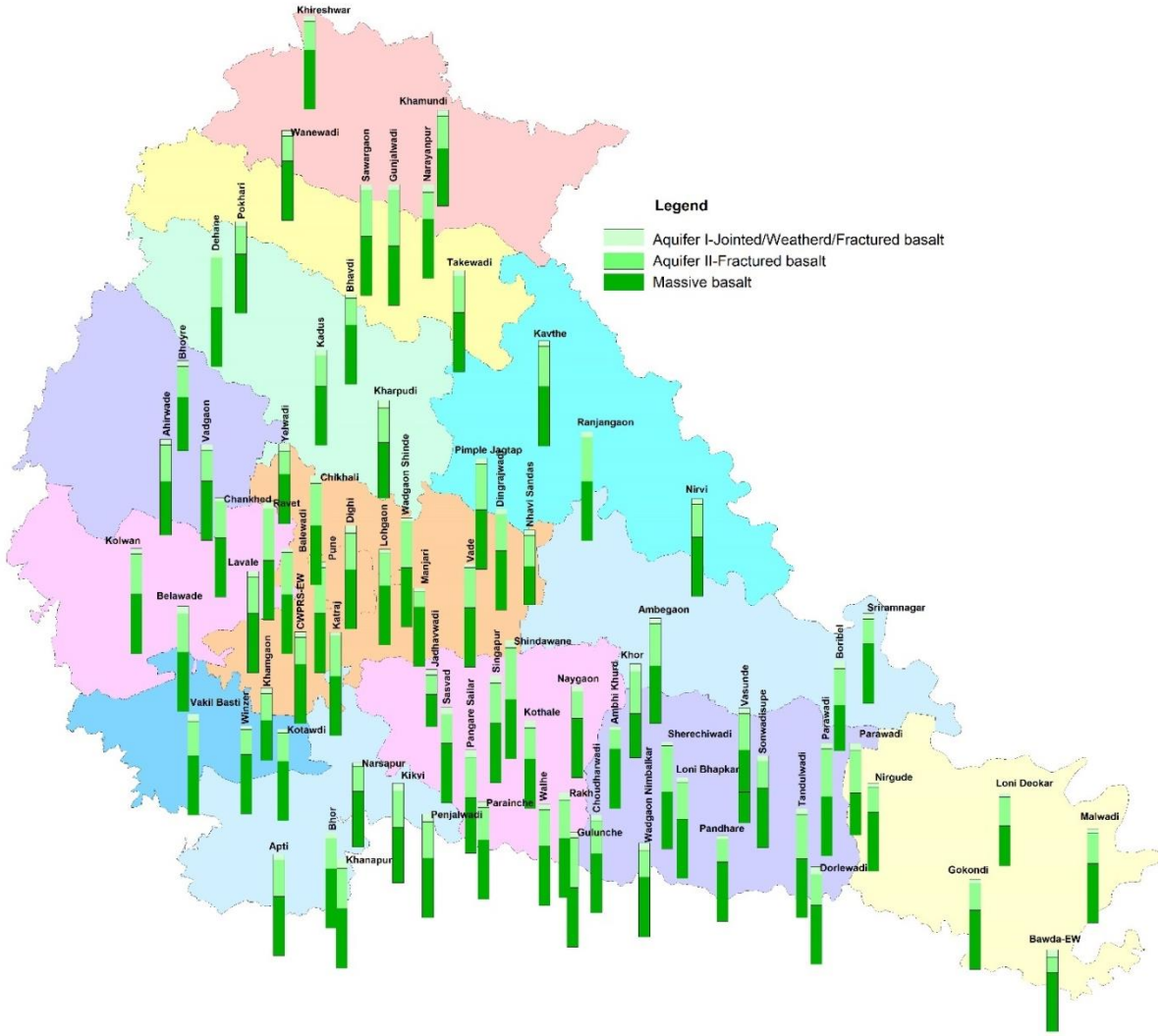


Fig. 5.4 b: Depth-wise Aquifer Disposition

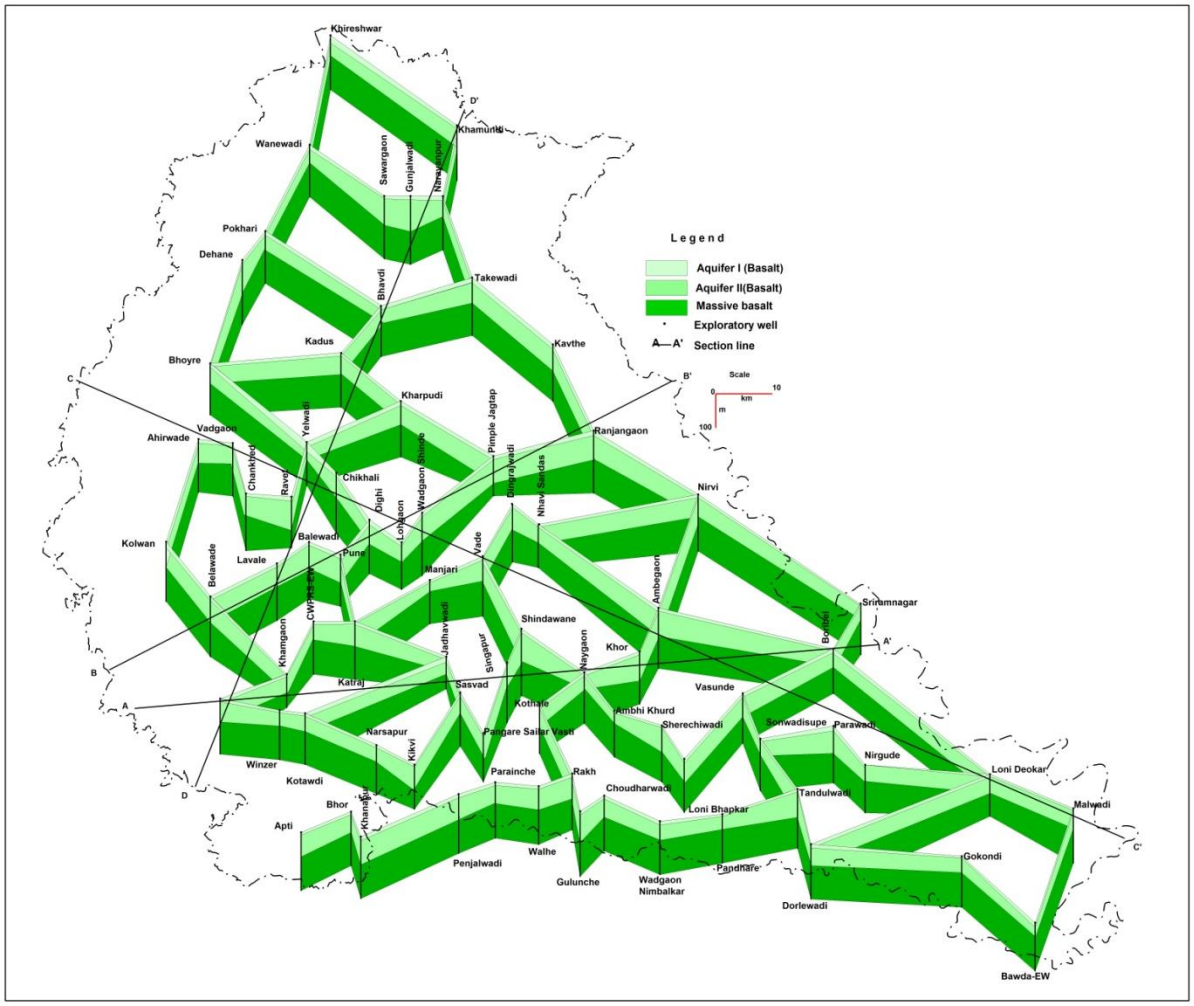


Fig. 5.5: 3D Fence Diagram

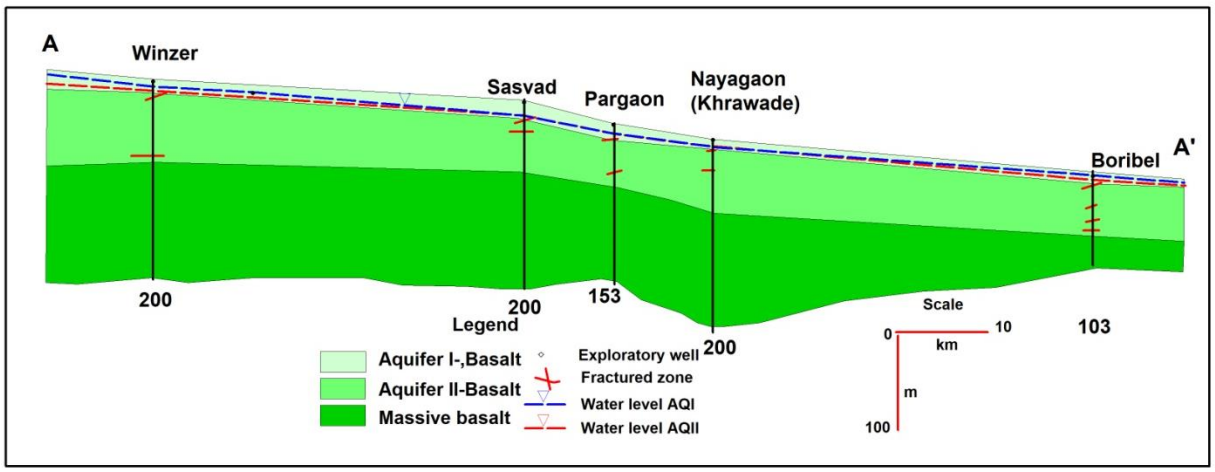


Fig. 5.6 (a): Lithological section A-A'

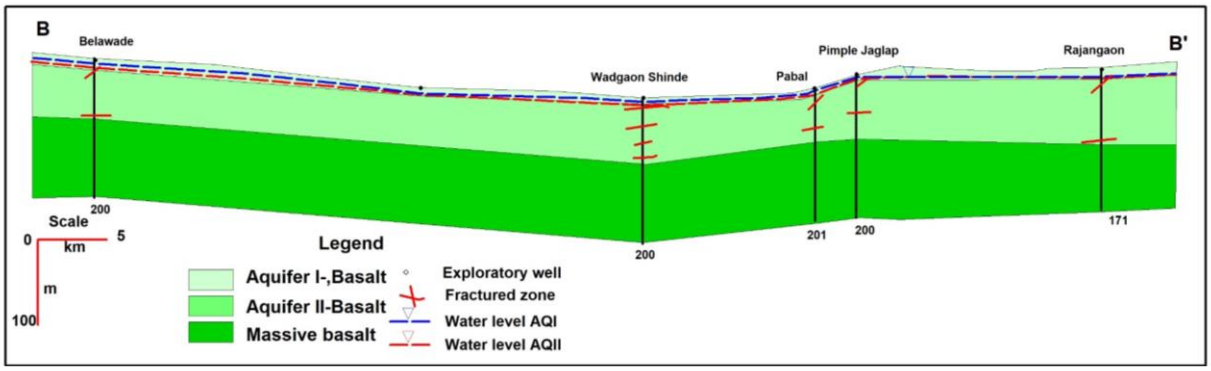


Fig. 5.6 (b): Lithological section B-B'

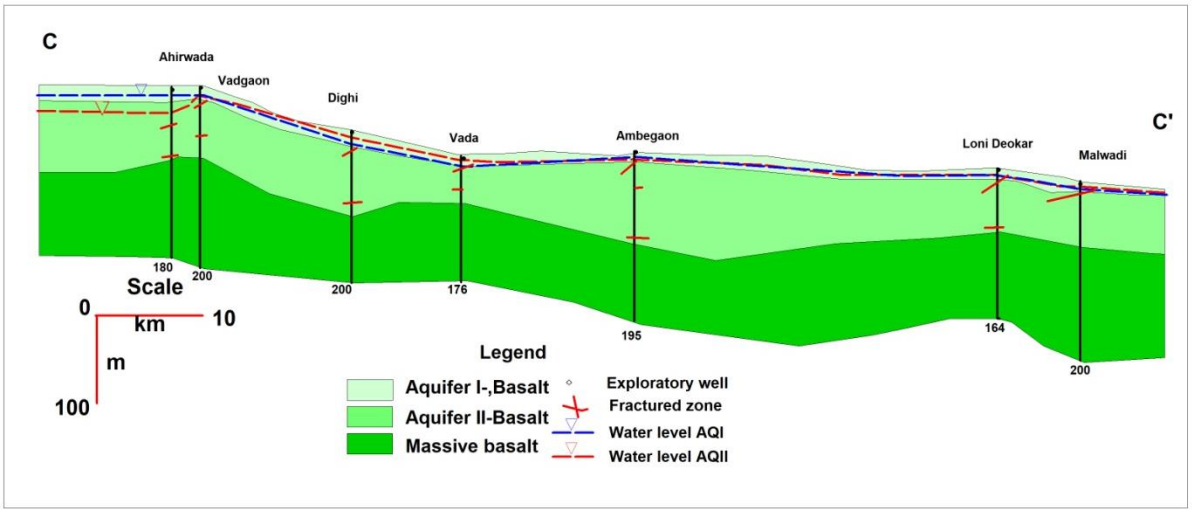


Fig. 5.6(c): Lithological section C-C'

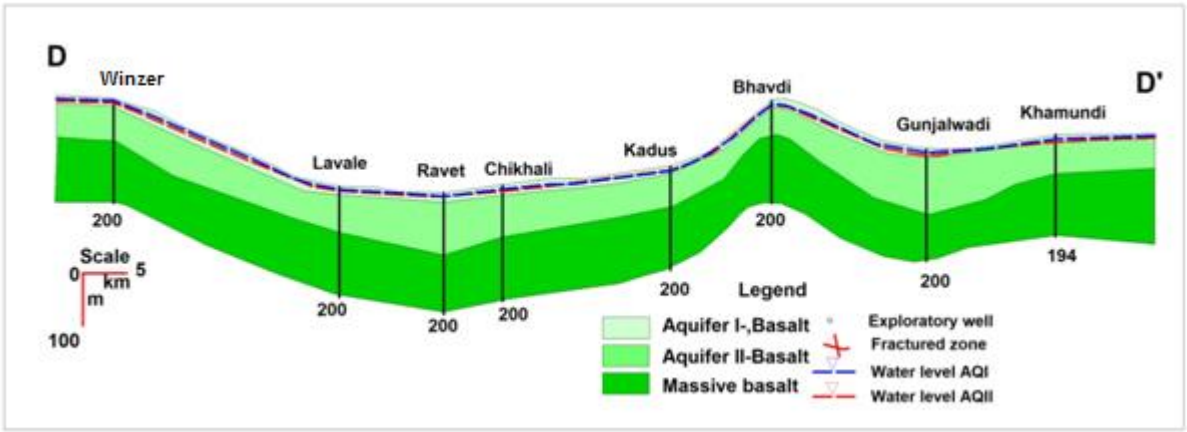


Fig.5.6 (d): Lithological section D-D'

6.0 Water Level Scenario

In Pune District, the water table varies from 480 m amsl in south-eastern part of the area to about 700 m amsl in Northwest of study area , near river Bhima. The overall ground water movement in the area is from west to southeast and tends to flow towards surface drainages. It has been observed that the ground water flow direction follows the drainage and topography of the area. This indicates the topographic control for the ground water movement.

6.1.1 Depth to water level (Shallow Aquifer-I)

Central Ground Water Board periodically monitors 47 Ground Water monitoring wells in Pune district, four times a year i.e. in January, May (Premonsoon), August and November (Postmonsoon). Apart from this under NAQUIM study; 31 KOW were established and monitored during the year 2016, 70 KOW were established and monitored during the year 2017 and 186 KOW were established and monitored during the year 2018. These data have been used for preparation of depth to water level maps of the district. Pre-monsoon and post monsoon water levels along with fluctuation during 2018 and long-term water level trends (2009-2018) are given in **Annexure-II**

Depth to Water Level – Pre-monsoon (May-2017)

The depth to water levels in Pune district during May 2017 ranges between 0.9 (Jambhul, Mawal taluka) and 30.35 mbgl (Pargaon, Purandhar taluka). Water levels between 5 and 10 m bgl are observed in major parts of the district. Shallow water levels within 5 m bgl are observed in western part of the district covering parts of Bhor, Mulshi and Maval talukas and in small patches in central part of the district. The depth to water level between 10 to 20 mbgl has been observed in Haveli, Khed, Ambegaon, Junnar, Shirur, Daund, Indapur, Baramati, Purandhar and Bhor talukas. Deeper water levels of more than 20 m bgl are observed in isolated patches in Purandhar taluka. The premonsoon depth to water level map is depicted in **Figure-6.1(a).**

Depth to Water Level – Post monsoon (Nov-2017)

The depth to water levels in Pune district during Nov. 2017 ranges between ground level (Kondhawale, Tamhini Bk and Viseghar, Mulshi taluka, Vadgaon Mawal, Mawal taluka and Ambhu, Khed taluka) and 25.2 mbgl (Pargaon, Purandhar taluka). Water levels between 0 and 5 m bgl are observed in major parts of the district. Very shallow water levels within 2 m bgl are observed in western part of the district covering parts of Bhor, Velhe, Mulsi, Maval, Khed and Haveli talukas and Pune City, and in small patches in other parts of the district. Shallow water levels ranging beteen 2 and 5 m bgl as also in the range between 5 and 10 m bgl are observed in central, northern and eastern part of the district covering parts of Ambegaon, Junnar, Shirur, Daund, Indapur, Baramati, Purandhar, and Haveli talukas and Pune City.The depth to water level between 10 to 20 mbgl has been observed insmall patches in Haveli, Ambegaon, Junnar, Shirur, Indapur, Baramati and Purandhar talukas. Spatial variation in post monsoon depth to water levels is shown in **Figure-6.1 (b).**

Seasonal Water Level Fluctuation (May-Nov. 2017)

It is observed that rise in water level has been observed in entire district in the range of 0.2 to 13.5 m. Decline in water level was observed only in five isolated wells in the District, namely

Khalad, Purandhar taluka and Dhakale, Baramati taluka, which is due to low rainfall and pumping for irrigation during monsoonand insignificant decline in wells in Jambhul, Induri and Kadadhe in Maval taluka.

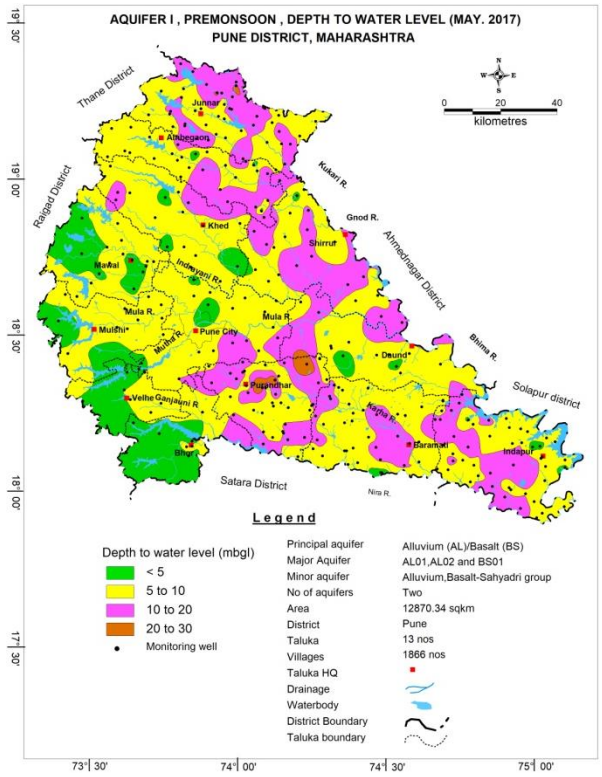


Fig 6.1 (a): DTWL shallow aquifer (May 2017)

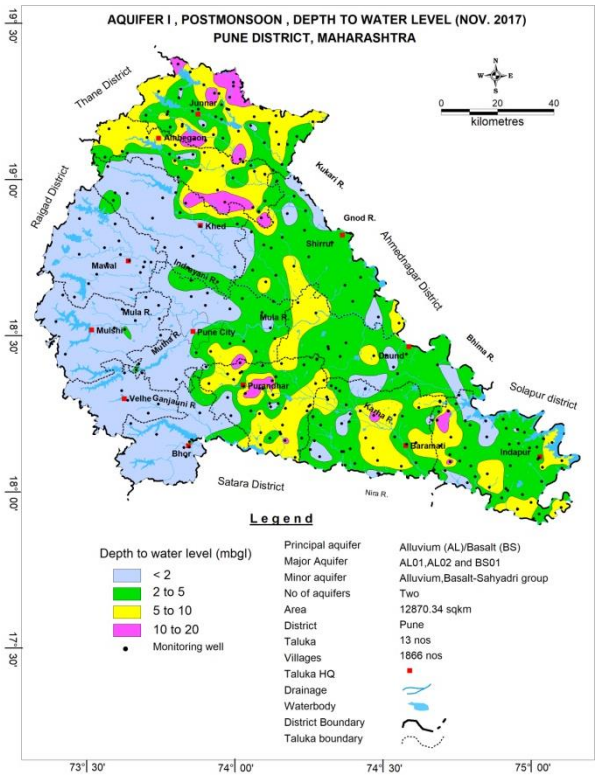


Fig 6.1 (b): DTWL shallow aquifer (Nov. 2017)

6.1.2 Depth to water level (Deeper Aquifer-II)

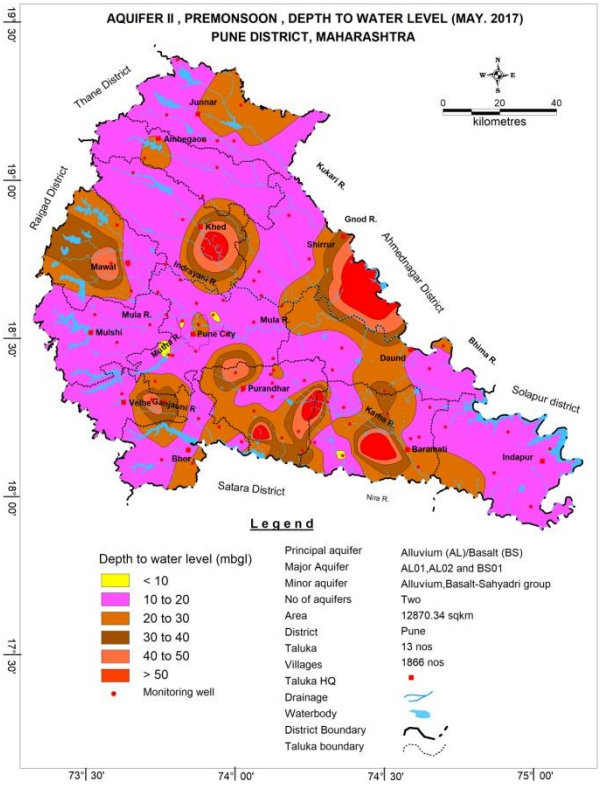
Premonsoon Depth to Water Level (May-2017)

In Deeper Aquifer-II, the pre-monsoon depth to water levels, in Pune District during May 2017, range from 9.00 (Sherechiwadi, Wadgaon Nimbalkar, Baramati Taluka, CWPRS, Lohgaon,HaveliTaluka, and Lavale, Mulshi Taluka) to70.00 mbgl (Ambhi Khurd, Pandhare, Baramati Taluka and Parainche, PurandharTaluka). Major parts of Pune Districtshows depth to water level between 10 and 20 mbgl. The depth to water level less than 10 mbgl is observed only in isolated wells in Sherechiwadi, Wadgaon Nimbalkar, Baramati Taluka, CWPRS, Lohgaon,Haveli Taluka, and Lavale, Mulshi Taluka. Deeper water level between 20 and 30 mbgl are observed in major parts of Pune City, Haveli, Khed, Ambegaon, Junnar, Shirur, Daund, Indapur, Baramati, Purandhar, Bhor, Velhe and Maval talukas. The deepest water level (>30 mbgl) has been observed in parts of Shirur, Baramati, Purandhar and Khed talukas and in isolated patches in other talukas of the district. The premonsoon depth to water level for Aquifer –II is given in **Fig. 6.2 (a**) and the details are presented in **Annexure I**.

Postmonsoon Depth to Water Level (Nov.-2017)

In Aquifer-II, the post monsoon depth to water levels in Pune District during Nov. 2017 range between 1.50 (Singapur, Purandhar taluka) and 45.00 mbgl (Ambhi Khurd, Pandhare, Baramati Taluka and Parainche, PurandharTaluka). Major parts of the District show depth to water level between 5 and 20 mbgl. Depth to water level less than 5 m bgl has been observed in patches in Haveli, Shirur, Daund, Indapur, Baramati, Purandhar, Mulsi and Maval talukas. The deepest water level of more than 20 mbgl is observed in small patches inHaveli, Shirur,

Daund, Indapur, Baramati, Purandhar, Velhei and Maval talukas. The post monsoon depth to water level for Aquifer –II is given in **Fig. 6.2 (b)**



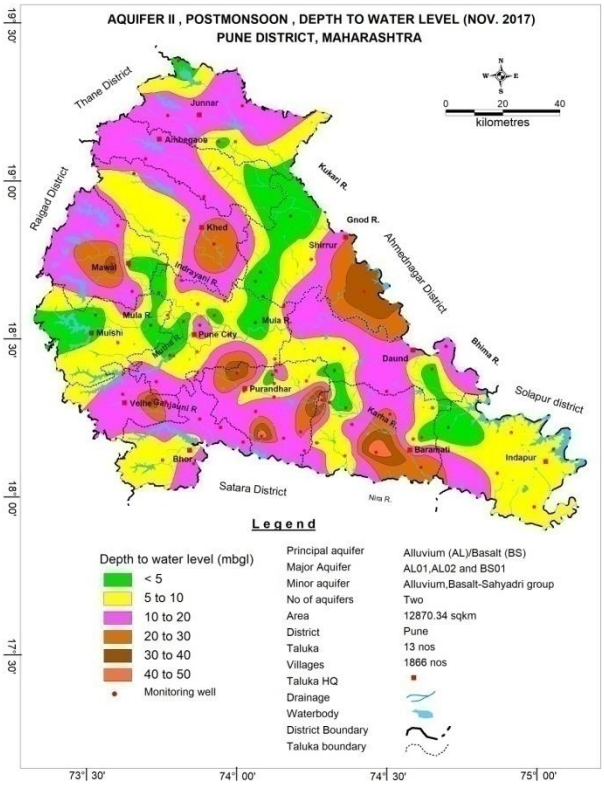
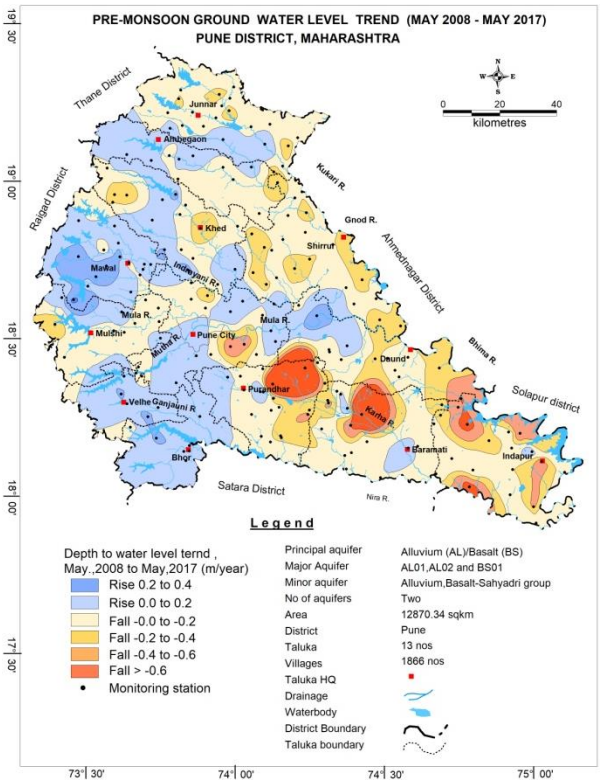


Fig 6.2(a): DTWL deeper aquifer (May 2017) **Fig 6.2(b): DTWL deeper aquifer (Nov. 2017)**

6.1.3 Water Level Trend (2008-2017)

In Pune district, pre-monsoon rise in water levels trend has been recorded at 144 stations (out of 202 stations considered for computing trend) and ranges from 0.0001 (Reda, Indapur taluka) to 0.750 m/year (Walhe, Purandhar taluka) while falling trend was observed in 58 stations varying from 0.0116 (Supe, Baramati taluka) to 0.42 m/year (Thakursai, Mawal taluka). During pre-monsoon, declining water level trend has been observed in about 10110 sq km area during 2008-17,i.e., 65% of the area. Significant decline more than 0.20 m/year has been observed in 3300 sq km, i.e., 21 % area covering part of Purandhar, Baramati, Indapur, Haveli and Daund talukas and isolated parts of Khed, Shirur, Junnar and Mulshi talukas. Rise in water level trend has been observed in western and central part of the district covering major parts of Bhor, Velhe, Maval,Mulshi, Haveli, Khed, Daund, Ambegaon and Junnar talukas.**(Fig.6.3 a)**

Post monsoon rise in water levels trend has been recorded at 159 stations and it ranges between 0.0012 (Padali, Junnar taluka) to 1.588m/year (Pargaon, Purandhar taluka) while falling trend was observed in 43 stations varying from 0.0028 (Baramati Rural, Baramati taluka) to 0.6992 m/year (Belhe, Junnar taluka). Declining water level trend has been observed in about 10700 sq km area during 2008-17, i.e., 68 % of the area. Significant decline more than 0.20 m/year has been observed in 1395 sq km, i.e., 8.9 % area covering patches in part of Purandhar, Baramati and Khed talukas. Rise in water level trend has been observed in northern, western and central part of the district covering major part of Bhor, Velhe, Maval, Mulshi, Haveli, Khed, Daund, Ambegaon and Junnar talukas. **(Fig 6.3 b)**



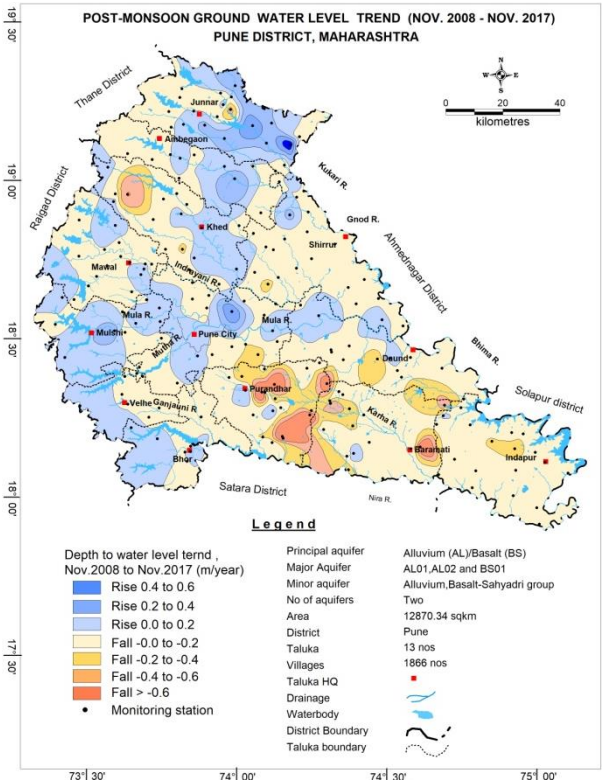


Fig.6.3 (a):Pre-monsoon decadal trend (2008-17) Fall @>0.2m/year (3300 Sq km)

Fig 6.3 (b): Postmonsoon decadal trend (2008-17) Fall@>0.2m/year(1395 sq km)

6.1.4 Hydrograph Analysis

The variation in short term and long-term water level trends may be due to variation in natural recharge due to rainfall, artificial recharge, canal seepage and withdrawal of groundwater for various agricultural activity, domestic requirements and industrial needs. In general, the annual rising limbs the hydrographs indicate the natural recharge of groundwater regime due to monsoon rainfall, as the monsoon rainfall is the main natural source of water for recharge to the ground water regime. However, continuous increase in the groundwater draft is indicated by the recessionary limb. The analysis of hydrographs (**Fig. 16a to 16f**) show rising trends of water levels during the premonsoon and postmonsoon periods, inspite of the fact that Ambegaon, Indapur, Junnar, Baramati and Purandhar talukas of Pune district have stage of ground water development higher than 80%. This is partly due to 'above average' rainfall during 2017 and partly due to seepage from canals and percolation from rain water harvesting structures, that are increasingly becoming popular in the district.

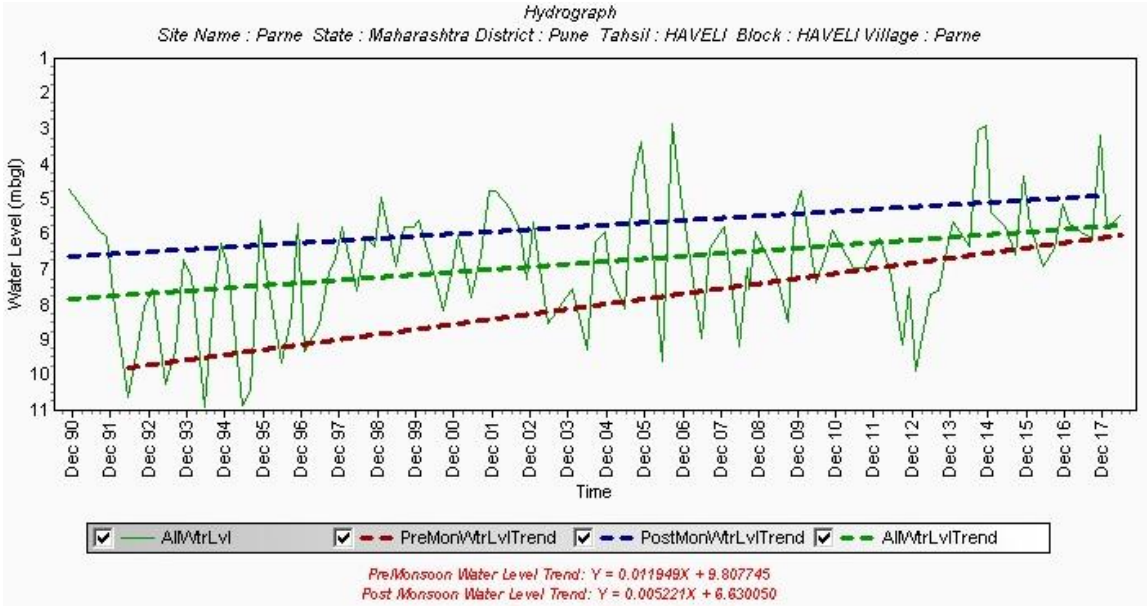


Fig 6.4a: Hydrograph (1990-2017), Parne, Haveli Taluka

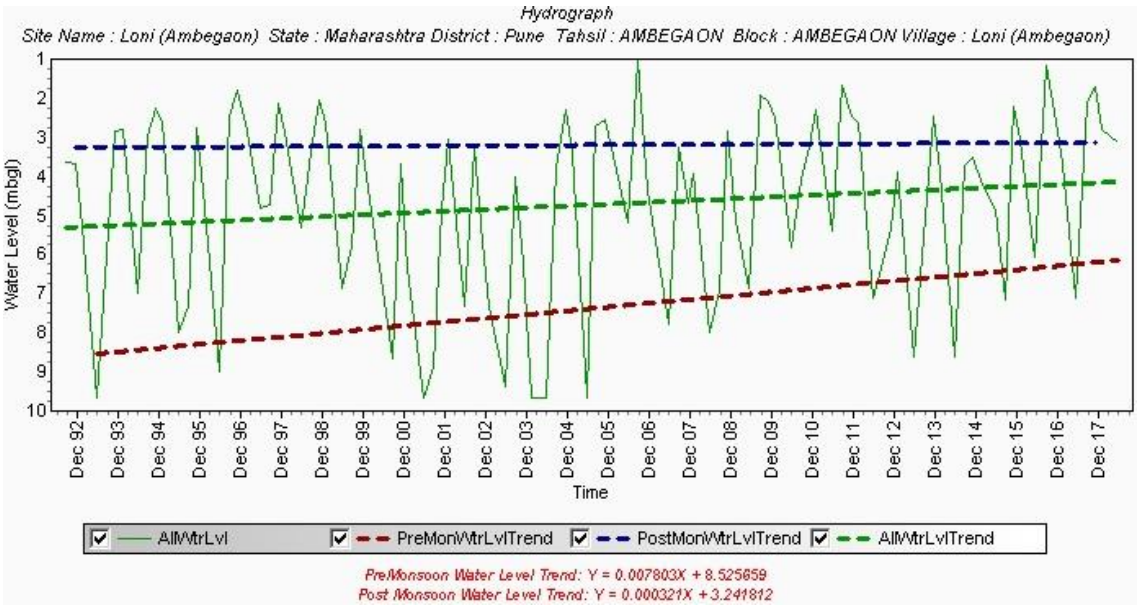


Fig. 6.4b: Hydrograph (1992-2017), Loni, Ambegaon Taluka

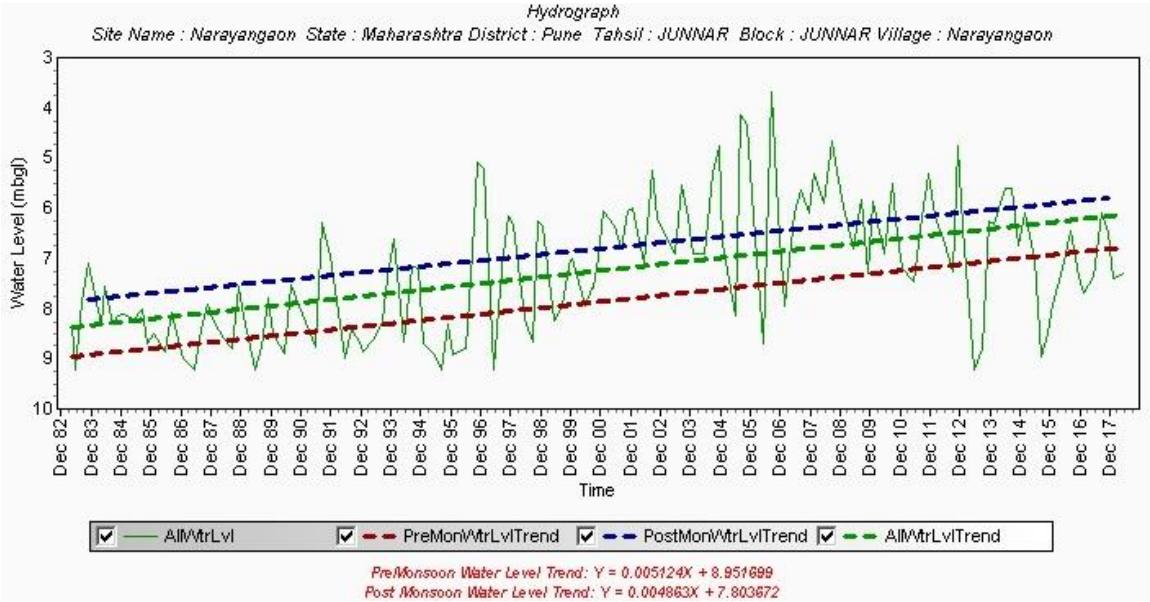


Fig. 6.4c: Hydrograph (1982-20017), Narayangaon, Junnar Taluka

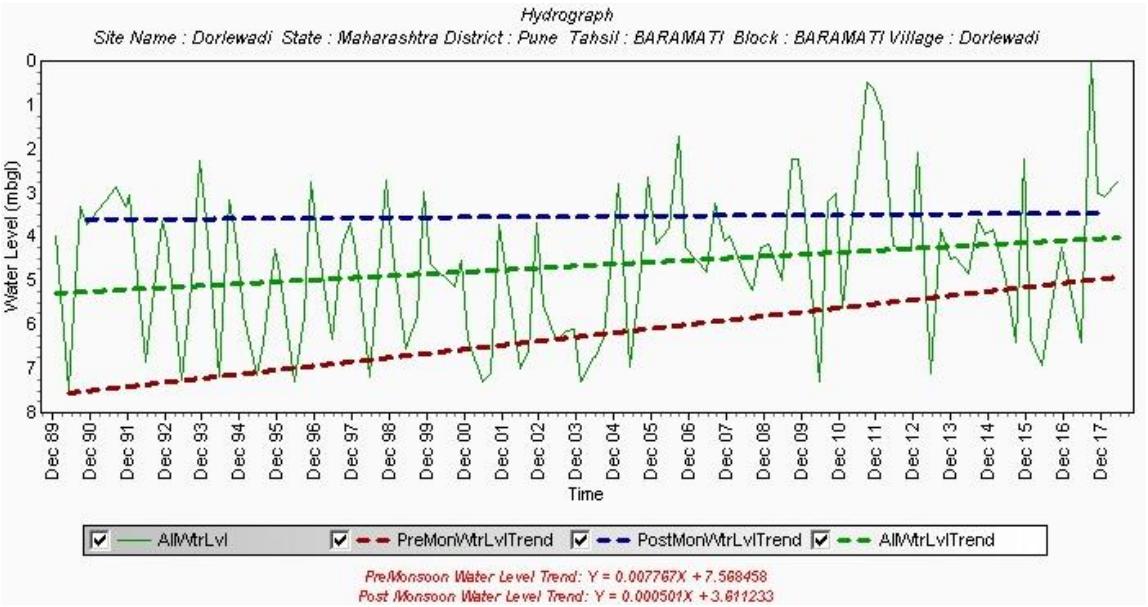


Fig. 6.4d: Hydrograph (1989-2017), Dorlewadi, Barramati Taluka

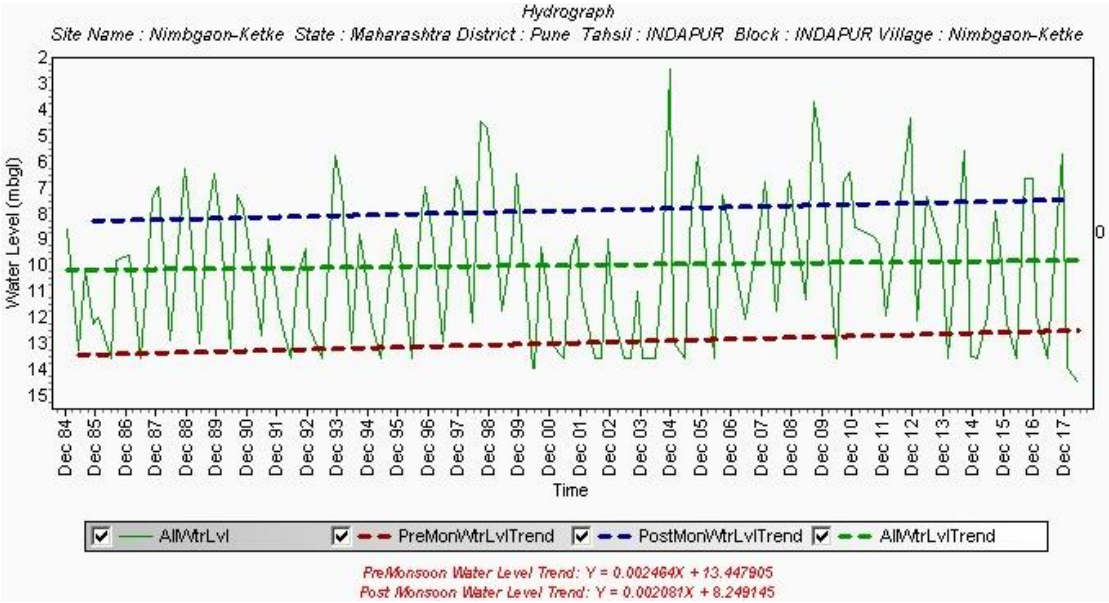


Fig. 6.4e: Hydrograph (1984-2017), Nimgaon Ketke, IndapurTaluka

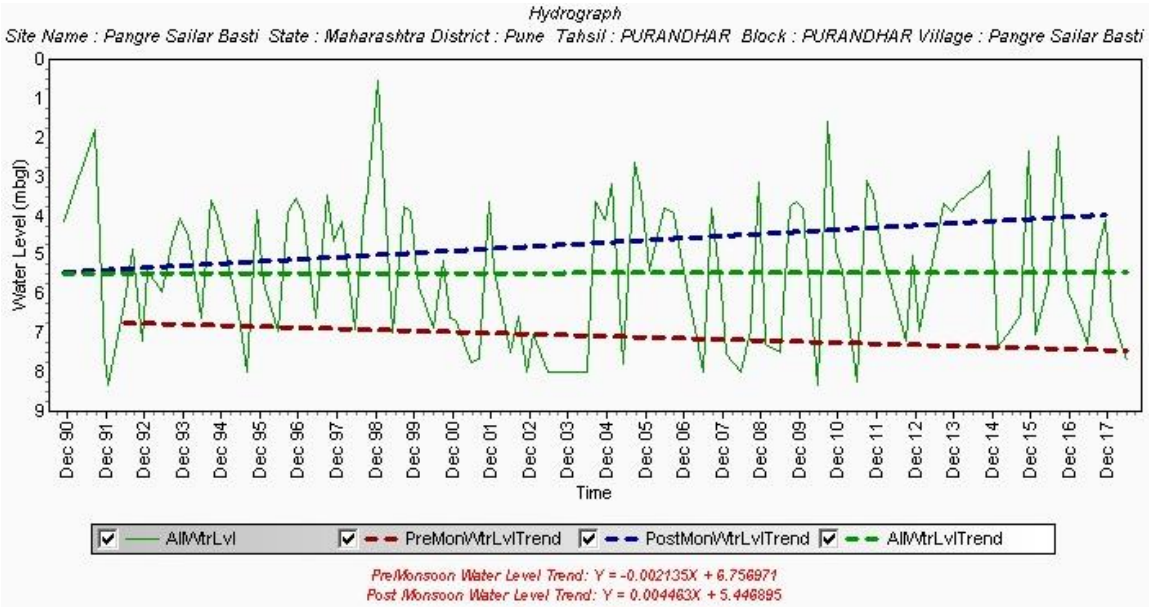


Fig.6.4f: Hydrograph (2007-16), Pangare Sailar Basti, Purandhar Taluka, Pune district

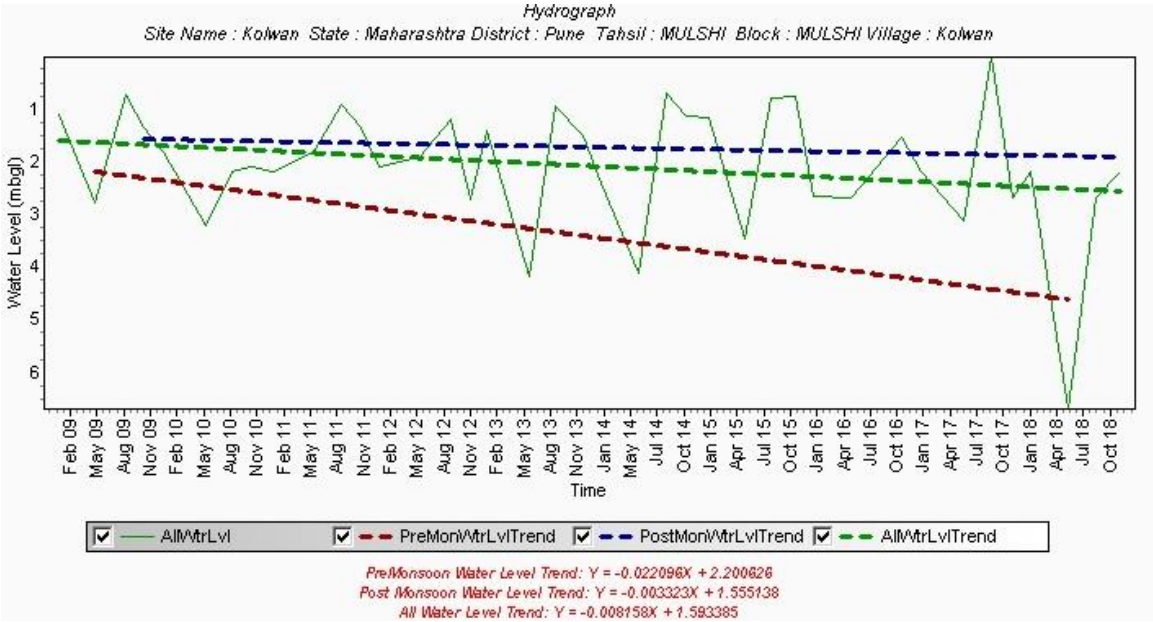


Fig.6.4g: Hydrograph (2009-18), Kolvan, Mulshi Taluka, Pune district

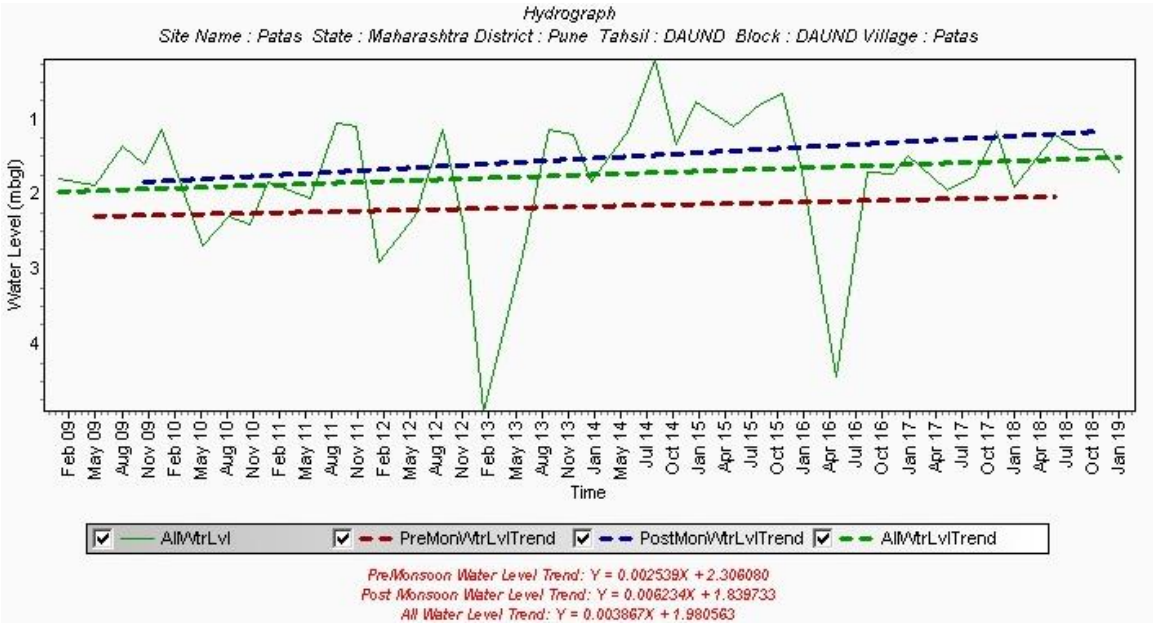


Fig.6.4h: Hydrograph (2007-16), Patas, Daund Taluka, Pune district

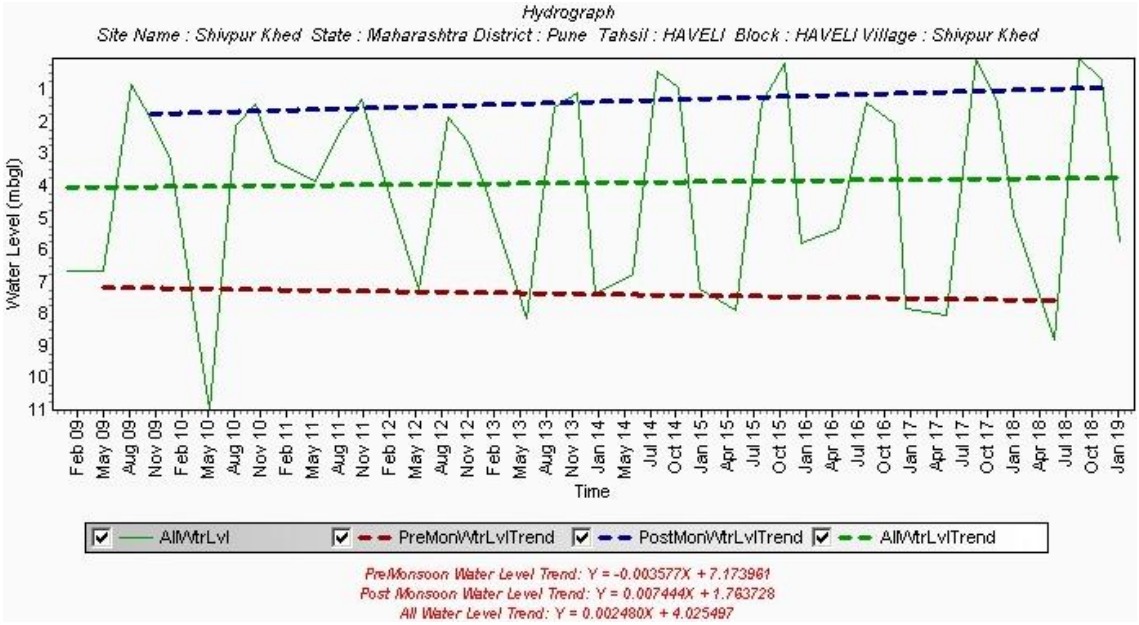


Fig.6.4f: Hydrograph (2009-18), Shivpur Khed, Haveli Taluka, Pune district

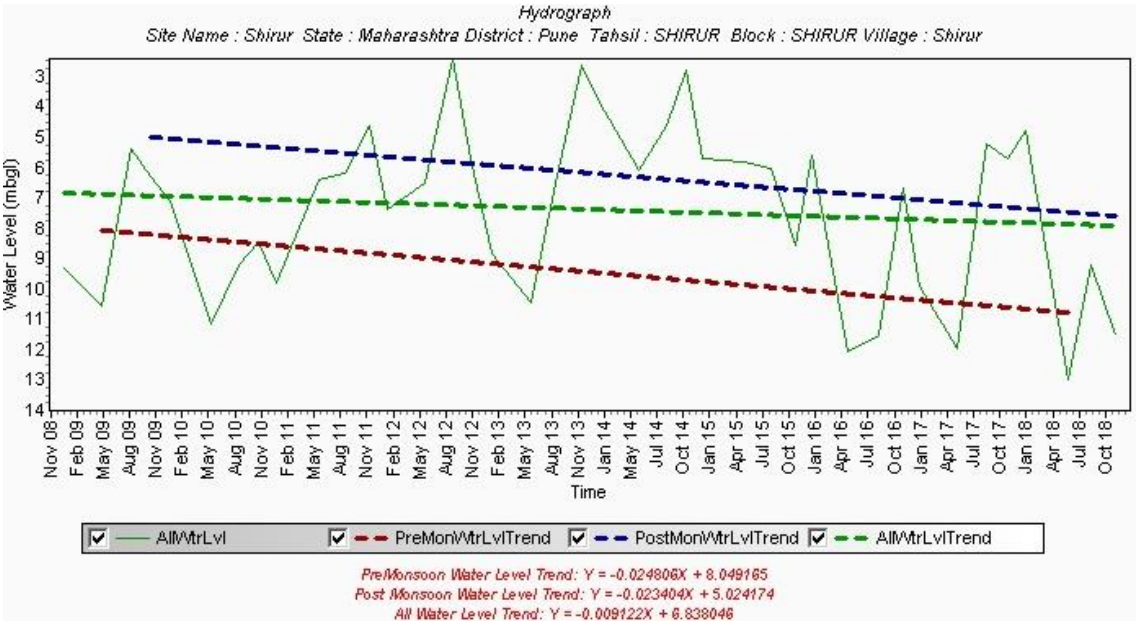


Fig.6.4i: Hydrograph (2008-18), Shirur, Shirur Taluka, Pune district

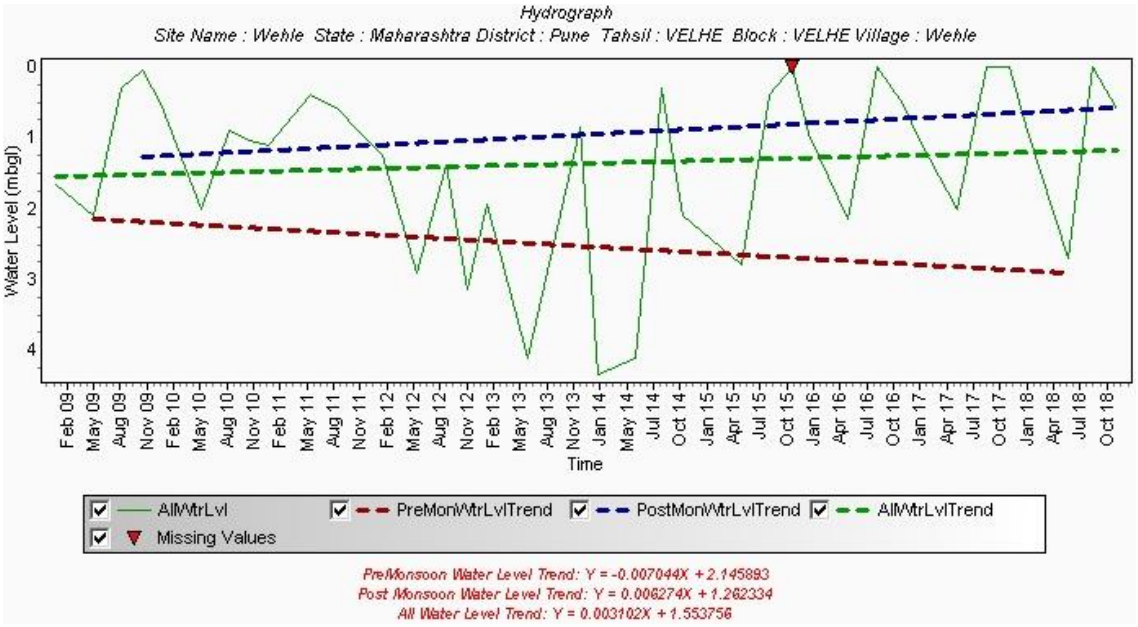


Fig.6.4j: Hydrograph (2009-19), Velhe, Velhe Taluka, Pune district

7.0 Ground Water Quality

Water sampling is being done every year from GWM wells during pre-monsoon period (May). The data gap analysis has been carried out to find out the adequacy of information on water quality and identified additional locations, 111 for shallow and 15 for deeper aquifers. Ground water quality data of 178 monitoring wells of CGWB and GSDA representing shallow aquifer have been utilised to decipher the quality scenario of shallow aquifer. 102 exploratory wells tubewells / borewells of CGWB and GSDA representing deeper aquifer have been utilised to decipher the quality scenario of deeper aquifer. The aquifer wise ranges of different chemical constituents present in ground water are given in Table 7.1. The details of water quality analysis for shallow aquifer are given in **Annexure V** and for deeper aquifer are given in **Annexure VI**.

Table 7.1: Aquifer wise ranges of chemical constituents in Pune district

Constituents	Shallow aquifer		Deeper aquifer	
	Min	Max	Min	Max
pH	7.0	11.1	7	9.3
EC	80	6980	86	8200
TDS	51	4467	55	6000
TH	80	6090	20	1950
Calcium	3.2	926.3	3.2	377
Magnesium	2.3	280.8	0.5	246
Potassium	0.07	68	0	569
Sodium	3.2	1023.5	8	713
Bi-carbonate	2.9	697.8	19.4	390.4
Chloride	2.57	1439.3	14	1148
Sulphate	1	1287	1	908
Nitrate	0.1	366	0.1	2070
Iron	0	1.1	0	2.2
Fluoride	0.03	2.89	0.10	4.27

7.1 Electrical Conductivity (EC)

Distribution of Electrical Conductivity in Shallow Aquifer:

The concentration of EC in shallow aquifer varies between 80 (Pawan Maval (Malavali), Mavaltaluka) and 6980 µS/cm (Morgaon, Baramati taluka). Out of 178 samples collected from dug wells, 37 samples are having EC below 500 µS/cm. Western part of the district shows EC less than 750 µS/cm. Major part of rest of the district shows EC in the range of 750-2250 µS/cm. Only 9 samples are having EC in range of 3000 to 7500 µS/cm,observed in isolated locations of Daund, Baramati, Indapur, Haveli and Purandhar talukas.The ground water is potable in southern and south-east part of district. The distribution of electrical conductivity in shallow aquifers is shown in **fig. 7.1 (a)** and analytical data is presented in **table 7.2**.

Distribution of Electrical Conductivity in Deeper Aquifer:

The concentration of EC in deep aquifer varies between 86 (Kadus, Khedtaluka) and 8200

µS/cm (Sonwadisupe, Baramati taluka). Out of 102 samples collected from tube wells/bore wells,91 samples are having ECless than2250µS/cm and only 3 sample show very high EC more than 3000µS/cm. It is observed that the concentration of high EC more than 3000 has been observed in isolated wells in Nhavi Sanaas , Haveli taluka and Kadus, Khed taluka. The ground water is potable in major parts of the district. The distribution of electrical conductivity in deeper aquifers is shown in **fig. 7.1 (b)** and analytical data is presented in table 7.2.

Table 7.2: Aquifer wise Electrical conductivity data

S.No.	EC (µS/cm)	shallow aquifer		Deeper Aquifer	
		No. of samples	% of samples	No. of samples	% of samples
1	< 250	8	4.49	4	3.92
2	>250-750	74	41.57	38	37.25
3	>750-2250	78	43.82	49	48.04
4	2250-3000	9	5.06	8	7.84
5	3000-7500	9	5.06	2	1.96
6	>7500	0	0	1	0.98
Total samples		**178**		**102**	

7.2 Nitrate:

Nitrogen in the form of dissolved nitrate nutrient for vegetation, and the element is essential to all life. The major contribution in ground water is from sewage, waste disposal, nitrate fertilizer and decaying of organic matter. In Pune district nitrate concentration varies between 0.1 to 366 mg/l (Bhadalwadi, Indapur Taluka). As per BIS (2012) the desirable limit is 45 mg/l. In shallow aquifer, 178samples were analysed, out of this 49 water samples show the nitrate concentration exceeded the desirable limit of 45 mg/l. The high concentration of Nitrate may be due to domestic waste and sewage in the urban and rural parts of district. In deeper aquifer, nitrate concentration varies between 0.1 to 2070 mg/l (Sonwadisupe, Baramati Taluka). 102 wells analysed, out of this 18 water samples show that the nitrate concentration exceeded the desirable limit of 45 mg/l. The deeper aquifer in the areais also affected by nitrate contamination.It may be due to percolation of nitrate contaminants from the ground surface as there are no other reasons for nitrate contamination in deeper aquifers. Aquifer wise nitrate concentration is given in table 7.3.

7.3 Fluoride:

In shallow aquifer, concentration of fluoride ranges from 0.03 to 2.89 mg/l. Out of 178 samples analyzed, only 15 samples show fluoride concertation more than 1 mg/l. In shallow aquifer, the highest concentration of fluoride is found in Medad village, Baramati taluka (2.89 mg/l). In Deeper Aquifer, concentration of fluoride ranges from 0.10 to 4.27 mg/l. out of 87 samples analysed, only 10 samples show fluoride concertation more than 1 mg/l. In Deeper aquifer, the highest concentration of fluoride is found in Waghapur village, Purandhar taluka (4.27 mg/l).Fluoride concentration more than permissible limit is observed in ground water samples from deeper aquifer at Khamunai, Junnar taluka, Apti, Bhor taluka, Nhavi Sanaas, Haveli taluka, Sonwadisupe, Baramati taluka and Waghapur, Purandhar taluka and ground water from deeper aquifer may be used with caution for drinking water. This high concentration of fluoride may be due to the lithological reason only. Aquifer wise fluoride

concentration is given in table 7.3.

Table 7.3: Aquifer wise nitrate and Fluoride concentration in Pune district

	No_3> 45 mg/l		fluoride >1 mg/l	
Taluka	No of samples Shallow Aquifer	No of samples Deeper Aquifer	No of samples Shallow Aquifer	No of samples Deeper Aquifer
Pune City	1			
Haveli	4	2	3	3
Mulshi	1			
Bhor				1
Maval				
Velhe	1			
Junnar	9	3	2	1
Khed	1			1
Ambegaon	5	1	2	
Shirur	1	3	5	
Baramati	5	4	1	2
Indapur	10	1	2	1
Daund	1			
Purandhar	10	4		1
Grand Total	**49**	**18**	**15**	**10**

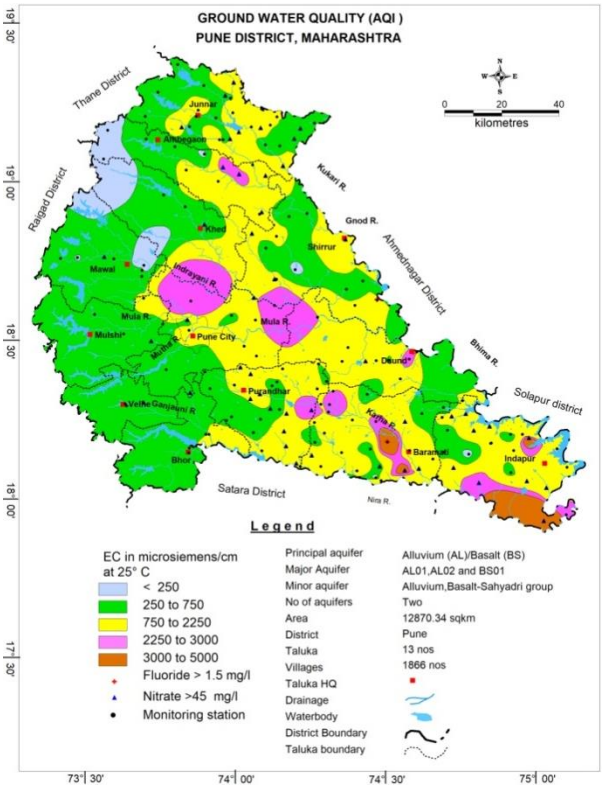


Fig. 7.1 (a): Ground water quality, Aquifer-I

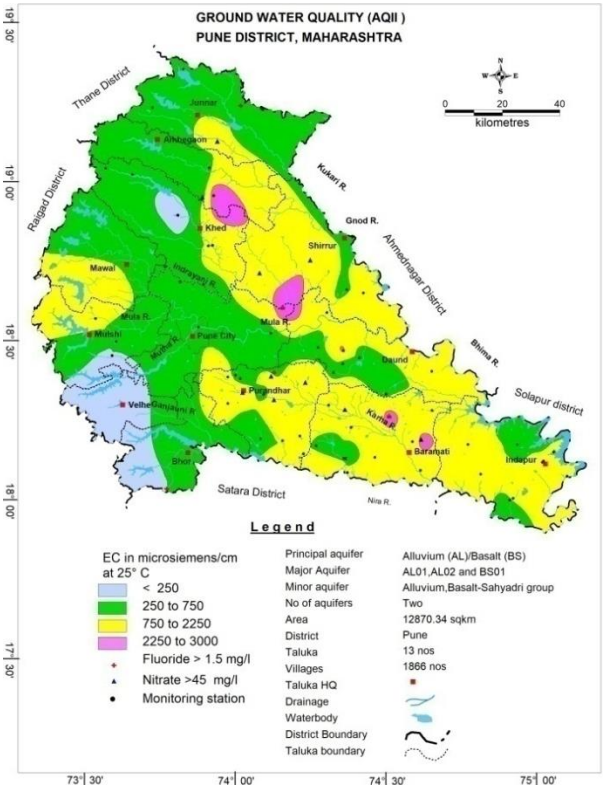


Fig. 7.1 (b): Ground water quality, Aquifer-II

7.4 SUITABILITY OF GROUND WATER FOR DRINKING PURPOSE

In shallow aquifer, only 2.6 % samples are having TDS concentration more than maximum permissible limit (MPL) of 2000 mg/l and 43 % of samples have TDS concentration above the Desirable limit (DL) but below the MPL. It is also seen that about 22 % samples haveparameters like TH, Ca, Mg, Cl, SO_4 and NO_3 beyond the maximum permissible limit for drinking, indicating that the water is not suitable for drinking purpose.Samples from Shaha, Lumewadi, Varkute Bk and Ranmodwadi, Indapur taluka, Jawalarjun, Purandhar taluka and Nirvagaj, Baramati taluka have more than one parameter like TH, Ca, Mg, Cl, SO_4 and NO_3 beyond the maximum permissible limit for drinking, indicating water from such area is not fit for drinking purpose if directly consumed without treatment. Classification of ground water samples by Chemical constituents in shallow Aquifer for drinking **purpose is given in table 7.4.**

In Deeper aquifer, samples from Chandaydewadi, Sonwadisupe, Rui & Sherechiwadi, Baramati taluka, Ranjangaon, Shirur taluka, Rakh, Purandhar taluka and Nhavi Sanaas, Haveli taluka have more than one parameter like TH, Ca, Mg, Cl, SO_4 and NO_3 beyond the maximum permissible limit for drinking, indicating water from such area is not fit for drinking purpose if directly consumed without treatment.

Table 7.4: Classification of ground water samples by Chemical constituents in shallow Aquifer for drinking purpose

Parameter	Drinking water Standards (IS-10500-2012)		Total no of ground water samples	Shallow aquifer					
				Samples (<DL)		Samples (DL-MPL)		Samples (>MPL)	
	DL	MPL		No	%	No	%	No	%
pH	6.5-8.5	-	145			120	82.76	25	17.24
TDS	500	2000	116	63	54.31	50	43.1	3	2.59
TH	300	600	178	116	65.17	48	26.97	14	7.87
Ca (mg/L)	75	200	178	63	35.39	49	27.53	18	10.11
Mg (mg/L)	30	100	178	77	43.26	93	52.25	8	4.49
Cl (mg/L)	250	1000	178	152	85.39	24	13.48	2	1.12
SO_4 (mg/L)	200	400	178	157	88.2	12	6.74	9	5.06
NO_3 (mg/L)	45	No relax	178	162	91.01	-	-	16	8.99
Fe (mg/L)	0.3	1	178	155	87.08	18	10.11	5	2.81
F (mg/L)	1	1.5	178	163	91.57	14	7.87	1	0.56

(Here, DL- Desirable Limit, MPL- Maximum Permissible Limit)

Table 7.5: Classification of ground water samples by Chemical constituents in Deeper Aquifer for drinking purpose

Parameter	Drinking water Standards (IS-10500-2012)		Total no of ground water samples	Deeper aquifer					
				Samples (<DL)		Samples (DL-MPL)		Samples (>MPL)	
	DL	MPL		No	%	No	%	No	%
pH	6.5-8.5	-	102			92	90.2	10	9.8
TDS	500	2000	102	54	52.94	46	45.1	2	1.96
TH	300	600	102	68	66.67	24	23.53	10	9.8
Ca (mg/L)	75	200	102	72	70.59	25	24.51	5	4.9

Parameter	Drinking water Standards (IS-10500-2012)		Total no of ground water samples	Deeper aquifer					
				Samples (<DL)		Samples (DL-MPL)		Samples (>MPL)	
	DL	MPL		No	%	No	%	No	%
Mg (mg/L)	30	100	102	60	58.82	37	36.27	5	4.9
Cl (mg/L)	250	1000	102	81	79.41	21	20.59	1	0.98
SO_4 (mg/L)	200	400	102	89	87.25	9	8.82	4	3.92
NO_3 (mg/L)	45	No relax	102	84	82.35	-	-	18	17.65
Fe (mg/L)	0.3	1	102	99	97.06	2	1.96	1	0.98
F (mg/L)	1	1.5	87	77	88.51	4	4.6	6	6.9

(Here, DL- Desirable Limit, MPL- Maximum Permissible Limit)

7.5 SUITABILITY OF GROUND WATER FOR IRRIGATION

The water used for irrigation is an important factor in productivity of crop, its yield and quality of irrigated crops. The quality of irrigation water depends primarily on the presence of dissolved salts and their concentrations. The Electrical Conductivity (EC), Sodium Absorption Ratio (SAR) and Residual Sodium Carbonate (RSC) are the most important quality criteria, which influence the water quality and its suitability for irrigation.

Electrical Conductivity (EC)

The amount of dissolved ions in the water is best represented by the parameter electrical conductivity. The classification of water for irrigation based on the EC values is given in **Table 7.6** and discussed as follows: -

Low Salinity Water (EC: 100-250 µS/cm): This water can be used for irrigation with most crops on most soils with little likelihood that salinity will develop.

Medium Salinity Water (EC: 250 – 750 µS/cm): This water can be used if moderate amount of leaching occurs. Plants with moderate salt tolerance can be grown in most cases without special practices for salinity control.

High Salinity Water (EC: 750 – 2250 µS/cm): This water cannot be used on soils with restricted drainage.

Even with adequate drainage, special management for salinity control may be required and plants with good salt tolerance should be selected.

Very High Salinity Water (EC: >2250 µS/cm): This water is not suitable for irrigation under ordinary condition. The soils must be permeable, drainage must be adequate, irrigation water must be applied in excess to provide considerable leaching and very salt tolerant crops should be selected.

Table 7.6: Classification of Ground water for Irrigation based on EC values

S. No.	Water Quality Type	EC in µS/cm	shallow aquifer		Deeper Aquifer	
			No. of samples	% of samples	No. of samples	% of samples
1	Low Salinity Water	< 250	8	4.49	4	3.92
2	Medium Salinity Water	250 to 750	74	41.57	38	37.25
3	High Salinity Water	750 to 2250	78	43.82	49	48.04

S. No.	Water Quality Type	EC in µS/cm	shallow aquifer		Deeper Aquifer	
			No. of samples	% of samples	No. of samples	% of samples
4	Very High Salinity Water	> 2250	18	10.11	11	10.78
Total			178		102	

In shallow as well as deeper aquifer,maximum numbers of samples fall under the category of medium to high salinity type of water. In general, Plants with moderate salt tolerance can be grown in most cases and special management for salinity control may be required and plants with good salt tolerance should be selected. In shallow aquifer around Khadki & Kalamb, Ambegaon taluka, Bhondvewadi, Jalgaon Supe, Nirvagaj, Medad & Morgaon, Baramati taluka, Rahu Sonwadi & Daund, Daund taluka, Pimparisandas & Bhosari, Haveli taluka, Giravi, Ranmodwadi, Varkute Bk & Lumewadi, Indapur taluka and Mawadi Kp & Jawalarjun, Purandhar taluka andindeeper aquifer around Ranjangaon, Shirurtaluka, Ambegaon, Daund taluka, Rui, Chandaydewadi & Sonwadisupe, Baramati taluka, Nimgaon, Khed taluka and Nhavi Sanaas, Havelitaluka,wherevery high salinity prevails (>2250 µS/cm), ground water can be used for irrigation for very high salt tolerant crops and with proper soil and crop management practices

Sodium Absorption Ratio (SAR)

Since Calcium and Magnesium will replace Sodium more readily than vice versa, the ratio reflects the Sodium hazard. The SAR indicates the relative activity of the Sodium ions in exchange reactions with the soil. The main problem with high sodium concentration is its effect on soil permeability; hardening of soil & water irrigation system. Sodium also contributes directly to the total salinity of the water and may be toxic to sensitive crops such as fruit trees. The higher value of SAR indicates soil structure damage.

It is observed that Sodium hazard is not present in ground water of the area in shallow as well as deeper aquifer, and as per SAR values, the water is suitable for irrigation.In shallow aquifer, out of 99.43 samples are having SAR less than 18 in 'Good' and '**Good to Permissible' category**.While in deeper aquifer, 100% samples are having SAR value less than 10 in'**Good' category'**. The classification of ground water samples based on SAR values for its suitability for irrigation purpose is shown in **Table 7.7**.

Table 7.7: Classification of Ground water for Irrigation based on SAR values

Characteristics	**Quality**	**SAR value**							
		< 10		**10-18**		**18-26**		**> 26**	
		Good		**Good to Permissible**		**Doubtful**		**Bad (Unsuitable)**	
	Total No of GW samples	**No. of Samples %**		**No. of Samples %**		**No. of Samples %**		**No. of Samples %**	
Shallow Aquifer	178	175	98.31	2	1.12	0	0.00	1	0.56
Deeper Aquifer	102	102	100.00	0	0.00	0	0.00	0	0.00
Total	**280**	**277**	**98.93**	**2**	**0.71**	**0**	**0.00**	**1**	**0.36**

Residual Sodium Carbonate (RSC):

Residual Sodium Carbonate (RSC) is considered to be superior to SAR as a measure of sodacity particularly at low salinity levels. Calcium reacts with bi-carbonate and precipitate as $CaCO_3$. Magnesium salt is more soluble and so there are fewer tendencies for it to precipitate. When calcium and magnesium are lost from the water, the proportion of sodium is increased resulting in the increase in sodium hazard. This hazard is evaluated in terms of RSC. The classification of ground water samples based on RSC values for its suitability for irrigation purpose is shown in **Table 7.8**.

Table-7.8: Classification of Ground water for Irrigation based on RSC values.

Characteristics	Quality	RSC values (meq/L)					
		< 1.25		1.25-2.50		> 2.50	
		Good		Doubtful		Bad (Unsuitable)	
	Total No of GW samples	No. of Samples %		No. of Samples %		No. of Samples %	
Shallow Aquifer	178	167	93.82	3	1.69	8	4.49
Deeper Aquifer	102	90	88.24	8	7.84	4	3.92
Total	**280**	**257**	91.79	**11**	3.93	**12**	4.29

In shallow aquifer, it is observed that in general, the ground water of the area is suitable for irrigation as 93.82 % samples show RSC values less than 1.25 meq/l.Only2.25% samples show RSC values more between 1.25 meq/l and 2.50 meq/l, at Rui, Indapur taluka, Daund, Daund taluka, Pimpalwandi, Junnar taluka and Kasurdi bk, Haveli taluka and 4.5% samples show RSC values more than 2.50 meq/l at Shirasgaon Kata, Shirur taluka, Ravangaon & Patas, Daund taluka Manchar, Ambegaon taluka Rui, Loni Deokar & Shetfal, Indapur taluka and Medad, Baramati taluka -ground water of the these areas is not suitable for irrigation.

Ground water of deeper aquifer of the area, in general, is suitable for irrigation as 88.24 % samples show RSC values less than 1.25 meq/l.Only 2.25% samples show RSC values between 1.25 and 2.50 meq/l, at Dehane & Bhorgiri, Khed taluka, Khamunai & Wanewadi, Junnar taluka, Wadgaon Nimbalkar & Pandare, Baramati taluka and Vakil Basti, Indapur taluka and 4.5% samples show RSC values more than 2.50 meq/l at Sasvad, Purandhar taluka, Wadgaon Nimbalkar, Baramati taluka, Chikhali, Khed taluka and Koregaon Mul, Haveli taluka - ground water of the these areas is not suitable for irrigation.

8. Ground Water Resources

8.1 Ground Water Resources – Aquifer-I

Central Ground Water Board and Ground Water Survey and Development Agency (GSDA) have jointly estimated the ground water resources of Pune district based on GEC-97 methodology.Taluka wise ground water resources are given in **table 8.1**, and graphical representations of the resources on the map are shown in **Figure-8.1**.

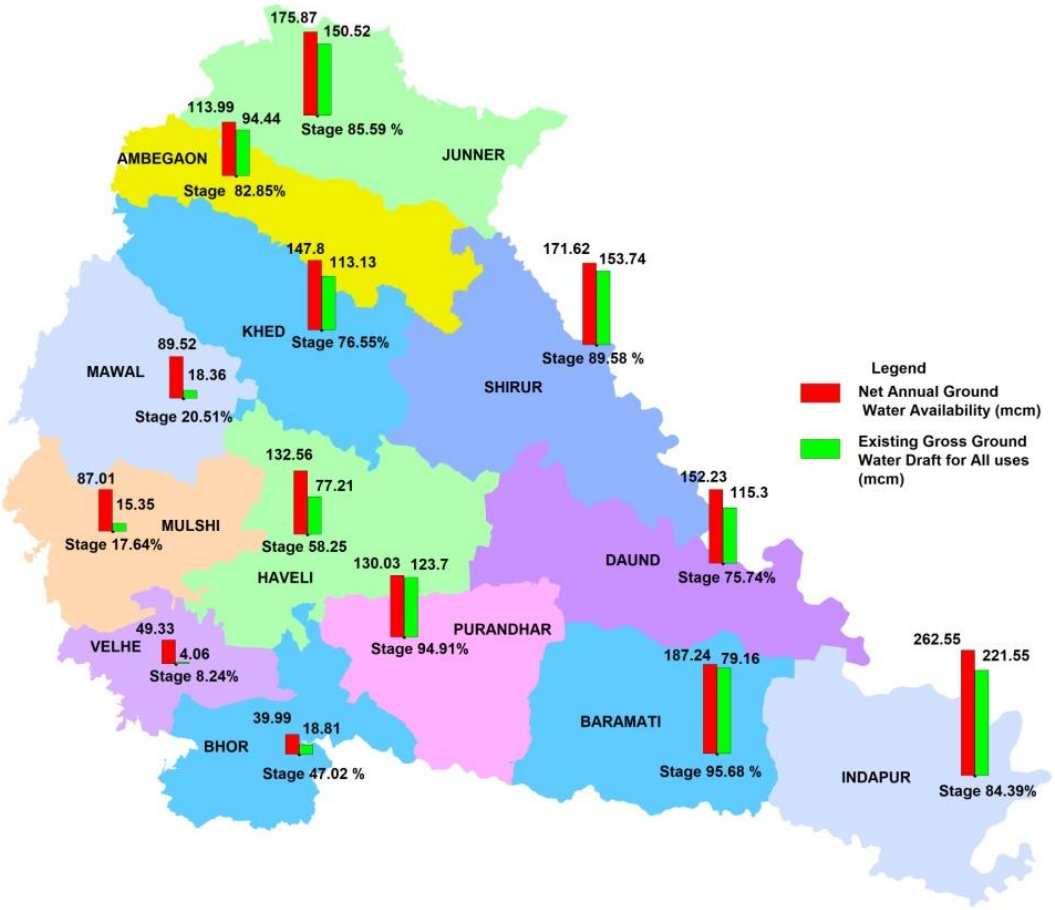


Fig 8.1: Ground Water Resources

Table 8.1: **Ground water resources, Aquifer-I (Shallow aquifer), Pune district (2013)**

Administrative Unit	Command / Non-Command / Total	Net Annual Ground Water Availability	Existing Gross Ground Water Draft for irrigation	Existing Gross Ground Water Draft for domestic and industrial water supply	Existing Gross Ground Water Draft for All uses	Provision for domestic and industrial requirement supply to 2025	Net Ground Water Availability for future irrigation development	Stage of Ground Water Development %
Ambegaon	Command	3126.62	2926.46	144.30	3070.76			
Ambegaon	Non Command	8272.41	6070.89	302.53	6373.42			
Ambegaon	Total	11399.03	8997.35	446.82	9444.17	701.24	1904.22	82.85 /Safe
Baramati	Command	9516.01	9352.66	225.17	9577.83			
Baramati	Non Command	9208.90	8098.19	240.80	8338.99			
Baramati	Total	18724.91	17450.85	465.97	17916.82	780.16	1062.70	95.68 /Semi-Critical
Bhor	Command	408.94	12.30	24.32	36.61			

Administrative Unit	Command / Non-Command / Total	Net Annual Ground Water Availability	Existing Gross Ground Water Draft for irrigation	Existing Gross Ground Water Draft for domestic and industrial water supply	Existing Gross Ground Water Draft for All uses	Provision for domestic and industrial requirement supply to 2025	Net Ground Water Availability for future irrigation development	Stage of Ground Water Development %
Bhor	Non Command	3590.90	1606.22	237.87	1844.09			
Bhor	Total	3999.84	1618.52	262.19	1880.70	520.43	1860.89	47.02 /Safe
Daund	Command	9463.84	6567.04	245.51	6812.55			
Daund	Non Command	5759.30	4494.99	223.16	4718.15			
Daund	Total	15223.14	11062.02	468.68	11530.70	895.21	3261.98	75.74 /Safe
Haveli	Command	2705.11	1842.32	272.94	2115.26			
Haveli	Non Command	10551.33	4812.25	794.08	5606.32			
Haveli	Total	13256.44	6654.57	1067.02	7721.59	2146.82	4474.69	58.25 /Safe
Indapur	Command	21539.42	14692.44	1101.53	15793.97			
Indapur	Non Command	4715.88	6261.47	100.35	6361.82			
Indapur	Total	26255.29	20953.91	1201.88	22155.79	1879.84	5362.92	84.39 /Safe
Junnar	Command	5497.52	4570.65	150.02	4720.67			
Junnar	Non Command	12090.11	9934.15	398.13	10332.29			
Junnar	Total	17587.63	14504.80	548.16	15052.96	938.74	2402.36	85.59 /Safe
Khed	Command	2080.44	2007.14	236.50	2243.64			
Khed	Non Command	12699.17	8280.28	789.68	9069.96			
Khed	Total	14779.60	10287.42	1026.19	11313.61	1954.16	2964.95	76.55 /Safe
Maval	Command	495.35	86.06	28.37	114.43			
Maval	Non Command	8457.11	1365.92	356.03	1721.95			
Maval	Total	8952.47	1451.98	384.40	1836.38	767.45	6732.61	20.51 /Safe
Mulshi	Command	634.72	163.26	22.97	186.23			
Mulshi	Non Command	8067.09	644.76	703.91	1348.68			
Mulshi	Total	8701.82	808.02	726.88	1534.90	1453.76	6440.03	17.64 /Safe
Purandhar	Command	2261.83	1009.07	26.97	1036.04			
Purandhar	Non Command	10772.04	11027.11	307.06	11334.17			
Purandhar	Total	13033.87	12036.18	334.03	12370.21	579.21	992.23	94.91 /Semi-Critical
Shirur	Command	7819.84	6530.88	435.12	6965.99			
Shirur	Non Command	9342.15	7901.20	507.35	8408.55			
Shirur	Total	17161.99	14432.07	942.47	15374.54	1573.85	2378.42	89.58 /Safe
Velhe	Command	62.88	2.51	18.91	21.42			
Velhe	Non Command	4870.43	263.09	122.22	385.31			
Velhe	Total	4933.31	265.60	141.12	406.73	253.54	4395.51	8.24/Safe
Total (ham)		174009.35	120523.31	8015.80	128539.11	14444.40	44233.51	73.87 /Safe
Total (MCM)		1740.09	1205.23	80.16	1285.39	144.44	442.34	

Ground Water Resources estimation was carried out for 12480.06 sq. km. area(15642sq. km. Geographical area –2884.73sq. km. hilly area - 277.21 sq. km. area has poor ground water quality area), out of which 3378.17 sq. km. is under command and 9101.89 sq. km. is non-command. As per the estimation, the net annual ground water availability comes to be 1740.09 MCM. The gross draft for all uses is estimated at 1285.39 MCM with irrigation sector being the major consumer having a draft of 1205.23 MCM. After making provision for Domestic and Industrial Supply, projected for 2025, kept as 144.44 MCM, Ground Water

Availability for future Irrigation is 442.34 MCM. Stage of ground water development varies from 47.02% (Bhor taluka) to 94.91 % (Purandhar taluka). The overall stage of ground water development for the district is 73.87%. Two Talukas namely Baramati and Purandhar are categorized as "Semi-Critical" where stage of ground water development is computed as 95.68% and 94.91 % respectively, while rest of the Talukas are categorized as "Safe".

8.2 Ground Water Resources – Aquifer-II

The ground water resources of Aquifer-II (Basalt) were also assessed to have the correct quantification of resources so that proper management strategy can be framed. The total resources of aquifer-II have been estimated as 259.64 MCM. Taluka wise summarized Ground Water Resources of Aquifer-II are given in **table 8.2**.

Table 8.2: Taluka wise summarized Ground Water Resources of Aquifer-II (Deeper aquifer)

Taluka	Mean thickness (m)	Area (sqkm)	Piezometric head (m)	Sy	S	Resource above confining layer (MCM)	Resource in confining aquifer (MCM)	Total Resource (MCM)
AMBEGAON	2	325.4	35	0.005	0.00012	1.36668	3.254	4.62068
AMBEGAON	4.5	25.72	25	0.003	0.00036	0.22955	0.34722	0.57677
AMBEGAON	4.5	200.5	30	0.003	0.00026	1.54586	2.70675	4.25261
AMBEGAON	4.5	100.3	20	0.005	0.00012	0.24072	2.25675	2.49747
AMBEGAON	7.5	38.79	15	0.003	0.00016	0.09135	0.87278	0.96413
AMBEGAON	10.5	96.15	25	0.005	0.00016	0.37739	5.04788	5.42526
BARAMATI	0.75	88.8244	35	0.005	0.00012	0.37306	0.33309	0.70615
BARAMATI	0.75	9.25221	25	0.003	0.00036	0.08258	0.02082	0.10339
BARAMATI	0.75	20.8415	30	0.003	0.00026	0.16069	0.04689	0.20758
BARAMATI	2	771.953	20	0.005	0.00012	1.85269	7.71953	9.57222
BARAMATI	4.5	11.3855	15	0.003	0.00016	0.02681	0.1537	0.18052
BARAMATI	4.5	225.733	25	0.005	0.00016	0.886	5.07899	5.96499
BARAMATI	7.5	89.2504	35	0.005	0.00012	0.37485	3.34689	3.72174
BARAMATI	7.5	67.5332	25	0.003	0.00036	0.60273	1.5195	2.12223
BARAMATI	10.5	49.8139	30	0.003	0.00026	0.38407	1.56914	1.9532
BARAMATI	10.5	43.1501	20	0.005	0.00012	0.10356	2.26538	2.36894
BHOR	2	217.87	15	0.003	0.00016	0.51308	1.30722	1.8203
BHOR	4.5	19.8227	25	0.005	0.00016	0.0778	0.44601	0.52381
BHOR	4.5	102.548	35	0.005	0.00012	0.4307	2.30733	2.73803
DAUND	2	602.077	25	0.003	0.00036	5.37354	3.61246	8.986
DAUND	4.5	396.723	30	0.003	0.00026	3.05873	5.35576	8.41449
DAUND	4.5	211.722	20	0.005	0.00012	0.50813	4.76375	5.27188
DAUND	7.5	35.0147	15	0.003	0.00016	0.08246	0.78783	0.87029
DAUND	7.5	15.9861	25	0.005	0.00016	0.06275	0.59948	0.66222
DAUND	7.5	3.06496	35	0.005	0.00012	0.01287	0.11494	0.12781
HAVELI	4.5	58.1262	25	0.003	0.00036	0.51878	0.7847	1.30348

Taluka	Mean thickness (m)	Area (sqkm)	Piezometric head (m)	Sy	S	Resource above confining layer (MCM)	Resource in confining aquifer (MCM)	Total Resource (MCM)
HAVELI	4.5	207.266	30	0.003	0.00026	1.59802	2.79809	4.39611
HAVELI	7.5	312.2093	20	0.005	0.00012	0.7493	11.7078	12.4572
HAVELI	7.5	60.4811	15	0.003	0.00016	0.14243	1.36082	1.50326
HAVELI	10.5	0.000127	25	0.005	0.00016	5E-07	6.7E-06	7.2E-06
VELHE	2	577.847	15	0.003	0.00016	1.36083	3.46708	4.82791
INDAPUR	2	540	30	0.005	0.00025	4.05	5.4	9.45
INDAPUR	4.5	725.8	25	0.003	0.00016	2.84877	9.7983	12.6471
INDAPUR	7.5	202.1	25	0.003	0.00016	0.79324	4.54725	5.34049
JUNNER	2	373.6	30	0.005	0.00012	1.34496	3.736	5.08096
JUNNER	4.5	156.5	30	0.003	0.00026	1.20662	2.11275	3.31937
JUNNER	7.5	567.6	20	0.005	0.00012	1.36224	21.285	22.6472
KHED	2	528.577	30	0.005	0.00025	3.96433	5.28577	9.2501
KHED	4.5	137.224	25	0.003	0.00016	0.5386	1.85252	2.39113
KHED	4.5	303.312	25	0.003	0.00016	1.1905	4.09471	5.28521
KHED	7.5	20.3771	30	0.005	0.00012	0.07336	0.76414	0.8375
KHED	7.5	108.417	30	0.003	0.00026	0.8359	2.43938	3.27528
KHED	10.5	185.809	20	0.005	0.00012	0.44594	9.75497	10.2009
MAWAL	0.75	163.038	30	0.005	0.00025	1.22279	0.61139	1.83418
MAWAL	2	434.235	25	0.003	0.00016	1.70437	2.60541	4.30978
MAWAL	4.5	134.783	25	0.003	0.00016	0.52902	1.81957	2.34859
MAWAL	7.5	54.6315	30	0.005	0.00012	0.19667	2.04868	2.24535
MULSHI	0.75	54.341	30	0.003	0.00026	0.41897	0.12227	0.54124
MULSHI	2	277	20	0.005	0.00012	0.6648	2.77	3.4348
MULSHI	4.5	113.28	30	0.005	0.00025	0.8496	2.5488	3.3984
PUNE CITY	2	1011	25	0.003	0.00016	3.96818	6.066	10.0342
PURANDHAR	0.75	9.73975	25	0.003	0.00016	0.03823	0.02191	0.06014
PURANDHAR	0.75	198.319	30	0.005	0.00012	0.71395	0.7437	1.45764
PURANDHAR	2	632.139	30	0.003	0.00026	4.87379	3.79283	8.66663
PURANDHAR	4.5	126.117	20	0.005	0.00012	0.30268	2.83763	3.14031
PURANDHAR	4.5	9.34553	30	0.005	0.00025	0.07009	0.21027	0.28037
PURANDHAR	4.5	0.228842	25	0.003	0.00016	0.0009	0.00309	0.00399
SHIRUR	2	722.099	25	0.003	0.00016	2.83424	4.33259	7.16683
SHIRUR	4.5	297.75	30	0.005	0.00012	1.0719	6.69938	7.77128
SHIRUR	7.5	466.178	30	0.003	0.00026	3.59423	10.489	14.0832
						64.8969	194.746	259.643

9.0 Ground Water Related Issues

9.1 Low Ground Water Potential

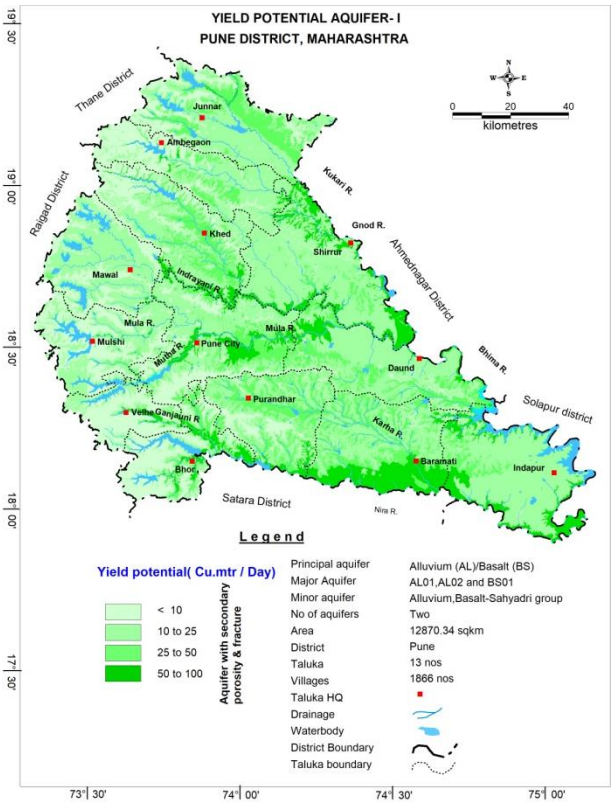
Aquifer – I

Low ground water potential areas have been identified in major part of Pune District, Yield isless than 25 m^3/day, mostly due to limited depth of weathering and fractures in Aquifer-I (Basalt**).**

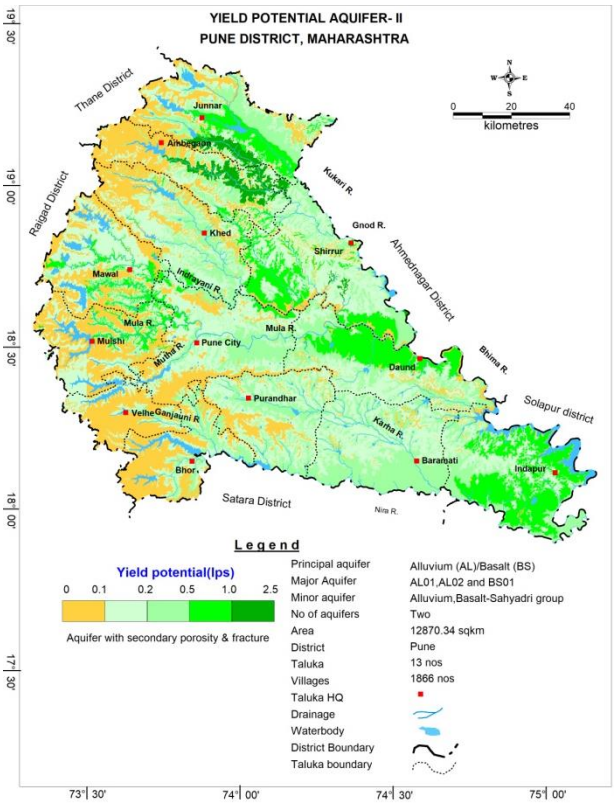
Aquifer – II

Limited aquifer potential of Aquifer-II (Basalt) is seen inin major part of Pune District, especially in about 2388.5 sq km (about 71.27 % of Ambegaon, Indapur & Junnar taluka, having yield potential less than 1.0 lps.

Sustainability of both the aquifers is limited and the wells normally sustain pumping of 0.5 to 3 hours .

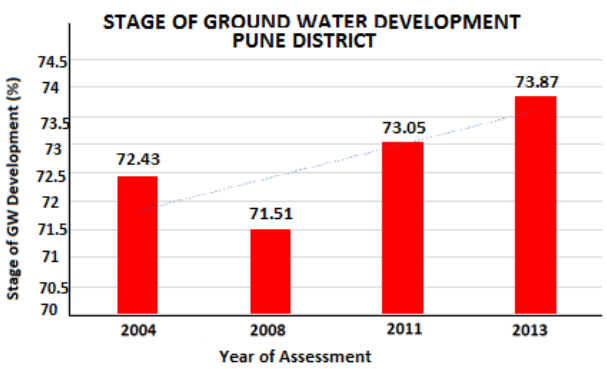


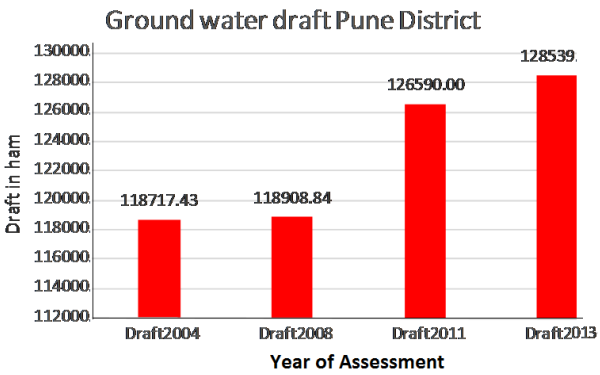
Aquifer -I yield potential



Aquifer -II yield potential

9.2 Exploitation of Ground Water - Continuous Increase in Draft and Increase in Stage of Ground Water Development

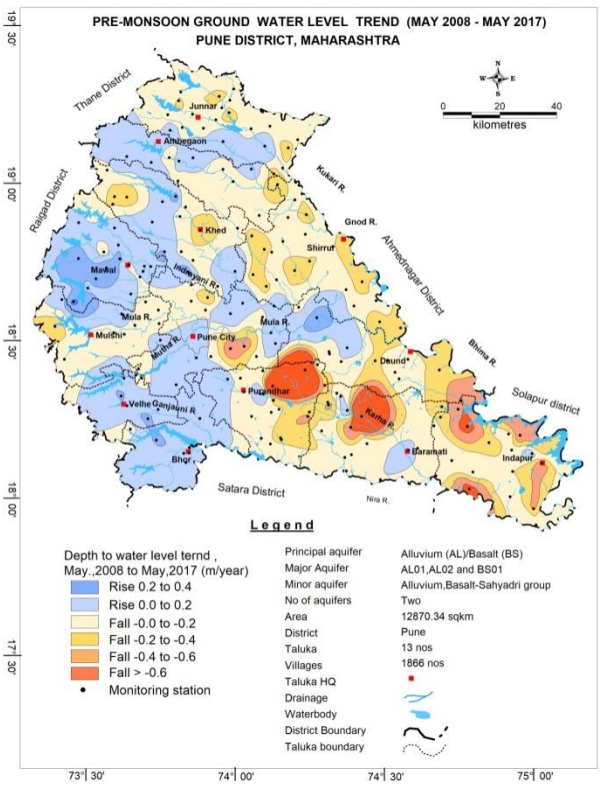




The stage of ground water development has increased over the period of time from 2004 to 2013 in all the talukas from 72.43 % to 73.87 % .The main reason for ground water overdraft is intensive irrigation for cash crop. Overall draft for these talukas has increased from 1187.17 MCM in 2004 to 1285.39 MCM in 2013

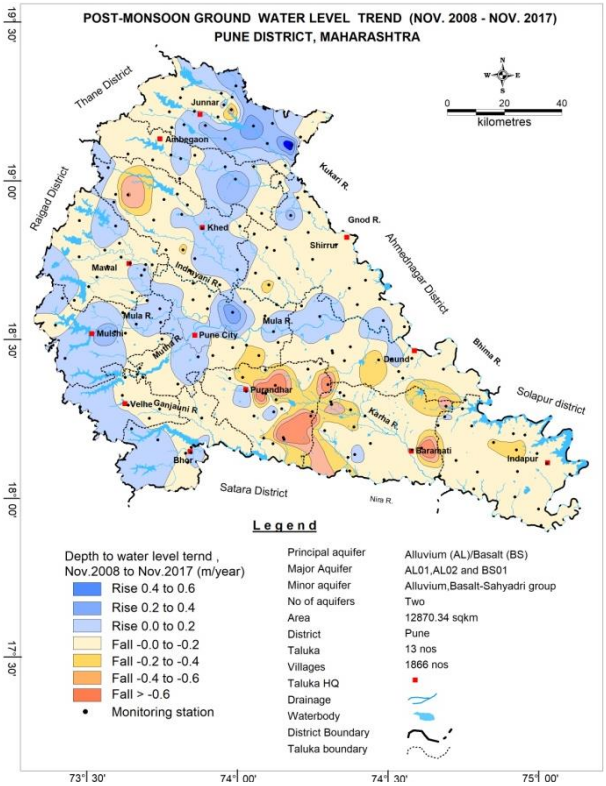
Declining Water Levels

Low rainfall, frequent droughtand ground water exploitation has resulted in decline of water levels over the period of time. In premonsoon season, decline more than 0.20 m/year has been observed in 3300 sq km, i.e., 21 % area covering part of Purandhar, Baramati, Indapur, Haveli and Daund talukas and isolated parts of Khed, Shirur, Junnar and Mulshi talukas. In post monsoon season,decline more than 0.20 m/year has been observed in 1395 sq km, i.e., 8.9 % area covering patches in part of Purandhar, Baramati and Khed talukas.



Pre-monsoon decadal trend (2008-17)

Fall @>0.2m/year (3300 Sq km)



Postmonsoon decadal trend (2008-17)

Fall@>0.2m/year(1395 sq km)

9.2 Low Rainfall (Rain Shadow area) and Droughts

Based on the decadal rainfall trend analysis from 2008 to 2017 it is observed that the all talukas of Pune district experience low and declining rainfall trend since from 2013 to 2016 (2017, however, recorded good rainfall), and drought area have been observed in eastern part of the district i.e., Daund, Indapur, Baramati, Purandhar, Shirur and Haveli. These talukas are also experiencing decling rainfall trend @ 0.74 mm/yr at Indapur, -1.29 mm/year at Ambegaon and @ -1.374 mm/yr at Junnar. Thus indicating that these talukas are experiencing low and declining rainfall with frequent droughts.

9.4 Caving and loss of drilling formation: Red boles, black boles, the intertrappean beds, have collapsible nature when they are saturated. The weathered/highly fractured saturated formation at the contact zones also collapse as a result of which drill rods assembly gets stuck

up. This sometimes leads to loss of circulation of fluid there by compounding the problems further. The red bole is usually encountered at the depth of more than 170 m in this area with thickness ranging from 8 to 10 m. The water bearing zones encountered fills up the bore well and that infuses the bole beds in the succession resulting in the collapse of the bole beds. The casing or cement sealing of the red bole is not possible below 100 m bgl, as the present rig is equipped to lower casing down to 100 m bgl depth. Loss of air in jointed and fractured Basalt was observed during drilling. The problem can be solved by sealing the zones by lowering casing or by cement sealing. This process may often damage the potential aquifer zones if not carried out meticulously with proper equipment. This problem was noticed during drilling of exploratory well at CWPRS, Khadakwasla, Pune.

10.0 Management Plan

Talukawise aquifer management plan have been prepared for Aquifer I (Weathered and jointed fractured Basalt) and Aquifer II (jointed and fractured basalt), with the objective of bringing the current stage of ground water development up to 70% by adopting supply side and demand interventions, for the five talukas (out of 14 talukas of Pune District), namely, Ambegaon, Indapur, Junnar, Baramati and Purandhar talukas, where aquifer mapping has been completed till 2017-18.The management plan has been proposed to manage the ground water resources and to arrest further decline in water levels. The management plan comprises two components namelysupply-side management and demand side management. The supply side Managementis proposed based on surplus surface water availability and the unsaturated thickness of aquifer whereas the demand side management is proposed by use of micro irrigation techniques.Change in cropping pattern towards less water-intensive irrigation crops(Demand side intervention) has not been proposed in the area cash crop cultivation drives the economy of the region.

10.1 Supply Side Management

The supply side management of ground water resources can be done through the artificial recharge of surplus runoff available within river sub basins and micro watersheds. Also, it is necessary to understand the unsaturated aquifer volume available for recharge. The unsaturated volume of aquifer was computed based on the area feasible for recharge, unsaturated depth below 5mbgl and the specific yield of the aquifer. The **table 10.1** gives the district wise volume available for the recharge.

Table 10.1: Area feasible and volume available for Artificial Recharge

Taluka	Geographical Ground Water Mapable Area (sq. km.)	Area feasible for reacharge (Sqkm)	Unsaturated Volume (MCM)
Ambegaon	786.71	251.93	503.86
Indapur	1467.62	1144.09	2288.18
Junnar	1097.57	780.695	1561.39
Baramati	1383.63	559.67	1119.34
Purandhar	1082.46	249.935	499.87
Shirur	1486.91	1270.63	2541.26
Daund	1263.93	554.15	1108.3
Haveli	1215.54	598.63	1197.26
Velhe	231.94	141.2	282
Bhor	340.7	26.99	53.97
Maval	786.16	27.5	55
Mulshi	444.02	97.18	194.35
Khed	1283.15	64.22	128.44
Total	**12870.34**	**5766.82**	**11533.22**

The total unsaturated volume available for artificial recharge is 5972.64 MCM and it ranges from 499.87 MCM in Purandhar taluka to 2288.18 MCM in Indapur taluka. The available surplus runoff can be utilized for artificial recharge through construction of percolation tanks,

Check dams and recharge shafts at suitable sites. The number of percolation tanks, and check dams are decided based on the number of suitable streams available in the district.

Thus, after taking into consideration all the factors, only 73.16 MCM of surplus water can be utilised for recharge, which is given in **table 10.2**. This surplus water can be utilized for constructing 692 check dams with estimated expenditure of Rs. 207.6 crores and262 percolation tanks with estimated expenditure of Rs. 393 crores at suitable sites. The number of feasible artificial recharge structures was calculated by considering 0.20 MCM per percolation tanks and 0.03 MCM per check dam.This intervention should lead to recharge @ 75% efficiency of about 54.87 MCM/year.Tentative locations of these structures are given in **fig. 10.1** and details also given in **Annexure VII** (Prrcolation Tanks) and **Annexure VIII** (Check Dams).

Rainwater harvesting in urban areas can be adopted in 25% of the household with 50 Sq. m roof area. A total of 55 MCM potential can be generated by taking 80% runoff coefficient. The estimated cost for rainwater harvesting through rooftop is calculated as Rs. 134 crore. Hence, this technique is not economically viable and therefore it is not recommended.

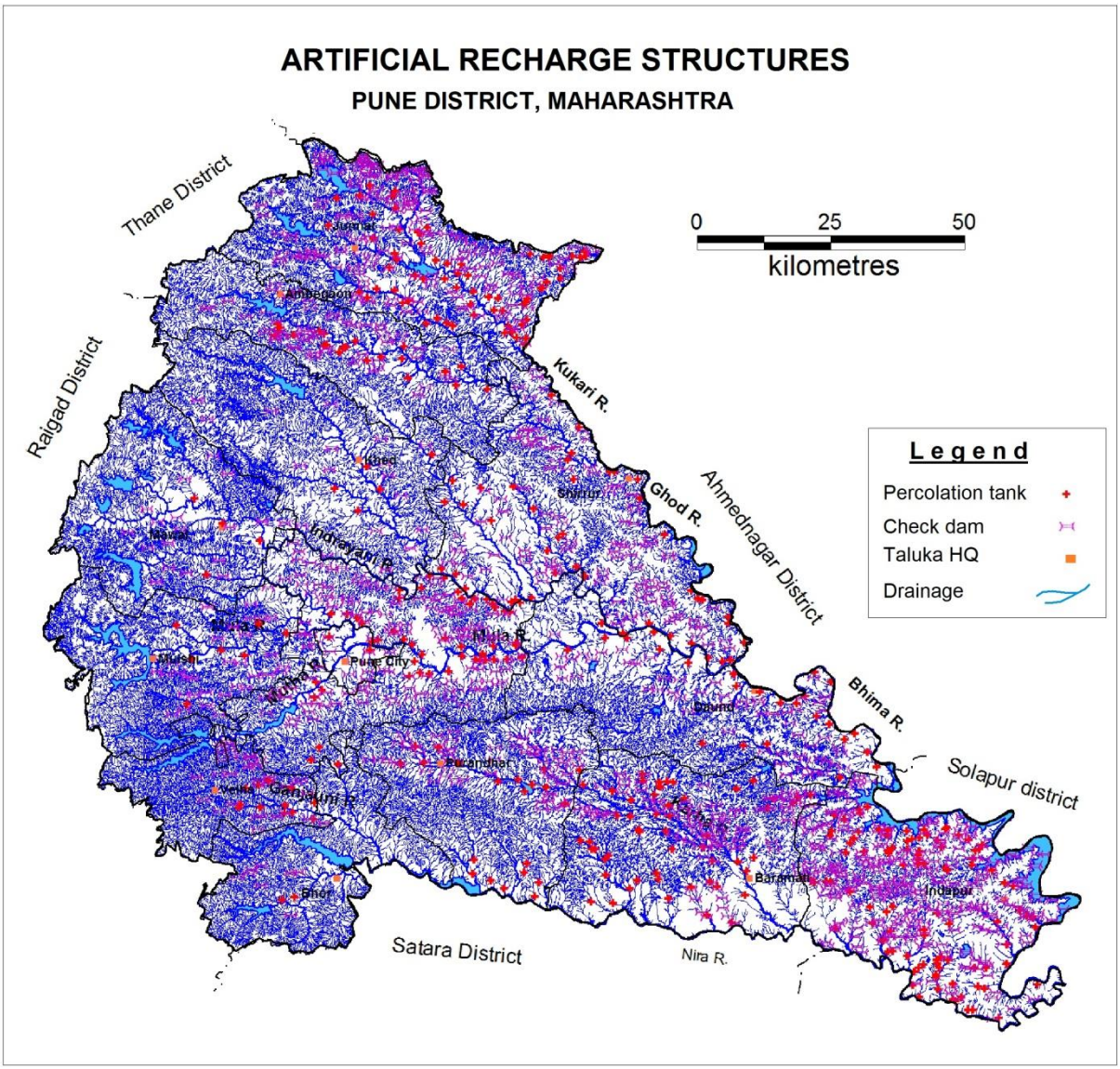


Figure 10.1: Proposed Artificial Recharge structures

Table 10.2: Proposed Recharge Structures

Taluka	Geographical Area (Sqkm)	Area feasible for recharge (sq. km.)	Unsaturated Volume (MCM)	Surplus water available for AR (MCM)	Proposed number of structures		Total Volume of Water expected to be recharged@ 75 % efficiency (MCM)		Total recharged @ 75 % efficiency (MCM)
					PT	CD	PT	CD	
Ambegaon	786.71	251.93	503.86	6.17	22	59	3.3	1.3275	4.63
Indapur	1467.62	1144.09	2288.18	28.03	98	281	14.7	6.3225	21.0225
Junnar	1097.57	780.695	1561.39	19.13	67	191	10.05	4.2975	14.3475
Baramati	1383.63	559.67	1119.34	13.71	54	97	8.1	2.1825	10.2825
Purandhar	1082.46	249.935	499.87	6.12	21	64	3.15	1.44	4.59
Shirur	1486.91	1270.63	2541.26	11.67	42	110	6.30	2.48	8.78
Daund	1263.93	554.15	1108.3	6.79	25	59	3.75	1.33	5.08
Haveli	1215.54	598.63	1197.26	14.67	51	148	7.65	3.33	10.98
Velhe	231.94	141.2	282	3.46	12	35	1.80	0.79	2.59
Bhor	340.7	26.99	53.97	0.66	2	8	0.30	0.18	0.48
Maval	786.16	27.5	55	1.35	4	18	0.60	0.41	1.01
Mulshi	444.02	97.18	194.35	2.38	7	32	1.05	0.72	1.77
Khed	1283.15	64.22	128.44	1.57	5	18	0.75	0.41	1.16
Total	**12870.34**	**5766.82**	**11533.22**	**115.71**	**410**	**1120**	**61.5**	**25.22**	**86.7225**

10.2 Demand Side Management

Demand side interventionssuch as change in cropping pattern has not been proposed in the area cash crop cultivation drives the economy of the region. However, as discussed earlier, there is a scope for increasing areas under micro-irrigation techniques like drip irrigation (about 372.5 sq km area of sugarcane,of which 166 sq. km. is under groundwater irrigation and 17.71 sq. km. area of onion crop as also about 40% of Double crop area (65.0 Sq km) is proposed to be covered under Drip).Volume of Water expected to be saved is estimated as 94.62 MCM in sugarcane crop (Sugarcane Surface Flooding irrigation req- 2.45 m. Drip Req. - 1.88, WUE- 0.57 m) and 28.51 MCM in Onion crop (Onion requirement - 0.78 m, Drip - 0.52 m) with Estimated Expenditure of Rs. 246.1116 Crore and Rs.46.1249 Crore respectively.

Table 10.3: Area Proposed for Drip Irrigation Demand Side Management

Taluka	Geographical Area (Sqkm)	Sugar cane crop area sqkm	Sugarcane crop area under ground water irrigation (100% ground water irrigated area proposed to be covered under Drip) (sq.km.)	Volume of Water expected to be saved (MCM). Surface Flooding req- 2.45 m. Drip Req. - 1.88, WUE- 0.57 m	Area proposed to be covered under Drip (sq.km.) Onion area	Volume of Water expected to be conserved (MCM). (Onion requirement - 0.78 m, Drip - 0.52 m)	Area proposed to be covered under Drip (sq.km.)double crop area	Volume of Water expected to be conserved (MCM). DC requirement - 0.90 m, Drip - 0.40 m,	Total water saved (MCM)
Ambegaon	786.71	44.04	20	11.4	2	0.52	-	-	11.92
Indapur	1467.62	89.34	40	22.8	5	1.3	-	-	24.10
Junnar	1097.57	78.17	30	17.1	2.71	0.7046	-	-	17.80

Baramati	1383.63	155.3	72	41.04		0	-	-	41.04
Purandhar	1082.46	5.62	4	2.28	8	2.08	65	26	30.36
Shirur	1486.91	38.04	24	13.68	10	2.6	28	11.2	27.48
Daund	1263.93	146.61	10	5.7	-	-	-	-	5.7
Haveli	1215.54	5.62	0	0	-	-	-	-	0
Velhe	231.94	5.62	0	0	-	-	-	-	0
Bhor	340.7	9.54	1	0.57	-	-	-	-	0.57
Maval	786.16	5.88	1	0.57	-	-	-	-	0.57
Mulshi	444.02	5.42	1	0.57	-	-	-	-	0.57
Khed	1283.15	1.74	1	0.57	5	1.3	20	8	9.87
Total	**12870.34**	**590.94**	**204**	**116.28**	**32.71**	**8.5046**	**113**	**45.2**	**169.98**

10.3 Expected Benefits

The impact of groundwater management plans on the groundwater system in the district after its implementation is evaluated and the outcome shows significant improvement in groundwater scenario in all talukas as given in the **Table 10.4.**

Table 10.4: Expected benefits after management options

Taluka	Water Recharged by Supply side intervention (MCM)	Water saving by demand side interventions (MCM)	Net Ground water availability (MCM)	Total ground water draft (MCM)	Ground water resources after supply side management(MCM)	Ground water Draft after demand side management (MCM)	Expected stage of Development (%)
Ambegaon	4.63	11.92	113.99	94.44	118.62	82.52	69.57
Indapur	21.02	24.10	262.55	221.55	283.57	197.45	69.63
Junnar	14.35	17.80	175.88	150.52	190.23	132.72	69.77
Baramati	10.28	41.04	187.25	179.17	197.53	138.13	69.93
Purandhar	4.59	30.36	130.34	123.70	134.93	93.34	69.18
Shirur	8.78	27.48	171.62	151.82	180.40	124.34	68.92
Daund	5.08	5.70	152.23	115.59	157.31	109.89	69.86
Haveli	10.98	0.00	132.56	77.31	143.54	77.31	53.86
Velhe	2.59	0.00	40.00	18.81	42.59	18.81	44.16
Bhor	0.48	0.57	49.33	4.01	49.81	3.44	6.91
Maval	1.01	0.57	89.52	18.31	90.53	17.74	19.60
Mulshi	1.77	0.57	87.02	15.35	88.79	14.78	16.64
Khed	1.16	9.87	147.80	113.69	148.96	103.82	69.70
Total	**86.72**	**169.98**	**1740.09**	**1284.26**	**1826.81**	**1114.28**	**61.0**

Development Plan:

The ground water development plan is recommended to bring the stage of development upto 70%.Balance ground water resources available for ground water development is 3.26 MCM after the stage of is bought up to 70% after implementing demand side management, which can bring additional 5.02 sq. km. area under assured ground water irrigation. The details of the development plan are given in **table 10.5**.

Table 10.5: Development Plan proposed to bring stage of ground water development up to 70% and additional area proposed to be brought under assured groung water irrigation

Taluka	Ground water resources after supply side management (MCM)	Ground water Draft after demand side management (MCM)	Expected stage of Development %	Balance GWR available for GW Development after STAGE OF GWD is brought to 70% (MCM)	Proposed No. of DW @1.5 ham for 90% of GWR Available)	Proposed No. of BW @1.5 ham for 10% of GWR Available)	Additional Area (sq.km.) proposed to be brought under assured GW irrigation with av. CWR of 0.65 m after 70% stage of GWD is achieved (Sq.Km)
Ambegaon	118.62	82.52	69.57	0.514	31	3	0.79
Indapur	283.57	197.45	69.63	1.05075	63	7	1.62
Junnar	190.23	132.72	69.77	0.43925	26	3	0.68
Baramati	197.53	138.13	69.93	0.14275	9	1	0.22
Purandhar	134.93	93.34	69.18	1.111	67	7	1.71
Shirur	180.40	124.34	68.92	1.9442	117	13	2.99
Daund	157.31	109.89	69.86	0.2279	14	2	0.35
Haveli	143.54	77.31	53.86	23.1705	1390	154	35.65
Velhe	42.59	18.81	44.16	11.006	660	73	16.93
Bhor	49.81	3.44	6.91	31.4271	1886	210	48.35
Maval	90.53	17.74	19.60	45.6271	2738	304	70.20
Mulshi	88.79	14.78	16.64	47.374	2842	316	72.88
Khed	148.96	103.82	69.70	0.4516	27	3	0.69
Total	**1826.81**	**1114.28**	**61.0**	**164.49**	**9870**	**1096**	**253.06**

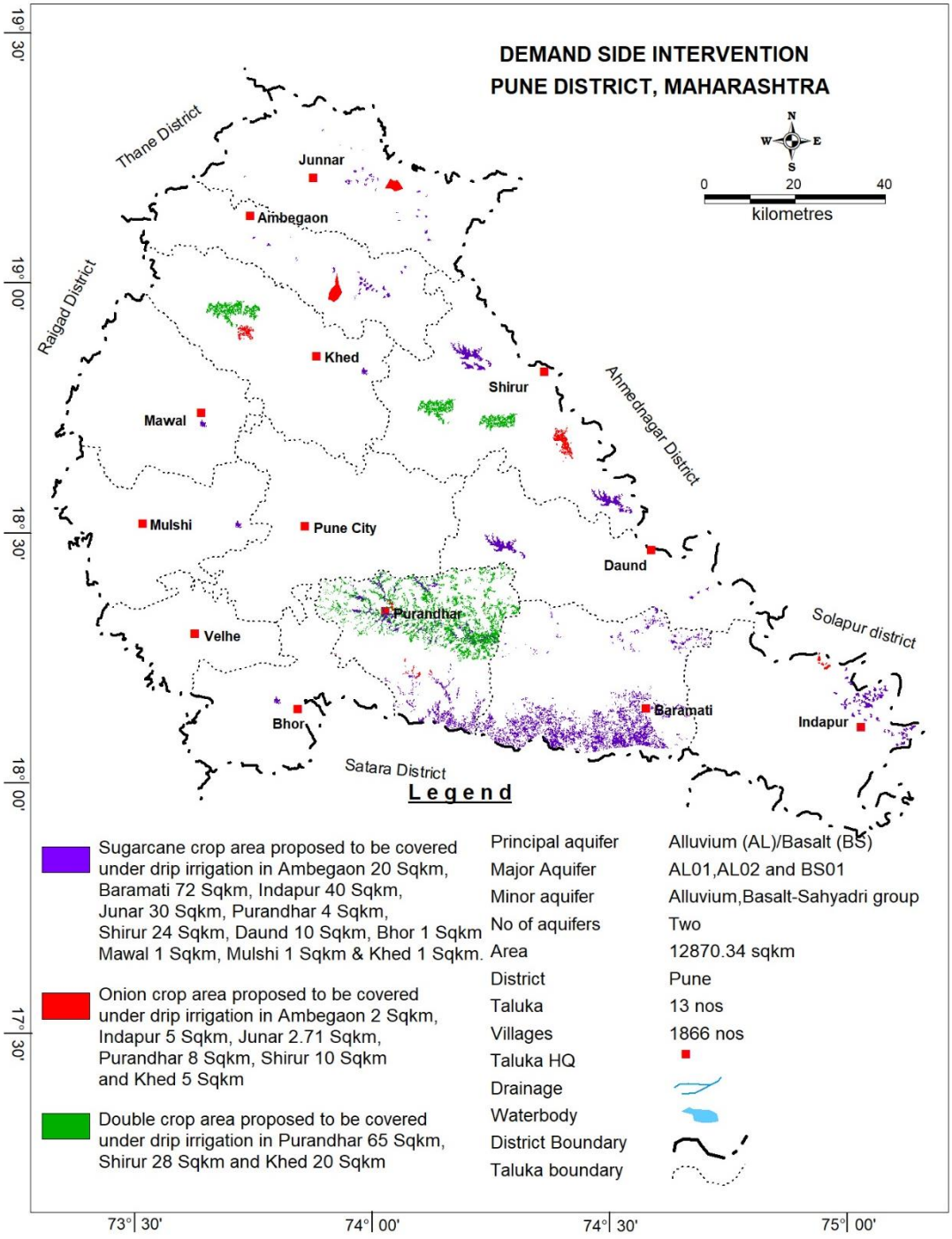


Figure 10.2: Demand Side Intervention

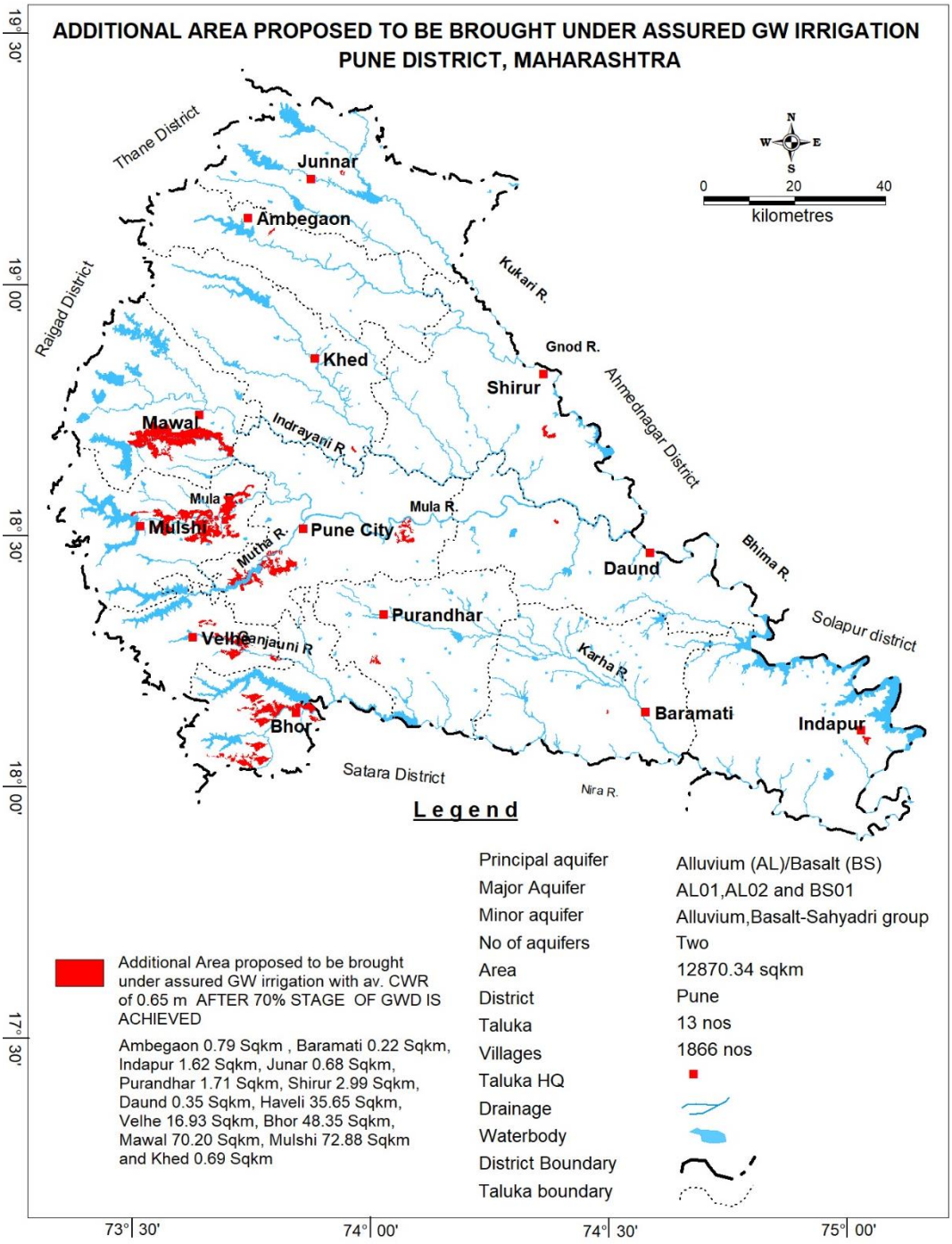


Figure 10.3: Additional area Proposed to be bought under Assured GW irrigation

SUM UP

A thorough study was carried out based on data gap analysis, data generated in-house, data acquired from State Govt. departments and GIS maps prepared for various themes. All the available data was brought on GIS platform and an integrated approach was adopted for preparation of taluka wise aquifer maps and aquifer management plans of Pune district.

Pune is the second largest district of Maharashtra State in respect of area, with a geographical area of 15642 sq. km. The district forms part of Western Ghat and Deccan Plateau. Physiographically the district shows a hilly and undulating terrain, with altitude ranging between 100 and 500 m above MSL - Pune stands on the leeward side of the Western Ghats. The district comes under Krishna River Basin and is drained by River Bhima and its tributaries, namely Pushpavati, Krushnavati, Kukadi river, Meena, Ghod River, Bhama, Andhra, Indrayani river, Pavna River, Mula river, Mutha river, Ambi, Mose, Shivganga, Kanandi, Gunjavni, Welvandi river, Nira river, Karha river, and Velu. The average rainfall is about 1000 mm.The drought prone areas in the east receive rainfall of 500 to 600 mm.Talukas with the low rainfall intensity, the dry and semi-arid zone (rainfall < 500 mm,being a rain shadow region of the Sahyadrian mountainous zone) are Shirur, Daund, Indapur and Baramati.

Deccan Trap Basalt of upper Cretaceous to lower Eocene age is the major rock formation in the district, whereas only a very narrow belt confined to the banks of rivers is underlain by Recent Alluvium. Alluvium and Basalt aquifers are the main aquifers in the district. Two aquifer Systems in Basalt and one shallow aquifer in Alluvium (limed to river banks) are found to be prevailing in the district. Deccan basalts are hydrogeologically in-homogeneous rocks. The weathered and jointed /fractured parts of the rock, as also permeable inter-flow beds constitute the zone of ground water storage and flow.

For aquifer-I (Deccan Trap- Weathered/Fractured Basalt), yield varies from 10 to 100 m3/day, the specific capacity of the wells ranges from 1.7 to 18.9 lpm/m of draw down, the permeability ranges from 12 to 65 m/day and the transmissivity ranges from 5.0 to 55 m2/day. The specific yield ranges from 0.019 to 0.028. The depth to water levels during premonsoon (May 2017) ranges between 0.9 (Jambhul, Mawal taluka) and 30.35 mbgl (Pargaon, Purandhar taluka) and during post-monsoon (Nov. 2017) ranges between ground level (Kondhawale, Tamhini Bk and Viseghar, Mulshi taluka, Vadgaon Mawal, Mawal taluka and Ambhu, Khed taluka) and 25.2 mbgl (Pargaon, Purandhar taluka).Deep water levels of the order of 20 m bgl are observed in patches in Haveli, Ambegaon, Junnar, Shirur, Indapur, Baramati and Purandhar talukas.The analysis of hydrographs show rising trends of water levels during the premonsoon and postmonsoon periods, inspite of the fact that Ambegaon, Indapur, Junnar, Baramati and Purandhar talukas of Pune district have stage of ground water development higher than 80%. This is partly due to 'above average' rainfall during 2017 and partly due to seepage from canals and percolation from rain water harvesting structures, that are increasingly becoming popular in the district. For Pune district, as per Ground Water Resource Estimation (2013), the net annual ground water availability is 1740.09 MCM. The gross draft for all uses is estimated at 1285.39 MCM with irrigation sector being the major consumer having a draft of 1205.23 MCM.The overall stage of ground water development for the district is 73.87%. Two Talukas namely Baramati and Purandhar are categorized as "Semi-Critical" where stage of ground water development is computed as 95.68% and 94.91 % respectively, while rest of the Talukas

are categorized as “Safe”.

In Deeper Aquifer-II (Jointed/Fractured Basalt), yield is low (less than 2.5 lps),the transmissivity varies from 18 to 89 m2/day. The storage coefficient varied between 0.00034 to 6.37 x10-4. The pre-monsoon depth to water levels during May 2017, range from 9.00 (Sherechiwadi, Wadgaon Nimbalkar, Baramati Taluka, CWPRS, Lohgaon,HaveliTaluka, and Lavale, Mulshi Taluka) to 70.00 mbgl (Ambhi Khurd, Pandhare, Baramati Taluka and Parainche, PurandharTaluka) and post monsoon (Nov. 2017) depth to water levels range between 1.50 (Singapur, Purandhar taluka) and 45.00 mbgl (Ambhi Khurd, Pandhare, Baramati Taluka and Parainche, PurandharTaluka).

In shallow aquifer, the quality of ground water is found suitable for drinking, domestic, and irrigation purposes. Around Khadki & Kalamb, Ambegaon taluka, Bhondvewadi, Jalgaon Supe, Nirvagaj, Medad & Morgaon, Baramati taluka, Rahu Sonwadi & Daund, Daund taluka, Pimparisandas & Bhosari, Haveli taluka, Giravi, Ranmodwadi, Varkute Bk & Lumewadi, Indapur taluka and Mawadi Kp & Jawalarjun, Purandhar taluka, very high salinity prevails (EC > 2250 µS/cm), ground water may be used for drinking only after suitable treatment and for irrigation, water can be used for very high salt tolerant crops and with proper soil and crop management practices. In shallow aquifer, high concentration of fluoride is found in Medad village, Baramati taluka (2.89 mg/l). RSC values more than 2.50 meq/l are found at Shirasgaon Kata, Shirur taluka, Ravangaon & Patas, Daund taluka Manchar, Ambegaon taluka Rui, Loni Deokar & Shetfal, Indapur taluka and Medad, Baramati taluka -ground water of the these areas is not suitable for irrigation.

In Deeper aquifer, the quality of ground water is found suitable for drinking, domestic, and irrigation purposes. Around Chandaydewadi, Sonwadisupe, Rui & Sherechiwadi, Baramati taluka, Ranjangaon, Shirur taluka, Rakh, Purandhar taluka and Nhavi Sanaas, Haveli taluka have more than one parameter like TH, Ca, Mg, Cl, SO4 and NO3 beyond the maximum permissible limit for drinking, indicating water from such area is not fit for drinking purpose if directly consumed without treatment. Fluoride concentration more than permissible limit is observed in ground water samples from deeper aquifer at Khamunai, Junnar taluka, Apti, Bhor taluka, Nhavi Sanaas, Haveli taluka, Sonwadisupe, Baramati taluka and Waghapur, Purandhar taluka and ground water from deeper aquifer of the these areas may be used with caution for drinking water.Ground water of deeper aquifer of the area, in general, is suitable for irrigation However, RSC values more than 2.50 meq/l at Sasvad, Purandhar taluka, Wadgaon Nimbalkar, Baramati taluka, Chikhali, Khed taluka and Koregaon Mul, Haveli taluka - ground water of the these areas is not suitable for irrigation.

Talukawise aquifer management plan have been prepared for Aquifer I (Weathered and jointed fractured Basalt) and Aquifer II (jointed and fractured basalt), with the objective of bringing the current stage of ground water development up to 70% by adopting supply side and demand interventions, for the five talukas (out of 14 talukas of Pune District), namely, Ambegaon, Indapur, Junnar, Baramati and Purandhar talukas, where aquifer mapping has been completed till 2017-18. The management plan has been proposed to manage the ground water resources and to arrest further decline in water levels. The management plan comprises two components namely supply-side management and demand side management. The supply side Management is proposed based on surplus surface water availability and the unsaturated thickness of aquifer whereas the demand side management is proposed by use

of micro irrigation techniques. Change in cropping pattern towards less water-intensive irrigation crops (Demand side intervention) has not been proposed in the area cash crop cultivation drives the economy of the region. The supply side interventions include utilizing 54.87 MCM (out of 73.162 MCM) of Surplus runoff water by a proposal to construct 410 Percolation Tanks and 1120 Check Dams. This supply side intervention should lead to recharge (@ 75% efficiency) of about 86.72 MCM/year. The demand side interventionsinclude proposal to bring 100 % ground water irrigated Sugarcane crop area (204 sq.km.) and Onion crop area (32 .71 sq. km. area of onion crop as also about 40% of Double crop area (113 Sq km) is proposed to be covered under Drip) to be covered under Drip Irrigation. Volume of Water expected to be saved is estimated as 116.26 MCM in sugarcane crop (Sugarcane Surface Flooding irrigation req- 2.45 m. Drip Req. - 1.88, WUE- 0.57 m) and 8.5 MCM in Onion crop (Onion requirement - 0.78 m, Drip - 0.52 m)

Balance ground water resources available for ground water development is 164.49 MCM after the stage of is bought up to 70% after implementing demand side management, which can bring additional 253.06 sq. km. area under assured ground water irrigation.

These interventions also need to be supported by regulation of deeper aquifer and hence it is recommended to regulate/ban deeper tubewells/borewells of more than 60 m depth in these talukas, so that the deeper ground water resources are protected for future generation and also serve as ground water sanctuary in times of distress/drought. IEC activities and capacity building activities needs to be aggressively propagated to establish the institutional framework for participatory ground water management.

Annexures

Annexure-I: Salient Features of Ground Water Exploration

S No	Taluka	Village	Type of Well	Longitude	Latitude	Drilling depth	Casing	AQ Zones	Pre SWL	Post SWL	PYT Discharge	AQI	AQII	Massive	Thickness AQII
						(m)	(m)	(m.bgl)	(m.bgl)		(m^3/hr)	(m.bgl)			(m)
1	Akole	Khireshwar	EW	73.8069	19.3808	200	2.5	16 -31 ,50 - 55	12	2.25	-	20	98	200	2
2	Ambegaon	Bhavdi	EW	73.8917	18.95	200	5.5	9 -15 ,27 - 33	18	12.9	-	15	90	200	1
3	Ambegaon	Pokhari	EW	73.6972	19.0694	200	2.75		21	14.15	-	20	90	200	1
4	Ambegaon	Shingave	OW			62.6	11.5	25.00-26.00, 30.00-32.50			7.76	20	32	63	2
5	Ambegaon	Shingave	EW			90			3.2			20	32	90	2
6	Ambegaon	Sriramnagar	EW	74.6979	18.4763	200	5.5	-18	21	17.2	1.14	17	84	200	3
7	Ambegaon	Takewadi	EW	73.94	19.0394	200	5.58		14	8.37	-	20	125	200	1
8	Baramati	Ambhi Khurd	EW	74.2839	18.3056	200	5.5	-	70	45	Traces	15	65	200	0.5
9	Baramati	Chandgudewadi	EW	74.31	18.2983	123.5	5.5	11.8, 12.3	17.8	4.43		15	120	123.5	6
10	Baramati	Chandgudewadi	OW	74.31	18.2983	200	5.5	43	17.8	5		21	135	200	0.5
11	Baramati	Choudharwadi	EW	74.2669	18.1703	200	5.6	109	17.8	5	1.37	20	109	200	3
12	Baramati	Dorlewadi	EW	74.6144	18.0931	200	5.5	105	27	24.1	3	25	105	200	3
13	Baramati	Dorlewadi	OW	74.6144	18.0931	200	5.5	35	27	24.1	Traces	15	70	200	0.5
14	Baramati	Loni Bhapkar	EW	74.3847	18.2289	200	5.5	-	25.5	12	0.38	20	125	200	1
15	Baramati	Pandhare	EW	74.4653	18.1408	200	11.5	-	70	45	Traces	15	75	200	0.5
16	Baramati	Parawadi	EW	74.6525	18.2814	142	11.5	65.00, 77.00, 141.00	18	4.85	7.76	25	141	142	9
17	Baramati	Parawadi	OW	74.6525	18.2814	200	5.5	159	18	7.85	2.16	20	159	200	9
18	Baramati	Rui	EW	74.6167	18.1875	198.2	5.5	12 -18 ,49 - 62 ,97 -152 ,70 -76 ,167 -174	11	4.87	8.24	25	174	198.2	12
19	Baramati	Rui	OW	74.6167	18.1875	58	3.7	15 -21 ,52 - 58	12	2.19	4.76	21	58	58	12
20	Baramati	Sherechiwadi	EW	74.3639	18.2819	195.2	6	9.2 -15.3, 33.6 -39.7, 112.9 -119, 91.6 -97.7, 128.2 - 143.4, 146.5 - 152.6	13	3.5	4.76	15	152	195.2	12
21	Baramati	Sherechiwadi	OW	74.3639	18.2819	152.6	23.5	9.2 -15.3	9	4.38	0.6	15	152	152.6	12
22	Baramati	Sherechiwadi	OW	74.3639	18.2819	24.5	7.2	9.2 -18.3	9	4.2	3.4	15	152	24.5	12
23	Baramati	Sonwadisupe	EW	74.5111	18.2611	200	3		30	21	0.6	20	90	200	2
24	Baramati	Tandulwadi	EW	74.5883	18.1825	93	5.5	30 .00, 91.00	11	2.3	12.18	30	91	93	3
25	Baramati	Tandulwadi	OW	74.5883	18.1825	200	5.5	149	19	11.1	2.16	20	149	200	3
26	Baramati	Wadgaon Nimbalkar	EW	74.3606	18.1297	200	8.5	24	9	5.1	2.16	24	90	200	3
27	Bhor	Apti	EW	73.7546	18.116	123	3	-18	19.34	8	-	18	90	123	1
28	Bhor	Apti	OW	73.7544	18.1158	200	5.5	-49	18.3	8	1.5	18	125	200	3

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						(m)	(m)	(m.bgl)	(m.bgl)		(m^3/hr)	(m.bgl)			(m)
29	Bhor	Bhor	EW	73.8415	18.1449	200	3	-21	16	5.85	-	21	105	200	1
30	Bhor	Kikavi1	EW	73.94475	18.200983	200	23.5	Water Zone I- 36.00 - 38.00 mbgl,Water zone II- 55.00-56.50 mbgl.		52.12	5	25	70	180	4
31	Bhor	Kikvi	OW	73.9481	18.2196	63	3.5	6.8 - ,24.5 -	30	14.25	2.34	26	60	63	4
32	Bhor	Kikvi	OW	73.9465	18.2196	60	3.5	-41	30	14.2	3.42	20	41	60	3
33	Bhor	Kikvi	EW	73.9471	18.2202	190	4.1	2.5 - ,26.5 - ,54 - ,42.7 -	30	14.2	6	26	125	190	6
34	Bhor	Narsapur	EW	73.8783	18.2458	92.25	11.5	16 - ,54 -	16.6	16.6	8.25	16	85	92.25	3
35	Bhor	Narsapur	OW	73.8783	18.2458	190	11.5	-84	13.45	13.45	-	16	85	190	3
36	Bhor	Pasure	EW	73.783548	18.194637	200	23.5	seepage 1 at 44.30, seepage 2 at 163.20 mbgl	80	45	meager	25	170	180	0.5
37	Bhor	Penjalwadi	EW	74.0222	18.1728	200	8	-27	17	11	0.62	27	125	200	2
38	Bhor	Salav	EW	73.734585	18.091413	200	23.5	seepage 108:30, Water Zone I- 160.00-163.20 mbgl		105	0.5	25	170	180	2
39	Daund	Ambegaon	EW	74.3583	18.4694	195.3	-	12 - ,184.5 -	14	7.95	1.05	19	145	195.3	2
40	Daund	Boribel	EW	74.6522	18.4042	152.5	2.65	5 - ,24 -	12	3.28	9.84	24	125	152.5	4
41	Daund	Boribel	OW	74.6522	18.4042	103.8	2.8	5 - ,25 -	12	3.49	12.18	25	90	103.8	4
42	Daund	Dahitane	EW	74.21078	18.546057	200	23.5	I-13.80-16.80, II-117.50-120.50, III-135.80-138.80, IV-178.50-181.50	120	110	meager	20	190	200	0.5
43	Daund	Khor	EW	74.3264	18.4	146.7	49	110 - ,143 -	17	4.3	3.17	25	143	146.7	6
44	Daund	Khor	OW	74.3264	18.4	150	-	35 - ,108 -	12	3.41	-	21	108	150	2
45	Daund	Kurkumbh	EW	74.539872	18.393242	200	5	I-73.70-74.80, II-93-95, III-101.00-102.20-	90.2	45	meager	10		200	0.5
46	Daund	Patas	EW	74.461243	18.435561	200	29.5	I-7-7.70, II-33-35		5.52	0.38	30	60	175	1
47	Daund	Vasunde	EW	74.5	18.3333	-	-		32	19	-	21	125	145	1
48	Daund	Vasunde	EW	74.5	18.3333	180	30	109 - ,178 -	32	19	9.84	25	178	180	6
49	Daund	Vasunde	OW	74.5	18.3333	180	-	98 - ,178 -	32	19	-	25	178	180	2
50	Haveli	CWPRS	EW	73.7911	18.4461	200	5.5	11 - ,49.5 -	14	5.6	4.08	20	135	200	4

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						(m)	(m)	(m.bgl)	(m.bgl)		(m^3/hr)	(m.bgl)			(m)
51	Haveli	CWPRS	OW	73.7911	18.4461	128	5.5	-47.5	12	4.5	-	20	90	128	2
52	Haveli	CWPRS-EW	EW	73.7784	18.4478	200	7.5	17-18,90-93	9	4	4.77	17	93	200	3
53	Haveli	CWPRS-OW	OW	73.7785	18.4475	172.4	23.5	20.30 - 21.30,119.50 -120.00	9	4	2.16	20	120	172.4	5
54	Haveli	Dighi	EW	73.8714	18.6106	158.6	4.85	11 - ,27.5 - 30.6 ,112 - ,63 - ,122	18	6.4	8.25	27	122	158.6	9
55	Haveli	Dighi	OW	73.8714	18.6106	42.7	4.85	16 - ,34 -	18	6.4	3.42	27	42	42.7	9
56	Haveli	Dighi	OW	73.8714	18.6106	200	4.4		18	6.4	-	27	122	200	9
57	Haveli	Khamgaon	EW	73.7333	18.3639	138.2	3		22.58	13	-	20	90	138.2	1
58	Haveli	Lohgaon	EW	73.9264	18.5736	197.3	4.5	09-Nov	9	2.54	1.5	15	110	197.3	3
59	Haveli	Manjari	EW	73.9738	18.5138	200	6.1	10 -12 ,49.5 -52	12	7.3	8.25	12	52	200	4
60	Haveli	Manjari	OW	73.9736	18.5133	32.5	6.1	-10	12	7.3	0.85	12	32	32.5	1
61	Haveli	Nhavi Sandas	EW	74.1578	18.6028	90.1	5.5	-87	21	10.22	8.25	10	87	90.1	6
62	Haveli	Nhavi Sandas	OW	74.1578	18.6028	28.6	5.6	12 - ,15.4 -	21	10.22	4.76	28	28	28.6	6
63	Haveli	Nhavi Sandas	OW	74.1578	18.6028	129.2	2.5	18.4 - ,22 - ,104 - ,38 -	21	10.22	12.88	18	104	129.2	6
64	Haveli	Ravet	EW	73.7413	18.6464	200	4.7	4 - ,175 -	10	3.2	-	25	175	200	2
65	Haveli	Shindawane	EW	74.1278	18.4361	200	5.5	-7	16	8.9	2.34	25	175	200	3
66	Haveli	Shindawane	OW	74.1278	18.4361	31.5	5.5	-8.5	16	8.9	0.62	31	31	31.5	3
67	Haveli	Vade	EW	74.0628	18.5514	200	4	8 - ,64 -	12	2	4.08	14	135	200	4
68	Haveli	Vade	OW	74.0628	18.5514	87	4	8 - ,64 -	12	1.92	-	14	64	87	1
69	Haveli	Wadgaon Shinde	EW	73.9611	18.6208	200	6.1	14.8 - ,158 -	18	9.9	1.35	15	158	200	3
70	Indapur	Bawda-EW	EW	74.9913	17.9679	200	17.5	24-26 53.00-54.00	15	6.31	9.84	24	54	200	3
71	Indapur	Bawda-OW	OW	74.9912	17.9677	81	17.5	24-26 53.00-54.01	13	4.66	0.78	24	54	81	3
72	Indapur	Gokondi	EW	74.8681	18.0739	200	6	-10	19	9	-	10	90	200	1
73	Indapur	Loni Deokar	EW	74.9153	18.2042	-	-		13	7	-	13	98	135	1
74	Indapur	Malwadi	EW	75.0556	18.15	200	2	-5.4	19	6	0.56	12	105	200	2
75	Indapur	Nirgude	EW	74.7056	18.2192	200	2.6	-5	14	2.05	-	14	86	200	1
76	Indapur	Vakil Basti	EW	74.99115	17.9958	200	1.75	-24	17	10.48	-	24	115	200	1
77	Indapur	Wadapuri	EW			200	17.5	84.00 - 87.00	96		<0.14	12	87	200	3
78	Junnar	Gunjalwadi	EW	73.9414	19.125	200	5.5	6 -10 ,22 - 37 ,83 -92 ,49 -58 ,180 -189	21	3.9	4.8	21	189	200	9
79	Junnar	Gunjalwadi	OW	73.9414	19.125	104.2	5.62	6 -9 ,24 -40 ,85 -95 ,70 -76	17	4.53	10.45	24	76	104.2	12
80	Junnar	Gunjalwadi	OW	73.9414	19.125	43	5.62	9.5 -15.8 ,25 -37	21	4.01	3.42	25	37	43	4

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						(m)	(m)	(m.bgl)	(m.bgl)		(m^3/hr)	(m.bgl)			(m)
81	Junnar	Khamundi	EW	74.0194	19.2375	194	3	46 -55 ,104 -110	27	17.9	-	20	110	194	4
82	Junnar	Sawargaon	EW	73.8972	19.125	200	6		18	9.52	-	19	154	200	1
83	Junnar	Wanewadi	EW	73.7717	19.2068	200	3.5	33 -42 ,80 - 83	19	14.4	-	20	83	200	1
84	Khed	Chikhali	EW	73.8167	18.6847	200	5.5	24 - ,39 -	18	11.6	1.5	24	139	200	3
85	Khed	Dehane	EW	73.6586	19.0231	200	5.6	21 -51 ,64 - 70 ,109 - 115 ,91 - 100 ,161 - 167	16	9.72	4.07	21	169	200	12
86	Khed	Dehane	OW	73.6586	19.0231	150	5.6	24 -27 ,39 - 49 ,131 - 137 ,57 -70	16	9.55	3.4	24	105	150	12
87	Khed	Kadus	EW	73.825	18.875	200	7		16	9	-	20	105	200	1
88	Khed	Kharpudi	EW	73.925	18.8	189.1	5.6	36 -39 ,100 -113	55	27	3.4	25	113	189.1	5
89	Khed	Kharpudi	OW	73.925	18.8	115.9	3		55	27	-	18	105	115.9	5
90	Khed	Vetale	EW	73.79124	18.94793	200	5.5	Water Zone I- 68.70 - 71.70 mbgl		14.25	meager	10	90	200	0.5
91	Khed	Wada	EW	73.74822	19.01803	200	5.5	seepage 1 at 90.00, seepage 2 at 114.40 mbgl		> 100	meager	10	120	200	0.5
92	Khed	Yelwadi	EW	73.7667	18.7333	164.7	5.6	15 -24 ,67 - 76	14	5	-	24	76	164.7	1
93	Maval	Shilatane	EW	73.4975333	18.76785	200	11.5	seepage 35:10, Water Zone I- 74.80 mbgl	130	55	meager	10	90	200	0.5
94	Mawal	Ahirwade	EW	73.5851	18.7379	180	5.6	-18	50	32	-	18	125	180	1
95	Mawal	Bhoyre	EW	73.6047	18.8586	180.5	5.6	21 - ,102 -	21	10.5	3	21	102	180.5	3
96	Mawal	Chankhed	EW	73.6528	18.65	200	6	-14	20	14	-	14	125	200	1
97	Mawal	Vadgaon	EW	73.6426	18.7316	200	6	18 - ,103 -	12	4.3	0.85	18	103	200	1
98	Mulshi	Balewadi	EW	73.7708	18.5744	200	3	11.5 - ,45 -	20	8.48	0.62	15	145	200	2
99	Mulshi	Belawade	EW	73.605	18.4875	200	5.5	6.5 -6.5 ,27.5 -27.5	17	8.9	0.62	27	127	200	3
100	Mulshi	Hadshi	EW	73.5217167	18.590367	200	5.5	seepage 99:20, Water Zone I- 187.60 mbgl	120	95	meager	5	190	200	0.5
101	Mulshi	Kolwan	EW	73.5307	18.5746	200	5.5	07-Aug	11	3.74	-	20	135	200	1
102	Mulshi	Lavale	EW	73.715	18.5431	85	6.1	7 - ,12 - ,48 - ,34 -37 ,62 -64	12	3.76	30.68	15	64	85	3
103	Mulshi	Lavale	OW	73.715	18.5431	200	18.5		12	3.76	-	20	120	200	3
104	Mulshi	Lavale	OW	73.715	18.5431	75	5.7	35.5 -35.5	12	3.76	1.5	20	66	75	3
105	Mulshi	Lavale	OW	73.715	18.5431	75	6	66 -66	12	3.76	1.14	20	66	75	3

S No	Taluka	Village	Type of Well	Longitude	Latitude	Drilling depth	Casing	AQ Zones	Pre SWL	Post SWL	PYT Discharge	AQI	AQII	Massive	Thickness AQII
						(m)	(m)	(m.bgl)	(m.bgl)		(m^3/hr)	(m.bgl)			(m)
106	Mulshi	Lavale	OW	73.715	18.5431	75	5.5	27.5 - ,66 -	9	3.4	1.14	13	66	75	3
107	Mulshi	Maale	EW	73.523616 7	18.5269	200	17.5	Water Zone I- 26.50 - 28.50 mbgl	130	95	meager	15	75	200	0.5
108	Mulshi	Manjari	OW	73.9731	18.5138	62	13.7	30 -31	12	7.3	-	12	62	62	1
109	Pune City	Katraj	EW	73.8686	18.4589	200	5.6	13 - ,34 -	11.4	6	1.5	13	134	200	3
110	Pune City	KVBEG Yerawada	EW	73.8778	18.5431	36.6	12.5	4 - ,9 -	17	10	2.85	12	36	36.6	3
111	Pune City	KVBEG Yerawada	OW	73.8778	18.5431	21	12	5 - ,7 -	17	10	2.85	12	21	21	3
112	Pune City	Pune	EW	73.8236	18.5542	201.3	5.1	4.5 - ,152 -	9	2.9	1.5	20	152	201.3	3
113	Pune City	Pune	OW	73.8236	18.5542	32.5	2.5	-18	10	3.2	-	18	104	32.5	1
114	Pune City	Yerawada	EW	73.8778	18.5431	200	11.5	9 - ,132 -	50	27	-	11	132	200	1
115	Purandhar	Gulunche	EW	74.2264	18.1456	200	5.5	84.60, 168.00	35	17	0.01	18	168	200	0.5
116	Purandhar	Jadhavwadi	EW	74.0014	18.3917	112	5.6	-65	50	35	-	20	65	112	1
117	Purandhar	Kothale	EW	74.125	18.3153	165	6.5	28 - ,100 -	17	10	-	28	100	165	1
118	Purandhar	Narayanpur	EW	73.9969	19.1241	160	7.8	32	18	5.1	7.76	20	120	160	3
119	Purandhar	Narayanpur	OW	73.9969	19.1237	200	5.6	34.8	18	5.8	Traces	25	90	200	0.5
120	Purandhar	Naygaon	EW	74.2333	18.3667	200	2.5	42 -51 ,58 - 64	12	4.5	1.13	20	90	200	4
121	Purandhar	Naygaon (Khorawade)	EW	74.2333	18.3667	200	5.5	9 - ,21 -	11.4	6	-	21	105	200	1
122	Purandhar	Pangare Sailar Vasti	EW	74.0639	18.27	184.7	5.6	-23	22.2	16	0.62	23	135	184.7	1
123	Purandhar	Parainche	EW	74.0839	18.1917	200	5.6	41.00, 108.00	70	45	Traces	20	108	200	0.5
124	Purandhar	Pargaon	EW	74.125	18.3583	153.2	5.6	18 - ,70 -	14	5.6	-	18	90	153.2	1
125	Purandhar	Rakh	EW	74.2133	18.2056	200	5.6	28.70, 127.00	45	21	0.78	28	127	200	2
126	Purandhar	Sasvad	EW	74.025	18.3347	200	6.2	27 -37 ,61 - 94	16	8	2.34	27	94	200	4
127	Purandhar	Singapur	EW	74.1194	18.3861	200	4.6		12	1.5	-	25	135	200	1
128	Purandhar	Waghapur	EW	74.1297	18.3992	73.2	5.5	35 - ,45 -	30	21	2.34	20	70	73.2	3
129	Purandhar	Walhe	EW	74.1569	18.1853	200	5.5	19	21	12.3	0.38	19	125	200	1
130	Shirur	Dingrajwadi	EW	74.0883	18.635	75.8	5	7.8 - ,13.5 -	12	1.85	4.76	20	70	75.8	6
131	Shirur	Dingrajwadi	OW	74.0883	18.635	200	4.5	7.8 - ,13.5 -	12	1.85	-	20	125	200	6
132	Shirur	Kavthe	EW	74.1806	18.8889	200	5.5		11	1.8	-	21	135	200	1
133	Shirur	Khairewadi	EW	74.132977	18.79341	200	11.5	I-35.1-38.2, II-87.00-90.00	120	50	meager	15	100	190	0.5
134	Shirur	Nimone	EW	74.404378	18.709309	177.5	5.5	I-105.30-108.30, II-111.40-114.40, III-129.70-132.70, IV-176.50-177.00	20	9.9	43.85	10	180	177.5	7

S No	Taluka	Village	Type of Well	Longitude	Latitude	Drilling depth	Casing	AQ Zones	Pre SWL	Post SWL	PYT Discharge	AQI	AQII	Massive	Thickness AQII
						(m)	(m)	(m.bgl)	(m.bgl)		(m^3/hr)	(m.bgl)			(m)
135	Shirur	Nimone	OW	74.404291	18.70921	200	5.5	I-41.20-44.30, II-47.30-50.40, III-126.60-129.70	20	20.1	1.38	10	140	200	1
136	Shirur	Nirvi	EW	74.425	18.65	200	3	-108	60	35	-	20	108	200	2
137	Shirur	Pabal	EW	74.0639	18.6819	201.5	2.75		13	1.8	-	21	125	201.5	1
138	Shirur	Pimple Jagtap	EW	74.0806	18.7111	200	3.5	8 -18 ,46 - 49 ,161 - 168 ,146 - 152	14	2.87	3.4	18	152	200	9
139	Shirur	Ranjangaon	EW	74.2492	18.7514	200	5.5	6.4 -13 ,79 -85 ,161 - 171 ,143 - 149	18	9	3.4	20	149	200	9
140	Shirur	Ranjangaon	OW	74.2492	18.7514	171.1	5.65	79 -85 ,161 -171	18	9	-	25	171	171.1	9
141	Velhe	Khanapur	EW	73.8578	18.1049	200	3	-30	22.58	13	1.14	30	135	200	3
142	Velhe	Kotawdi	EW	73.7642	18.3014	200	11.5	13 - ,95 -	36.5	16	0.85	13	95	200	2
143	Velhe	Kotawdi	OW	73.7642	18.3014	110.8	12.5	-83	36.5	16	1.5	13	83	110.8	2
144	Velhe	Velhe	EW	73.6405	18.297861	200	23.5	Seepage at 16.80mbgl, Water Zone I- 59.50 - 60.50 mbgl,Water zone II- 96.10-97.00 mbgl.	120	110	meager	20	120	200	0.5
145	Velhe	Winzer	EW	73.7221	18.3061	200	13	8.5 - ,84 -	50	35	0.62	13	84	200	2
146	Velhe	Winzer	OW	73.7213	18.3064	30	11.5	-8	50	35	-	13	30	30	1

Annexure-II: Water Level of Ground water monitoring wells (2017) with long term trend (2008-2017)

Sl No.	Taluka	Well Name	Well Depth (m)	Water Level			Premonsoon WL trend (m/year)		Postmonsoon WL trend (m/year)	
				May 2017 (mbgl)	Nov. 2017 (mbgl)	Fluctuation (m)	Rise	Fall	Rise	Fall
1	AMBEGAON	Bhagadi	10.25	6	4.00	2.00	0.2546		0.0585	
2	AMBEGAON	Dhakale	14.6	7	1.90	5.10	0.0376		0.0053	
3	AMBEGAON	Girawali	7.2	3.5	1.00	2.50		0.1218	0.0306	
4	AMBEGAON	Gohe Kh.	12.2	8	1.10	6.90		0.1555	0.1293	
5	AMBEGAON	Kalamb	12.4	9.1	7.55	1.55	0.0864			0.1017
6	AMBEGAON	Kanase	13	5.9	2.40	3.50	0.1539		0.0043	
7	AMBEGAON	Khadaki	13	7.7	2.00	5.70	0.1327			0.3823
8	AMBEGAON	Loni	10.25	3.4	1.20	2.20	0.0888		0.1551	
9	AMBEGAON	Pimpalgaon Tarf Ghoda	10	3	0.50	2.50		0.1382		0.1973
10	AMBEGAON	Ranjani	10.95	4.4	3.40	1.00		0.0883	0.0039	
11	AMBEGAON	Taleghar	9.45	7	2.00	5.00		0.1555	0.0433	
12	BARAMATI	Baburdi	10.8	8.2	3.8	4.40		0.1748	0.3646	
13	BARAMATI	Baramati Rural	11.6	11.6	3	8.60		0.0405		0.0029
14	BARAMATI	Chandgude Wadi	90	11.1	9.9	1.20	0.3389		0.1749	
15	BARAMATI	Chandgude Wadi	31.6	11.4	7	4.40	0.4372		0.5000	
16	BARAMATI	Dhakale	10	5.5	6.4	-0.90	0.0643		0.1614	
17	BARAMATI	Jalochi	30	9.3	7.4	1.90	0.0519		0.9327	
18	BARAMATI	Karhati	60	9.8	6.15	3.65	1.3828		0.1703	
19	BARAMATI	Korhale Kh	58	7.25	3.1	4.15	0.1482		0.2117	
20	BARAMATI	Korhale Kh	90	9.15	4.15	5.00	0.2158		0.3349	
21	BARAMATI	Kutwalwadi	92.1	5.15	4	1.15	0.0841		0.0065	
22	BARAMATI	Loni Bhapkar	95	5.6	2.2	3.40	0.5933		0.2067	
23	BARAMATI	Murti	16.3	6.7	5	1.70	0.1198		0.1200	
24	BARAMATI	Nimbodi	30	8.95	5.2	3.75	0.3544		0.4536	
25	BARAMATI	Sangavi	7.9	4.6	1.3	3.30	0.0041		0.1243	
26	BARAMATI	Supe	30	6.25	3.25	3.00		0.0116	0.1474	
27	BARAMATI	Vadgaon Nimbalkar	8.2	7	2.9	4.10	0.0218			0.1410
28	BARAMATI	Vadgaon Nimbalkar	68	6	5.1	0.90	0.0391		0.1400	
29	BHOR	Apati	5	2.4	0.80	1.60		0.0603	0.0016	
30	BHOR	Bholavade	4.9	3.4	2.00	1.40		0.0673	0.0153	
31	BHOR	Bhor	10.2	5.8	2.00	3.80		0.1142		0.1306
32	BHOR	Jayatpad	3.8	2.2	0.60	1.60		0.2109		0.0058
33	BHOR	Khulshi	5.7	4	0.40	3.60	0.0245			0.0263
34	BHOR	Nasrapur	8.45	5.6	1.50	4.10		0.1750	0.0158	

Sl No.	Taluka	Well Name	Well Depth (m)	Water Level			Premonsoon WL trend (m/year)		Postmonsoon WL trend (m/year)	
				May 2017 (mbgl)	Nov. 2017 (mbgl)	Fluctuation (m)	Rise	Fall	Rise	Fall
35	BHOR	Venavadi	7.4	1.5	1.00	0.50		0.1527	0.0026	
36	DAUND	Bhandgaon	9	7.2	2.55	4.65	0.2014		0.1031	
37	DAUND	Gar	8	7.5	1.10	6.40	0.1600			0.1419
38	DAUND	Girim	7.15	4	2.60	1.40	0.0155		0.0589	
39	DAUND	Kalewadi	13.95	8.3	2.00	6.30	0.2609		0.0787	
40	DAUND	Kedgaon	7.4	6.2	2.60	3.60	0.1632		0.0196	
41	DAUND	Kurkumbh	5.85	3.6	1.70	1.90	0.0381		0.0417	
42	DAUND	Pargaon	14.45	8.5	3.20	5.30		0.1377	0.0071	
43	DAUND	Patas	10.25	8.7	6.30	2.40	0.2300		0.2926	
44	DAUND	Patethan	14.3	8.9	5.50	3.40	0.0386		0.0100	
45	DAUND	Rahu	15.8	10.4	5.50	4.90		0.2877		0.0981
46	DAUND	Ravangaon	13.1	7.3	2.40	4.90	0.0641		0.1817	
47	DAUND	Sonawade	11.5	5.6	2.95	2.65	0.0427		0.0766	
48	HAVELI	Alandi Mhatobachi	12.8	9.8	3.90	5.90	0.1270		0.2564	
49	HAVELI	Arvi	14.6	10	1.00	9.00		0.1464	0.0036	
50	HAVELI	Bhosari	15.25	7.7	1.10	6.60	0.0823		0.0396	
51	HAVELI	Charholi Bk	10.1	6.2	1.50	4.70	0.4017		0.0561	
52	HAVELI	Dhanori	9.4	3.6	1.10	2.50	0.0125		0.0135	
53	HAVELI	Katraj	10.8	6.2	2.10	4.10		0.1359		0.1095
54	HAVELI	Koregaon Mul	10.65	6.5	1.55	4.95		0.1777		0.1856
55	HAVELI	Loni Kalbhor	16.55	10.1	4.30	5.80	0.4683		0.1973	
56	HAVELI	Loni-Kand	10.65	9.6	3.20	6.40		0.1918	0.0271	
57	HAVELI	Moshi	13.5	4.4	3.40	1.00	0.1036		0.0306	
58	HAVELI	Pimpri Sandas	9.1	6.65	3.50	3.15		0.1473	0.0309	
59	HAVELI	Sangarun	9.55	4.5	2.00	2.50	0.0791		0.0298	
60	HAVELI	Shiraswadi	9	9	2.30	6.70	0.0502		0.0378	
61	HAVELI	Sonapur	10.7	4.78	2.90	1.88	0.0127		0.0625	
62	HAVELI	Uruli Dewachi	11.1	9.7	5.50	4.20	0.0255		0.0633	
63	HAVELI	Uruli Kanchan	15.1	12.7	5.00	7.70		0.1958	0.0417	
64	HAVELI	Wadki	13.65	11.9	4.50	7.40	0.5000		0.0778	
65	HAVELI	Wagholi	13.55	6.8	1.30	5.50		0.1700		0.5195
66	INDAPUR	Anthurne	11.5	8	4.30	3.70	0.0482		0.0250	
67	INDAPUR	Bawada	11	8.4	6.00	2.40	0.4141		0.0222	
68	INDAPUR	Bhadalwadi	10.9	4.6	1.80	2.80	0.6455		0.0149	
69	INDAPUR	Bhigvan	12.1	11.6	1.60	10.00	0.6023		0.1847	
70	INDAPUR	Galand Wadi No.1	8.25	4	2.00	2.00		0.1055	0.0813	
71	INDAPUR	Hingangaon	4.6	3.6	1.95	1.65	0.1064		0.0324	
72	INDAPUR	Indapur	14	10	4.00	6.00	0.4695		0.1687	
73	INDAPUR	Kalamb	15.8	9.8	1.80	8.00	0.6505		0.0256	

Sl No.	Taluka	Well Name	Well Depth (m)	Water Level			Premonsoon WL trend (m/year)		Postmonsoon WL trend (m/year)	
				May 2017 (mbgl)	Nov. 2017 (mbgl)	Fluctuation (m)	Rise	Fall	Rise	Fall
74	INDAPUR	Kauthali	9.15	8.3	4.00	4.30	0.1236		0.3171	
75	INDAPUR	Kazad	10	7.3	2.30	5.00	0.0191		0.0063	
76	INDAPUR	Lamjewadi	12.6	12.5	1.10	11.40	0.1659		0.1331	
77	INDAPUR	Loni	8.85	6.2	2.30	3.90	0.0536		0.0590	
78	INDAPUR	Madanwadi	14.4	12.7	2.10	10.60	0.5509		0.1210	
79	INDAPUR	Nimgaon Ketki	18.3	17.8	4.60	13.20	0.1986		0.0996	
80	INDAPUR	Reda	8.9	7	4.70	2.30	0.0001		0.0905	
81	INDAPUR	Rui	7.5	7	1.30	5.70	0.2904		0.2168	
82	INDAPUR	Sarati	12.5	8	4.80	3.20	0.0055		0.1578	
83	INDAPUR	Shetphalgadhe	12	6	2.40	3.60	0.2733			0.0313
84	INDAPUR	Tawashi	11.4	5.4	2.20	3.20	0.0655		0.1067	
85	INDAPUR	Varkute Bk.	8.9	7.1	1.80	5.30	0.5532		0.1566	
86	JUNNAR	Ale	13.65	8.6	4.80	3.80	0.0647			0.2127
87	JUNNAR	Aptale	18	11	3.00	8.00	0.1391		0.0952	
88	JUNNAR	Belhe	16.3	14.2	4.70	9.50	0.3147			0.6992
89	JUNNAR	Bori Bk.	11	6.3	3.10	3.20		0.1903		0.2510
90	JUNNAR	Dholwad	20.9	18	8.00	10.00	0.3067		0.4449	
91	JUNNAR	Dingore	15	13.5	6.00	7.50	0.2942		0.0735	
92	JUNNAR	Gulanchwadi	13.5	8.6	3.00	5.60	0.0570		0.0368	
93	JUNNAR	Hadsar	10.4	10.1	1.99	8.11	0.3272		0.0088	
94	JUNNAR	Khanapur	14.8	7.2	1.50	5.70	0.0477			0.2362
95	JUNNAR	Mangrul	20.35	14	5.00	9.00	0.1584		0.1286	
96	JUNNAR	Narayangaon	7.45	5.8	2.60	3.20		0.1314		0.2673
97	JUNNAR	Netwad	9.5	5.7	3.40	2.30	0.0218			0.0277
98	JUNNAR	Otur	24.6	17.8	12.40	5.40	0.0354		0.0027	
99	JUNNAR	Padali	10.8	5.9	2.60	3.30	0.0076		0.0012	
100	JUNNAR	Pimpalwandi	14.45	14	1.20	12.80	0.0600			0.5710
101	JUNNAR	Rohkadi	24.4	21.6	17.40	4.20	0.1204			0.3553
102	JUNNAR	Sitewadi	11	8	1.90	6.10	0.0013		0.0058	
103	JUNNAR	Tambe	9.6	7.5	2.56	4.94		0.1677	0.0121	
104	JUNNAR	Tejewadi	13.15	9.8	4.20	5.60	0.1257		0.0824	
105	JUNNAR	Yenere	12.2	8.6	3.80	4.80	0.0627			0.0550
106	KHED	Ambethan	9	7	0.65	6.35	0.0482		0.2259	
107	KHED	Ambhu	13.5	12.8	0.00	12.80	0.2032			0.0344
108	KHED	Bahul	9.85	3.5	1.05	2.45		0.1914		0.1332
109	KHED	Bhorgiri	5.8	5.4	0.20	5.20	0.0224			0.0201
110	KHED	Chakan	11.85	5.5	0.60	4.90	0.0900			0.0807
111	KHED	Chandus	11	5	1.20	3.80	0.0045			0.1327
112	KHED	Chas	16.75	14.85	11.40	3.45	0.1241		0.1026	
113	KHED	Ghotavadi	10.55	9.3	0.90	8.40	0.2655		0.6039	
114	KHED	Kadadhe	9.5	8.3	1.70	6.60		0.2609	0.0618	

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				May 2017 (mbgl)	Nov. 2017 (mbgl)	Fluctuation (m)	Rise	Fall	Rise	Fall
115	KHED	Kadus	9.6	5.8	3.00	2.80	0.0409		0.0821	
116	KHED	Kuruli	10.3	6.6	2.00	4.60		0.2436	0.0696	
117	KHED	Pait	9.5	6.4	1.20	5.20		0.1595	0.1238	
118	KHED	Rajgurunagar (Khed)	11	8.15	1.00	7.15	0.2800			0.0873
119	KHED	Saburdi	6.5	4.5	1.30	3.20		0.1164	0.0498	
120	KHED	Solu	13.5	9	2.56	6.44	0.0167		0.0390	
121	KHED	Varude	8.7	8	2.20	5.80	0.1093		0.0301	
122	KHED	Virham	14.5	13.85	1.90	11.95	0.3559		0.1042	
123	KHED	Wasuli	7.1	4.4	1.40	3.00		0.2005	0.0362	
124	MAWAL	Bhoyare	9	7	0.70	6.30		0.1019		0.1106
125	MAWAL	Brahmanoli	8.4	1.3	1.90	-0.60		0.1787	0.0277	
126	MAWAL	Chandkhed	8.3	4.3	1.90	2.40		0.1069	0.0197	
127	MAWAL	Chikhalse	9.3	1.2	0.30	0.90		0.3648	0.0197	
128	MAWAL	Induri	10.4	1.3	1.50	-0.20		0.1889	0.0482	
129	MAWAL	Jambhul	6.4	0.9	1.40	-0.50		0.2583	0.0599	
130	MAWAL	Kadadhe	4.8	1.2	0.90	0.30		0.2366	0.0294	
131	MAWAL	Karla	9.6	3.6	1.00	2.60		0.2764	0.0264	
132	MAWAL	Malawali P.M.	7.7	2.7	1.00	1.70		0.1486	0.0024	
133	MAWAL	Nane	7.9	5	0.90	4.10	0.0366		0.0024	
134	MAWAL	Somatane	8	4.5	1.00	3.50	0.0111			0.1214
135	MAWAL	Takave Bk.	8	3.1	1.80	1.30		0.1685	0.0270	
136	MAWAL	Talegaon Dabhade ®	10.4	4	2.00	2.00		0.2074		0.1073
137	MAWAL	Thakursai	9.3	2	1.60	0.40		0.4200	0.0262	
138	MAWAL	Thoran	5.3	4.7	0.80	3.90		0.0139	0.0169	
139	MAWAL	Vadgaon Mawal	4.6	3.4	0.00	3.40	0.0194		0.0040	
140	MULSHI	Andgaon	7	3.5	0.50	3.00	0.3059		0.0535	
141	MULSHI	Bhugaon	10.25	8.8	1.00	7.80		0.0366	0.0211	
142	MULSHI	Ghotavade	5.8	5	0.50	4.50	0.0782			0.0818
143	MULSHI	Hinjavadi	10.5	9.1	1.30	7.80	0.1162			0.1248
144	MULSHI	Kemasewadi	9.55	2.6	1.00	1.60		0.1301	0.0127	
145	MULSHI	Kondhawale	6.8	5.6	0.00	5.60	0.0647			0.2388
146	MULSHI	Nere	13	8	1.00	7.00	0.1583		0.0056	
147	MULSHI	Paud	10.85	8.34	2.10	6.24	0.0634		0.1333	
148	MULSHI	Sus	8.2	5.6	0.50	5.10	0.0828			0.0765
149	MULSHI	Tamhini Bk.	5.9	5.2	0.00	5.20	0.0610			0.1700
150	MULSHI	Viseghar	7.25	6.5	0.00	6.50		0.1419		0.1219
151	PURANDHAR	Belsar	16.5	14.6	9.1	5.50	0.2273		0.2650	
152	PURANDHAR	Chambhali	50	11.5	9	2.50		0.0767	0.1156	

Sl No.	Taluka	Well Name	Well Depth (m)	Water Level			Premonsoon WL trend (m/year)		Postmonsoon WL trend (m/year)	
				May 2017 (mbgl)	Nov. 2017 (mbgl)	Fluctuation (m)	Rise	Fall	Rise	Fall
153	PURANDHAR	Dive	36.1	18	7.3	10.70	0.1848		0.3763	
154	PURANDHAR	Gurholi	8.7	7.6	1.9	5.70	0.1168		0.1727	
155	PURANDHAR	Harni	7.05	6.4	2.1	4.30	0.0964		0.1014	
156	PURANDHAR	Jejuri	7	5.5	1.4	4.10	0.1918		0.1201	
157	PURANDHAR	Khalad	30	6	13.75	-7.75		0.1639	1.0146	
158	PURANDHAR	Khanvadi	9.15	4.7	3.6	1.10		0.1432	0.1291	
159	PURANDHAR	Malshiras	100	29.2	4	25.20	2.0776		0.0148	
160	PURANDHAR	Mawadikade Pathar	34	11.6	5.5	6.10	0.2023		0.3253	
161	PURANDHAR	Mawadikade Pathar	14.85	7.2	5.6	1.60	0.4457		0.9624	
162	PURANDHAR	Pargaon	97	26.8	6	20.80	1.2474		0.2270	
163	PURANDHAR	Pargaon	35	30.35	25.2	5.15	1.3196		1.5885	
164	PURANDHAR	Parinche	11.85	9.7	7.7	2.00	0.0346		0.2057	
165	PURANDHAR	Pingori	9.4	7.5	3.2	4.30	0.1363		0.0432	
166	PURANDHAR	Pondhe	90	4.9	3.5	1.40	0.0408		0.0500	
167	PURANDHAR	Rise	60	9.15	7.85	1.30	0.3838		0.7416	
168	PURANDHAR	Sakurde	10.7	6.9	1.4	5.50	0.0533			0.0900
169	PURANDHAR	Saswad Rural	30	5.1	3.5	1.60	0.1179			0.1082
170	PURANDHAR	Walhe	9	7.3	3	4.30		0.0756	0.4565	
171	PURANDHAR	Walhe	30	12.5	6.4	6.10	0.7504		1.2750	
172	SHIRUR	Andhalgaon	7.85	7.8	3.60	4.20	0.0299		0.0611	
173	SHIRUR	Chincholi	7.6	6	2.80	3.20	0.0574		0.1057	
174	SHIRUR	Dhamari	14.15	13.5	2.40	11.10	0.3602		0.0142	
175	SHIRUR	Fakate	8.5	4.5	2.20	2.30	0.0842		0.0088	
176	SHIRUR	Gunat	13	12.2	2.90	9.30	0.3739		0.1354	
177	SHIRUR	Jambut	13.2	10.8	1.10	9.70	0.0533			0.1224
178	SHIRUR	Kawathe	9.2	6.8	1.30	5.50	0.0855			0.2300
179	SHIRUR	Kendur	9	8.8	3.70	5.10	0.1139		0.1352	
180	SHIRUR	Kondhapuri	18.9	18.5	6.10	12.40	0.3107		0.1480	
181	SHIRUR	Malthan	11.3	11.3	2.60	8.70	0.0457		0.1771	
182	SHIRUR	Mandavgan Farata	15.6	13.2	1.30	11.90	0.3409			0.1091
183	SHIRUR	Mhase Bk.	8.9	6.2	1.20	5.00	0.0667		0.0105	
184	SHIRUR	Nhavara	12.25	12.2	4.10	8.10	0.0101		0.0545	
185	SHIRUR	Nimgaon Dude	12.1	10.7	2.50	8.20	0.3146		0.0984	
186	SHIRUR	Pabal	13.7	12.1	1.90	10.20	0.2563		0.0321	
187	SHIRUR	Pimpale Jagtap	6.55	5.2	2.40	2.80	0.2642		0.0726	
188	SHIRUR	Pimparkhed	15.45	14.5	2.50	12.00	0.3595		0.0208	
189	SHIRUR	Ranjangaon Ganpati	12.2	10.55	3.10	7.45	0.2049		0.0221	

Sl No.	Taluka	Well Name	Well Depth (m)	Water Level			Premonsoon WL trend (m/year)		Postmonsoon WL trend (m/year)	
				May 2017 (mbgl)	Nov. 2017 (mbgl)	Fluctuation (m)	Rise	Fall	Rise	Fall
190	SHIRUR	Sanaswadi	13	7.3	6.10	1.20	0.2518		0.2402	
191	SHIRUR	Saradwadi	6.3	6.2	3.10	3.10	0.1921		0.0601	
192	SHIRUR	Shikrapur	10.65	9.75	3.70	6.05	0.0827		0.1482	
193	SHIRUR	Shirasgaon Kata	6.7	6	2.00	4.00	0.0615		0.0457	
194	SHIRUR	Shirur	13.5	12.8	4.40	8.40	0.3539		0.0737	
195	SHIRUR	Tandali	16.45	15.5	6.50	9.00	0.3041		0.1709	
196	SHIRUR	Vadner Kh.	8.3	6.7	1.70	5.00	0.1667		0.0491	
197	VELHE	Gunjavane	14.15	9	1.56	7.44		0.2303	0.0110	
198	VELHE	Margasani	10	8.6	0.70	7.90		0.1056	0.0120	
199	VELHE	Osade	5.8	2.3	0.80	1.50	0.0309		0.0288	
200	VELHE	Panshet	4	2.1	0.60	1.50		0.1114	0.0160	
201	VELHE	Velhe Bk.	6.1	2.1	0.10	2.00		0.1595	0.0088	
202	VELHE	Vihir	5.1	3.2	1.90	1.30		0.2131	0.0219	

Annexure-III :Details of GW monitoring wells and KOWs in Pune district.

S. No.	Agency	Taluka	Village	Toposheet Quadrant	Latitude	Longitude	Dia-meter (m)	Depth (mbgl)	Elevation	Use	Aquifer	Pre monsoon DTW (mbgl)	Post monsoon DTW (mbgl)	EC (µS/ cm)	Temp. (°C)
1	CGWB NAQUIM	Ambegaon	Ahupe	47E12-2A	19.1624	73.5753	14	8.5	996.7	Drinking -Washing		8.3	7.85	180	28
2	CGWB NAQUIM	Ambegaon	Ghodegaon	47E16-3B	19.0375	73.8365	4	10	677.4	Drinking -Washing		6.1	5.32	810	31
3	CGWB NAQUIM	Ambegaon	Nigdale (Mhatarbawadi)	47E12-3A	19.0724	73.5618	5.5	9.5	949.7	Drinking -Washing		9	3.62	135	29
4	CGWB NAQUIM	Ambegaon	Panchale Kh. (Panchale Bk)	47E12-2C	19.1349	73.7028	4.5	9	702.9	Drinking -Washing		9	7.85	280	29
5	CGWB NAQUIM	Ambegaon	Pargaon Tarf Khed	47F13-1C	18.9281	73.9656	5*9	21	768.7	Drinking -Washing		20	15	560	29
6	CGWB NAQUIM	Ambegaon	Pimpalgaon Tarf Ghoda	47E16-3A	19.0603	73.7971	3.4	10	704.4	Drinking -Washing		6	5.6	510	30
7	CGWB NAQUIM	Ambegaon	Shirdade Wadi	47J1-2A	18.9106	74.0605	6	11.5	697.8	Drinking -Washing		11	10.2	380	29
8	CGWB NAQUIM	Ambegaon	Tirpad	47E12-2B	19.1666	73.6399	8	8.9	1078.9	Drinking -Washing		8.5	8.1	180	28
9	CGWB NAQUIM	Ambegaon	Vadgaon Pir	47J1-2B	18.8775	74.0891	6.2	16	668.2	Drinking -Washing		15	13.2	480	30
10	CGWB NAQUIM	Ambegaon	Dimbhe Kh.	47E12-2B	19.0904	73.6191	5	8	1004.1	Irrigation		8	6.3	180	30
11	CGWB NAQUIM	Ambegaon	Gangapur Kh.	47E16-2A	19.1112	73.799	4	12	726.3	Irrigation		11	8.53	560	30
12	CGWB NAQUIM	Ambegaon	Kadewadi	47E16-2B	19.0877	73.8967	8	10	699.5	Irrigation		9	6.55	186	29
13	CGWB NAQUIM	Ambegaon	Nagapur	47I4-3A	19.0263	74.0653	3.5	12	616.2	Irrigation		8	5.98	1520	30
14	CGWB NAQUIM	Ambegaon	Pahaddara	47J1-1B	18.9319	74.1017	6.5	11	684.4	Irrigation		10	4.5	690	29
15	CGWB NAQUIM	Ambegaon	Shingave	47I4-3B	19.0178	74.1005	4	22	630.7	Irrigation		19	10.23	1310	29
16	CGWB NAQUIM	Ambegaon	Tambdemala	47F13-1C	18.9669	73.9413	5.8	11	689.2	Irrigation		9.9	9.6	1020	29
17	CGWB NAQUIM	Ambegaon	Thorandale	47I4-3A	19.0567	74.027	3.5	13	651.2	Irrigation		13	6.2	1200	30
18	CGWB NAQUIM	Ambegaon	Narodi	47E16-3B	19.03	73.8822			658.4			15	5.2		
19	GSDA	Ambegaon	Bhagadi		19.0297	74.1289		10.25	629			6	4		
20	GSDA	Ambegaon	Dhakale		19.0069	73.8081		14.6	876.2			7	1.9		
21	GSDA	Ambegaon	Girawali		19.0811	73.8581		7.2	683.8			3.5	1		
22	GSDA	Ambegaon	Gohe Kh.		19.0667	73.7181		12.2	728.1			8	1.1		

23	GSDA	Ambegaon	Kalamb		19.0447	73.9589		12.4	627.7			9.1	7.55		
24	GSDA	Ambegaon	Kanase		19.0819	73.7792		13	664.3			5.9	2.4		
25	GSDA	Ambegaon	Khadaki		19.0056	73.9931		13	616.9			7.7	2		
26	GSDA	Ambegaon	Loni		18.8978	74.08		10.25	665.7			3.4	1.2		
27	GSDA	Ambegaon	Pimpalgaon Tarf Ghoda		19.0703	73.8117		10	664.3			9	1		
28	GSDA	Ambegaon	Ranjani		19.0456	74.0533		10.95	626.7			4.4	3.4		
29	GSDA	Ambegaon	Taleghar		19.0847	73.6361		9.45	1032.8			7	2		
30	CGWB	Baramati	Dhumalwadi		18.101	74.481			539			10.4	8.33		
31	CGWB	Baramati	Dorlewadi		18.094	74.611			527			5	4.26		
32	CGWB	Baramati	Kamatwadi-Walha		18.165	74.169			632			12	10.6		
33	CGWB	Baramati	Karanje		18.136	74.254			566			6.1	1.92		
34	CGWB	Baramati	Undavri Kade Pathar		18.247	74.539			580			8.77	6.75		
35	CGWB NAQUIM	Baramati	Chaudhar Wadi	47J8	18.164	74.268	7	15	554	Irrigation		12.45	1.95	749	29.2
36	CGWB NAQUIM	Baramati	Gojubavi	47J12	18.243	74.565	5.2	9	576	Irrigation		7.9	3.05	1232	30.5
37	CGWB NAQUIM	Baramati	Jalgaon Supe	47J8	18.245	74.468	8	13	576	Irrigation		12.2	10.7	1751	30.3
38	CGWB NAQUIM	Baramati	Jogwadi	47J8	18.241	74.263	4.6	11	641	Drinking water supply		11	1.81	935	28.6
39	CGWB NAQUIM	Baramati	Karanjepul	47J8	18.113	74.286	10.5	10	559	Drinking water supply		5.55	0.7	940	28.8
40	CGWB NAQUIM	Baramati	Kololi	47J7	18.33	74.439	4.5	7.5	626	Drinking water supply		5.6	0.53	534	30.1
41	CGWB NAQUIM	Baramati	Loni Bhapkar	47J8	18.219	74.36	4.2	7	598	Domestic, not drinking		6.15	1.1	1706	30.2
42	CGWB NAQUIM	Baramati	Nimbodi	47J11	18.289	74.692	3.8	8.6	539	Drinking water supply		9.9	6.84	280	30.7
43	CGWB NAQUIM	Baramati	Sangavi	47J8	18.06	74.482	3	4.45	528	Domestic		3.11	1.7	146	30
44	CGWB NAQUIM	Baramati	Sonkaswadi	47J8	18.141	74.466	10.5	12	551	Drinking water supply		11	9.2	675	27.4
45	CGWB NAQUIM	Baramati	Vadgaon Nimbalkar	47J8	18.129	74.36	10.5	11	552	Drinking water supply		7.65	3.4	1024	26.3

46	CGWB NAQUIM	Baramati	Bajrangwadi	47J8	18.091	74.404	10.5	10.2	544	Drinking Water supply		7.55	3.42	1958	28.8
47	CGWB NAQUIM	Baramati	Nirvagaj	47J12	18.082	74.561	10.5	16.25	527	Irrigation		11.15	6.5	3571	28.3
48	CGWB NAQUIM	Baramati	Bhondvewadi	47J7	18.34	74.325	5.5	14.6	628	Irrigation		11.78	2.27	2315	29.5
49	CGWB NAQUIM	Baramati	Medad	47J12	18.176	74.539	5	13	554	Irrigation		11.6	4.65	4368	26.8
50	CGWB NAQUIM	Baramati	Parwadi	47J11	18.27	74.62	10.5	7	537	Irrigation		6.7	5.2	462	33.1
51	CGWB NAQUIM	Baramati	Loni Bhapkar	47J8	18.25	74.389	7.2	8.9	595	Irrigation		9.7	1.16		
52	GSDA	Baramati	Baburdi		18.279	74.375		10.8	606.8			8.2	3.8		
53	GSDA	Baramati	Baramati Rural		18.153	74.579		11.6	554.1			11.6	3		
54	GSDA	Baramati	Chandgude Wadi		18.296	74.313		31.6	627.6			11.4	7		
55	GSDA	Baramati	Chandgude Wadi		18.304	74.31		90	630.4			11.1	9.9		
56	GSDA	Baramati	Dhakale		18.173	74.441		10	583			9	6.4		
57	GSDA	Baramati	Jalochi		18.158	74.611		30	550.6			9.3	7.4		
58	GSDA	Baramati	Karhati		18.26	74.423		60	589.8			9.8	6.15		
59	GSDA	Baramati	Korhale Kh		18.086	74.372		58	538.9			7.25	3.1		
60	GSDA	Baramati	Korhale Kh		18.086	74.372		90	538.9			9.15	4.15		
61	GSDA	Baramati	Kutwalwadi		18.333	74.34		92.1	634.4			5.15	4		
62	GSDA	Baramati	Loni Bhapkar		18.225	74.386		95	599.4			5.6	2.2		
63	GSDA	Baramati	Murti		18.214	74.289		16.3	604.2			6.7	5		
64	GSDA	Baramati	Nimbodi		18.291	74.692		30	521.2			8.95	5.2		
65	GSDA	Baramati	Sangavi		18.059	74.486		7.9	528.6			4.6	1.3		
66	GSDA	Baramati	Supe		18.324	74.353		30	630			6.25	3.25		
67	GSDA	Baramati	Vadgaon Nimbalkar		18.129	74.367		68	550.5			6	5.1		
68	GSDA	Baramati	Vadgaon Nimbalkar		18.138	74.389		8.2	560.6			7	2.9		
69	CGWB NAQUIM	Bhor	Kikave	47F16-1C	18.2023495	73.945301	6	10.5	633	Domestic	Fractured basalt	7.5	6.3	409	30
70	CGWB NAQUIM	Bhor	Male	47F12-1C	18.2162578	73.693353	3*5.5	7	647	Domestic	Fractured basalt	1.1	0.1	186	30
71	CGWB NAQUIM	Bhor	Rayari	47F12-3C	18.075802	73.732041	5	6.2	705	Domestic	Fractured basalt	2.7	2.5	276	30

72	CGWB NAQUIM	Bhor	Savardare	47F16-1C	18.1822358	73.9672213	5	10.5	604	Domestic	Fractured basalt	4.1	3.1	321	29
73	CGWB NAQUIM	Bhor	Gavadi	47F16-2A	18.1585794	73.8040552	5	6	620	IR	Amygdaloidal Basalt	5.2	2.2	454	28
74	CGWB NAQUIM	Bhor	Khanapur	47F16-2B	18.1132456	73.8542796	6	7.5	665	Domestic	Fractured basalt	3.7	0.7	509	29
75	CGWB NAQUIM	Bhor	Kasurdi (Khedebar	47F15-2B	18.3441497	73.8583062	5	18	772	Irrigation	Fractured Basalt	17.5	5.6	790	29
76	CGWB NAQUIM	Bhor	Ambade	47F16-3B	18.0581618	73.85097	6	13	780	IR	Fractured basalt	11.3	11	305	29
77	CGWB NAQUIM	Bhor	Kumbale	47F12-1B	18.1923006	73.6316042	4	7	629	IR	Fractured basalt	5.4	4	248	26
78	CGWB NAQUIM	Bhor	Kund	47F12-2B	18.13997	73.6454796	4.2	9.5	781	IR	Fractured basalt	6.8	5.9	254	28
79	CGWB NAQUIM	Bhor	Natambi		18.1171109	73.7949853	8	6	619	IR	Fractured basalt	3.5	2.6	239	31
80	CGWB NAQUIM	Bhor	Nivangan	47F12-3C	18.0569444	73.6818745	4	8.6	776	IR	Fractured basalt	5.7	3.6	226	27
81	CGWB NAQUIM	Bhor	Panjalwadi	47J4-1A	18.1726712	74.0152748	11	7.5	606	IR	Fractured basalt	6.7	5.2	215	30
82	CGWB NAQUIM	Bhor	Pasure	47F16-1A	18.1933883	73.7764395	5	8	632	IR	Fractured basalt	5.4	3.6	241	28
83	CGWB NAQUIM	Bhor	Salungan	47F12-2C	18.1530138	73.675452	3.6	8	754	IR	Fractured basalt	2.8	1	254	26
84	CGWB NAQUIM	Bhor	BHOR	47F16-2B	18.1506282	73.8476645	4.6	8.5	614	Domestic	Fractured basalt	7.1	5.2	805	29
85	CGWB NAQUIM	Bhor	Tale Mhashivali	47F16-1A	18.222205	73.791702	4	9	643	IR	Fractured basalt	2.4	1.2	227	29
86	CGWB NAQUIM	Bhor	Taparewadi	47J4-2A	18.1593103	74.0313513	4.7	8.9	599	IR	Fractured basalt	4.7	3	717	32
87	CGWB NAQUIM	Bhor	Vadtumbi	47F16-3A	18.0440637	73.7706017	6	6.7	727	IR	Fractured basalt	3.7	3	332	30
88	CGWB NAQUIM	Bhor	Brahmanghar	47F16-1B	18.1981638	73.849183	2.5	10	675	IR	Fractured basalt	7.1	3	441	30
89	CGWB NAQUIM	Bhor	Durgadi	47F12-2B	18.086868	73.645313	4	7	792	Domestic	Fractured basalt	3	1.2	212	26

90	CGWB NAQUIM	Bhor	Kambare	47F15-3B	18.3007314	73.9009051	4	7	741	Irrigation	Fractured basalt	6	1.8	485	29
91	CGWB NAQUIM	Bhor	Kelawade	47F15-3B	18.2734433	73.8735938	5	12	689	Irrigation	Fractured Basalt	11.5	10	675	27
92	GSDA	Bhor	Apati		18.1131	73.8347		5	782.1			4.3	0.8		
93	GSDA	Bhor	Bholavade		18.1611	73.8464		4.9	606.8			3.4	2		
94	GSDA	Bhor	Bhor		18.1436	73.8458		10.2	626.8			5.8	2		
95	GSDA	Bhor	Jayatpad		18.1844	73.7356		3.8	667			2.2	0.6		
96	GSDA	Bhor	Khulshi		18.2194	73.6486		5.7	685.9			4	1.4		
97	GSDA	Bhor	Nasrapur		18.2531	73.8811		8.45	654.8			5.6	1.5		
98	GSDA	Bhor	Venavadi		18.1419	73.8275		7.4	624.9			7	1		
99	CGWB NAQUIM	Daund	Deulgaon Gada 7	47J7-1B	18.418978	74.382755	6	12	577	irrigation	Fractured massive basalt	11.5	10.7	1251	32.3
100	CGWB NAQUIM	Daund	Navingar	47J11-1A	18.4598522	74.5190179	4	8.5	536	irrigation, domestic	Fractured massive basalt	1.2	1	687	28.9
101	CGWB NAQUIM	Daund	Rajegaon 1	47J15-2A	18.353543	74.771523	6	10	507	irrigation	Fractured Massive Basalt, Weathered Basalt	9.9	1.4	2483	30.1
102	CGWB NAQUIM	Daund	Deulgaon Gada 8	47J7-2B	18.448917	74.398211	8	8.5	568	irrigation	Fractured	6.5	4.4	1075	31.6

											massive basalt				
103	CGWB NAQUIM	Daund	Deulgaon Gada 5	47J7-1B	18.423182	74.381289	10	10.5	573	irrigation, domestic	Weathered Basalt	6.5	5.1	2077	31.3
104	CGWB NAQUIM	Daund	Boripardhi 3	47J7-1B	18.4787075	74.3856095	6	11	542	irrigation, domestic	Fractured Massive Basalt, Weathered Basalt	5.2	5	696	31.7
105	CGWB NAQUIM	Daund	Patas 2	47J7-1C	18.4339697	74.4610642	8.5	8.5	550	domestic	not visible	2	1	1376	34.8
106	CGWB NAQUIM	Daund	Nandur	47J2-3C	18.528126	74.201974	7	5	525	irrigation	not visible	1.5	0.1	1291	32.2
107	CGWB NAQUIM	Daund	Boripardhi 1	47J7-1B	18.4822148	74.3872138	5.5	12	540	irrigation, domestic	not visible	9	5.5	2245	31
108	CGWB NAQUIM	Daund	Boripardhi 2	47J7-1B	18.4822148	74.391551	6	14	534	irrigation, domestic	Fractured Massive basalt	13	11.2	2453	29.8
109	CGWB NAQUIM	Daund	Chincholi	47J11-3C	18.3188075	74.7398289	6	12	508	domestic	Fractured Massive basalt	10.8	8.9	2077	30.3
110	CGWB NAQUIM	Daund	Deulgaon Gada 2	47J7-2B	18.400918	74.375413	8	12	578	drinking, domestic	Weathered Basalt, fractured masssive basalt	6.1	5.6	1410	31.9
111	CGWB NAQUIM	Daund	Gopalwadi	47J11-1A	18.4473045	74.5621888	6	10	524	dometsic,	weathered basalt	7.3	5.2	1497	28

112	CGWB NAQUIM	Daund	Hatwalan	47J6-3C	18.5314153	74.428197	5	13	515	irrigation	not visible	12	7.8	4314	29.5
113	CGWB NAQUIM	Daund	Hinganigada	47J7-2C	18.35999	74.470045	6	13	637	Domestic	Weathered Basalt, fractured masssive basalt	12	11	1081	29.1
114	CGWB NAQUIM	Daund	Kedgaon	47J7-1B	18.473888	74.35801	8	9	555	domestic	not visible	5.2	4.7	2544	30.3
115	CGWB NAQUIM	Daund	Kurkumbh		18.39366	74.53899	8x8	6.5	587	No use	not visible	3.3	3.1	3908	33.2
116	CGWB NAQUIM	Daund	Pandharewadi	47J11-2A	18.385716	74.521028	7	10.5	599	domestic, irrigation	Fractured massive basalt	9.5	8.8	2891	31.2
117	CGWB NAQUIM	Daund	Pedgaon	47J11-1C	18.49319	74.7049976	6	12	519	irrigation, domestic	fractured massive basalt	5.2	2.6	2204	29.1
118	CGWB NAQUIM	Daund	Pimpalgaon	47J6-3A	18.5605888	74.2899519	6.8	7.5	525	domestic	weathered basalt	6.8	2.3	1151	29.9
119	CGWB NAQUIM	Daund	Ravangaon	47J11-2B	18.356831	74.625546	8.5	11	543	domestic	fractured massive basalt	8.6	1.9	758	29.1
120	CGWB NAQUIM	Daund	Roti	47J7-2C	18.39057	74.47136	3	10	644	domestic drinking	not visible	9	4.8	507	28.3
121	CGWB NAQUIM	Daund	Shirapur	47J11-1C	18.48415	74.719216	6	12	512	irrigation, domestic	fractured massive basalt	5.6	4.6	1752	29.2
122	CGWB NAQUIM	Daund	Wasunde	47J11-2A	18.341402	74.498896	5	10	621	domestic	not visible	10	9.1	1621	31.3
123	CGWB NAQUIM	Daund	Kadamwasti	47J11-1B	18.4210246	74.647846	6	13	521	irrigation	Weathered Basalt, fractured	8.5	7	2171	29.8

											masssive basalt				
124	CGWB NAQUIM	Daund	Warwand 3	47J7-1C	18.450456	74.396298	10.5	11.5	552	irrigation, domestic	Highly factured massive basalt	6.5	4.8	765	27.1
125	CGWB NAQUIM	Daund	Bhandgaon	47J7-1A	18.466171	74.309825	8	8.5	582	irrigation, domestic	not visible	4.6	2.7	1127	28
126	CGWB NAQUIM	Daund	Vadgaon Bande	47J2-2C	18.62797	74.253486	7	5	532.3	irrigation	Fractured massive basalt	3.2	2.6	1522	29.7
127	CGWB NAQUIM	Daund	Pimpalachiwadi 2	47J7-2B	18.3857711	74.3383859	6	15.5	614	irrigation	Fractured massive basalt	14	1.9	1228	28
128	CGWB NAQUIM	Daund	Malewadi	47J11-1B	18.423651	74.586053	6	8.5	530	Domestic, irrigation	fractured massive basalt	5.3	4	1077	29.3
129	CGWB NAQUIM	Daund	Khorodi	47J11-2B	18.45025	74.615826	7	14	514	Domestic, irrigation	weathered basalt	12	8.9	1855	29.4
130	CGWB NAQUIM	Daund	Boriaindi	47J3-1C	18.467451	74.173163	8.5	10.2	585	irrigation	weathered basalt	10.2	7.4	685	31.1
131	CGWB NAQUIM	Daund	Boripardhi 4	47J7-1B	18.4787075	74.38752	8.5	11	542	irrigation, domestic	Weathered Basalt, fractured masssive basalt	6.5	5.5	1035	29.5

132	CGWB NAQUIM	Daund	Dalimb	47J3-1B	18.4502011	74.1520615	7	12	597	irrigation	Fractured Massive basalt	10.1	7.9	1831	30.1
133	CGWB NAQUIM	Daund	Deulgaon Gada 1	47J7-2B	18.403734	74.376871	5	5	575	irrigation	Weathered Basalt	3.1	2.9	1861	29.2
134	CGWB NAQUIM	Daund	Deulgaon Gada 3	47J7-1B	18.402179	74.38574	6	12	580	irrigation, domestic	Fractured Massive basalt	9.5	3.7	713	30.9
135	CGWB NAQUIM	Daund	Deulgaon Gada 4	47J7-2B	18.42478	74.3807316	8	9.5	572	irrigation, domestic	Weathered Basalt	8	6.3	963	32.4
136	CGWB NAQUIM	Daund	Deulgaon Gada 6	47J7-2B	18.418978	74.382755	6	8.5	577	irrigation	Weathered Basalt	6.2	3.8	1024	32.3
137	CGWB NAQUIM	Daund	Devkarwadi	47J2-3C	18.5791368	74.2030809	5.5	14.5	538	irigation	weathered basalt	7.5	6.9	5559	29.3
138	CGWB NAQUIM	Daund	Gadewadi	47J11-2B	18.387581	74.665616	8.5	9	524	irrigation	Weathered Basalt, fractured masssive basalt	3.2	2.9	1502	31.3
139	CGWB NAQUIM	Daund	Gar	47J11-1A	18.48498	74.508665	8.5	8.5	510	irrigation	not visible	1.3	0.1	2460	31.3
140	CGWB NAQUIM	Daund	Girim	47J11-1A	18.446975	74.5498	7	14	541	irrigation	fractured massive basalt	5.2	3.2	409	29.8
141	CGWB NAQUIM	Daund	Kamatwadi	47J3-1C	18.51937	74.231948	6	12	538	domestic	weathered basalt	8.5	6	1063	29.9
142	CGWB NAQUIM	Daund	Kauthadi	47J11-2A	18.356519	74.59923	6	6	572	irrigation	weathered basalt	5.8	4.2	2020	31.5

143	CGWB NAQUIM	Daund	Khopodi	47J6-3B	18.510161	74.377257	5	7.5	532	irrigation	weathered basalt	5.1	4.5	1719	30.4
144	CGWB NAQUIM	Daund	Khor	47J7-2A	18.403593	74.328113	6	12	617	irrigation	Fractured massive basalt	12	11.2	1869	30.3
145	CGWB NAQUIM	Daund	Kusegaon	47J7-2C	18.398292	74.43296	8	8.5	576	Domestic, irrigation	Fractured massive basalt	6.5	3.5	1162	31.3
146	CGWB NAQUIM	Daund	Lonarwadi	47J11-2C	18.37296	74.68666	8	12	527	Domestic, irrigation	Fractured Massive Basalt, Weathered Basalt	10.8	2	1058	29.1
147	CGWB NAQUIM	Daund	Malthan	47J11-2C	18.3910045	74.731905	7	12	506	irrigation	weathered basalt	11	7.8	2041	31.3
148	CGWB NAQUIM	Daund	Nandadevi	47J11-3B	18.348635	74.63565	6	13	538	irrigation	fractured massive basalt	7	5.9	1410	29.9
149	CGWB NAQUIM	Daund	Nimbalkar Vasti	47J7-1B	18.473314	74.310989	6	14	576	irrigation	Weathered Basalt, fractured masssive basalt	6.5	2.6	1511	29.2
150	CGWB NAQUIM	Daund	Patas 1	47J7-1C	18.4350453	74.4538149	7	8.5	553	irrigation	not visible	2.2	1	572	33.6
151	CGWB NAQUIM	Daund	Patas 3	47J7-1C	18.4486451	74.4585278	6	8.5	549	irrigation	weathered basalt	4	0.1	176	32.5

152	CGWB NAQUIM	Daund	Patas 4	47J7-1C	18.4339785	74.4542297	7	15	547	irrigation	Fractured Massive Basalt, Weathered Basalt	14.5	6	1431	32.3
153	CGWB NAQUIM	Daund	Patethan	47J2-2C	18.609308	74.214723	6	9.5	541	irrigation	weathered basalt	3.3	2.9	1771	29.6
154	CGWB NAQUIM	Daund	Pimpalachiwadi 1	47J7-2B	18.3912948	74.3492732	8	10.5	601	irrigation	weathered basalt	9.1	8.2	1930	30
155	CGWB NAQUIM	Daund	Rajegaon 2	47J15-3A	18.340359	74.789223	7	8.5	503	irrigation	fractured massive basalt	8.5	1.2		
156	CGWB NAQUIM	Daund	Telewadi	47J6-2A	18.583141	74.26767	6	8.5	532	irigation	weathered basalt	3.5	2.9	1870	31.5
157	CGWB NAQUIM	Daund	Virobawadi	47J7-1C	18.446206	74.485485	6	14	542	irriagtion	weathered basalt	4.1	3.5	711	28.5
158	CGWB NAQUIM	Daund	Wakhari 1	47J7-1B	18.465468	74.378357	6	13	555	irriagtion	not visible	1.5	0.1	305	30.2
159	CGWB NAQUIM	Daund	Wakhari 2	47J7-1B	18.466891	74.353065	6	11	560	irriagtion	not visible	6.2	0.5	854	28.5
160	CGWB NAQUIM	Daund	Warwand 1	47J7-1B	18.444829	74.424533	5	10.5	549	irrigation	Fractured massive basalt	8.5	7.3	1040	29.6
161	CGWB NAQUIM	Daund	Warwand 2	47J7-1B	18.4345866	74.418113	6	10	554	irrigation	weathered basalt	6.9	2.3	566	30.6
162	CGWB NAQUIM	Daund	Warwand 6	47J7-1C	18.464353	74.428563	3	10.5	544	irrigation	not visible	3.3	3.1	981	30.9
163	CGWB NAQUIM	Daund	Warwand 7	47J7-1C	18.446975	74.415343	6	6.5	549	irrigation	weathered basalt	6	2.9	1467	29.6

164	CGWB NAQUIM	Daund	Gundve wasti	47J6-3C	18.51956	74.431646	7	5	516	irrigation	weathered basalt	4.9	4	2307	31.3
165	CGWB NAQUIM	Daund	Wakhari 3	47J7-1B	18.458352	74.357032	7	8.5	563	irriagtion	weathered basalt	1.5	1.1	2298	31.1
166	CGWB NAQUIM	Daund	Warwand 5	47J7-1C	18.462127	74.428563	8	11	539	irrigation, domestic	weathered basalt	7	4	1618	32.2
167	CGWB NAQUIM	Daund	Watluj	47J15-2A	18.38928	74.771523	6	11	519	irrigation	fractured massive basalt	4.1	2.8	2304	31.3
168	CGWB NAQUIM	Daund	Kangaon	47J6-3C	18.509155	74.480859	6	5	522	irrigation	weathered basalt	1.5	1	6369	30.8
169	CGWB NAQUIM	Daund	Warwand 4	47J7-1C	18.456915	74.387886	6	10	548	irrrigation	Weathered Basalt, fractured masssive basalt	3.2	2.1	741	29.8
170	CGWB NAQUIM	Daund	Yawat	47J7-1A	18.481293	74.275791	8	8.5	560	irrigation	weathered basalt	6.7	6.5	2084	28.4
171	CGWB NAQUIM	Daund	Padvi	47J7-2B	18.3914326	74.4000083	8	8.5	583	irrigation	Fractured massive basalt	8	7.3	1916	29.6
172	CGWB NAQUIM	Daund	Kadethanwadi	47J7-1C	18.498536	74.436903	7	11	524	irrigation	Fractured massive basalt	6.2	0.5	3452	29.1
173	GSDA	Daund	Bhandgaon		18.4653	74.3142		9	575.5			7.2	2.55		
174	GSDA	Daund	Gar		18.4375	74.5097		8	559.1			7.5	1.1		
175	GSDA	Daund	Girim		18.4342	74.355		7.15	600.8			4	2.6		
176	GSDA	Daund	Kalewadi		18.4069	74.6833		13.95	513.9			8.3	2		

177	GSDA	Daund	Kedgaon		18.4583	74.3153		7.4	582.3			6.2	2.6		
178	GSDA	Daund	Kurkumbh		18.4	74.5353		5.85	610.5			3.6	1.7		
179	GSDA	Daund	Pargaon		18.4778	74.3744		14.45	549.8			8.5	3.2		
180	GSDA	Daund	Patas		18.4361	74.4681		10.25	549.8			8.7	6.3		
181	GSDA	Daund	Patethan		18.6064	74.2128		14.3	545.4			8.9	5.5		
182	GSDA	Daund	Rahu		18.5731	74.2728		15.8	524.3			10.4	5.5		
183	GSDA	Daund	Ravangaon		18.3786	74.5489		13.1	604.9			7.3	2.4		
184	GSDA	Daund	Sonawade		18.4408	74.5783		11.5	524			5.6	2.95		
185	CGWB NAQUIM	Haveli	Nandoshi	47F15-1A	18.4252754	73.8001546	7	14.1	647	IR	Fractured Basalt	14	13.5	446	29
186	CGWB NAQUIM	Haveli	Wadebolai-Dogargaon	47J2-3A	18.5940216	74.0798806	7	8.5	578	IR	Fractured Basalt	8	6.4	1077	29
187	CGWB NAQUIM	Haveli	Mogarwadi	47F11-2C	18.3571139	73.7147588	4	9	673	Domestic	Fractured Basalt	8.7	7.5	477	28
188	CGWB NAQUIM	Haveli	Alandi Mhatobach	47J3-1A	18.452138	74.069306	4.7	12.2	602	Domestic	Fractured Basalt	10.62	8	677	29
189	CGWB NAQUIM	Haveli	Tilekarwadi	47J2-3B	18.5079894	74.151142	7.6	7.8	539	Domestic	Fractured Basalt	2.7	1.5	972	29
190	CGWB NAQUIM	Haveli	Arvi	47F15-2A	18.3595438	73.8131351	8	15	808	Domestic	Fractured Basalt	12.6	2.3	442	30
191	CGWB NAQUIM	Haveli	LOHAGAON	47F14-3C	18.607722	73.9350788	5	18	595	Irrigation	Fractured Basalt	17	12	862	31
192	CGWB NAQUIM	Haveli	Dhanori	47F14-2B	18.58003	73.884143	8	8	558	Domestic	Fractured Basalt	3	1.7	687	29
193	CGWB NAQUIM	Haveli	Wadachiwadi	47F15-1B	18.4310546	73.9176424	10.5	18.1	664	IR	Fractured Basalt	17.8	15	449	29
194	CGWB NAQUIM	Haveli	Ahire	47F11-1C	18.4533231	73.7154819	Iregular	5	665	IR	Vesicula basalt fractured	4.9	3.8	373	30
195	CGWB NAQUIM	Haveli	Kadamwak Wasti	47J3-1A	18.4897332	74.0044762	5.7	12.2	546	Irrigarion	Fractured Basalt	3.2	2.7	1772	30
196	CGWB NAQUIM	Haveli	Kesnand	47J2-3A	18.5741357	74.0314924	4	7.6	582	Domestic	Fractured Basalt	6.2	5	1700	27
197	CGWB NAQUIM	Haveli	LOHAGAON	47F14-2C	18.600821	73.925555	7	12	598	Irrigarion	Fractured Basalt	11.5	9	789	27

198	CGWB NAQUIM	Haveli	Loni-kand	47J2-2A	18.6203223	74.0242048	3	9	574	Domestic	Fractured Basalt	8.6	6	1000	27
199	CGWB NAQUIM	Haveli	Manjari Kh.	47F14-3C	18.534636	73.9902209	4.7	8.5	550	Irrigation	Fractured Basalt	5.4	3.2	683	29
200	CGWB NAQUIM	Haveli	Phulgaon	47J2-2A	18.65739	74.010968	5	10	558	IR	Fractured Basalt	9	7.8	862	31
201	CGWB NAQUIM	Haveli	Chinchwad	47F14-2A	18.646218	73.792935	6	12	575	Domestic	Fractured Basalt	4.6	2	1112	27
202	CGWB NAQUIM	Haveli	Pimpri Sandas	47J2-2B	18.6029491	74.1276215	7.2	8.1	547	IR	Fractured Basalt	4.2	2.5	2115	29
203	CGWB NAQUIM	Haveli	Shiraswadi	47J2-3B	18.5743706	74.091585	8	13.6	564	IR	Fractured Basalt	12.7	10.8	954	29
204	CGWB NAQUIM	Haveli	Sortapwadi	47J3-1B	18.4848036	74.0986073	6	12.1	561	IR	Fractured Basalt	11	5.8	697	29
205	CGWB NAQUIM	Haveli	Theur	47J2-3A	18.5154136	74.044879	5.9	6.2	539	IR	Fractured Basalt	3.2	2.9	1077	29
206	CGWB NAQUIM	Haveli	Vitthal Nagar	47F14-1A	18.676328	73.806503	5	10	583	Irrigation	Fractured Basalt	5.1	4.5	797	29.5
207	CGWB NAQUIM	Haveli	Wadgaon-shinde	47F14-2C	18.6383326	73.9594604	4	13	551	IR	Fractured Basalt	4.9	1.7	1176	30
208	CGWB NAQUIM	Haveli	Wadhu Kh.	47J2-2A	18.6512742	74.0218465	5	12.5	559	IR	Fractured Basalt	10.2	6.9	892	31
209	CGWB NAQUIM	Haveli	Wadki	47F15-1C	18.4263518	73.9824982	6	10.8	638	IR	Fractured Basalt	9.1	7.1	696	30
210	CGWB NAQUIM	Haveli	Wadmukhwadi (N	47F14-2B	18.646605	73.88886	4.7	15	579	Irrigation	Fractured Basalt	13.7	9.5	815	29
211	CGWB NAQUIM	Haveli	Wagholi	47F14-2C	18.602477	74.010209	6	5	592	Domestic	Fractured Basalt	3.7	3	1322	27
212	CGWB NAQUIM	Haveli	WARJE	47F14-3A	18.4822638	73.8030473	7.8	9.2	569	Domestic	Fractured Basalt	8	4	1309	26
213	CGWB NAQUIM	Haveli	Ashtapur	47J2-3B	18.5482696	74.1300824	6.2	7.6	525	Irrigarion	Fractured Basalt	3.7	0.1	1789	30
214	CGWB NAQUIM	Haveli	Chikhali	47F14-1A	18.6883169	73.8097659	6.5	16	581	Domestic	Fractured Basalt	4.9	3	904	29
215	CGWB NAQUIM	Haveli	Gogalwadi	47F15-2B	18.3847356	73.8575814	10	14	828	Domestic	Fractured Basalt	10.5	1.3	867	31
216	CGWB NAQUIM	Haveli	Gorhe Kh.	47F15-2A	18.4019226	73.7514802	3		616	Domestic	Fractured Basalt	1.7	0.1	551	30

217	CGWB NAQUIM	Haveli	HADAPSAR	47F15-1C	18.499195	73.95512	8.2	12	568	Domestic	Fractured Basalt	4.7	0.9	773	26
218	CGWB NAQUIM	Haveli	Pimpale Saudagar	47F14-2A	18.5976385	73.8056579	13	6	560	Domestic	Fractured Basalt	5.7	2	801	29
219	GSDA	Haveli	Alandi Mhatobachi		18.45	74.0708		12.8	608			9.8	3.9		
220	GSDA	Haveli	Arvi		18.36	73.8017		14.6	946.7			10	1		
221	GSDA	Haveli	Bhosari		18.6256	73.8525		15.25	592.3			7.7	1.1		
222	GSDA	Haveli	Charholi Bk		18.6375	73.9069		10.1	578.3			6.2	1.5		
223	GSDA	Haveli	Dhanori		18.5975	73.9		9.4	588			3.6	1.1		
224	GSDA	Haveli	Katraj		18.4461	73.8694		10.8	669.6			6.2	2.1		
225	GSDA	Haveli	Koregaon Mul		18.525	74.1194		10.65	528.3			6.5	1.55		
226	GSDA	Haveli	Loni Kalbhor		18.4828	74.03		16.55	545.3			10.1	4.3		
227	GSDA	Haveli	Loni-Kand		18.6194	74.025		10.65	571.6			9.6	3.2		
228	GSDA	Haveli	Moshi		18.6775	73.8519		13.5	574.7			4.4	3.4		
229	GSDA	Haveli	Pimpri Sandas		18.6103	74.1294		9.1	546.2			6.65	3.5		
230	GSDA	Haveli	Sangarun		18.4103	73.6756		9.55	619			4.5	2		
231	GSDA	Haveli	Shiraswadi		18.5744	74.0914		9	562.6			9	2.3		
232	GSDA	Haveli	Sonapur		18.3908	73.6675		10.7	595.2			4.78	2.9		
233	GSDA	Haveli	Uruli Dewachi		18.45	73.9181		11.1	647.7			9.7	5.5		
234	GSDA	Haveli	Uruli Kanchan		18.4917	74.1347		15.1	552.7			12.7	5		
235	GSDA	Haveli	Wadki		18.475	73.9833		13.65	565			11.9	4.5		
236	GSDA	Haveli	Wagholi		18.5861	73.9833		13.55	578.4			6.8	1.3		
237	CGWB NAQUIM	Indapur	Sugaon	47N4-2A	18.1583	75.0697	3	10.5	504.1	Drinking, irrigation	Weathered Basalt, Fractured massive Basalt	10	8.65	655	29.5
238	CGWB NAQUIM	Indapur	Bijwadi	47J16-2C	18.1552	74.957	9.2x12.3	11	511.7	irrigation	Fractured	10	4.3	1316	30.6

											massive Basalt				
239	CGWB NAQUIM	Indapur	Kardanwadi	47J12-2C	18.0972	74.726	9	14.5	529.4	irrigation	Fractured massive Basalt	14	13	1343	29.4
240	CGWB NAQUIM	Indapur	Indapur Rural	47N4-2A	18.1047	75.0225	6	10	522.4	irrigation	Fractured massive Basalt	9.3	4.8	938	29.3
241	CGWB NAQUIM	Indapur	Bori	47J16-2A	18.1415	74.776	8	18	567.4	Drinking, irrigation	Weathered Basalt, Fractured massive Basalt	15	3.6	173	29.1
242	CGWB NAQUIM	Indapur	Galand Wadi No.1	47N4-2A	18.1439	75.0188	3.5	8	531.4	Domestic, drinking	Weathered Basalt, Fractured massive Basalt	3.7	3	2475	27.5
243	CGWB NAQUIM	Indapur	Galand Wadi No.2	47N4-3A	18.0794	75.0371	8.5	13	525.9	Domestic	Weathered Basalt, Fractured massive Basalt	8.8	5.3	464	26.9
244	CGWB NAQUIM	Indapur	Kalewadi	47J16-1B	18.227	74.8465	10	14	503	Domestic, drinking	Vesicular and weathered Basalt, Fractured Basalt	10.9	1.2	1388	32.1

245	CGWB NAQUIM	Indapur	Lumewadi	47O1-1A	17.9297	75.0262	10.5	9.5	496	irrigation	Weathered Basalt, Fractured massive Basalt	8.6	4.1	1804	27.8
246	CGWB NAQUIM	Indapur	Nimbodi	47J12-2C	18.147	74.691	3.2	11	550.2	Rope and bucket	Weathered Basalt, Fractured massive Basalt	10	7.53	686	29.6
247	CGWB NAQUIM	Indapur	Pimpale	47J11-3C	18.2589	74.7197	10.5	15	522.4	Domestic, drinking	Fractured massive Basalt	15	10.5	1495	32.4
248	CGWB NAQUIM	Indapur	Ranmodwadi	47J16-3A	18.0488	74.8104	4.4	7	508.3	Domestic	Fractured massive Basalt	5.5	3.9	2789	28.5
249	CGWB NAQUIM	Indapur	Redani	47K13-1B	17.9812	74.9004	7.8	15	496.4	Domestic	Fractured massive Basalt	14	3.6	2265	27.5
250	CGWB NAQUIM	Indapur	Varkute Bk.	47J16-1C	18.1906	74.9772	8.5	9	514.6	Domestic	Weathered Basalt, Fractured massive Basalt	6.5	3.65	3671	31
251	CGWB NAQUIM	Indapur	Nirwangi	47J16-3B	18.0149	74.8582	8.5	27	497.9	irrigation	Weathered Basalt, Fractured	15	9.7	4707	28.2

											massive Basalt				
252	CGWB NAQUIM	Indapur	Nirnimgaon	47K13-1C	17.9451	74.9527	6	15	497.4	irrigation	Weathered Basalt, Fractured massive Basalt	13	10.1	1664	31.2
253	CGWB NAQUIM	Indapur	Palasdeo	47J16-1B	18.2333	74.9054	7.3	10.5	506.6	irrigation	Weathered Basalt, Fractured massive Basalt	5.2	4.1	1966	30
254	CGWB NAQUIM	Indapur	Awasari	47N4-3A	18.0337	75.0345	6	10	498.6	irrigation	Weathered Basalt, Fractured massive Basalt	9.4	3.3	912	27.5
255	CGWB NAQUIM	Indapur	Jankshan (nv)	47J16-2A	18.0996	74.7583	6	10	541.1	irrigation	Weathered Basalt, Fractured massive Basalt	5.1	3.8	1490	27.3
256	CGWB NAQUIM	Indapur	Nirgude	47J12-1C	18.2301	74.6829	10	15.8	556.5	irrigation	Weathered Basalt, Fractured massive Basalt	14.9	13.2	478	29.2

257	CGWB NAQUIM	Indapur	Reda	47J16-3B	18.0113	74.9143	8.5	10	512.2	irrigation	Fractured massive Basalt	6	4.8	3248	28.6
258	CGWB NAQUIM	Indapur	Shaha	47N4-2B	18.1005	75.1035	6	10	514.2	irrigation	Fractured massive Basalt	9.9	7.53	1276	30.3
259	CGWB NAQUIM	Indapur	Udhat	47J12-3C	18.0683	74.7087	8	10.5	523.6	irrigation	Weathered Basalt, Fractured massive Basalt	5.7	1.8	3025	29.5
260	CGWB NAQUIM	Indapur	Kazad	47J12-1C	18.1754	74.7285	6	12	568.3	irrigation	Vesicular Basalt, Weathered Basalt	11	9.3	1773	29.8
261	CGWB NAQUIM	Indapur	Gotandi	47J16-3B	18.0579	74.8516	9	30	534.7	irrigation	Fractured massive Basalt	15	6.9	535	27.6
262	CGWB NAQUIM	Indapur	Shirsadi	47N4-1A	18.1705	75.041	13.2	13	521.2	irrigation	Weathered Basalt, Fractured massive Basalt	6.9	4.65	1054	24.5
263	CGWB NAQUIM	Indapur	Bhodani	47K13-1C	17.9918	74.97	10x10	18	503	irrigation	Weathered Basalt, Fractured massive Basalt	9.9	3.1	572	27.6

264	CGWB NAQUIM	Indapur	Giravi	47O1-1B	17.95	75.1006	9	10	487.7	irrigation	Weathered Basalt, Fractured massive Basalt	9	5.32	1048	27.6
265	CGWB NAQUIM	Indapur	Pilewadi	47J16-1A	18.2142	74.7933	6	11	556.8	irrigation	Vesicular Basalt, Weathered Basalt	9.8	3.25	1345	28.4
266	GSDA	Indapur	Anthurne		18.0833	74.7964		11.5	524			8	4.3		
267	GSDA	Indapur	Bawada		17.9667	74.9994		11	481.4			8.4	6		
268	GSDA	Indapur	Bhadalwadi		18.2283	74.7769		10.9	514.9			4.6	1.8		
269	GSDA	Indapur	Bhigvan		18.3103	74.7558		12.1	503.4			11.6	1.6		
270	GSDA	Indapur	Galand Wadi No.1		18.1417	74.9939		8.25	518.3			4	2		
271	GSDA	Indapur	Hingangaon		18.0756	75.1028		4.6	473			3.6	1.95		
272	GSDA	Indapur	Indapur		18.1097	75.0264		14	513.5			10	4		
273	GSDA	Indapur	Kalamb		18.0297	74.7844		15.8	513.1			9.8	1.8		
274	GSDA	Indapur	Kauthali		18.1525	74.9256		9.15	528.6			8.3	4		
275	GSDA	Indapur	Kazad		18.1197	74.7256		10	543.3			7.3	2.3		
276	GSDA	Indapur	Lamjewadi		18.23	74.6653		12.6	593			12.5	1.1		
277	GSDA	Indapur	Loni		18.2036	74.9156		8.85	529.7			6.2	2.3		
278	GSDA	Indapur	Madanwadi		18.2828	74.7467		14.4	500.3			12.7	2.1		
279	GSDA	Indapur	Nimgaon Ketki		18.0844	74.9289		18.3	536.8			17.8	4.6		
280	GSDA	Indapur	Reda		18.0047	74.9208		8.9	503.7			7	4.7		
281	GSDA	Indapur	Rui		18.1764	74.85		7.5	529.3			7	1.3		
282	GSDA	Indapur	Sarati		17.9144	75.0075		12.5	482.3			8	4.8		
283	GSDA	Indapur	Shetphalgadhe		18.2569	74.6875		12	543.7			6	2.4		
284	GSDA	Indapur	Tawashi		18.0708	74.6722		11.4	513.6			5.4	2.2		
285	GSDA	Indapur	Varkute Bk.		18.2	74.9542		8.9	532			7.1	1.8		

286	CGWB NAQUIM	Junnar	Chincholi	47E16-2B	19.1295	73.8603	6	21	733.1	Irrigation		19	18.7	510	31
287	CGWB NAQUIM	Junnar	Aldare	47E16-1B	19.2259	73.8762	4.5	12	685.7	Drinking -Washing		9	4.1	810	30
288	CGWB NAQUIM	Junnar	Ambe Gavhan	47E15-3C	19.3118	73.9947	7.5	19	685.9	Drinking -Washing		18	13.2	1550	31
289	CGWB NAQUIM	Junnar	Devale	47E11-3C	19.2829	73.7421	4	8	720.4	Drinking -Washing		7	5.9	310	31
290	CGWB NAQUIM	Junnar	Ingaloon	47E12-1C	19.2061	73.6994	6	10	809.5	Drinking -Washing		9.1	4.1	350	31
291	CGWB NAQUIM	Junnar	Pemdara	47I8-1A	19.1855	74.2627	3.2	8	774.6	Drinking -Washing		6.1	5.1	590	31
292	CGWB NAQUIM	Junnar	Bhorwadi	47I4-2A	19.1554	74.0122	3.5	10	655.2	Drinking -Washing		9	8.6	790	30
293	CGWB NAQUIM	Junnar	Dingore	47E15-3C	19.2766	73.9311	5.5	26	663.9	Irrigation		21	19.8	1320	30
294	CGWB NAQUIM	Junnar	Khireshwar	47E15-2A	19.3704	73.808	8	18	687.9	Irrigation		16	12.65	340	30
295	CGWB NAQUIM	Junnar	Kolwadi	47E15-3B	19.3034	73.8949	5	12	667.9	Irrigation		11	6.9	510	31
296	CGWB NAQUIM	Junnar	Manjarwadi	47I4-3A	19.0653	74.0179	3	21	653.9	Irrigation		17	12.65	1480	30
297	CGWB NAQUIM	Junnar	Pargaon Tarf Ale	47I4-3B	19.0488	74.1585	6	14	609.2	Irrigation		6.9	4.9	910	31
298	CGWB NAQUIM	Junnar	Rajuri	47I4-2B	19.1528	74.1396	4	12	665.2	Irrigation		12	9.1	710	29
299	CGWB NAQUIM	Junnar	Ralegan	47E16-1A	19.209	73.7704	6	10	756.7	Irrigation		9	6.3	360	31
300	CGWB NAQUIM	Junnar	Sanganore	47E15-2B	19.3453	73.849	6.5	12	689.9	Irrigation		11	6.3	240	29
301	CGWB NAQUIM	Junnar	Santwadi	47I4-1B	19.2047	74.1379	3.45	10	715.5	Irrigation		9	8.8	670	29
302	CGWB NAQUIM	Junnar	Sawargaon	47E16-2C	19.1443	73.9275	5	14	682.3	Irrigation		8.9	6.52	1230	31
303	CGWB NAQUIM	Junnar	Tambewadi	47I4-2B	19.1135	74.1476	5.5	9.8	635.2	Irrigation		9.8	9.3	540	29
304	CGWB NAQUIM	Junnar	Yenere	47E16-1A	19.1712	73.8217	6	18	733.3	Irrigation		16	8.9	1080	31
305	CGWB NAQUIM	Junnar	Pimpri Pendhar	47I4-1A	19.2018	74.0652	4	18	674	Irrigation		15	8.4	740	30
306	CGWB NAQUIM	Junnar	Sawargaon	47E16-2B	19.1254	73.9008	5	16	695.5	Irrigation		15	10.3	1310	30
307	CGWB NAQUIM	Junnar	Ozar	47E16-1C	19.1931	73.9547	7	9.5	648.5	Irrigation		6.1	3.8	920	31
308	CGWB NAQUIM	Junnar	Hivare Kh	47E16-1C	19.2263	73.9726	7	24	642.9	Irrigation		16	7.1	720	31
309	GSDA	Junnar	Ale		19.1811	74.1161		13.65	673.1			8.6	4.8		
310	GSDA	Junnar	Aptale		19.2178	73.7736		18	810.2			11	3		
311	GSDA	Junnar	Belhe		19.1125	74.1778		16.3	656			14.2	4.7		
312	GSDA	Junnar	Bori Bk.		19.1178	74.0989		11	618.1			6.3	3.1		
313	GSDA	Junnar	Dholwad		19.2242	73.9794		20.9	649.9			18	8		
314	GSDA	Junnar	Dingore		19.2761	73.9461		15	669.1			13.5	6		

315	GSDA	Junnar	Gulanchwadi		19.1381	74.2089		13.5	723.8			8.6	3		
316	GSDA	Junnar	Hadsar		19.2622	73.8103		10.4	763.6			10.1	1.99		
317	GSDA	Junnar	Khanapur		19.1744	73.8931		14.8	706			7.2	1.5		
318	GSDA	Junnar	Mangrul		19.0486	74.1583		20.35	608.6			14	5		
319	GSDA	Junnar	Narayangaon		19.1328	73.9589		7.45	668.2			5.8	2.6		
320	GSDA	Junnar	Netwad		19.24	73.9547		9.5	664.7			5.7	3.4		
321	GSDA	Junnar	Otur		19.2639	73.9819		24.6	672.8			17.8	12.4		
322	GSDA	Junnar	Padali		19.2194	73.8569		10.8	682.3			5.9	2.6		
323	GSDA	Junnar	Pimpalwandi		19.1736	74.0525		14.45	634.7			14	1.2		
324	GSDA	Junnar	Rohkadi		19.2997	73.9947		24.4	693.2			21.6	17.4		
325	GSDA	Junnar	Sitewadi		19.29	73.8175		11	697			8	1.9		
326	GSDA	Junnar	Tambe		19.1681	73.7819		9.6	788.6			7.5	2.56		
327	GSDA	Junnar	Tejewadi		19.2014	73.9347		13.15	658.6			9.8	4.2		
328	GSDA	Junnar	Yenere		19.1769	73.8222		12.2	732.5			8.6	3.8		
329	GSDA	Khed	Ambethan		18.7825	73.8194		9	658.4			7	0.65		
330	GSDA	Khed	Ambhu		18.9339	73.5897		13.5	789.5			12.8	3.8		
331	GSDA	Khed	Bahul		18.7206	73.9992		9.85	563.2			3.5	1.05		
332	GSDA	Khed	Bhorgiri		19.0422	73.5708		5.8	667.4			5.4	1		
333	GSDA	Khed	Chakan		18.7556	73.8583		11.85	621.2			5.5	0.6		
334	GSDA	Khed	Chandus		18.895	73.8144		11	645.2			5	1.2		
335	GSDA	Khed	Chas		18.925	73.8333		16.75	624			14.85	11.4		
336	GSDA	Khed	Ghotavadi		18.9561	73.6361		10.55	809.7			9.3	0.9		
337	GSDA	Khed	Kadadhe		18.9583	73.8		9.5	632.9			8.3	1.7		
338	GSDA	Khed	Kadus		18.895	73.8144		9.6	645.2			5.8	3		
339	GSDA	Khed	Kuruli		18.7167	73.8442		10.3	606			6.6	2		
340	GSDA	Khed	Pait		18.8772	73.7217		9.5	707.2			6.4	1.2		
341	GSDA	Khed	Rajgurunagar (Khed)		18.85	73.8833		11	586.2			8.15	1		
342	GSDA	Khed	Saburdi		18.9417	73.7561		6.5	673.1			4.5	1.3		

343	GSDA	Khed	Solu		18.6728	73.9408		13.5	569.3			9	2.56		
344	GSDA	Khed	Varude		18.8578	74.0078		8.7	689.8			8	2.2		
345	GSDA	Khed	Virham		18.9581	73.5958		14.5	709			13.85	1.9		
346	GSDA	Khed	Wasuli		18.7828	73.7631		7.1	662.7			4.4	1.4		
347	GSDA	Maval	Bhoyare		18.8583	73.5958		9	670.9			7	0.7		
348	GSDA	Maval	Brahmanoli		18.6669	73.5058		8.4	589.7			7	1.9		
349	GSDA	Maval	Chandkhed		18.6486	73.65		8.3	601.4			4.3	1.9		
350	GSDA	Maval	Chikhalse		18.7311	73.5686		9.3	692.4			9	1.3		
351	GSDA	Maval	Induri		18.7361	73.7167		10.4	598.2			9	1.5		
352	GSDA	Maval	Jambhul		18.76	73.6131		6.4	622.6			6	1.4		
353	GSDA	Maval	Kadadhe		18.6972	73.5333		4.8	589.7			4	0.9		
354	GSDA	Maval	Karla		18.7611	73.4744		9.6	624.1			3.6	1		
355	GSDA	Maval	Malawali P.M.		18.7364	73.695		7.7	604.6			6.5	1		
356	GSDA	Maval	Nane		18.7819	73.5597		7.9	610.7			5	0.9		
357	GSDA	Maval	Somatane		18.7028	73.6806		8	600.6			4.5	1		
358	GSDA	Maval	Takave Bk.		18.8036	73.6083		8	665			7.5	1.8		
359	GSDA	Maval	Talegaon Dabhade ®		18.7208	73.6911		10.4	603.2			4	2		
360	GSDA	Maval	Thakursai		18.6242	73.4578		9.3	678.9			7	1.6		
361	GSDA	Maval	Thoran		18.875	73.4756		5.3	974.9			4.7	0.8		
362	GSDA	Maval	Vadgaon Mawal		18.7411	73.6442		4.6	616			3.4	0.6		
363	GSDA	Mulshi	Andgaon		18.5458	73.3958		7	648.8			3.5	1.09		
364	GSDA	Mulshi	Bhugaon		18.5019	73.7494		10.25	657.4			8.8	1		
365	GSDA	Mulshi	Ghotavade		18.5486	73.6639		5.8	570.3			5	1		
366	GSDA	Mulshi	Hinjavadi		18.5975	73.7422		10.5	573			9.1	1.3		
367	GSDA	Mulshi	Kemasewadi		18.5853	73.6194		9.55	688.3			8	1		
368	GSDA	Mulshi	Kondhawale		18.525	73.5931		6.8	569			5.6	1.2		
369	GSDA	Mulshi	Nere		18.6233	73.7		13	615.1			8	1		
370	GSDA	Mulshi	Paud		18.5208	73.6283		10.85	610.2			8.34	2.1		

371	GSDA	Mulshi	Sus		18.5547	73.7447		8.2	599.3			5.6	1.8		
372	GSDA	Mulshi	Tamhini Bk.		18.4411	73.4278		5.9	658.6			5.2	1		
373	GSDA	Mulshi	Viseghar		18.6306	73.4186		7.25	802.4			6.5	1.23		
374	CGWB NAQUIM	PUNE CITY	PUNE CITY	47F15-1B	18.5389351	73.8460584	6	12.2	553	IR	Fractured vesicular basalt	11	6.4	832	26.5
375	CGWB	Purandhar	Jejuri		18.268	74.171			722			6.9	5.8		
376	CGWB	Purandhar	Narayanpur		18.303	73.975			885			8.7	1		
377	CGWB	Purandhar	Pangre Sailar Basti		18.251	74.083			739			6.9	6		
378	CGWB	Purandhar	Pimpri (Kh) Malvasti		18.111	74.203			561			5.7	5.35		
379	CGWB	Purandhar	Sakurde		18.283	74.117			764			6.3	1.75		
380	CGWB	Purandhar	Zendewadi		18.414	74.017			836			15	12		
381	CGWB NAQUIM	Purandhar	Gulunche	47J4	18.172	74.225			585.4			13	4		
382	CGWB NAQUIM	Purandhar	Askarwadi	47F15	18.401	73.903	7.2	15.6	927	Irrigation		9.3	1.6	580	27.8
383	CGWB NAQUIM	Purandhar	Ambale	47J3	18.411	74.157	6.8 m X 5 m	13	728	Not in use		11.15	9.5	1981	29
384	CGWB NAQUIM	Purandhar	Thapewadi	47F15	18.347	73.912	7	18	883	Irrigation		13.15	6.85	433	25.9
385	CGWB NAQUIM	Purandhar	Bhosalewadi	47J3	18.369	74.138	6.8	11	705	Drinking water supply		5.65	2.22	863	30.4
386	CGWB NAQUIM	Purandhar	Daundaj	47J4	18.214	74.16	7	14.5	656	Drinking water supply		10.1	6.6	1069	29.2
387	CGWB NAQUIM	Purandhar	Dive	47J3	18.385	74.023	6.75	13.5	800	Domestic, not drinking		8.83	4.9	1317	28.6
388	CGWB NAQUIM	Purandhar	Hivare	47F15	18.36	73.996	8.5	16.8	799	Drinking water supply		13.85	7.05	1069	26.9
389	CGWB NAQUIM	Purandhar	Kaldari	47F15	18.244	73.986	8	12	795	Drinking water supply		10.1	1.22	355	30.2
390	CGWB NAQUIM	Purandhar	Veer	47J4	18.151	74.086	6.75	20	594	Drinking water supply		15.1	5.99	1035	32
391	CGWB NAQUIM	Purandhar	Rajuri	47J7	18.347	74.272	6	12	682	Irrigation		10.75	5.28	1206	29.9
392	CGWB NAQUIM	Purandhar	Jawalarjun	47J7	18.278	74.254	3.5	11	643	Irrigation		8.6	7.9	6459	27.9

393	CGWB NAQUIM	Purandhar	Pondhe	47J7	18.426	74.276	7.5	4.1	720	Irrigation & domestic		7.2	1.72	931	29.9
394	CGWB NAQUIM	Purandhar	Pimpale	47J3	18.316	74.035	7.5	14	789	Irrigation & domestic		12.6	10.65	844	32
395	CGWB NAQUIM	Purandhar	Pondhe	47J7-1A	18.4261422	74.2742437	6.1	10	723	Domestic	Fractured basalt	5.7	3.5	1012	29
396	GSDA	Purandhar	Belsar		18.311	74.128		16.5	709			14.6	9.1		
397	GSDA	Purandhar	Chambhali		18.378	73.975		50	829			11.5	9		
398	GSDA	Purandhar	Dive		18.381	74.017		36.1	797			18	7.3		
399	GSDA	Purandhar	Gurholi		18.405	74.093		8.7	798.4			7.6	1.9		
400	GSDA	Purandhar	Harni		18.172	74.118		7.05	605.7			6.4	2.1		
401	GSDA	Purandhar	Jejuri		18.283	74.146		7	733.4			5.5	1.4		
402	GSDA	Purandhar	Khalad		18.332	74.083		30	726.1			25	13.75		
403	GSDA	Purandhar	Khanvadi		18.331	74.094		9.15	724.8			4.7	3.6		
404	GSDA	Purandhar	Malshiras		18.407	74.233		100	716.7			29.2	4		
405	GSDA	Purandhar	Mawadikade Pathar		18.26	74.243		14.85	659			7.2	5.6		
406	GSDA	Purandhar	Mawadikade Pathar		18.274	74.249		34	649.8			11.6	5.5		
407	GSDA	Purandhar	Pargaon		18.356	74.125		35	734.8			29.2	25.2		
408	GSDA	Purandhar	Pargaon		18.356	74.125		97	734.8			26.8	6		
409	GSDA	Purandhar	Parinche		18.19	74.087		11.85	639.2			9.7	7.7		
410	GSDA	Purandhar	Pingori		18.26	74.054		9.4	743.6			7.5	3.2		
411	GSDA	Purandhar	Pondhe		18.424	74.276		90	720.5			4.9	3.5		
412	GSDA	Purandhar	Rise		18.358	74.3		60	668.6			9.15	7.85		
413	GSDA	Purandhar	Sakurde		18.273	74.12		10.7	771.2			6.9	1.4		
414	GSDA	Purandhar	Saswad Rural		18.338	74.029		30	767.1			5.1	3.5		
415	GSDA	Purandhar	Walhe		18.186	74.154		30	627.5			12.5	6.4		
416	GSDA	Purandhar	Walhe		18.192	74.152		9	630.8			7.3	3		
417	CGWB NAQUIM	Shirur	Takali Haji	47J5-2A	18.90154	74.247803	6.5	13	583	Agriculture	weathered basalt	6.5	6.2	1192	31.1

418	CGWB NAQUIM	Shirur	Nimone	47J6-1C	18.707688	74.404758	6.5	13	590	Agriculture	Highly factured massive basalt	10.8	9.5	1426	29
419	CGWB NAQUIM	Shirur	Tardobachiwadi	47J5-3B	18.810098	74.381656	6.5	12	562	Agriculture, Domestic	Fractured Massive Basalt	6	5.3	1172	31.2
420	CGWB NAQUIM	Shirur	Ganegaon Dumala 2	47J10-3A	18.520156	74.587883	6	12.5	520	Agriculture	weathered basalt	6.2	5	3815	28.1
421	CGWB NAQUIM	Shirur	Ganegaon Dumala 1	47J10-3A	18.520121	74.523855	7	12.5	516	Agriculture	Weathered Basalt, fractured masssive basalt	6.2	5.1	2947	29.2
422	CGWB NAQUIM	Shirur	Kondhapuri	47J2-1C	18.729415	74.203628	8.5	9.5	590	Agriculture	Fractured Massive Basalt	1.3	1	744	30.6
423	CGWB NAQUIM	Shirur	Sanaswadi 2	47J2-2B	18.659383	74.114645	6.5	16	569	commercial	Weathered Basalt, fractured masssive basalt	11.5	9.7	3031	29.8
424	CGWB NAQUIM	Shirur	Ganegaon Khalsa	47J1-3C	18.757689	74.188032	5.5	9	600	Domestic	not visible	3.45	2.4	1091	31.7
425	CGWB NAQUIM	Shirur	Kanhur	47J1-2B	18.830546	74.136415	4.7 x 4.7	11	675	Domestic	Weathered Basalt	9.2	8	1276	30.7
426	CGWB NAQUIM	Shirur	Lakhewadi	47J1-3C	18.840395	74.29367	7	10	574	Domestic	Weathered Basalt, fractured masssive basalt	6.5	5.5	453	32.8

427	CGWB NAQUIM	Shirur	Nimgaon Bhogi	47J5-3A	18.841169	74.2691	4.8	15	567	Domestic	Fractured Massive Basalt	13	5.7	2970	29.2
428	CGWB NAQUIM	Shirur	Parhadwadi	47J1-3A	18.758855	74.05999	4	9	645	Domestic	Fractured Massive basalt	3.8	3.2	1529	30.3
429	CGWB NAQUIM	Shirur	Pimpale Khalsa	47J1-3B	18.756556	74.106194	4 x 4.5	8.5	616	domestic	Weathered Basalt	2.8	1.3	1013	30.6
430	CGWB NAQUIM	Shirur	Sone Sangavi	47J1-3C	18.807671	74.231119	5.5	9.5	636	Domestic	Fractured Massive Basalt	7	5.6	680	32.5
431	CGWB NAQUIM	Shirur	Wajewadi	47J2-1A	18.705698	74.041275	4	9	594	Domestic	Weathered Basalt, fractured masssive basalt	1	0.1	1067	30.2
432	CGWB NAQUIM	Shirur	Mandavgan Farata	47J6-3C	18.546977	74.502565	7	8	519	irriagtion, domestic	weathered basalt	3.5	2.2	3838	29.1
433	CGWB NAQUIM	Shirur	Chandoh	47J1-1C	18.97799	74.168221	5	8.4	606	Domestic, agriculture	Weathered Basalt	6	5	1357	29
434	CGWB NAQUIM	Shirur	Kardilwadi	47J5-3A	18.820093	74.351599	6.5	17	570	Agriculture	Fractured Massive Basalt	16.5	14	1263	33
435	CGWB NAQUIM	Shirur	Kohakdewadi	47J6-2B	18.608396	74.4055	6	9.5	547	Agriculture	Fractured Massive Basalt, Weathered Basalt	6.5	6	2301	35.8

436	CGWB NAQUIM	Shirur	Alegaon Paga	47J6-2A	18.621919	74.338401	6	12	534	agriculture	Weathered Basalt	11.6	10.3	3146	32.9
437	CGWB NAQUIM	Shirur	Amble	47J6-1B	18.704663	74.346673	8.5	18	594	Domestic, agriculture	Highly factured massive basalt	9.5	9	1251	31.9
438	CGWB NAQUIM	Shirur	Andhalgaon	47J6-2B	18.608396	74.4055	5	17	549	Agriculture	Highly factured massive basalt	12.1	10.7	1357	29.7
439	CGWB NAQUIM	Shirur	Bhambarde	47J6-1A	18.738415	74.278003	6	14	644	Agriculture	Fractured Massive Basalt, Weathered Basalt	13.5	11	842	29.2
440	CGWB NAQUIM	Shirur	Gunat	47J6-1C	18.697134	74.416838	10.5	10.5	593	Domestic, agriculture	Highly factured massive basalt	10	9.5	736	31.6
441	CGWB NAQUIM	Shirur	Inamgaon	47J10-2A	18.593565	74.538201	3	15	521	Agriculture	Highly factured massive basalt	12.1	10.2	4509	29.8
442	CGWB NAQUIM	Shirur	Karade	47J5-3B	18.744803	74.332976	8	10.5	614	Agriculture	Fractured Massive Basalt	8.2	7.2	786	31
443	CGWB NAQUIM	Shirur	Khaire Nagad	47J1-3B	18.819614	74.096248	8.5	13	676	Domestic, agriculture	Weathered Basalt	11.6	10.1	1041	30.8
444	CGWB NAQUIM	Shirur	Munjalwadi	47J1-2C	18.82733	74.12161	6.5	10	691	Domestic, agriculture	Weathered Basalt	9.95	2.4	1914	31.1
445	CGWB NAQUIM	Shirur	Nhavara	47J6-2B	18.664364	74.359467	10.5	6.5	572	Agriculture	Fractured	4.5	3.7	1147	30.9

											Massive Basalt, Weathered Basalt				
446	CGWB NAQUIM	Shirur	Nimgaon Dude	47J1-2C	18.899771	74.239389	6	7	572	Domestic	Weathered Basalt, fractured masssive basalt	2.5	2	991	32.1
447	CGWB NAQUIM	Shirur	Nimgaon Mhalungi	47J2-1C	18.687286	74.216898	8.5	9.5	568	Agriculture	Fractured Massive Basalt, Weathered Basalt	8.1	7	2076	31.1
448	CGWB NAQUIM	Shirur	Nimone	47J6-1B	18.719383	74.37421	6.5	10.5	605	Agriculture	Highly factured massive basalt	10.2	9	875	30.3
449	CGWB NAQUIM	Shirur	Nirvi	47J6-2C	18.665831	74.423473	7	15.3	577	Agriculture	Highly factured massive basalt	14	13.3	692	29.2
450	CGWB NAQUIM	Shirur	Parodi	47J6-1A	18.681345	74.251495	6	9.5	557	Domestic	not visible	2.3	0.1	623	33.1
451	CGWB NAQUIM	Shirur	Pimpale Jagtap	47J2-1A	18.710917	74.055899	6.2	5.5	594	Domestic, agriculture	Weathered Basalt, fractured masssive basalt	1.2	1	616	31.8
452	CGWB NAQUIM	Shirur	Rautwadi	47J2-1B	18.714971	74.146642	6	13	594	Agriculture, Domestic	Fractured Massive Basalt,	8.8	8	1022	31

											Weathered Basalt				
453	CGWB NAQUIM	Shirur	Saradwadi	47J1-1C	18.98246	74.210043	6	6.5	604	Domestic	weathered basalt	2.3	1.6	1121	33
454	CGWB NAQUIM	Shirur	Savindane	47J1-2B	18.897461	74.139371	6.5	9	621	agriculture	Weathered Basalt	2.9	0.1	1203	29.1
455	CGWB NAQUIM	Shirur	Shirasgaon Kata	47J6-2C	18.626458	74.478218	8.5	10.5	534	Agriculture	Highly factured massive basalt	3.5	2	768	31.9
456	CGWB NAQUIM	Shirur	Talegaon Dhamdhere	47J2-2C	18.662186	74.14983	8.5	15	564	agriculture	Weathered Basalt, fractured masssive basalt	10	8.2	3719	32.4
457	CGWB NAQUIM	Shirur	Tandali	47J10-3A	18.549343	74.562501	3	11	518	Agriculture	not visible	5	2.1	4010	29.5
458	CGWB NAQUIM	Shirur	Thitewadi	47J1-3A	18.801841	74.051891	8.5	18	648	Agriculture, Domestic	Weathered Basalt, fractured masssive basalt	15.1	13.8	787	31.8
459	CGWB NAQUIM	Shirur	Sanaswadi 1	47J2-1B	18.671466	74.109205	6.5	11.5	572	Agriculture	Weathered basalt	10.5	9	2152	31.2
460	GSDA	Shirur	Andhalgaon		18.6103	74.3972		7.85	536.8			7.8	3.6		
461	GSDA	Shirur	Chincholi		18.8153	74.1592		7.6	645.9			6	2.8		
462	GSDA	Shirur	Dhamari		18.7906	74.0969		14.15	642.4			13.5	2.4		
463	GSDA	Shirur	Fakate		18.9469	74.2		8.5	597.7			4.5	2.2		
464	GSDA	Shirur	Gunat		18.6872	74.4244		13	576.4			12.2	2.9		
465	GSDA	Shirur	Jambut		19.0028	74.2025		13.2	600.3			10.8	1.1		

466	GSDA	Shirur	Kawathe		18.8917	74.1764		9.2	606.6			6.8	1.3		
467	GSDA	Shirur	Kendur		18.7814	74.1219		9	631			8.8	3.7		
468	GSDA	Shirur	Kondhapuri		18.7228	74.1986		18.9	594.4			18.5	6.1		
469	GSDA	Shirur	Malthan		18.8383	74.2347		11.3	594			11.3	2.6		
470	GSDA	Shirur	Mandavgan Farata		18.56	74.4839		15.6	516			13.2	1.3		
471	GSDA	Shirur	Mhase Bk.		18.8681	74.3047		8.9	564.7			6.2	1.2		
472	GSDA	Shirur	Nhavara		18.6625	74.3711		12.25	573.3			12.2	4.1		
473	GSDA	Shirur	Nimgaon Dude		18.9	74.2383		12.1	582			10.7	2.5		
474	GSDA	Shirur	Pabal		18.8333	74.0556		13.7	672.7			12.1	1.9		
475	GSDA	Shirur	Pimpale Jagtap		18.7097	74.0594		6.55	589.1			5.2	2.4		
476	GSDA	Shirur	Pimparkhed		18.9958	74.1417		15.45	603.8			14.5	2.5		
477	GSDA	Shirur	Ranjangaon Ganpati		18.7528	74.2494		12.2	629.4			10.55	3.1		
478	GSDA	Shirur	Sanaswadi		18.6728	74.1039		13	573.7			7.3	6.1		
479	GSDA	Shirur	Saradwadi		18.7989	74.3264		6.3	588.7			6.2	3.1		
480	GSDA	Shirur	Shikrapur		18.6939	74.1378		10.65	579			9.75	3.7		
481	GSDA	Shirur	Shirasgaon Kata		18.6278	74.4714		6.7	544.6			6	2		
482	GSDA	Shirur	Shirur		18.8283	74.3908		13.5	553.4			12.8	4.4		
483	GSDA	Shirur	Tandali		18.5408	74.5533		16.45	519.9			15.5	6.5		
484	GSDA	Shirur	Vadner Kh.		18.9667	74.2236		8.3	596			6.7	1.7		
485	CGWB NAQUIM	Velhe	Vajeghar Bk.	47F11-3C	18.269258	73.6687719	6	10	704	IR	Vesicular basalt	5.9	4	262	29
486	CGWB NAQUIM	Velhe	Kelad	47F12-1A	18.202595	73.5808448	5	9	660	Domestic	Fractured basalt	4.2	3	89	25
487	CGWB NAQUIM	Velhe	Kodawadi	47F15-3A	18.2540673	73.7939295	5	10	679	Domestic	Fractured basalt	3.5	3	69	28
488	CGWB NAQUIM	Velhe	Nigde Bk.	47F15-3A	18.2981861	73.7932616	6	10	642	Domestic	Vesicular basalt	6.1	1	505	28
489	CGWB NAQUIM	Velhe	Ambed	47F11-2C	18.351623	73.6931894	5.4	10.2	696	Domestic	Fractured basalt	4.2	1.5	419	30
490	CGWB NAQUIM	Velhe	Tekpole	47F7-3C	18.3262028	73.4749824	3	7	665	Domestic	Fractured basalt	3.7	3.2	106	26

491	CGWB NAQUIM	Velhe	Pasali	47F11-3B	18.2319435	73.587854	6	11	682	IR	Fractured basalt	8.1	7.5	98	31
492	CGWB NAQUIM	Velhe	Ghisar	47F11-3A	18.294239	73.55617	2.7	6.9	845	IR	weathered basalt	3.7	2	356	27
493	CGWB NAQUIM	Velhe	Ghol	47F7-3C	18.3193174	73.4332776	4.2	7	682	IR	Fractured basalt	3.8	0.1	224	28
494	CGWB NAQUIM	Velhe	Jadhavwadi	47F11-3B	18.2446119	73.5905946	7	18	831	Domestic	Fractured basalt	17.5	2.3	185	30
495	CGWB NAQUIM	Velhe	Bhordi	47F12-1A	18.2242684	73.5649473	3.8	10.2	668	IR	Fractured basalt	6.8	4.2	210	27
496	CGWB NAQUIM	Velhe	Pole	47F11-3A	18.300365	73.3300365	4	7	682	IR	Fractured basalt	5	2.5	321	26
497	GSDA	Velhe	Gunjavane		18.2528	73.7069		14.15	720.9			9	1.56		
498	GSDA	Velhe	Margasani		18.2817	73.7417		10	674.1			8.6	0.7		
499	GSDA	Velhe	Osade		18.3814	73.6869		5.8	638.1			5	0.8		
500	GSDA	Velhe	Panshet		18.3811	73.6272		4	592.8			2.1	0.6		
501	GSDA	Velhe	Velhe Bk.		18.2936	73.6378		6.1	717.5			6	0.9		
502	GSDA	Velhe	Vihir		18.3242	73.6181		5.1	756.2			5	1.9		

S No	Well No.	Taluka	Village	Toposheet Quadrant	Topograph-ical Setting	Diameter (m)	Depth mbgl	Lining (m)	Elevation (m.amsl)	Use	Aquifer	Pre-monsoon DTW (mbgl)	Post-monsoon DTW (mbgl)	Fluctuation (m)	EC (µS/cm)	Temp. (°C)
1	CGWB	INDAPUR	Awasari	47N4-3A	Plain	6	10	_	498.6	irrigation	W. Basalt, Fr. Basalt	9.4	3.3	6.1	912	27.5
2	CGWB	INDAPUR	Bhodani	47K13-1C	Plain	10x10	18	2	503	irrigation	W. Basalt, Fr. Basalt	9.9	3.1	6.8	572	27.6
3	CGWB	INDAPUR	Bijwadi	47J16-2C	Plain, undulating	9.2x12.3	11	2	511.7	irrigation	Fr. Basalt	10	4.3	5.7	1316	30.6
4	CGWB	INDAPUR	Bori	47J16-2A	Plain	8	18	3	567.4	Drinking, irrigation	W. Basalt, Fr. Basalt	15	3.6	11.4	173	29.1
5	CGWB	INDAPUR	Gal& Wadi No.1	47N4-2A	Plain, undulating	3.5	8	3.7	531.4	Domestic, drinking	W. Basalt, Fr. Basalt	3.7	3	0.7	2475	27.5
6	CGWB	INDAPUR	Gal& Wadi No.2	47N4-3A	Plain, undulating	8.5	13	6.8	525.9	Domestic	W. Basalt, Fr. Basalt	8.8	5.3	3.5	464	26.9
7	CGWB	INDAPUR	Giravi	47O1-1B	Plain	9	10	2.5	487.7	irrigation	W. Basalt,	9	5.32	3.68	1048	27.6

S No	Well No.	Taluka	Village	Toposheet Quadrant	Topograph-ical Setting	Diameter (m)	Depth mbgl	Lining (m)	Elevation (m.amsl)	Use	Aquifer	Pre-monsoon DTW (mbgl)	Post-monsoon DTW (mbgl)	Fluctuation (m)	EC (µS/cm)	Temp. (°C)
											Fr. Basalt					
8	CGWB	INDAPUR	Got&i	47J16-3B	Plain	9	30	2	534.7	irrigation	Fr. Basalt	15	6.9	8.1	535	27.6
9	CGWB	INDAPUR	Indapur Rural	47N4-2A	Plain	6	10	_	522.4	irrigation	Fr. Basalt	9.3	4.8	4.5	938	29.3
10	CGWB	INDAPUR	Jankshan (nv)	47J16-2A	Plain	6	10	_	541.1	irrigation	W. Basalt, Fr. Basalt	5.1	3.8	1.3	1490	27.3
11	CGWB	INDAPUR	Kalewadi	47J16-1B	Plain, undulating	10	14	1	503	Domestic, drinking	Vesicular & W. Basalt, Fr. Basalt	10.9	1.2	9.7	1388	32.1
12	CGWB	INDAPUR	Kardanwadi	47J12-2C	Plain	9	14.5	1.8	529.4	irrigation	Fr. Basalt	14	13	1	1343	29.4
13	CGWB	INDAPUR	Kazad	47J12-1C	Plain	6	12	3	568.3	irrigation	Vesicular Basalt, W. Basalt	11	9.3	1.7	1773	29.8
14	CGWB	INDAPUR	Lumewadi	47O1-1A	Plain, undulating	10.5	9.5	3	496	irrigation	W. Basalt, Fr. Basalt	8.6	4.1	4.5	1804	27.8

S No	Well No.	Taluka	Village	Toposheet Quadrant	Topograph-ical Setting	Diameter (m)	Depth mbgl	Lining (m)	Elevation (m.amsl)	Use	Aquifer	Pre-monsoon DTW (mbgl)	Post-monsoon DTW (mbgl)	Fluctuation (m)	EC (µS/cm)	Temp. (°C)
15	CGWB	INDAPUR	Nimbodi	47J12-2C	Plain	3.2	11	7	550.2	Rope &bucket	W. Basalt, Fr. Basalt	10	7.53	2.47	686	29.6
16	CGWB	INDAPUR	Nirgude	47J12-1C	Plain, undulating	10	15.8	1	556.5	irrigation	W. Basalt, Fr. Basalt	14.9	13.2	1.7	478	29.2
17	CGWB	INDAPUR	Nirnimgaon	47K13-1C	Plain	6	15	_	497.4	irrigation	W. Basalt, Fr. Basalt	13	10.1	2.9	1664	31.2
18	CGWB	INDAPUR	Nirwangi	47J16-3B	Plain	8.5	27	2.6	497.9	irrigation	W. Basalt, Fr. Basalt	15	9.7	5.3	4707	28.2
19	CGWB	INDAPUR	Palasdeo	47J16-1B	plain	7.3	10.5	4.3	506.6	irrigation	W. Basalt, Fr. Basalt	5.2	4.1	1.1	1966	30
20	CGWB	INDAPUR	Pilewadi	47J16-1A	Plain, undulating	6	11	1	556.8	irrigation	Vesicular Basalt, W. Basalt	9.8	3.25	6.55	1345	28.4

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21	CGWB	INDAPUR	Pimpale	47J11-3C	Plain, undulating	10.5	15	3	522.4	Domestic, drinking	Fr. Basalt	15	10.5	4.5	1495	32.4
22	CGWB	INDAPUR	Ranmodwadi	47J16-3A	Plain, undulating	4.4	7	1.7	508.3	Domestic	Fr. Basalt	5.5	3.9	1.6	2789	28.5
23	CGWB	INDAPUR	Reda	47J16-3B	Plain	8.5	10	2	512.2	irrigation	Fr. Basalt	6	4.8	1.2	3248	28.6
24	CGWB	INDAPUR	Redani	47K13-1B	Plain, undulating	7.8	15	4	496.4	Domestic	Fr. Basalt	14	3.6	10.4	2265	27.5
25	CGWB	INDAPUR	Shaha	47N4-2B	Plain	6	10	2	514.2	irrigation	Fr. Basalt	9.9	7.53	2.37	1276	30.3
26	CGWB	INDAPUR	Shirsadi	47N4-1A	Plain	13.2	13	2	521.2	irrigation	W. Basalt, Fr. Basalt	6.9	4.65	2.25	1054	24.5
27	CGWB	INDAPUR	Sugaon	47N4-2A	Plain	3	10.5	_	504.1	Drinking, irrigation	W. Basalt, Fr. Basalt	10	8.65	1.35	655	29.5
28	CGWB	INDAPUR	Udhat	47J12-3C	Plain	8	10.5	3.2	523.6	irrigation	W. Basalt, Fr. Basalt	5.7	1.8	3.9	3025	29.5

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29	CGWB	INDAPUR	Varkute Bk.	47J16-1C	Plain	8.5	9	5	514.6	Domestic	W. Basalt, Fr. Basalt	6.5	3.65	2.85	3671	31
30	CGWB	AMBEGAON	Ahupe	47E12-2A	Hilly	14	8.5	4	996.7	Drinking - Washing		8.3	7.85	0.45	180	28
31	CGWB	AMBEGAON	Dimbhe Kh.	47E12-2B	Hilly	5	8	2	1004.1	Irrigation		8	6.3	1.7	180	30
32	CGWB	AMBEGAON	Gangapur Kh.	47E16-2A	Hilly	4	12	4	726.3	Irrigation		11	8.53	2.47	560	30
33	CGWB	AMBEGAON	Ghodegaon	47E16-3B	Undulating	4	10	6	677.4	Drinking - Washing		6.1	5.32	0.78	810	31
34	CGWB	AMBEGAON	Kadewadi	47E16-2B	Undulating	8	10	4	699.5	Irrigation		9	6.55	2.45	186	29
35	CGWB	AMBEGAON	Nagapur	47I4-3A	plines	3.5	12	5	616.2	Irrigation		8	5.98	2.02	1520	30
36	CGWB	AMBEGAON	Narodi	47E16-3B	Undulating				658.4			15	5.2	9.8		
37	CGWB	AMBEGAON	Nigdale (Mhatarbawadi)	47E12-3A	Hilly	5.5	9.5	2.5	949.7	Drinking - Washing		9	3.62	5.38	135	29
38	CGWB	AMBEGAON	Pahaddara	47J1-1B	Hilly	6.5	11	4	684.4	Irrigation		10	4.5	5.5	690	29
39	CGWB	AMBEGAON	Panchale Kh.	47E12-2C	Hilly	4.5	9	3	702.9	Drinking - Washing		9	7.85	1.15	280	29

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			(Panchale Bk)													
40	CGWB	AMBEGAON	Pargaon Tarf Khed	47F13-1C	Undulating	5*9	21	7	768.7	Drinking - Washing		20	15	5	560	29
41	CGWB	AMBEGAON	Pimpalgaon Tarf Ghoda	47E16-3A	Hilly	3.4	10	4	704.4	Drinking - Washing		6	5.6	0.4	510	30
42	CGWB	AMBEGAON	Shingave	47I4-3B	Undulating	4	22	2.5	630.7	Irrigation		19	10.23	8.77	1310	29
43	CGWB	AMBEGAON	Shirdade Wadi	47J1-2A	Undulating	6	11.5	1	697.8	Drinking - Washing		11	10.2	0.8	380	29
44	CGWB	AMBEGAON	Tambdemala	47F13-1C	Undulating	5.8	11	2	689.2	Irrigation		9.9	9.6	0.3	1020	29
45	CGWB	AMBEGAON	Thor&ale	47I4-3A	plines	3.5	13	4.5	651.2	Irrigation		13	6.2	6.8	1200	30
46	CGWB	AMBEGAON	Tirpad	47E12-2B	Hilly	8	8.9	4.5	1078.9	Drinking - Washing		8.5	8.1	0.4	180	28
47	CGWB	AMBEGAON	Vadgaon Pir	47J1-2B	Undulating	6.2	16	9	668.2	Drinking - Washing		15	13.2	1.8	480	30
48	CGWB	JUNNAR	Aldare	47E16-1B	plains	4.5	12	4	685.7	Drinking - Washing		9	4.1	4.9	810	30
49	CGWB	JUNNAR	Ambe Gavhan	47E15-3C	Hilly	7.5	19	13	685.9	Drinking - Washing		18	13.2	4.8	1550	31
50	CGWB	JUNNAR	Bhorwadi	47I4-2A	plains	3.5	10	4	655.2	Drinking - Washing		9	8.6	0.4	790	30
51	CGWB	JUNNAR	Chincholi	47E16-2B	Hilly	6	21	2	733.1	Irrigation		19	18.7	0.3	510	31

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52	CGWB	JUNNAR	Devale	47E11-3C	Hilly	4	8	5	720.4	Drinking - Washing		7	5.9	1.1	310	31
53	CGWB	JUNNAR	Dingore	47E15-3C	Undulating	5.5	26	9	663.9	Irrigation		21	19.8	1.2	1320	30
54	CGWB	JUNNAR	Hivare Kh	47E16-1C	plains	7	24	2.5	642.9	Irrigation		16	7.1	8.9	720	31
55	CGWB	JUNNAR	Ingaloon	47E12-1C	Hilly	6	10		809.5	Drinking - Washing		9.1	4.1	5	350	31
56	CGWB	JUNNAR	Khireshwar	47E15-2A	plains	8	18	3.4	687.9	Irrigation		16	12.65	3.35	340	30
57	CGWB	JUNNAR	Kolwadi	47E15-3B	Undulating	5	12	4	667.9	Irrigation		11	6.9	4.1	510	31
58	CGWB	JUNNAR	Manjarwadi	47I4-3A	plains	3	21	8	653.9	Irrigation		17	12.65	4.35	1480	30
59	CGWB	JUNNAR	Ozar	47E16-1C	plains	7	9.5	2	648.5	Irrigation		6.1	3.8	2.3	920	31
60	CGWB	JUNNAR	Pargaon Tarf Ale	47I4-3B	plains	6	14	4	609.2	Irrigation		6.9	4.9	2	910	31
61	CGWB	JUNNAR	Pemdara	47I8-1A	Undulating	3.2	8	3	774.6	Drinking - Washing		6.1	5.1	1	590	31
62	CGWB	JUNNAR	Pimpri Pendhar	47I4-1A	plains	4	18	4	674	Irrigation		15	8.4	6.6	740	30
63	CGWB	JUNNAR	Rajuri	47I4-2B	plains	4	12	4	665.2	Irrigation		12	9.1	2.9	710	29
64	CGWB	JUNNAR	Ralegan	47E16-1A	Hilly	6	10	8	756.7	Irrigation		9	6.3	2.7	360	31
65	CGWB	JUNNAR	Sanganore	47E15-2B	Undulating	6.5	12	4	689.9	Irrigation		11	6.3	4.7	240	29
66	CGWB	JUNNAR	Santwadi	47I4-1B	Undulating	3.45	10	5	715.5	Irrigation		9	8.8	0.2	670	29
67	CGWB	JUNNAR	Sawargaon	47E16-2B	Undulating	5	16	5.5	695.5	Irrigation		15	10.3	4.7	1310	30

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68	CGWB	JUNNAR	Sawargaon	47E16-2C	plains	5	14	6	682.3	Irrigation		8.9	6.52	2.38	1230	31
69	CGWB	JUNNAR	Tambewadi	47I4-2B	Undulating	5.5	9.8	4	635.2	Irrigation		9.8	9.3	0.5	540	29
70	CGWB	JUNNAR	Yenere	47E16-1A	Hilly	6	18	12	733.3	Irrigation		16	8.9	7.1	1080	31
71	CGWB	Baramati	Bajrangwadi	47J8		10.5	10.2	2.5 m (rings)	544	Drinking Water supply		7.55	3.42	4.13	1958	28.8
72	CGWB	Baramati	Bhondvewadi	47J7		5.5	14.6	4 m (rings)	628	Irrigation		11.78	2.27	9.51	2315	29.5
73	CGWB	Baramati	Chaudhar Wadi	47J8		7	15	5 m	554	Irrigation		12.45	1.95	10.5	749	29.2
74	CGWB	Baramati	Dhumalwadi						539			10.4	8.33	2.07		
75	CGWB	Baramati	Dorlewadi						527			5	4.26	0.74		
76	CGWB	Baramati	Gojubavi	47J12		5.2	9	3.5 m	576	Irrigation		7.9	3.05	4.85	1232	30.5
77	CGWB	Baramati	Jalgaon Supe	47J8		8	13	4.5 m (rings)	576	Irrigation		12.2	10.7	1.5	1751	30.3
78	CGWB	Baramati	Jogwadi	47J8		4.6	11	7 m	641	Drinking water supply		11	1.81	9.19	935	28.6
79	CGWB	Baramati	Kamatwadi-Walha						632			12	10.6	1.4		
80	CGWB	Baramati	Karanje						566			6.1	1.92	4.18		
81	CGWB	Baramati	Karanjepul	47J8		10.5	10	2.5 m	559	Drinking water supply		5.55	0.7	4.85	940	28.8

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82	CGWB	Baramati	Kololi	47J7		4.5	7.5	5.5 m	626	Drinking water supply		5.6	0.53	5.07	534	30.1
83	CGWB	Baramati	Loni Bhapkar	47J8		4.2	7	4.5 m	598	Domestic, not drinking		6.15	1.1	5.05	1706	30.2
84	CGWB	Baramati	Loni Bhapkar	47J8		7.2	8.9	4.5 m	595	Irrigation		9.7	1.16	8.54		
85	CGWB	Baramati	Medad	47J12		5	13	3 m	554	Irrigation		11.6	4.65	6.95	4368	26.8
86	CGWB	Baramati	Nimbodi	47J11		3.8	8.6	3.5 m (rings)	539	Drinking water supply		9.9	6.84	3.06	280	30.7
87	CGWB	Baramati	Nirvagaj	47J12		10.5	16.25	3 m (rings)	527	Irrigation		11.15	6.5	4.65	3571	28.3
88	CGWB	Baramati	Parwadi	47J11		10.5	7	4 m (rings)	537	Irrigation		6.7	5.2	1.5	462	33.1
89	CGWB	Baramati	Sangavi	47J8		3	4.45	to bottom	528	Domestic		3.11	1.7	1.41	146	30
90	CGWB	Baramati	Sonkaswadi	47J8		10.5	12	7.5 m	551	Drinking water supply		11	9.2	1.8	675	27.4
91	CGWB	Baramati	Undavri Kade Pathar						580			8.77	6.75	2.02		
92	CGWB	Baramati	Vadgaon Nimbalkar	47J8		10.5	11	3.6 m	552	Drinking water supply		7.65	3.4	4.25	1024	26.3

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93	CGWB	Purandhar	Ambale	47J3		6.8 m X 5 m	13	5 m	728	Not in use		11.15	9.5	1.65	1981	29
94	CGWB	Purandhar	Askarwadi	47F15		7.2	15.6	3 m	927	Irrigation		9.3	1.6	7.7	580	27.8
95	CGWB	Purandhar	Bhosalewadi	47J3		6.8	11	5 m	705	Drinking water supply		5.65	2.22	3.43	863	30.4
96	CGWB	Purandhar	Daundaj	47J4		7	14.5	11 m	656	Drinking water supply		10.1	6.6	3.5	1069	29.2
97	CGWB	Purandhar	Dive	47J3		6.75	13.5	9.25 m	800	Domestic, not drinking		8.83	4.9	3.93	1317	28.6
98	CGWB	Purandhar	Hivare	47F15		8.5	16.8	7.7 m & 10.5 m (rings)	799	Drinking water supply		13.85	7.05	6.8	1069	26.9
99	CGWB	Purandhar	Jawalarjun	47J7		3.5	11	5.3 m	643	Irrigation		8.6	7.9	0.7	6459	27.9
100	CGWB	Purandhar	Jejuri						722			6.9	5.8	1.1		
101	CGWB	Purandhar	Kaldari	47F15		8	12	5 m (rings)	795	Drinking water supply		10.1	1.22	8.88	355	30.2
102	CGWB	Purandhar	Narayanpur						885			8.7	1	7.7		
103	CGWB	Purandhar	Pangre Sailar Basti						739			6.9	6	0.9		

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104	CGWB	Purandhar	Pimpale	47J3		7.5	14	4 m	789	Irrigation & domestic		12.6	10.65	1.95	844	32
105	CGWB	Purandhar	Pimpri (Kh) Malvasti						561			5.7	5.35	0.35		
106	CGWB	Purandhar	Pondhe	47J7		7.5	4.1	3.5 m	720	Irrigation & domestic		7.2	1.72	5.48	931	29.9
107	CGWB	Purandhar	Rajuri	47J7		6	12	7 m	682	Irrigation		10.75	5.28	5.47	1206	29.9
108	CGWB	Purandhar	Sakurde						764			6.3	1.75	4.55		
109	CGWB	Purandhar	Thapewadi	47F15		7	18	10 m (rings)	883	Irrigation		13.15	6.85	6.3	433	25.9
110	CGWB	Purandhar	Veer	47J4		6.75	20	11 m	594	Drinking water supply		15.1	5.99	9.11	1035	32
111	CGWB	Purandhar	Zendewadi						836			15	12	3		
112	CGWB	Purandhar	Gulunche	47J4					585.4			13	4	9		
113	GSDA	AMBEGAON	Bhagadi				10.25		629			6	4	2		
114	GSDA	AMBEGAON	Dhakale				14.6		876.2			7	1.9	5.1		
115	GSDA	AMBEGAON	Girawali				7.2		683.8			3.5	1	2.5		
116	GSDA	AMBEGAON	Gohe Kh.				12.2		728.1			8	1.1	6.9		

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117	GSDA	AMBEGAON	Kalamb				12.4		627.7			9.1	7.55	1.55		
118	GSDA	AMBEGAON	Kanase				13		664.3			5.9	2.4	3.5		
119	GSDA	AMBEGAON	Khadaki				13		616.9			7.7	2	5.7		
120	GSDA	AMBEGAON	Loni				10.25		665.7			3.4	1.2	2.2		
121	GSDA	AMBEGAON	Pimpalgaon Tarf Ghoda				10		664.3			9	1	8		
122	GSDA	AMBEGAON	Ranjani				10.95		626.7			4.4	3.4	1		
123	GSDA	AMBEGAON	Taleghar				9.45		1032.8			7	2	5		
124	GSDA	BHOR	Apati				5		782.1			4.3	0.8	3.5		
125	GSDA	BHOR	Bholavade				4.9		606.8			3.4	2	1.4		
126	GSDA	BHOR	Bhor				10.2		626.8			5.8	2	3.8		
127	GSDA	BHOR	Jayatpad				3.8		667			2.2	0.6	1.6		
128	GSDA	BHOR	Khulshi				5.7		685.9			4	1.4	2.6		
129	GSDA	BHOR	Nasrapur				8.45		654.8			5.6	1.5	4.1		
130	GSDA	BHOR	Venavadi				7.4		624.9			7	1	6		
131	GSDA	DAUND	Bh&gaon				9		575.5			7.2	2.55	4.65		
132	GSDA	DAUND	Gar				8		559.1			7.5	1.1	6.4		
133	GSDA	DAUND	Girim				7.15		600.8			4	2.6	1.4		
134	GSDA	DAUND	Kalewadi				13.95		513.9			8.3	2	6.3		
135	GSDA	DAUND	Kedgaon				7.4		582.3			6.2	2.6	3.6		

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136	GSDA	DAUND	Kurkumbh				5.85		610.5			3.6	1.7	1.9		
137	GSDA	DAUND	Pargaon				14.45		549.8			8.5	3.2	5.3		
138	GSDA	DAUND	Patas				10.25		549.8			8.7	6.3	2.4		
139	GSDA	DAUND	Patethan				14.3		545.4			8.9	5.5	3.4		
140	GSDA	DAUND	Rahu				15.8		524.3			10.4	5.5	4.9		
141	GSDA	DAUND	Ravangaon				13.1		604.9			7.3	2.4	4.9		
142	GSDA	DAUND	Sonawade				11.5		524			5.6	2.95	2.65		
143	GSDA	HAVELI	Al&i Mhatobachi				12.8		608			9.8	3.9	5.9		
144	GSDA	HAVELI	Arvi				14.6		946.7			10	1	9		
145	GSDA	HAVELI	Bhosari				15.25		592.3			7.7	1.1	6.6		
146	GSDA	HAVELI	Charholi Bk				10.1		578.3			6.2	1.5	4.7		
147	GSDA	HAVELI	Dhanori				9.4		588			3.6	1.1	2.5		
148	GSDA	HAVELI	Katraj				10.8		669.6			6.2	2.1	4.1		
149	GSDA	HAVELI	Koregaon Mul				10.65		528.3			6.5	1.55	4.95		
150	GSDA	HAVELI	Loni Kalbhor				16.55		545.3			10.1	4.3	5.8		
151	GSDA	HAVELI	Loni-K&				10.65		571.6			9.6	3.2	6.4		
152	GSDA	HAVELI	Moshi				13.5		574.7			4.4	3.4	1		
153	GSDA	HAVELI	Pimpri S&as				9.1		546.2			6.65	3.5	3.15		
154	GSDA	HAVELI	Sangarun				9.55		619			4.5	2	2.5		
155	GSDA	HAVELI	Shiraswadi				9		562.6			9	2.3	6.7		
156	GSDA	HAVELI	Sonapur				10.7		595.2			4.78	2.9	1.88		

S No	Well No.	Taluka	Village	Toposheet Quadrant	Topograph-ical Setting	Diameter (m)	Depth mbgl	Lining (m)	Elevation (m.amsl)	Use	Aquifer	Pre-monsoon DTW (mbgl)	Post-monsoon DTW (mbgl)	Fluctuation (m)	EC (µS/cm)	Temp. (°C)
157	GSDA	HAVELI	Uruli Dewachi				11.1		647.7			9.7	5.5	4.2		
158	GSDA	HAVELI	Uruli Kanchan				15.1		552.7			12.7	5	7.7		
159	GSDA	HAVELI	Wadki				13.65		565			11.9	4.5	7.4		
160	GSDA	HAVELI	Wagholi				13.55		578.4			6.8	1.3	5.5		
161	GSDA	INDAPUR	Anthurne				11.5		524			8	4.3	3.7		
162	GSDA	INDAPUR	Bawada				11		481.4			8.4	6	2.4		
163	GSDA	INDAPUR	Bhadalwadi				10.9		514.9			4.6	1.8	2.8		
164	GSDA	INDAPUR	Bhigvan				12.1		503.4			11.6	1.6	10		
165	GSDA	INDAPUR	Gal& Wadi No.1				8.25		518.3			4	2	2		
166	GSDA	INDAPUR	Hingangaon				4.6		473			3.6	1.95	1.65		
167	GSDA	INDAPUR	Indapur				14		513.5			10	4	6		
168	GSDA	INDAPUR	Kalamb				15.8		513.1			9.8	1.8	8		
169	GSDA	INDAPUR	Kauthali				9.15		528.6			8.3	4	4.3		
170	GSDA	INDAPUR	Kazad				10		543.3			7.3	2.3	5		
171	GSDA	INDAPUR	Lamjewadi				12.6		593			12.5	1.1	11.4		
172	GSDA	INDAPUR	Loni				8.85		529.7			6.2	2.3	3.9		
173	GSDA	INDAPUR	Madanwadi				14.4		500.3			12.7	2.1	10.6		
174	GSDA	INDAPUR	Nimgaon Ketki				18.3		536.8			17.8	4.6	13.2		
175	GSDA	INDAPUR	Reda				8.9		503.7			7	4.7	2.3		
176	GSDA	INDAPUR	Rui				7.5		529.3			7	1.3	5.7		
177	GSDA	INDAPUR	Sarati				12.5		482.3			8	4.8	3.2		

S No	Well No.	Taluka	Village	Toposheet Quadrant	Topograph-ical Setting	Diameter (m)	Depth mbgl	Lining (m)	Elevation (m.amsl)	Use	Aquifer	Pre-monsoon DTW (mbgl)	Post-monsoon DTW (mbgl)	Fluctuation (m)	EC (µS/cm)	Temp. (°C)
178	GSDA	INDAPUR	Shetphalgadhe				12		543.7			6	2.4	3.6		
179	GSDA	INDAPUR	Tawashi				11.4		513.6			5.4	2.2	3.2		
180	GSDA	INDAPUR	Varkute Bk.				8.9		532			7.1	1.8	5.3		
181	GSDA	JUNNAR	Ale				13.65		673.1			8.6	4.8	3.8		
182	GSDA	JUNNAR	Aptale				18		810.2			11	3	8		
183	GSDA	JUNNAR	Belhe				16.3		656			14.2	4.7	9.5		
184	GSDA	JUNNAR	Bori Bk.				11		618.1			6.3	3.1	3.2		
185	GSDA	JUNNAR	Dholwad				20.9		649.9			18	8	10		
186	GSDA	JUNNAR	Dingore				15		669.1			13.5	6	7.5		
187	GSDA	JUNNAR	Gulanchwadi				13.5		723.8			8.6	3	5.6		
188	GSDA	JUNNAR	Hadsar				10.4		763.6			10.1	1.99	8.11		
189	GSDA	JUNNAR	Khanapur				14.8		706			7.2	1.5	5.7		
190	GSDA	JUNNAR	Mangrul				20.35		608.6			14	5	9		
191	GSDA	JUNNAR	Narayangaon				7.45		668.2			5.8	2.6	3.2		
192	GSDA	JUNNAR	Netwad				9.5		664.7			5.7	3.4	2.3		
193	GSDA	JUNNAR	Otur				24.6		672.8			17.8	12.4	5.4		
194	GSDA	JUNNAR	Padali				10.8		682.3			5.9	2.6	3.3		
195	GSDA	JUNNAR	Pimpalw&i				14.45		634.7			14	1.2	12.8		
196	GSDA	JUNNAR	Rohkadi				24.4		693.2			21.6	17.4	4.2		
197	GSDA	JUNNAR	Sitewadi				11		697			8	1.9	6.1		
198	GSDA	JUNNAR	Tambe				9.6		788.6			7.5	2.56	4.94		
199	GSDA	JUNNAR	Tejewadi				13.15		658.6			9.8	4.2	5.6		

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200	GSDA	JUNNAR	Yenere				12.2		732.5			8.6	3.8	4.8		
201	GSDA	KHED	Ambethan				9		658.4			7	0.65	6.35		
202	GSDA	KHED	Ambhu				13.5		789.5			12.8	3.8	9		
203	GSDA	KHED	Bahul				9.85		563.2			3.5	1.05	2.45		
204	GSDA	KHED	Bhorgiri				5.8		667.4			5.4	1	4.4		
205	GSDA	KHED	Chakan				11.85		621.2			5.5	0.6	4.9		
206	GSDA	KHED	Ch&us				11		645.2			5	1.2	3.8		
207	GSDA	KHED	Chas				16.75		624			14.85	11.4	3.45		
208	GSDA	KHED	Ghotavadi				10.55		809.7			9.3	0.9	8.4		
209	GSDA	KHED	Kadadhe				9.5		632.9			8.3	1.7	6.6		
210	GSDA	KHED	Kadus				9.6		645.2			5.8	3	2.8		
211	GSDA	KHED	Kuruli				10.3		606			6.6	2	4.6		
212	GSDA	KHED	Pait				9.5		707.2			6.4	1.2	5.2		
213	GSDA	KHED	Rajgurunagar (Khed)				11		586.2			8.15	1	7.15		
214	GSDA	KHED	Saburdi				6.5		673.1			4.5	1.3	3.2		
215	GSDA	KHED	Solu				13.5		569.3			9	2.56	6.44		
216	GSDA	KHED	Varude				8.7		689.8			8	2.2	5.8		
217	GSDA	KHED	Virham				14.5		709			13.85	1.9	11.95		
218	GSDA	KHED	Wasuli				7.1		662.7			4.4	1.4	3		
219	GSDA	MAWAL	Bhoyare				9		670.9			7	0.7	6.3		
220	GSDA	MAWAL	Brahmanoli				8.4		589.7			7	1.9	5.1		
221	GSDA	MAWAL	Ch&khed				8.3		601.4			4.3	1.9	2.4		
222	GSDA	MAWAL	Chikhalse				9.3		692.4			9	1.3	7.7		
223	GSDA	MAWAL	Induri				10.4		598.2			9	1.5	7.5		

S No	Well No.	Taluka	Village	Toposheet Quadrant	Topograph-ical Setting	Diameter (m)	Depth mbgl	Lining (m)	Elevation (m.amsl)	Use	Aquifer	Pre-monsoon DTW (mbgl)	Post-monsoon DTW (mbgl)	Fluctuation (m)	EC (µS/cm)	Temp. (°C)
224	GSDA	MAWAL	Jambhul				6.4		622.6			6	1.4	4.6		
225	GSDA	MAWAL	Kadadhe				4.8		589.7			4	0.9	3.1		
226	GSDA	MAWAL	Karla				9.6		624.1			3.6	1	2.6		
227	GSDA	MAWAL	Malawali P.M.				7.7		604.6			6.5	1	5.5		
228	GSDA	MAWAL	Nane				7.9		610.7			5	0.9	4.1		
229	GSDA	MAWAL	Somatane				8		600.6			4.5	1	3.5		
230	GSDA	MAWAL	Takave Bk.				8		665			7.5	1.8	5.7		
231	GSDA	MAWAL	Talegaon Dabhade				10.4		603.2			4	2	2		
232	GSDA	MAWAL	Thakursai				9.3		678.9			7	1.6	5.4		
233	GSDA	MAWAL	Thoran				5.3		974.9			4.7	0.8	3.9		
234	GSDA	MAWAL	Vadgaon Mawal				4.6		616			3.4	0.6	2.8		
235	GSDA	MULSHI	&gaon				7		648.8			3.5	1.09	2.41		
236	GSDA	MULSHI	Bhugaon				10.25		657.4			8.8	1	7.8		
237	GSDA	MULSHI	Ghotavade				5.8		570.3			5	1	4		
238	GSDA	MULSHI	Hinjavadi				10.5		573			9.1	1.3	7.8		
239	GSDA	MULSHI	Kemasewadi				9.55		688.3			8	1	7		
240	GSDA	MULSHI	Kondhawale				6.8		569			5.6	1.2	4.4		
241	GSDA	MULSHI	Nere				13		615.1			8	1	7		
242	GSDA	MULSHI	Paud				10.85		610.2			8.34	2.1	6.24		
243	GSDA	MULSHI	Sus				8.2		599.3			5.6	1.8	3.8		
244	GSDA	MULSHI	Tamhini Bk.				5.9		658.6			5.2	1	4.2		

S No	Well No.	Taluka	Village	Toposheet Quadrant	Topograph-ical Setting	Diameter (m)	Depth mbgl	Lining (m)	Elevation (m.amsl)	Use	Aquifer	Pre-monsoon DTW (mbgl)	Post-monsoon DTW (mbgl)	Fluctuation (m)	EC (µS/cm)	Temp. (°C)
245	GSDA	MULSHI	Viseghar				7.25		802.4			6.5	1.23	5.27		
246	GSDA	SHIRUR	&halgaon				7.85		536.8			7.8	3.6	4.2		
247	GSDA	SHIRUR	Chincholi				7.6		645.9			6	2.8	3.2		
248	GSDA	SHIRUR	Dhamari				14.15		642.4			13.5	2.4	11.1		
249	GSDA	SHIRUR	Fakate				8.5		597.7			4.5	2.2	2.3		
250	GSDA	SHIRUR	Gunat				13		576.4			12.2	2.9	9.3		
251	GSDA	SHIRUR	Jambut				13.2		600.3			10.8	1.1	9.7		
252	GSDA	SHIRUR	Kawathe				9.2		606.6			6.8	1.3	5.5		
253	GSDA	SHIRUR	Kendur				9		631			8.8	3.7	5.1		
254	GSDA	SHIRUR	Kondhapuri				18.9		594.4			18.5	6.1	12.4		
255	GSDA	SHIRUR	Malthan				11.3		594			11.3	2.6	8.7		
256	GSDA	SHIRUR	M&avgan Farata				15.6		516			13.2	1.3	11.9		
257	GSDA	SHIRUR	Mhase Bk.				8.9		564.7			6.2	1.2	5		
258	GSDA	SHIRUR	Nhavara				12.25		573.3			12.2	4.1	8.1		
259	GSDA	SHIRUR	Nimgaon Dude				12.1		582			10.7	2.5	8.2		
260	GSDA	SHIRUR	Pabal				13.7		672.7			12.1	1.9	10.2		
261	GSDA	SHIRUR	Pimpale Jagtap				6.55		589.1			5.2	2.4	2.8		
262	GSDA	SHIRUR	Pimparkhed				15.45		603.8			14.5	2.5	12		
263	GSDA	SHIRUR	Ranjangaon Ganpati				12.2		629.4			10.55	3.1	7.45		
264	GSDA	SHIRUR	Sanaswadi				13		573.7			7.3	6.1	1.2		
265	GSDA	SHIRUR	Saradwadi				6.3		588.7			6.2	3.1	3.1		

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266	GSDA	SHIRUR	Shikrapur				10.65		579			9.75	3.7	6.05		
267	GSDA	SHIRUR	Shirasgaon Kata				6.7		544.6			6	2	4		
268	GSDA	SHIRUR	Shirur				13.5		553.4			12.8	4.4	8.4		
269	GSDA	SHIRUR	T&ali				16.45		519.9			15.5	6.5	9		
270	GSDA	SHIRUR	Vadner Kh.				8.3		596			6.7	1.7	5		
271	GSDA	VELHE	Gunjavane				14.15		720.9			9	1.56	7.44		
272	GSDA	VELHE	Margasani				10		674.1			8.6	0.7	7.9		
273	GSDA	VELHE	Osade				5.8		638.1			5	0.8	4.2		
274	GSDA	VELHE	Panshet				4		592.8			2.1	0.6	1.5		
275	GSDA	VELHE	Velhe Bk.				6.1		717.5			6	0.9	5.1		
276	GSDA	VELHE	Vihir				5.1		756.2			5	1.9	3.1		
277	GSDA	Baramati	Baburdi				10.8		606.8			8.2	3.8	4.4		
278	GSDA	Baramati	Baramati Rural				11.6		554.1			11.6	3	8.6		
279	GSDA	Baramati	Ch&gude Wadi				90		630.4			11.1	9.9	1.2		
280	GSDA	Baramati	Ch&gude Wadi				31.6		627.6			11.4	7	4.4		
281	GSDA	Baramati	Dhakale				10		583			9	6.4	2.6		
282	GSDA	Baramati	Jalochi				30		550.6			9.3	7.4	1.9		
283	GSDA	Baramati	Karhati				60		589.8			9.8	6.15	3.65		
284	GSDA	Baramati	Korhale Kh				58		538.9			7.25	3.1	4.15		
285	GSDA	Baramati	Korhale Kh				90		538.9			9.15	4.15	5		
286	GSDA	Baramati	Kutwalwadi				92.1		634.4			5.15	4	1.15		

S No	Well No.	Taluka	Village	Toposheet Quadrant	Topograph-ical Setting	Diameter (m)	Depth mbgl	Lining (m)	Elevation (m.amsl)	Use	Aquifer	Pre-monsoon DTW (mbgl)	Post-monsoon DTW (mbgl)	Fluctuation (m)	EC (µS/cm)	Temp. (°C)
287	GSDA	Baramati	Loni Bhapkar				95		599.4			5.6	2.2	3.4		
288	GSDA	Baramati	Murti				16.3		604.2			6.7	5	1.7		
289	GSDA	Baramati	Nimbodi				30		521.2			8.95	5.2	3.75		
290	GSDA	Baramati	Sangavi				7.9		528.6			4.6	1.3	3.3		
291	GSDA	Baramati	Supe				30		630			6.25	3.25	3		
292	GSDA	Baramati	Vadgaon Nimbalkar				8.2		560.6			7	2.9	4.1		
293	GSDA	Baramati	Vadgaon Nimbalkar				68		550.5			6	5.1	0.9		
294	GSDA	Purandhar	Belsar				16.5		709			14.6	9.1	5.5		
295	GSDA	Purandhar	Chambhali				50		829			11.5	9	2.5		
296	GSDA	Purandhar	Dive				36.1		797			18	7.3	10.7		
297	GSDA	Purandhar	Gurholi				8.7		798.4			7.6	1.9	5.7		
298	GSDA	Purandhar	Harni				7.05		605.7			6.4	2.1	4.3		
299	GSDA	Purandhar	Jejuri				7		733.4			5.5	1.4	4.1		
300	GSDA	Purandhar	Khalad				30		726.1			25	13.75	11.25		
301	GSDA	Purandhar	Khanvadi				9.15		724.8			4.7	3.6	1.1		
302	GSDA	Purandhar	Malshiras				100		716.7			29.2	4	25.2		
303	GSDA	Purandhar	Mawadikade Pathar				34		649.8			11.6	5.5	6.1		
304	GSDA	Purandhar	Mawadikade Pathar				14.85		659			7.2	5.6	1.6		
305	GSDA	Purandhar	Pargaon				97		734.8			26.8	6	20.8		
306	GSDA	Purandhar	Pargaon				35		734.8			30.35	25.2	5.15		
307	GSDA	Purandhar	Parinche				11.85		639.2			9.7	7.7	2		

S No	Well No.	Taluka	Village	Toposheet Quadrant	Topograph-ical Setting	Diameter (m)	Depth mbgl	Lining (m)	Elevation (m.amsl)	Use	Aquifer	Pre-monsoon DTW (mbgl)	Post-monsoon DTW (mbgl)	Fluctuation (m)	EC (µS/cm)	Temp. (°C)
308	GSDA	Purandhar	Pingori				9.4		743.6			7.5	3.2	4.3		
309	GSDA	Purandhar	Pondhe				90		720.5			4.9	3.5	1.4		
310	GSDA	Purandhar	Rise				60		668.6			9.15	7.85	1.3		
311	GSDA	Purandhar	Sakurde				10.7		771.2			6.9	1.4	5.5		
312	GSDA	Purandhar	Saswad Rural				30		767.1			5.1	3.5	1.6		
313	GSDA	Purandhar	Walhe				9		630.8			7.3	3	4.3		
314	GSDA	Purandhar	Walhe				30		627.5			12.5	6.4	6.1		

Annexure-IV Details of micro-level wells, Pune district

Sl. No.	Village	Tehsil	Long_deci	Lat_deci	Eleva-tion (amsl)	Geology	Well. Depth (mbgl)	D.T.W. (Mbgl)	EC (µs/cm)	Thick-ness weath-ered portion (m)	Thick-ness of fractur e zone (m)	Annual pumpin g hours.	HP of Pum p	Rate of disc-harge (m^3/hr)	Kharif draft (m^3)	Rabi Draft (m^3)	Summe r Draft (m^3)	Annual Draft m^3/year
1	Ambi Kh	BARAMATI	74.30915	18.32336667	645	Deccan Trap	12.7	8.5	832	6	3	625	3	9	3375	2250	0	5625
2	Bhondvewadi	BARAMATI	74.34056667	18.32098333	633	Deccan Trap	13	12.5		3	4	890	3	10.8	972	8640	0	9612
3	Dandwadi	BARAMATI	74.43413333	18.32551667	634	Deccan Trap	11.8	11.6	1266	1.5	2	555	5	14.4	5400	2592	0	7992
4	Dandwadi	BARAMATI	74.47853333	18.1038	543	Deccan Trap	13.3	7	1473	2	4	715	3	10.8	432	6480	810	7722
5	Deulgaon Rasal	BARAMATI	74.46558333	18.30456667	619	Deccan Trap	11.2	11	697	7	3	900	5	16.2	2916	11664	0	14580
6	Dorlewadi	BARAMATI	74.60758333	18.09523333	528	Deccan Trap	7	5.8		4	0	850.00	3	9	360	6480	810	7650
7	Gojubavi	BARAMATI	74.57106667	18.23151667	577	Deccan Trap	8.6	8	1703	5	1	560	3	9	1800	3240	0	5040
8	Jalgaon KP	BARAMATI	74.47658333	18.21868333	567	Deccan Trap	12.5	10.9	8929	6	0	205	3	7.2	1152	324	0	1476
9	Jalochi	BARAMATI	74.5969	18.1631		Deccan Trap	9	6.8		7	0	6172	3	10.8	1728	64929.6	0	66657.6
10	Jogwadi	BARAMATI	74.2621	18.2545		Deccan Trap	18	16		18	0	225	5	12.6	1134	1701	0	2835
11	Karanjepul	BARAMATI	74.28716667	18.11805	555	Deccan Trap	10	4.7	803	10		1760	5	14.4	0	13824	11520	25344

Sl. No.	Village	Tehsil	Long_deci	Lat_deci	Eleva-tion (amsl)	Geology	Well. Depth (mbgl)	D.T.W. (Mbgl)	EC (µs/ cm)	Thick-ness weath-ered portio n (m)	Thick-ness of fractur e zone (m)	Annual pumpin g hours.	HP of Pum p	Rate of disc-harge (m^3/h r)	Kharif draft (m^3)	Rabi Draft (m^3)	Summe r Draft (m^3)	Annual Draft m^3/year
12	Karkhel	BARAMATI	74.49846667	18.29046667	595	Deccan Trap	7.3	7	697	3	0	420	3	9	2160	1620	0	3780
13	Katewadi (Kanheri)	BARAMATI	74.65543333	18.13346667	540	Deccan Trap	6	4.4		6		915	5	19.8	891	14256	2970	18117
14	Katphal	BARAMATI	74.61025	18.23536667	586	Deccan Trap	9.3	7.8	1200	2	2	960	3	9	2160	6480	0	8640
15	Kharade Wadi	BARAMATI	74.51598333	18.31116667	607	Deccan Trap	8	4.3	1012	4	1	330	3	9	810	2160	0	2970
16	Kololi	BARAMATI	74.44513333	18.30401667	634	Deccan Trap	6.5	5.4	625	3.5	0	1020	5	16.2	7776	8748	0	16524
17	Loni Bhapkar	BARAMATI	74.3704	18.2269		Deccan Trap	15	14		6		350	5	16.2	3240	2430	0	5670
18	Malegaon Bk	BARAMATI	74.50116667	18.10301667	541	Deccan Trap	8.9	dry		3.6	2.2	840	3	18	0	8640	6480	15120
19	Medad	BARAMATI	74.53906667	18.17553333	554	Deccan Trap	13	11.2	4368	3	3	420	5	18	1080	2880	3600	7560
20	Mekhali	BARAMATI	74.60235	18.094	527	Deccan Trap	7	4.4	2365	6	1	1470	5	9	3600	7200	2430	13230
21	Modhave (Umbarwada/ Murti))	BARAMATI	74.26993333	18.18786667	605	Deccan Trap	10	7.2	1461	7	2	350	5	23.4	3510	4680	0	8190
22	Nimbut	BARAMATI	74.2405	18.11066667	551	Deccan Trap	8	6.4	1412	8	0	920	3	10.8	1296	6480	2160	9936

Sl. No.	Village	Tehsil	Long_deci	Lat_deci	Eleva-tion (amsl)	Geology	Well. Depth (mbgl)	D.T.W. (Mbgl)	EC (µs/cm)	Thick-ness weath-ered portion (m)	Thick-ness of fractur e zone (m)	Annual pumpin g hours.	HP of Pum p	Rate of disc-harge (m^3/hr)	Kharif draft (m^3)	Rabi Draft (m^3)	Summe r Draft (m^3)	Annual Draft m^3/year
23	Nirvagaj	BARAMATI	74.55206667	18.07296667	516	Alluvium	6	0.5	5556			1840	3	12.6	3024	10080	10080	23184
24	Pardhare	BARAMATI	74.4785	18.13821667	549	Deccan Trap	10.5	6.2	887	7	1.5	1200	3	10.8	1728	8640	2592	12960
25	Parwadi	BARAMATI	74.63275	18.29396667	557	Deccan Trap	9	4.5	1251	6	1	1040	3	12.6	3402	9072	630	13104
26	Pimpali	BARAMATI	74.62373333	18.13061667	541	Deccan Trap	16	2.5	861	6		100	17	64.8	0	38880	51840	6480
27	Sangvi	BARAMATI	74.46703333	18.06745	540	Deccan Trap	6.1	5.9	2228	5	0	170	3	9	180	1080	270	1530
28	Shirsuphal	BARAMATI	74.58528333	18.30931667	570	Deccan Trap	9	6.8	704	8	0	540	3	7.2	1728	2160	0	3888
29	Vadgaon Nimbalkar	BARAMATI	74.3672	18.12825	552	Deccan Trap	15	3.6	1191	4	6	1616	5	16.2	4147	15552	6480	26179.2
30	Vadhane	BARAMATI	74.3518	18.35455	655	Deccan Trap	13.5	dry		2	4	550	3	9	2250	2700	0	4950
31	Zaragadwadi	BARAMATI	74.61698333	18.09751667	533	Deccan Trap	17	14.8		6	1.5	475	5	14.4	648	5760	432	6840
32	Bopgaon	PURANDHAR	73.9533	18.40166667	862	Deccan Trap	12.8	11.8	677	3	3	320	3	12.6	2520	1512	0	4032
33	Devadi	PURANDHAR	73.93683333	18.28131667	725	Deccan Trap	15	14.6	863	6	5	560	7.5	36	7200	12960	0	20160
34	Dhalewadi	PURANDHA	74.159283	18.302233	689	Deccan	10			6	1	248	5	12.6	1613	1512	0	3124.8

Sl. No.	Village	Tehsil	Long_deci	Lat_deci	Eleva-tion (amsl)	Geology	Well. Depth (mbgl)	D.T.W. (Mbgl)	EC (µs/cm)	Thick-ness weath-ered portion (m)	Thick-ness of fractur e zone (m)	Annual pumpin g hours.	HP of Pum p	Rate of disc-harge (m^3/hr)	Kharif draft (m^3)	Rabi Draft (m^3)	Summe r Draft (m^3)	Annual Draft m^3/year
		R	33	33		Trap												
35	Dive	PURANDHAR	74.0228	18.40198333	820	Deccan Trap	17	16.7	950	6	2	810	3	12.6	1134	9072	0	10206
36	Garade	PURANDHAR	73.92423333	18.36595	885	Deccan Trap	15.8	15.7	390	5	2	232	5	14.4	1037	2304	0	3340.8
37	Gulunche	PURANDHAR	74.22563333	18.14086667	567	Deccan Trap	11	9.1	1.24	4	1	360	3	9	540	2700	0	3240
38	Karnalwadi	PURANDHAR	74.16666667	18.16353333	600	Deccan Trap	23	15.1	1428	8	2	600	5	18	7200	3600	0	10800
39	Khanvadi	PURANDHAR	74.10485	18.3288	721	Deccan Trap	18	17.5	1177	3	2	100	3	9	90	810	0	900
40	Kodit Bk.	PURANDHAR	73.97443333	18.34298333	803	Deccan Trap	12.5	11	684	11	1	490	5	12.6	504	5670	0	6174
41	Kumbharvalan	PURANDHAR	74.06603333	18.376	769	Deccan Trap	14	5.9	900	7	1	500	5	12.6	252	6048	0	6300
42	Malshiras	PURANDHAR	74.23066667	18.40983333	720	Deccan Trap	8	4	1067	2	2.5	700	3	12.6	2520	6300	0	8820
43	Mandaki	PURANDHAR	74.12888333	18.1447	577	Deccan Trap	10	3.9	920	5	2	1296	5	25.2	2419	20160	10080	32659.2
44	Mandhar	PURANDHAR	74.02433333	18.20033333	692	Deccan Trap	10.5	8.5	472	6	2	400	3	12.6	504	4536	0	5040
45	Nawalewadi	PURANDHAR	74.08265	18.17895	627	Deccan Trap	15.5	5.2	1081	3	3	165	5	21.6	972	2592	0	3564

Sl. No.	Village	Tehsil	Long_deci	Lat_deci	Eleva-tion (amsl)	Geology	Well. Depth (mbgl)	D.T.W. (Mbgl)	EC (µs/cm)	Thick-ness weath-ered portion (m)	Thick-ness of fractur e zone (m)	Annual pumpin g hours.	HP of Pum p	Rate of disc-harge (m^3/hr)	Kharif draft (m^3)	Rabi Draft (m^3)	Summe r Draft (m^3)	Annual Draft m^3/year
46	Nazare Supe	PURANDHAR	74.20508333	18.30441667	663	Deccan Trap	6	5.5		5.5	0.5	207	3	9	1215	540	108	1863
47	Pandeshwar	PURANDHAR	74.26298333	18.32325	648	Deccan Trap	9	3.8	1855	1	1	628	5	16.2	2074	8100	0	10173.6
48	Pangare	PURANDHAR	74.06523333	18.2707	739	Deccan Trap	9	8.5	803	4	3	400	3	12.6	504	4536	0	5040
49	Parinche	PURANDHAR	74.08385	18.21223333	657	Deccan Trap	11.5	7.9	620	8	2	100	3	7.2	115.2	1080	1440	720
50	Pimpale	PURANDHAR	74.03673333	18.31225	791	Deccan Trap	13	11.5		3	2.5	150	3	7.2	216	864	0	1080
51	Pimpre Kh.	PURANDHAR	74.203	18.11443333	586	Deccan Trap	8.5	4.5	1491	3	0	325	3	10.8	1350	2160	0	3510
52	Pimpri	PURANDHAR	74.21768333	18.32766667	662	Deccan Trap	16	15.5		5	1	120	0.5	0.9	27	54	27	108
53	Pingori	PURANDHAR	74.12401667	18.22155	680	Deccan Trap	11	9.1	726	6	0	770	7.5	18	2160	10800	900	13860
54	Pisurti	PURANDHAR	74.16121667	18.13633333	571	Deccan Trap	10.5	8.5	3530	5	0	380	5	14.4	4608	864	0	5472
55	Pondhe	PURANDHAR	74.27116667	18.41055	718	Deccan Trap	5	3.6	750	3	2	360	3.5	18	720	2880	2880	6480
56	Rakh	PURANDHAR	74.23653333	18.19335	612	Deccan Trap	15.9	14.5	520	8.8	2	140	5	14.4	576	1440	0	2016
57	Rise	PURANDHA	74.29385	18.3555	665	Deccan	18	14.6	1057	5	5	65	6.5	27	1080	675	0	1755

Sl. No.	Village	Tehsil	Long_deci	Lat_deci	Eleva-tion (amsl)	Geology	Well. Depth (mbgl)	D.T.W. (Mbgl)	EC (µs/cm)	Thick-ness weath-ered portion (m)	Thick-ness of fractur e zone (m)	Annual pumpin g hours.	HP of Pum p	Rate of disc-harge (m^3/hr)	Kharif draft (m^3)	Rabi Draft (m^3)	Summe r Draft (m^3)	Annual Draft m^3/year
		R				Trap												
58	Somurdi	PURANDHAR	73.93978333	18.3185	878	Deccan Trap	5.5	4.4	620	1.5	1.3	110	5	21.6	1080	1296	0	2376
59	Tekavadi	PURANDHAR	74.20298333	18.42033333	729	Deccan Trap	10	dry		3	0.5	325	3	12.6	0	4095	0	4095
60	Udachiwadi	PURANDHAR	74.0505	18.37001667	779	Deccan Trap	20	8.7	804	16	0	640	3	9	360	5400	0	5760
61	Veer	PURANDHAR	74.10526667	18.15466667	593	Deccan Trap	16	4.6	766	4	3	890	5	23.4	1170	14040	5616	20826
62	Wagdarwadi	PURANDHAR	74.1978	18.21146667	652	Deccan Trap	20	Dry		10	2	0	3	0	0	0	0	0

Annexure-V: Chemical analysis of ground water samples, Shallow aquifers

S. No.	Agency	Taluka	Location	pH	EC	Hardness	TDS	Na	K	Ca	Mg	CO_3	HCO_3	Cl	NO_3	SO_4	F	Fe	SAR	RSC
					µS/cm	mg/l														
1	NHS2016	Ambegaon	Loni (Ambegaon)		935	310	495	78.3	0.29	52.104	43.7	18.0	219.6	155.98	54	55	0.42	0.0	1.93	-2.05
2	NHS2016	Ambegaon	Pabal New		1158	360	617	90.1	1.57	66.132	47.4	0.0	311.1	184.34	91	8	0.53	0.0	2.06	-2.16
3	KOW2017	Ambegaon	Ahupe	8	201	79.7		3.2	1.7	59.8	4.8	0.0	70.8	20.6	0	6	0.43	0.0	0.11	-2.23
4	KOW2017	Ambegaon	Gangapur kh.	7.8	536	249		10.0	0.6	139.4	26.6	0.0	209.8	28.3	20	15	0.21	0.0	0.20	-5.75
5	KOW2017	Ambegaon	Ghodegaon	8.2	981	378.5		16.4	1	254	30.3	0.0	329.4	66.8	44	34	0.18	0.0	0.26	-9.83
6	KOW2017	Ambegaon	kadewadi	8	209	104.6		4.5	0.7	59.8	10.9	0.0	85.4	12.9	0	6	0.09	0.0	0.14	-2.50
7	KOW2017	Ambegaon	Nigdale	7.5	138	54.8		3.3	1.2	39.8	3.6	0.0	34.2	12.9	0	15	0.03	0.0	0.13	-1.73
8	KOW2017	Ambegaon	Panchale kh.	8.1	370	179.3		6.2	1.3	84.7	23.0	0.0	158.6	18	30	5	0.11	0.0	0.15	-3.55
9	KOW2017	Ambegaon	Shingave	7.9	1510	508		33.7	0.7	234.1	66.6	0.0	170.8	177.3	90	86	0.24	0.0	0.50	-14.46
10	GSDA	Ambegaon	Kalamb	8.1	2630	800	1683	250.0	0.4	33.6	174.0	0.0	151.3	624	88	202	0.8	0.1	3.84	-13.70
11	GSDA	Ambegaon	Khadki	8.1	2550	360	1632	222.0	0.1	20.8	74.8	0.0	312.3	220	73	184	0.9	0.1	5.09	-2.16
12	GSDA	Ambegaon	Loni	8.5	1712	600	1096	116.0	0.7	49.6	115.7	4.8	209.8	328	30	110	1.1	0.1	2.06	-8.52
13	GSDA	Ambegaon	Manchar	8.8	983	240	623	150.0	0.1	11.2	51.5	3.6	480.7	82	8.2	37	0.8	0.1	4.21	3.15
14	GSDA	Ambegaon	Ranjani	8.4	1239	272	793	120.0	0.1	16	56.4	0.0	361.1	166	18.5	65	1	0.1	3.16	0.42
15	NHS2016	Baramati	Dhumalwadi		618	235	327	53.0	0.77	52.104	25.5	12.0	140.3	99.26	81	26	0.4	0.0	1.50	-2.03
16	NHS2016	Baramati	Dorlewadi		826	365	439	45.3	0.75	70.14	46.2	0.0	158.6	116.985	157	45	0.42	0.0	1.03	-4.76
17	NHS2016	Baramati	Karanje		2220	630	1172	195.0	7.07	146.292	64.4	18.0	390.4	453.76	144	51	0.64	0.0	3.38	-5.68
18	KOW2016	Baramati	Bajrangwadi	7.7	1674	587.64		111.0	1.54	343.62	59.3	0.0	248.9	192.759	34	307	0.076	0.0	1.45	-18.04
19	KOW2016	Baramati	Bhondvewadi	7.7	2266	577.68		254.0	0.11	373.5	49.6	0.0	151.3	408.65	44	387	0.779	0.0	3.27	-20.33
20	KOW2016	Baramati	Chaudhar Wadi	8.3	556	189.24		44.0	0.49	94.62	23.0	14.4	126.9	41.122	40	53	0.418	0.0	1.05	-4.09
21	KOW2016	Baramati	Gojubavi	7.6	1021	413.34		42.1	0.26	263.94	36.3	0.0	205.0	113.086	49	139	0.291	0.0	0.64	-

S. No.	Agency	Taluka	Location	pH	EC	Hardness	TDS	Na	K	Ca	Mg	CO_3	HCO_3	Cl	NO_3	SO_4	F	Fe	SAR	RSC
					µS/cm	---------- mg/l ----------														
																				12.86
22	KOW2016	Baramati	Jalgaon Supe	8	2539	687.24		271.1	0.21	328.68	87.1	0.0	263.5	573.138	32	208	0.381	0.0	3.43	-19.37
23	KOW2016	Baramati	Jogwadi	8.1	759	244.02		60.8	0.07	124.5	29.0	0.0	175.7	74.5336	42	100	0.291	0.0	1.27	-5.77
24	KOW2016	Baramati	Karanjepul	7.9	752	244.02		61.0	0.71	139.44	25.4	0.0	209.8	89.9544	17	56	0.117	0.0	1.25	-5.65
25	KOW2016	Baramati	Kololi	8	424	144.42		31.5	0.07	79.68	15.7	0.0	112.2	43.6921	7	55	0.16	0.0	0.84	-3.45
26	KOW2016	Baramati	Loni Bhapkar	8.2	1601	258.96		242.2	1.68	74.7	44.8	0.0	273.3	254.442	7	207	0.05	0.0	5.47	-2.99
27	KOW2016	Baramati	Medad	8.4	4451	144.42		955.0	0.19	94.62	12.1	28.8	497.8	292.994	25	1287	2.89	0.0	24.54	3.38
28	KOW2016	Baramati	Nimbodi	7.5	268	74.7		27.6	0.44	39.84	8.5	0.0	39.0	17.9909	7	66	0.173	0.0	1.03	-2.06
29	KOW2016	Baramati	Nirvagaj	7.8	3425	756.96		440.0	2.4	293.82	112.5	0.0	83.0	259.583	46	1195	0.153	0.0	5.53	-22.71
30	KOW2016	Baramati	Parwadi	7.9	440	99.6		56.8	0.15	74.7	6.1	0.0	146.4	25.7012	8	56	0.559	0.0	1.70	-1.84
31	KOW2016	Baramati	Sangavi	7.6	138	49.8		10.0	0.86	40.338	2.3	0.0	39.0	7.71038	7	25	0.48	0.0	0.41	-1.57
32	KOW2016	Baramati	Sonkaswadi	8.1	602	199.2		78.0	0.71	79.68	29.0	0.0	292.8	2.57013	9	45	0.33	0.0	1.90	-1.60
33	KOW2016	Baramati	Vadgaon Nimbalkar	8	834	114.54		141.0	1.1	94.62	4.8	0.0	327.0	46.2622	34	56	0.462	0.0	3.83	0.23
34	GSDA	Baramati	Ambi(bk)	7.9	1522	432	974	83.0	3.8	148.8	14.6	0.0	195.2	340	4.5	129	0.4	0.1	1.74	-5.46
35	GSDA	Baramati	Baramati	7.5	1400	432	896	70.0	0.8	36.8	82.6	0.0	375.8	188	37	8	0.6	0.3	1.46	-2.57
36	GSDA	Baramati	Jogwadi	8.3	1120	256	717	215.0	0.4	48	33.0	0.0	165.9	264	36	49	0.4	0.6	5.84	-2.43
37	GSDA	Baramati	Katewadi	7.7	863	308	562	81.0	7.3	48	45.7	0.0	341.6	80	24	28	0.2	0.4	2.01	-0.61
38	GSDA	Baramati	Morgaon	8.1	6980	1404	4467	150.0	23	512	30.1	0.0	502.6	700	37.5	602	0.1	0.6	1.74	-19.87
39	GSDA	Baramati	Sangavi	8.1	1177	380	753	94.0	0.5	44.8	65.1	0.0	302.6	154	30	7	0.6	0.6	2.10	-2.71
40	NHS2016	Bhor	Kasurdi-1		492	230	260	24.2	1.42	56.112	21.9	21.0	195.2	67.355	18	7	0.36	0.0	0.69	-0.73
41	GSDA	Bhor	Bholwade	7.9	441	220	282	17.0	1.1	44.8	26.2	1.7	230.2	42	0.7	8	0.2	0.1	0.50	-0.60
42	GSDA	Bhor	Bhor	7.8	568	220	364	25.0	1.1	40	29.2	1.2	210.7	36	2	17	0.7	0.1	0.73	-0.93
43	GSDA	Bhor	Nasarapur	7.6	363	200	232	16.0	0.6	32	29.2	0.7	199.2	44	0.9	6	0.1	0.1	0.49	-0.74

S. No.	Agency	Taluka	Location	pH	EC	Hardness	TDS	Na	K	Ca	Mg	CO_3	HCO_3	Cl	NO_3	SO_4	F	Fe	SAR	RSC
					µS/cm	mg/l														
44	NHS2016	Daund	Patas		1729	465	920	190.0	68	48.096	83.8	0.0	427.0	258.785	288	50	0.57	0.0	3.83	-2.39
45	GSDA	Daund	Daund	8.7	3100	168	1984	94.0	0.6	20.8	28.2	4.8	312.3	102	1.2	20	0.5	0.2	3.15	1.89
46	GSDA	Daund	Gar	8.5	678	576	434	249.0	4.4	86.4	87.5	3.7	124.2	120	34	530	0.7	0.6	4.51	-9.45
47	GSDA	Daund	Girim	9.2	1602	160	1025	30.0	1	12.8	31.1	7.2	214.7	36	1.12	10	0.2	0.1	1.03	0.53
48	GSDA	Daund	Kalewadi	8.8	413	248	264	118.0	47	22.4	46.7	15.4	260.2	130	4.3	110	0.7	0.1	3.26	-0.23
49	GSDA	Daund	Pargaon	8.6	1320	264	845	109.0	3	43.2	37.9	8.4	246.4	146	4.5	215	0.4	0.2	2.92	-1.00
50	GSDA	Daund	Patas	9.2	1320	184	845	171.0	33	16	35.0	19.2	449.0	150	21	104	0.3	0.1	5.48	4.28
51	GSDA	Daund	Rahu	8.4	2260	616	1446	126.0	0.7	107.2	84.6	2.4	117.1	220	11	349	0.5	1.1	2.21	-10.41
52	GSDA	Daund	Ravangaon	9.1	1095	120	701	158.0	1	11.2	22.4	7.2	317.2	110	2.3	54	0.9	0.2	6.27	3.02
53	GSDA	Daund	Sonwadi	7.8	2930	1060	1875	199.0	1	144	170.1	0.0	302.6	520	32	572	0.7	0.3	2.66	-16.42
54	NHS2016	Haveli	Kamshet		547	225	289	33.3	1.41	56.112	20.7	0.0	73.2	88.625	102	7	0.42	0.0	0.96	-3.33
55	NHS2016	Haveli	Parne		1960	575	1038	194.0	11.8	98.196	80.2	24.0	311.1	280.055	361	32	0.44	0.0	3.52	-5.69
56	NHS2016	Haveli	Shikrapur		1477	480	780	104.1	4.45	84.168	65.6	0.0	176.9	255.24	212	47	0.46	0.0	2.06	-6.78
57	NHS2016	Haveli	Shivpur Khed		572	245	304	47.5	5.63	48.096	30.4	0.0	189.1	99.26	71	31	0.42	0.0	1.32	-1.84
58	GSDA	Haveli	Alandi Mhatoba	8.4	962	288	628	83.0	24	32	50.5	4.8	283.0	120	6.5	83	1.1	0.2	2.13	-1.01
59	GSDA	Haveli	Bhosari	8.9	5400	280	3456	600.0	0.5	96	9.7	2.4	390.4	746	13	1	1	0.2	15.59	0.87
60	GSDA	Haveli	Donaje	8.3	533	200	341	119.0	0.7	4.8	45.7	0.0	0.0	78	0.1	47	0.1	1.1	3.66	-4.05
61	GSDA	Haveli	Haveli	8.1	815	344	522	47.0	0.3	51.2	52.5	2.4	302.6	110	0.3	52	0.2	0.2	1.10	-1.89
62	GSDA	Haveli	Kasurdibk	8.7	2060	280	1318	272.0	2	20.8	55.4	18.0	461.2	246	7.1	190	0.3	0.2	7.07	2.50
63	GSDA	Haveli	Lonikalbhor	7.8	1582	552	1012	110.0	4.5	59.2	98.2	0.0	0.0	132	3	82	0.5	0.2	2.04	-11.14
64	GSDA	Haveli	Pimparisandas	8.3	5330	488	2170	483.0	12.4	62.4	80.7	0.0	561.2	476	5	755	0.9	0.3	9.51	-0.64
65	GSDA	Haveli	Wadebolai	7.8	1392	448	891	103.0	0.1	81.6	59.3	0.0	531.9	136	21	85	1.3	0.1	2.12	-0.30
66	GSDA	Haveli	Wagholi	7.6	685	288	438	23.0	0.1	59.2	34.0	0.7	187.3	114	11	21	0.5	0.6	0.59	-2.70

S. No.	Agency	Taluka	Location	pH	EC	Hardness	TDS	Na	K	Ca	Mg	CO_3	HCO_3	Cl	NO_3	SO_4	F	Fe	SAR	RSC
					µS/cm	mg/l														
67	NHS2016	Indapur	Bhadalwadi		1520	440	805	107.1	4.42	96.192	48.6	0.0	134.2	173.705	366	16	0.64	0.0	2.22	-6.66
68	NHS2016	Indapur	Nimbgaon-Ketke		549	215	289	44.9	0.8	42.084	26.7	0.0	262.3	67.355	28	11	0.57	0.0	1.33	-0.03
69	KOW2017	Indapur	Awasari	8.1	1390	463.1		59.3	0.9	184.3	67.8	0.0	205.0	172.2	60	40	0.2	0.0	0.95	-11.50
70	KOW2017	Indapur	Bori	7.8	184	84.7		6.1	0.6	54.8	7.3	0.0	65.9	15.4	6	6	0.07	0.0	0.21	-2.27
71	KOW2017	Indapur	Giravi	7.8	2754	766.9		187.2	1.4	413.3	85.9	0.0	405.0	424.1	30	52	0.6	0.0	2.19	-21.18
72	KOW2017	Indapur	Kalewadi	7.9	1237	438.2		56.4	0.8	199.2	58.1	0.0	144.0	169.6	52	132	0.3	0.0	0.90	-12.44
73	KOW2017	Indapur	Kardanwadi	8.1	1039	353.6		51.3	0.7	134.5	53.2	0.0	226.9	97.7	88	40	0.6	0.0	0.95	-7.44
74	KOW2017	Indapur	Lumewadi	7.6	4806	1683.2		316.3	2.3	926.3	183.9	0.0	180.6	1051.2	70	900	0.5	0.0	2.48	-58.68
75	KOW2017	Indapur	Nimbodi	8	653	229.1		38.2	1.5	124.5	25.4	0.0	200.1	51.4	23	23	0.4	0.0	0.81	-5.06
76	KOW2017	Indapur	Pilewadi	7.7	1332	413.3		31.6	1	254	38.7	0.0	144.0	213.3	70	13.2	0.3	0.0	0.49	-13.56
77	KOW2017	Indapur	Pimpale	7.8	1081	338.6		53.0	1.1	159.4	43.6	0.0	151.3	154.2	56	98	0.3	0.0	0.96	-9.12
78	KOW2017	Indapur	Ranmodwadi	7.8	2810	702.2		255.4	1.3	249	110.1	0.0	156.2	478	100	310	0.5	0.0	3.39	-19.06
79	KOW2017	Indapur	Shaha	7	1014	278.9		56.8	3.5	109.6	41.1	0.0	283.0	84.8	8	60	0.3	0.0	1.17	-4.27
80	KOW2017	Indapur	Sugaon	8.2	875	338.6		47.2	0.9	209.2	31.5	0.0	183.0	90	27	102	0.3	0.0	0.80	-10.09
81	KOW2017	Indapur	Varkute Bk.	7.7	3809	1200.2		345.9	2.1	612.5	142.8	0.0	168.4	750.5	170	570	0.6	0.0	3.27	-39.76
82	KOW2017	Indapur	Varkute Kh.	8.1	1791	612.5		91.1	1.1	313.7	72.6	0.0	229.4	239	92	96	0.6	0.0	1.20	-17.97
83	GSDA	Indapur	Bhigwan	7.6	785	496	502	63.0	0.5	96	62.2	0.0	380.6	150	15	98	0.9	0.2	1.23	-3.74

S. No.	Agency	Taluka	Location	pH	EC	Hardness	TDS	Na	K	Ca	Mg	CO_3	HCO_3	Cl	NO_3	SO_4	F	Fe	SAR	RSC
					µS/cm	---------- mg/l ----------														
84	GSDA	Indapur	Kavthali	8.4	1210	220	774	49.0	1.5	38.4	30.1	0.0	297.7	70	12.5	21	0.6	0.2	1.44	0.45
85	GSDA	Indapur	Loni Deokar	8.9	430	232	403	148.0	55	22.4	42.8	31.1	416.5	130	6.9	170	0.1	0.2	4.22	3.18
86	GSDA	Indapur	Nirgude	8.2	625	196	400	49.0	2.1	30.4	29.2	3.5	236.4	82	4.7	22	0.8	0.2	1.52	0.04
87	GSDA	Indapur	Rui	7.8	952	320	609	179.0	0.2	44.8	50.5	0.0	697.8	76	5.6	26	0.7	0.2	4.35	4.99
88	GSDA	Indapur	Rui	7.5	1177	320	753	99.0	1.3	56	43.7	0.0	463.6	70	5.6	54	1.1	0.2	2.41	1.16
89	GSDA	Indapur	Shetfal	8.3	992	188	635	113.0	16.9	32	26.2	0.0	449.0	94	3.5	44	1.2	0.2	3.58	3.57
90	GSDA	Indapur	Tavashi	7.8	1288	360	812	86.0	7.9	83.2	36.9	0.0	458.7	170	10.5	61	0.5	0.2	1.97	0.28
91	GSDA	Indapur	Warkute Bk	8.4	1512	280	968	126.0	1.3	36.8	45.7	6.0	183.0	194	9.5	46	0.7	0.6	3.27	-2.45
92	NHS2016	Junnar	Ale-1		1155	370	614	81.4	2.25	64.128	51.0	0.0	170.8	173.705	155	55	0.53	0.0	1.84	-4.66
93	NHS2016	Junnar	Ane		394	165	208	31.0	0.62	62.124	2.4	0.0	140.3	53.175	45	7	0.57	0.0	1.05	-1.01
94	NHS2016	Junnar	Belhe-1		631	200	334	62.2	0.19	36.072	26.7	12.0	231.8	56.72	48	35	0.59	0.0	1.91	0.17
95	NHS2016	Junnar	Junnar		628	280	332	39.1	1.13	72.144	24.3	15.0	207.4	74.445	30	7	0.5	0.0	1.02	-1.73
96	NHS2016	Junnar	Narayangaon		853	350	452	67.9	0.2	48.096	55.9	0.0	353.8	92.17	70	55	0.36	0.0	1.58	-1.26
97	NHS2016	Junnar	Otur		691	275	366	51.7	0.57	54.108	34.0	12.0	231.8	85.08	55	55	0.57	0.0	1.35	-1.34
98	KOW2017	Junnar	Aldare	8.3	1010	388.4		19.4	0.9	149.4	58.1	38.4	239.1	77.1	0	36	0.24	0.0	0.34	-7.11
99	KOW2017	Junnar	Ambe Gavhan	8.1	1131	383.5		21.6	2	204.2	43.6	0.0	324.5	84.8	74	22	0.25	0.0	0.36	-8.52
100	KOW2017	Junnar	Bhorwadi	8.3	939	398.4		15.6	0.4	119.5	67.8	48.0	175.7	61.7	76	56	0.23	0.0	0.28	-7.14
101	KOW2017	Junnar	Devale	8.1	358	144.4		6.3	0.5	119.5	6.1	0.0	146.4	18	0	6	0.08	0.0	0.15	-4.08
102	KOW2017	Junnar	Ingaloon	8.3	406	129.5		13.9	0.4	114.5	3.6	43.2	87.8	12.9	0	6	0.21	0.0	0.35	-3.15
103	KOW2017	Junnar	Khireshwar	8	259	104.6		6.3	0.6	84.7	4.8	0.0	97.6	18	0	9	0.08	0.0	0.18	-3.04
104	KOW2017	Junnar	Kolwadi	7.9	536	224.1		6.7	0.8	129.5	23.0	0.0	212.3	20.6	27	8	0.11	0.0	0.14	-4.91
105	KOW2017	Junnar	Paragon tarf	7.9	969	368.5		17.5	0.6	189.2	43.6	0.0	187.9	97.7	68	72	0.27	0.0	0.30	-10.01
106	KOW2017	Junnar	Pemdara	8.1	654	204.2		24.7	1	104.6	24.2	0.0	236.7	46.3	3	24	0.43	0.0	0.57	-3.37
107	KOW2017	Junnar	Santwadi	8.3	765	273.9		20.7	0.5	104.6	41.1	43.2	139.1	51.4	43	18	0.43	0.0	0.43	-4.93

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					µS/cm	mg/l														
108	KOW2017	Junnar	Tambewadi	8.1	560	244		9.5	0.7	134.5	26.6	0.0	197.6	30.8	16	16	0.17	0.0	0.20	-5.70
109	KOW2017	Junnar	Yenere	7.9	964	383.5		13.8	0.7	144.4	58.1	0.0	224.5	74.5	46	40	0.27	0.0	0.24	-8.38
110	GSDA	Junnar	Ale	8.9	762	192	488	85.0	0.1	38.4	23.3	16.6	223.0	118	9.5	31	1.1	0.2	2.67	0.35
111	GSDA	Junnar	Arvi	8.1	1288	280	824	118.0	0.1	28.8	50.5	0.0	185.4	236	3	57	0.5	0.1	3.07	-2.61
112	GSDA	Junnar	Boribk	8.8	616	264	394	71.0	0.1	35.2	42.8	4.7	79.0	148	6.5	200	1.2	0.2	1.90	-3.87
113	GSDA	Junnar	Dholwadi	8.3	1880	248	1203	251.0	8.1	67.2	19.4	3.6	305.0	300	39.5	166	0.2	0.1	6.93	0.14
114	GSDA	Junnar	Khanapur	8.7	520	216	333	23.0	0.1	43.2	26.2	7.9	167.8	62	15	16	0.8	1.1	0.68	-1.33
115	GSDA	Junnar	Narayangaon	8.8	375	172	240	20.0	0.6	40	17.5	8.9	150.7	36	0.3	30	0.2	0.1	0.66	-0.69
116	GSDA	Junnar	Otur	8.1	668	212	428	54.0	0.3	51.2	20.4	2.3	197.6	116	0.8	46	0.3	0.1	1.61	-0.94
117	GSDA	Junnar	Pimpalwandi	9.4	817	164	523	84.0	3.7	33.6	19.4	6.0	334.3	92	5.4	43	0.4	0.1	2.85	2.38
118	GSDA	Junnar	Tejwadi	8.1	530	200	339	20.0	0.1	48	19.4	1.2	98.8	70	2.8	35	0.7	0.2	0.61	-2.36
119	NHS2016	Khed	Rajgurnagar (Khed)		409	125	215	48.0	5.16	24.048	15.8	12.0	67.1	63.81	84	7	0.42	0.0	1.87	-1.02
120	GSDA	Khed	Chas	8.1	629	248	403	21.0	0.8	32	40.8	2.5	215.4	50	7.2	35	0.8	0.3	0.58	-1.39
121	GSDA	Khed	Koye	8.4	336	160	215	26.0	0.1	32	19.4	3.6	152.3	74	3.5	15	0.8	0.1	0.89	-0.60
122	GSDA	Maval	Kanhe	8.2	440	160	282	11.0	0.3	27.2	22.4	0.9	63.0	108	1.4	16	0.1	0.1	0.38	-2.16
123	GSDA	Maval	Karla	8.5	239	280	153	33.0	0.1	8	63.2	6.7	225.1	88	0.4	24	0.3	0.1	0.86	-1.75
124	GSDA	Maval	Pawan Maval(malavali)	9.6	80	20	51	23.0	0.1	3.2	2.9	12.5	33.5	16	0.1	4	0.1	0.1	2.24	0.56
125	GSDA	Maval	Somatane	9	389	192	349	19.0	0.1	28.8	29.2	13.7	145.8	40	4	26	0.2	0.1	0.60	-1.02
126	GSDA	Maval	Talegaon	9	511	184	327	63.0	0.1	22.4	31.1	12.0	127.5	72	0.1	76	0.6	0.1	2.02	-1.22
127	NHS2016	Mawal	Lonawala		384	205	202	12.9	5.99	58.116	14.6	0.0	158.6	49.63	31	7	0.36	0.0	0.39	-1.52
128	NHS2016	Mulshi	Bukum		596	270	316	27.2	0.87	78.156	18.2	0.0	170.8	106.35	66	7	0.4	0.0	0.72	-2.63
129	NHS2016	Mulshi	Kolwan		404	200	214	15.1	1.21	56.112	14.6	0.0	158.6	35.45	36	7	0.4	0.0	0.46	-1.42
130	GSDA	Mulshi	Bhugaon	7.9	563	200	360	6.0	0.2	8	43.7	1.8	238.2	44	0.1	22	0.2	1.0	0.18	-0.08
131	GSDA	Mulshi	Nere	8.2	787	244	504	29.0	1	8	54.4	7.2	234.2	80	1	38	0.1	0.1	0.81	-0.86
132	GSDA	Mulshi	Paud	8.1	710	108	454	14.0	0.4	6.4	22.4	1.3	110.6	40	0.4	3	0.3	0.1	0.59	-0.33

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					µS/cm	mg/l														
133	GSDA	Mulshi	Sus	8.1	710	280	454	33.0	0.1	8	63.2	2.7	229.2	88	0.4	24	0.3	0.1	0.86	-1.82
134	GSDA	Phaltan	Khunte	8.1	657	212	420	6.0	0.9	32	32.1	2.2	189.7	32	5	18	0.3	0.1	0.18	-1.09
135	GSDA	Phaltan	Murum	8.3	563	168	360	39.6	0.4	32	21.4	3.2	172.7	32	5	23	0.6	0.1	1.33	-0.44
136	NHS2016	Pune City	Khadki		664	185	352	68.9	1.07	36.072	23.1	0.0	134.2	95.715	117	9	0.36	0.0	2.20	-1.53
137	NHS2016	Purandhar	Jejuri		865	280	458	85.9	0.38	66.132	27.9	0.0	219.6	134.71	120	7	0.36	0.0	2.23	-2.04
138	NHS2016	Purandhar	Kamatwadi-Walha		1172	405	623	105.0	0.92	56.112	64.4	21.0	237.9	194.975	130	44	0.4	0.0	2.27	-3.57
139	NHS2016	Purandhar	Pangre Sailar Basti		620	270	328	45.1	2.45	66.132	25.5	15.0	274.5	56.72	32	7	0.5	0.0	1.19	-0.43
140	NHS2016	Purandhar	Pimpri (Kh) Malvasti		1251	325	663	132.0	3.34	46.092	51.0	0.0	195.2	74.445	364	29	0.65	0.0	3.18	-3.36
141	NHS2016	Purandhar	Sakurde		691	295	366	37.7	14	70.14	29.2	0.0	250.1	81.535	68	32	0.42	0.0	0.95	-1.84
142	NHS2016	Purandhar	Zendewadi		965	425	510	45.3	1.36	90.18	48.6	0.0	225.7	113.44	162	42	0.46	0.0	0.95	-4.86
143	KOW2016	Purandhar	Ambale	8.2	1834	677.28		117.0	5.01	373.5	73.8	0.0	492.9	154.208	28	287	0.346	0.0	1.45	-16.75
144	KOW2016	Purandhar	Askarwadi	7.9	488	174.3		30.1	1.73	104.58	16.9	0.0	195.2	23.1311	7	40	0.15	0.0	0.72	-3.44
145	KOW2016	Purandhar	Bhosalewadi	8.2	633	194.22		52.0	0.39	69.72	30.3	0.0	156.2	87.3843	7	59	0.289	0.0	1.31	-3.45
146	KOW2016	Purandhar	Daundaj	7.9	858	209.16		101.0	0.41	129.48	19.4	0.0	263.5	69.3934	46	75	0.309	0.0	2.19	-3.77
147	KOW2016	Purandhar	Dive	7.8	1061	288.84		71.0	65.7	189.24	24.2	0.0	200.1	113.086	49	161	0.234	0.0	1.29	-8.20
148	KOW2016	Purandhar	Hivare	7.8	826	298.8		53.0	0.97	164.34	32.7	0.0	214.7	105.375	44	50	0.247	0.0	0.99	-7.42
149	KOW2016	Purandhar	Jawalarjun	7.8	6818	1195.2		1023.5	5.54	39.84	280.8	0.0	219.6	1439.27	52	1100	0.646	0.0	12.56	-21.79
150	KOW2016	Purandhar	Kaldari	8.1	338	144.42		13.0	0.49	124.5	4.8	0.0	146.4	15.4207	7	23	0.313	0.0	0.31	-4.23
151	KOW2016	Purandhar	Pimpale	8	766	288.84		39.0	2.29	184.26	25.4	0.0	224.5	51.4025	46	75	0.22	0.0	0.71	-7.65
152	KOW2016	Purandhar	Pondhe	8	750	273.9		45.0	0.7	109.56	39.9	0.0	258.6	82.244	19	34	0.469	0.0	0.93	-4.57
153	KOW2016	Purandhar	Rajuri	8	1106	343.62		95.0	5.2	204.18	33.9	0.0	200.1	105.375	44	200	0.643	0.0	1.62	-9.75
154	KOW2016	Purandhar	Thapewadi	7.9	389	154.38		16.0	0.69	124.5	7.3	0.0	161.0	20.561	7	31	0.164	0.0	0.38	-4.19
155	KOW2016	Purandhar	Veer	8	957	278.88		94.0	1.2	194.22	20.6	0.0	302.6	69.3934	42	100	0.324	0.0	1.71	-6.47
156	GSDA	Purandhar	Jejuri	8.3	590	192	378	49.0	1.1	24	32.1	3.9	208.0	76	21	17	0.1	0.6	1.54	-0.33

S. No.	Agency	Taluka	Location	pH	EC	Hardness	TDS	Na	K	Ca	Mg	CO_3	HCO_3	Cl	NO_3	SO_4	F	Fe	SAR	RSC
					µS/cm	mg/l														
157	GSDA	Purandhar	Khalad	8.1	1480	372	947	156.0	0.2	36.8	68.0	0.0	190.3	284	46	74	0.4	0.2	3.52	-4.39
158	GSDA	Purandhar	Mawadi Kp	8.5	2300	540	1472	235.0	0.1	67.2	90.4	3.6	246.4	466	31	226	0.7	0.1	4.40	-6.73
159	GSDA	Purandhar	Nira	8.2	1140	288	730	158.0	18	17.6	59.3	0.0	366.0	110	19	67	0.5	0.6	4.05	0.18
160	GSDA	Purandhar	Pargaon	8.5	525	184	336	36.0	1.9	24	30.1	5.0	166.9	70	0.9	24	0.1	0.3	1.15	-0.81
161	NHS2016	Shirur	Shirur		1722	455	930	166.0	55.3	48.096	81.4	0.0	305.0	336.775	245	8	0.64	0.0	3.38	-4.19
162	GSDA	Shirur	Andhalgaon	8.8	824	252	527	75.0	0.3	20.8	48.6	4.1	175.7	116	21	60	1.2	0.2	2.05	-2.07
163	GSDA	Shirur	Dhamari	9.2	374	140	239	32.0	1.2	20.8	21.4	10.3	68.9	68	10	24	0.6	0.1	1.18	-1.35
164	GSDA	Shirur	Gunat	8.9	316	152	202	19.0	1.3	20.8	24.3	9.7	129.9	36	0.2	12	0.5	1.1	0.67	-0.61
165	GSDA	Shirur	Inamgaon	8.4	599	208	383	33.0	0.4	38.4	27.2	4.7	199.2	96	7	33	1.1	0.2	0.99	-0.77
166	GSDA	Shirur	Kanhur	8	987	328	632	89.0	0.6	49.6	49.6	0.0	224.5	148	13	63	0.6	0.2	2.14	-2.93
167	GSDA	Shirur	Kawathe	8.2	515	200	330	20.0	0.2	38.4	25.3	3.3	224.6	62	7.3	21	0.7	0.1	0.61	-0.23
168	GSDA	Shirur	Kondhapuri	8.3	215	84	138	19.0	0.4	11.2	13.6	2.2	117.7	26	0.2	2	0.9	1.1	0.90	0.31
169	GSDA	Shirur	Navhara	9	538	180	344	28.0	1.3	16	34.0	16.1	171.4	62	7.6	41	1.1	0.3	0.91	-0.29
170	GSDA	Shirur	Nimgaon Dude	11.1	516	124	330	52.0	13.6	16	20.4	34.2	2.9	114	0.4	30	0.9	0.2	2.03	-1.31
171	GSDA	Shirur	Pimple Jagtap	8.1	598	192	383	54.0	1	32	27.2	2.8	237.1	60	3.9	26	1.2	0.3	1.69	0.11
172	GSDA	Shirur	Shikrapur	8.5	670	224	429	51.0	2.8	32	35.0	3.9	131.9	120	7.7	17	0.7	0.2	1.48	-2.22
173	GSDA	Shirur	Shikrapur	8.5	670	224	429	51.0	2.8	32	35.0	3.9	131.9	120	7.7	17	0.7	0.2	1.48	-2.22
174	GSDA	Shirur	Shirasgaon Kata	9.2	1166	256	746	88.0	0.6	12.8	54.4	18.0	451.4	86	18	44	1.5	0.1	2.39	2.82
175	GSDA	Shirur	Tandali	9.2	282	120	180	17.0	1.1	8	24.3	13.9	93.3	28	3.5	12	0.7	0.1	0.67	-0.43
176	NHS2016	Velhe	Kolawade		346	155	185	14.1	0.41	34.068	17.0	0.0	103.7	35.45	58	7	0.36	0.0	0.49	-1.42
177	NHS2016	Velhe	Wehle		268	110	142	17.9	2.89	36.072	4.9	0.0	109.8	35.45	21	7	0.36	0.0	0.74	-0.41
178	GSDA	Welha	Welha Bk	8.5	342	288	219	15.0	1	64	31.1	6.7	225.1	70	1	9	0.5	0.6	0.38	-1.88

Annexure VI: Chemical analysis of ground water samples, Deeper aquifers

S. No.	Agency	Taluka	Location	Type	pH	EC	Hardness	TDS	Na	K	Ca	Mg	CO_3	HCO_3	Cl	NO_3	SO_4	F	Fe	SAR	RSC
						µS/cm	---------- mg/l ----------														
1	CGWB	Akole	Khireshwar	EW	7.7	270	115	145	9.0	1	38	5.0	0.0	122.0	14	9	8	0.34	0.0	0.36	-0.32
2	CGWB	Ambegaon	Takewadi	EW	7.8	530	140	300	61.0	1	28	17.0	0.0	220.0	32	16	35	NA	0.0	2.24	0.79
3	CGWB	Ambegaon	Bhavdi	EW	8	680	225	425	52.0	5	32	35.0	0.0	128.0	57	120	60	NA	0.0	1.51	-2.42
4	CGWB	Baramati	Chandaydewadi	EW2016	8	993	275	526	90.0	2.47	52	35.0	0.0	189.0	177	18	4	0.1	0.0	2.36	-2.42
5	CGWB	Baramati	Chandaydewadi	EW2016	7.6	1190	255	630	100.0	1.14	56	28.0	0.0	73.0	252	16	88	0.41	0.0	2.72	-3.94
6	CGWB	Baramati	Chandaydewadi	EW2016	7.7	2838	1250	1505	96.0	0.55	242	157.0	0.0	55.0	674	32	294	0.12	0.0	1.18	-24.28
7	CGWB	Baramati	Chandaydewadi	EW2016	7.7	2859	1210	1516	101.0	0.72	238	149.0	0.0	55.0	681	32	314	0.47	0.0	1.26	-23.42
8	CGWB	Baramati	Choudharwadi	EW2016	8	438	160	232	41.0	0.63	42	13.0	0.0	214.0	43	32	5	0.12	0.0	1.42	0.32
9	CGWB	Baramati	Dorlewadi	EW2016	7.7	1580	235	838	168.0	1.16	78	10.0	0.0	61.0	369	26	92	0.8	0.0	4.75	-3.73
10	CGWB	Baramati	Dorlewadi	EW2016	7.5	1736	395	920	180.0	4.79	64	57.0	0.0	73.0	408	29	207	0.94	0.0	3.94	-6.75
11	CGWB	Baramati	Dorlewadi	EW2016	7.9	1791	410	950	186.0	1.29	80	51.0	0.0	49.0	429	29	226	0.75	0.0	3.99	-7.45
12	CGWB	Baramati	Loni Bhapkar	EW2016	7.8	889	120	471	104.0	0.97	22	16.0	0.0	55.0	206	7	5	0.1	0.0	4.11	-1.53
13	CGWB	Baramati	Parwadi	EW2016	7.9	593	215	314	47.0	1.09	40	28.0	0.0	104.0	113	24	61	0.1	0.0	1.39	-2.63
14	CGWB	Baramati	Parwadi	EW2016	7.7	1268	150	673	166.0	1.5	34	16.0	0.0	122.0	255	33	5	0.1	0.0	5.88	-1.03
15	CGWB	Baramati	Tandulwadi	EW2016	7.6	653	150	345	90.0	0.87	28	19.0	0.0	55.0	170	7	23	1.08	0.0	3.21	-2.08
16	CGWB	Baramati	Tandulwadi	EW2016	7.9	1283	465	680	79.0	1.02	84	62.0	0.0	67.0	238	32	212	0.15	0.0	1.59	-8.27
17	CGWB	Baramati	Wadgaon Nimbalkar	EW2016	8	707	130	374	88.0	14	38	9.0	0.0	323.0	64	27	6	0.33	0.0	3.33	2.65
18	CGWB	Baramati	Wadgaon Nimbalkar	EW2016	7.8	707	145	377	87.0	5.08	38	12.0	0.0	299.0	71	24	5	0.13	0.0	3.15	2.00
19	CGWB	Baramati	Sherechiwadi	OW	7.5	2100	740	1310	154.0	1	110	113.0	0.0	183.0	362	330	150	0.91	0.0	2.46	-11.92
20	CGWB	Baramati	Sherechiwadi	EW	7.7	1610	485	1025	156.0	2	76	72.0	0.0	177.0	223	201	205	0.74	0.0	3.08	-6.90
21	CGWB	Baramati	Sonwadisupe	EW	7.4	8200	1950	6000	713.0	569	377	246.0	0.0	165.0	1142	2070	800	2.52	0.0	7.01	-36.65
22	CGWB	Baramati	Rui	EW	7.9	2500	900	1538	164.0	2.2	248	68.0	0.0	165.0	440	353	200	0.93	0.0	2.38	-15.36
23	GSDA	Baramati	Karhati	Borewell	8.5	510	156	326	30.0	2.7	38.4	14.6	3.7	124.2	66	0.5	28	0.3	0.3	1.04	-0.98
24	GSDA	Baramati	Korhale Kh	Borewell	7.9	1108	364	709	67.0	0.4	30.4	70.0	0.0	322.1	154	9	20	0.4	0.3	1.53	-2.07
25	GSDA	Baramati	Lonibhapkar	Borewell	8.2	810	248	518	81.0	0.3	67.2	19.4	0.0	312.3	96	9.6	28	0.6	0.2	2.24	0.14
26	GSDA	Baramati	Pandare	Borewell	8.3	795	148	509	133.0	15.3	43.2	9.7	0.0	161.0	170	0.5	41	0.1	0.0	4.75	-0.33
27	GSDA	Baramati	Pandare	Borewell	8.7	1480	240	947	112.0	72	16	48.6	12.0	390.4	76	7.9	96	0.5	2.2	3.14	1.95
28	GSDA	Baramati	Wadgaonnimbalkar	Borewell	8.5	219	128	140	14.0	0.2	17.6	20.4	3.5	116.4	32	0.2	3	0.4	0.2	0.54	-0.56
29	CGWB	Bhor	Apti	EW	7	250	25	145	50.0	0.6	8	1.0	0.0	98.0	18	5	14	2	0.0	4.43	1.12
30	CGWB	Daund	Ambegaon	GWE1995-96	7.7	2300	615	1380	242.0	1	200	28.0	0.0	55.0	511	21	350	0	0.0	4.24	-11.43
31	CGWB	Daund	Boribel	GWE1995-97	8.06	950	125	490	161.0	5	22	17.0	0.0	189.0	149	10	50	0	0.0	6.26	0.58
32	CGWB	Daund	Boribel	GWE1995-98	8.1	1070	175	550	161.0	9	28	26.0	0.0	268.0	145	12	100	0	0.0	5.26	0.83
33	CGWB	Daund	Khor	GWE1995-99	8	780	105	475	132.0	0	38	2.0	0.0	49.0	174	3.8	100	0	0.0	5.65	-1.26

S. No.	Agency	Taluka	Location	Type	pH	EC	Hardness	TDS	Na	K	Ca	Mg	CO_3	HCO_3	Cl	NO_3	SO_4	F	Fe	SAR	RSC
						µS/cm	---------- mg/l ----------														
34	CGWB	Daund	Vasunde	GWE1995-100	8.1	590	70	352	104.0	0.5	18	6.0	0.0	79.0	117	6	60	0	0.0	5.42	-0.10
35	CGWB	Daund	Vasunde	GWE1995-101	8.25	630	90	375	104.0	0.5	20	10.0	0.0	73.0	121	2	80	0	0.0	4.74	-0.64
36	CGWB	Daund	Khor	GWE1996-97	8	440	55	255	76.0	0	14	5.0	0.0	98.0	74	5.8	30	0	0.0	4.43	0.49
37	CGWB	Daund	Ambegaon	EW	7.7	2300	615	1380	242.0	1	200	28.0	0.0	55.0	511	21	350	NA	0.0	4.24	-11.43
38	CGWB	Daund	Boribel	OW	8.1	950	125	490	161.0	5	22	17.0	0.0	189.0	149	10	50	NA	0.0	6.26	0.58
39	CGWB	Daund	Boribel	EW	8.1	1070	175	550	161.0	9	28	26.0	0.0	268.0	145	12	100	NA	0.0	5.26	0.83
40	CGWB	Daund	Khor	EW	8	780	105	475	132.0	0.1	38	2.0	0.0	49.0	174	3.8	100	NA	0.0	5.65	-1.26
41	CGWB	Daund	Vasunae	EW	8.3	630	90	375	104.0	0.5	20	10.0	0.0	73.0	121	2	80	NA	0.0	4.74	-0.64
42	CGWB	Daund	Vasunae	EW	8.1	590	70	352	104.0	0.5	18	6.0	0.0	79.0	117	6	60	NA	0.0	5.42	-0.10
43	CGWB	Daund	Khor	OW	8	440	55	255	76.0	0.1	14	5.0	0.0	98.0	74	5.8	30	NA	0.0	4.43	0.49
44	GSDA	Daund	Warwand	Borewell	8.7	495	168	317	86.0	2.1	17.6	30.1	10.8	229.0	66	5.4	17	0.6	0.1	2.89	0.73
45	GSDA	Daund	Yawat	Borewell	8.5	495	184	317	39.0	1.4	40	20.4	5.4	182.4	46	1.9	16	0.6	0.3	1.25	-0.53
46	CGWB	Haveli	Nhavi Sanaas	OW	7.9	2720	455	1712	420.0	6	104	47.0	0.0	238.0	291	36	687	1.37	0.0	8.58	-5.22
47	CGWB	Haveli	Nhavi Sanaas	OW	8	3050	565	1936	440.0	7	84	86.0	0.0	378.0	199	53	876	2.26	0.0	8.06	-5.17
48	CGWB	Haveli	Nhavi Sanaas	EW	8	3240	590	2028	468.0	8	94	86.0	0.0	384.0	209	61	908	2.13	0.0	8.38	-5.57
49	GSDA	Haveli	Koregaon Mul	Borewell	8.8	544	160	348	66.0	0.9	19.2	27.2	20.8	350.9	40	5.5	12	0.3	0.3	2.27	3.22
50	GSDA	Haveli	Koregaon Mul	Borewell	8.7	560	240	358	49.0	1.8	19.2	46.7	7.2	152.6	116	4.5	25	0.6	0.2	1.37	-2.11
51	CGWB	Indapur	Malwadi	GWE1994-95	8	780	250	400	64.0	0.5	50	30.0	0.0	293.0	74	2	50	0	0.0	1.77	-0.20
52	CGWB	Indapur	Malwadi	EW	8	780	250	400	64.0	0.5	50	30.0	0.0	293.0	74	2	50	NA	0.0	1.77	-0.20
53	GSDA	Indapur	Balpudi	Borewell	8.3	617	148	395	22.0	0.8	28.8	18.5	2.5	133.4	60	2.1	11	0.5	0.4	0.79	-0.71
54	GSDA	Indapur	Hingangaon	Borewell	8.2	864	272	553	68.0	3.3	35.2	44.7	0.0	292.8	94	9	60	0.4	0.2	1.79	-0.69
55	GSDA	Indapur	Indapur	Borewell	7.9	787	324	504	62.0	7	28.8	61.2	0.0	268.4	122	14	76	1	0.2	1.50	-2.14
56	GSDA	Indapur	Indapur	Borewell	8.2	1062	340	673	57.0	0.2	36.8	60.3	2.4	165.9	140	15	63	0.5	0.2	1.34	-4.07
57	GSDA	Indapur	Kalamb	Borewell	8.2	1585	536	1024	148.0	1	112	62.2	0.0	351.4	244	24	4	0.3	0.2	2.78	-5.02
58	GSDA	Indapur	Lasurne	Borewell	8.5	1541	360	986	210.0	6.4	24	72.9	3.6	324.5	286	23	127	0.6	0.2	4.81	-1.84
59	GSDA	Indapur	Reda	Borewell	7.7	598	280	383	60.0	4.5	40	43.7	0.9	191.1	94	21	22	0.6	0.2	1.56	-2.48
60	GSDA	Indapur	Reda	Borewell	8.1	979	284	627	92.0	4.2	65.6	29.2	0.0	209.8	110	34	140	1.1	0.2	2.37	-2.27
61	CGWB	Junnar	Khamunai	EW	7	450	50	270	81.0	1	18	1.0	0.0	140.0	39	26	32	1.57	0.0	5.03	1.31
62	CGWB	Indapur	Vakil Basti	EW	7.8	940	395	500	35.0	0.5	100	35.0	0.5	238.0	160	2	50	0	0.0	0.77	-4.00
63	CGWB	Junnar	Wanewadi	EW	7.8	450	60	260	76.0	0.5	24	9.0	0.0	207.0	25	6	12	0.06	0.0	3.35	1.44
64	CGWB	Junnar	Gunjalwadi	OW	7.7	990	425	565	32.0	1	110	36.0	0.0	305.0	74	120	38	0.21	0.0	0.68	-3.50
65	CGWB	Junnar	Gunjalwadi	OW	7.8	900	365	495	37.0	2	102	27.0	0.0	378.0	43	83	10	0.11	0.0	0.84	-1.15
66	CGWB	Junnar	Gunjalwadi	EW	7.7	1130	490	655	35.0	1	136	36.0	0.0	323.0	89	150	44	0.21	0.0	0.69	-4.50
67	CGWB	Khed	Dehane	OW	7.8	360	80	190	46.0	1	24	5.0	0.0	183.0	14	8	3	NA	0.0	2.23	1.38

S. No.	Agency	Taluka	Location	Type	pH	EC	Hardness	TDS	Na	K	Ca	Mg	CO_3	HCO_3	Cl	NO_3	SO_4	F	Fe	SAR	RSC
						µS/cm	---------- mg/l ----------														
68	CGWB	Khed	Dehane	EW	7.9	350	75	190	48.0	1	22	5.0	0.0	171.0	18	10	3	NA	0.0	2.40	1.29
69	CGWB	Khed	Kharpudi	EW	7.1	1800	440	1180	267.0	2	132	27.0	0.0	85.0	294	16	400	NA	0.0	5.53	-7.46
70	CGWB	Khed	Yelwadi	EW	7.8	640	285	375	33.0	2	62	32.0	0.0	232.0	71	23	36	0.4	0.0	0.85	-1.96
71	CGWB	Khed	Chikhali	EW	7.4	700	60	366	126.0	0.4	16	5.0	0.0	244.0	53	22	22	0.9	0.0	7.04	2.78
72	GSDA	Khed	Alandi	Borewell	8.2	577	260	369	20.0	9.6	54.4	30.1	3.8	252.2	122	0.5	16	0.7	0.4	0.54	-0.97
73	GSDA	Khed	Bhorgiri	Borewell	9.3	540	172	346	56.0	0.2	16	32.1	44.1	234.9	50	2.8	10	0.8	0.1	1.86	1.85
74	GSDA	Khed	Chakan	Borewell	8.7	763	228	488	53.0	8.6	46.4	27.2	4.8	102.9	128	13	53	1	0.2	1.53	-2.74
75	GSDA	Khed	Kadus	Borewell	8.3	86	20	55	8.0	0.1	6.4	1.0	0.4	19.5	16	0.1	1	0.1	0.2	0.78	-0.07
76	GSDA	Khed	Nimgaon	Borewell	8.5	2500	328	1600	316.0	0.1	120	6.8	3.6	139.1	472	11.5	43	1.1	0.2	7.59	-4.17
77	CGWB	Mulshi	Kolwan	EW	7.5	850	240	400	53.0	1.3	36	36.0	0.0	274.0	99	1.2	33	0.07	0.0	1.49	-0.31
78	CGWB	Mulshi	Belawade	EW	7.4	570	180	270	44.0	2.6	34	23.0	0.0	213.0	43	4.5	13	0.01	0.0	1.43	-0.12
79	GSDA	Mulshi	Kharawade	Borewell	9.1	184	88	118	15.0	0.2	3.2	19.4	9.0	76.3	40	0.1	3	0.3	0.1	0.70	-0.23
80	CGWB	Pune City	KVBEG Yerawada	OW	8.9	730	240	366	54.0	0.6	52	27.0	42.0	281.0	35	2	12	0.44	0.0	1.51	1.16
81	CGWB	Purandhar	Gulunche	EW2016	7.8	1620	510	860	83.0	3.75	148	34.0	0.0	146.0	362	34	121	0.09	0.0	1.60	-7.84
82	CGWB	Purandhar	Narayanpur	EW2016	7.7	749	250	397	60.0	2.08	48	32.0	0.0	140.0	103	30	58	0.11	0.0	1.64	-2.77
83	CGWB	Purandhar	Narayanpur	EW2016	7.7	782	290	414	57.0	1.6	56	36.0	0.0	134.0	121	27	95	0.09	0.0	1.46	-3.60
84	CGWB	Purandhar	Narayanpur	EW2016	7.9	1112	375	590	71.0	1.07	76	45.0	0.0	262.0	174	34	78	0.09	0.0	1.59	-3.25
85	CGWB	Purandhar	Parinche	EW2016	7.8	307	30	162	55.0	0.58	8	2.0	0.0	61.0	50	7	16	0.15	0.0	4.50	0.43
86	CGWB	Purandhar	Rakh	EW2016	7.6	2199	770	1166	96.0	1.36	228	49.0	0.0	159.0	574	35	129	0.12	0.0	1.50	-12.88
87	CGWB	Purandhar	Walha	EW2016	7.7	971	340	514	70.0	1.61	82	33.0	0.0	244.0	149	34	72	0.12	0.0	1.65	-2.85
88	CGWB	Purandhar	Singapur	EW	8.3	1120	295	650	127.0	5	28	55.0	0.0	342.0	92	110	61	0.6	0.0	3.21	-0.38
89	CGWB	Purandhar	Naygaon	EW	7.6	1800	495	1083	175.0	0.3	120	49.0	0.0	342.0	241	137	163	0.9	0.0	3.40	-4.48
90	CGWB	Purandhar	Sasvad	EW	7.8	1530	170	893	276.0	1	48	13.0	0.0	360.0	234	50	91	0.4	0.0	9.11	2.42
91	CGWB	Purandhar	Waghapur	EW	9.1	630	70	413	112.0	1.5	22	4.0	12.0	104.0	128	2	75	4.27	0.0	5.76	0.67
92	CGWB	Purandhar	Jadhavwadi	EW	8.2	710	265	350	40.0	0.2	50	34.0	0.0	378.0	21	3	12	0.58	0.0	1.07	0.86
93	GSDA	Purandhar	Belsar	Borewell	7	2140	288	1370	132.0	6	70.4	27.2	0.0	253.8	56	80	104	0.3	0.3	3.38	-1.63
94	GSDA	Purandhar	Chambhali	Borewell	8	832	280	532	47.0	5.3	40	43.7	0.0	205.0	82	26	29	0.1	0.2	1.22	-2.28
95	GSDA	Purandhar	Dive	Borewell	8	505	220	323	16.3	0.3	50	23.1	1.2	123.8	40	23.7	17	0.3	0.1	0.48	-2.36
96	GSDA	Purandhar	Khanawadi	Borewell	8.4	387	152	248	29.0	0.5	24	22.4	3.2	136.6	36	28	9	0.5	0.3	1.02	-0.72
97	CGWB	Shirur	Nirvi	GWE1996-97	7.8	2240	485	1320	292.0	0	168	16.0	0.0	37.0	638	4.5	180	0	0.0	5.76	-9.13
98	CGWB	Shirur	Nirvi	EW	7.8	2240	485	1320	292.0	0.1	168	16.0	0.0	37.0	638	4.5	180	NA	0.0	5.76	-9.13
99	CGWB	Shirur	Ranjangaon	OW	7.6	2060	650	1360	173.0	3	150	67.0	0.0	122.0	266	460	175	0.99	0.0	2.95	-11.08
100	CGWB	Shirur	Ranjangaon	EW	7.6	2260	865	1005	115.0	9	172	106.0	0.0	244.0	245	460	190	0.69	0.0	1.70	-13.43
101	CGWB	Shirur	Pimple Jagtap	EW	7.7	1140	365	670	92.0	4	114	19.0	0.0	226.0	156	79	90	0.52	0.0	2.10	-3.58

S. No.	Agency	Taluka	Location	Type	pH	EC	Hardness	TDS	Na	K	Ca	Mg	CO_3	HCO_3	Cl	NO_3	SO_4	F	Fe	SAR	RSC
						µS/cm	---------- mg/l ----------														
102	GSDA	Shirur	Nhavra	Borewell	9.2	578	148	370	54.0	5.1	17.6	25.3	25.3	169.9	88	6.4	35	0.9	0.2	1.93	0.64
103	GSDA	Shirur	Shirur	Borewell	7.9	388	180	248	19.0	0.7	43.2	17.5	1.2	158.8	72	3.2	16	0.5	0.1	0.62	-0.98

Annexure VII: Location of proposed Percolation tanks in Pune district

S.No.	Village	Taluka	District	Structure	X	Y
1	Bharadi	AMBEGAON	Pune	Percolation Tank	74.0361	19.0003
2	Chinchodi	AMBEGAON	Pune	Percolation Tank	73.898	19.02
3	Chincholi	AMBEGAON	Pune	Percolation Tank	73.8767	19.0534
4	Dhondmal Shindewadi	AMBEGAON	Pune	Percolation Tank	73.848	19.035
5	Dhondmal Shindewadi	AMBEGAON	Pune	Percolation Tank	73.8555	19.0422
6	Dhondmal Shindewadi	AMBEGAON	Pune	Percolation Tank	73.8595	19.0437
7	Dimbhe Kh.	AMBEGAON	Pune	Percolation Tank	73.7383	19.0821
8	Eklahare	AMBEGAON	Pune	Percolation Tank	73.9592	19.0238
9	Ghodegaon	AMBEGAON	Pune	Percolation Tank	73.8209	19.0458
10	Ghodegaon	AMBEGAON	Pune	Percolation Tank	73.8254	19.0464
11	Gohe Bk.	AMBEGAON	Pune	Percolation Tank	73.7335	19.0623
12	Gohe Bk.	AMBEGAON	Pune	Percolation Tank	73.7399	19.0695
13	Gohe Bk.	AMBEGAON	Pune	Percolation Tank	73.7419	19.0762
14	Kalamb	AMBEGAON	Pune	Percolation Tank	73.963	19.0447
15	Kathapur Bk.	AMBEGAON	Pune	Percolation Tank	74.1111	18.9718
16	Nagapur	AMBEGAON	Pune	Percolation Tank	74.0646	19.0098
17	Nirgoodsar	AMBEGAON	Pune	Percolation Tank	74.0553	18.9783
18	Pimpalgaon Tarf Ghoda	AMBEGAON	Pune	Percolation Tank	73.8211	19.0656
19	Pimpalgaon Tarf Ghoda	AMBEGAON	Pune	Percolation Tank	73.8121	19.0709
20	Pimpalgaon Tarf Mahalunge	AMBEGAON	Pune	Percolation Tank	73.9698	18.9908
21	Supedhar	AMBEGAON	Pune	Percolation Tank	73.7668	19.0635
22	Vadgaon Kashimbeg	AMBEGAON	Pune	Percolation Tank	73.9229	19.0269
23	Ambi Kh	BARAMATI	Pune	Percolation Tank	74.2818	18.3055
24	Anjangaon	BARAMATI	Pune	Percolation Tank	74.4944	18.2008
25	Anjangaon	BARAMATI	Pune	Percolation Tank	74.5009	18.2194
26	Baburdi	BARAMATI	Pune	Percolation Tank	74.3672	18.2801
27	BARAMATI	BARAMATI	Pune	Percolation Tank	74.5712	18.1598
28	Chopadaj	BARAMATI	Pune	Percolation Tank	74.3214	18.1533
29	Deulgaon Rasal	BARAMATI	Pune	Percolation Tank	74.4618	18.2833
30	Dhakale	BARAMATI	Pune	Percolation Tank	74.4158	18.1464
31	Dhakale	BARAMATI	Pune	Percolation Tank	74.4118	18.1566
32	Gadikhelwadi (nv)	BARAMATI	Pune	Percolation Tank	74.61	18.2663
33	Gadikhelwadi (nv)	BARAMATI	Pune	Percolation Tank	74.5539	18.2996
34	Gadikhelwadi (nv)	BARAMATI	Pune	Percolation Tank	74.5839	18.3126
35	Gunwadi	BARAMATI	Pune	Percolation Tank	74.5691	18.12
36	Hol	BARAMATI	Pune	Percolation Tank	74.3346	18.1063
37	Jalgaon Kade Pathar	BARAMATI	Pune	Percolation Tank	74.4287	18.2273
38	Jalgaon Kade Pathar	BARAMATI	Pune	Percolation Tank	74.4392	18.1977
39	Jalgaon Supe	BARAMATI	Pune	Percolation Tank	74.4351	18.2533
40	Kalkhairewadi	BARAMATI	Pune	Percolation Tank	74.3868	18.3244
41	Karanjepul	BARAMATI	Pune	Percolation Tank	74.2958	18.1089
42	Karhati	BARAMATI	Pune	Percolation Tank	74.4116	18.255

43	Karhati	BARAMATI	Pune	Percolation Tank	74.4333	18.2709
44	Karhati	BARAMATI	Pune	Percolation Tank	74.408	18.2892
45	Khandaj	BARAMATI	Pune	Percolation Tank	74.5461	18.0741
46	Kololi	BARAMATI	Pune	Percolation Tank	74.4312	18.312
47	Kololi	BARAMATI	Pune	Percolation Tank	74.4413	18.3107
48	Kololi	BARAMATI	Pune	Percolation Tank	74.4184	18.3023
49	Korhale Bk	BARAMATI	Pune	Percolation Tank	74.377	18.1444
50	Loni Bhapkar	BARAMATI	Pune	Percolation Tank	74.3656	18.252
51	Loni Bhapkar	BARAMATI	Pune	Percolation Tank	74.3818	18.226
52	Loni Bhapkar	BARAMATI	Pune	Percolation Tank	74.3801	18.2293
53	Malegaon Bk	BARAMATI	Pune	Percolation Tank	74.5192	18.1343
54	Malegaon Kh.	BARAMATI	Pune	Percolation Tank	74.5068	18.1421
55	Medad	BARAMATI	Pune	Percolation Tank	74.5114	18.177
56	Moralwadi	BARAMATI	Pune	Percolation Tank	74.3032	18.1967
57	Murti	BARAMATI	Pune	Percolation Tank	74.2973	18.1977
58	Murti	BARAMATI	Pune	Percolation Tank	74.2934	18.2097
59	Murti	BARAMATI	Pune	Percolation Tank	74.2771	18.2117
60	Naroli	BARAMATI	Pune	Percolation Tank	74.4162	18.3039
61	Naroli	BARAMATI	Pune	Percolation Tank	74.4163	18.3101
62	Nimbodi	BARAMATI	Pune	Percolation Tank	74.685	18.2896
63	Palshiwadi	BARAMATI	Pune	Percolation Tank	74.3201	18.1804
64	Palshiwadi	BARAMATI	Pune	Percolation Tank	74.3263	18.1859
65	Pandare	BARAMATI	Pune	Percolation Tank	74.4736	18.1337
66	Pandare	BARAMATI	Pune	Percolation Tank	74.4334	18.1138
67	Pansarewadi	BARAMATI	Pune	Percolation Tank	74.3883	18.3125
68	Parwadi	BARAMATI	Pune	Percolation Tank	74.6544	18.2754
69	Parwadi	BARAMATI	Pune	Percolation Tank	74.663	18.2859
70	Parwadi	BARAMATI	Pune	Percolation Tank	74.6185	18.2823
71	Shirawali	BARAMATI	Pune	Percolation Tank	74.5014	18.0861
72	Supe	BARAMATI	Pune	Percolation Tank	74.3337	18.2954
73	Tandulwadi	BARAMATI	Pune	Percolation Tank	74.5559	18.1755
74	Tandulwadi	BARAMATI	Pune	Percolation Tank	74.5852	18.183
75	Tardoli	BARAMATI	Pune	Percolation Tank	74.3413	18.2531
76	Vadgaon Nimbalkar	BARAMATI	Pune	Percolation Tank	74.3646	18.1307
77	Karanjgaon	BHOR	Pune	Percolation Tank	73.7465	18.112
78	Nandagaon	BHOR	Pune	Percolation Tank	73.7686	18.1164
79	Alegaon	DAUND	Pune	Percolation Tank	74.6606	18.4429
80	Chincholi	DAUND	Pune	Percolation Tank	74.7371	18.3184
81	DAUND	DAUND	Pune	Percolation Tank	74.5952	18.4621
82	Delvadi	DAUND	Pune	Percolation Tank	74.3209	18.5534
83	Deulgaon Raje	DAUND	Pune	Percolation Tank	74.6763	18.4554
84	Ganesh Road	DAUND	Pune	Percolation Tank	74.4173	18.5338
85	Jiregaon	DAUND	Pune	Percolation Tank	74.5655	18.3726
86	Kalewadi (nv)	DAUND	Pune	Percolation Tank	74.6958	18.4213
87	Kangaon	DAUND	Pune	Percolation Tank	74.4682	18.5113

88	Khorodi	DAUND	Pune	Percolation Tank	74.6325	18.4443
89	Maladpatas	DAUND	Pune	Percolation Tank	74.6088	18.3741
90	Malthan	DAUND	Pune	Percolation Tank	74.7182	18.4077
91	Malthan	DAUND	Pune	Percolation Tank	74.7463	18.3828
92	Nangaon	DAUND	Pune	Percolation Tank	74.4069	18.5632
93	Pandharewadi	DAUND	Pune	Percolation Tank	74.4938	18.3754
94	Pargaon	DAUND	Pune	Percolation Tank	74.3591	18.5534
95	Pedgaon	DAUND	Pune	Percolation Tank	74.6927	18.4953
96	Rajegaon	DAUND	Pune	Percolation Tank	74.8021	18.3369
97	Rajegaon	DAUND	Pune	Percolation Tank	74.7865	18.361
98	Shirapur	DAUND	Pune	Percolation Tank	74.7218	18.4786
99	Sonwadi	DAUND	Pune	Percolation Tank	74.5542	18.4721
100	Sonwadi	DAUND	Pune	Percolation Tank	74.5493	18.4923
101	Undawadi	DAUND	Pune	Percolation Tank	74.2543	18.5331
102	Valki	DAUND	Pune	Percolation Tank	74.3148	18.5772
103	Watluj	DAUND	Pune	Percolation Tank	74.7639	18.393
104	Arvi	HAVELI	Pune	Percolation Tank	73.8117	18.3686
105	Ashtapur	HAVELI	Pune	Percolation Tank	74.1212	18.5397
106	Awhalwadi	HAVELI	Pune	Percolation Tank	73.963	18.5505
107	Bhawadi	HAVELI	Pune	Percolation Tank	73.9938	18.6373
108	Biwari	HAVELI	Pune	Percolation Tank	74.1028	18.5255
109	BOPKHEL	HAVELI	Pune	Percolation Tank	73.8331	18.5938
110	BOPKHEL	HAVELI	Pune	Percolation Tank	73.8625	18.593
111	Burkegaon	HAVELI	Pune	Percolation Tank	74.1101	18.6181
112	Dhanori	HAVELI	Pune	Percolation Tank	73.8882	18.5778
113	Dongargaon	HAVELI	Pune	Percolation Tank	74.0883	18.6195
114	Dongargaon	HAVELI	Pune	Percolation Tank	74.0802	18.6101
115	Fulgaon	HAVELI	Pune	Percolation Tank	74.0095	18.6573
116	Hingangaon	HAVELI	Pune	Percolation Tank	74.1613	18.5444
117	Hingangaon	HAVELI	Pune	Percolation Tank	74.1613	18.5408
118	Kadamwak Wasti	HAVELI	Pune	Percolation Tank	73.9911	18.4947
119	Kadamwak Wasti	HAVELI	Pune	Percolation Tank	74.0072	18.4922
120	KALAS	HAVELI	Pune	Percolation Tank	73.8794	18.5861
121	Kesnand	HAVELI	Pune	Percolation Tank	74.0362	18.5528
122	Khamgaon Tek	HAVELI	Pune	Percolation Tank	74.1728	18.5208
123	Kondhanpur	HAVELI	Pune	Percolation Tank	73.7975	18.3475
124	Koregaon Mul	HAVELI	Pune	Percolation Tank	74.1078	18.5154
125	Koregaon Mul	HAVELI	Pune	Percolation Tank	74.1223	18.5172
126	LOHAGAON	HAVELI	Pune	Percolation Tank	73.9448	18.5644
127	Manjari Bk.	HAVELI	Pune	Percolation Tank	73.9811	18.5136
128	Manjari Kh.	HAVELI	Pune	Percolation Tank	73.9949	18.5245
129	Manjari Kh.	HAVELI	Pune	Percolation Tank	73.9764	18.5418
130	Naigaon	HAVELI	Pune	Percolation Tank	74.0894	18.5165
131	Naigaon	HAVELI	Pune	Percolation Tank	74.0982	18.5161
132	Nanded	HAVELI	Pune	Percolation Tank	73.8036	18.4533

133	Nhavi Sandas	HAVELI	Pune	Percolation Tank	74.151	18.5962
134	Perane	HAVELI	Pune	Percolation Tank	74.0661	18.6188
135	Perane	HAVELI	Pune	Percolation Tank	74.0592	18.6301
136	Pimpri Sandas	HAVELI	Pune	Percolation Tank	74.1254	18.6047
137	Pimpri Sandas	HAVELI	Pune	Percolation Tank	74.1411	18.5981
138	Pimpri Sandas	HAVELI	Pune	Percolation Tank	74.1204	18.6105
139	PUNE CITY	HAVELI	Pune	Percolation Tank	73.83	18.5553
140	PUNE CITY	HAVELI	Pune	Percolation Tank	73.9018	18.5324
141	PUNE CITY	HAVELI	Pune	Percolation Tank	73.9064	18.5465
142	Sangavi Sandas	HAVELI	Pune	Percolation Tank	74.1686	18.613
143	Shewalwadi	HAVELI	Pune	Percolation Tank	73.972	18.4885
144	Shiwapur	HAVELI	Pune	Percolation Tank	73.8449	18.3403
145	Theur	HAVELI	Pune	Percolation Tank	74.0416	18.4965
146	Theur	HAVELI	Pune	Percolation Tank	74.0655	18.5229
147	Tilekarwadi	HAVELI	Pune	Percolation Tank	74.1456	18.5176
148	VADGAON BK.	HAVELI	Pune	Percolation Tank	73.8174	18.4657
149	VADGAON SHERI	HAVELI	Pune	Percolation Tank	73.9161	18.5491
150	Wade Bolhai	HAVELI	Pune	Percolation Tank	74.0642	18.5382
151	Wadgaon-shinde	HAVELI	Pune	Percolation Tank	73.9544	18.6199
152	Wadgaon-shinde	HAVELI	Pune	Percolation Tank	73.9544	18.6341
153	Wadhu Kh.	HAVELI	Pune	Percolation Tank	74.0336	18.654
154	WARJE	HAVELI	Pune	Percolation Tank	73.8063	18.4787
155	Akole	INDAPUR	Pune	Percolation Tank	74.7553	18.2072
156	Akole	INDAPUR	Pune	Percolation Tank	74.7621	18.2146
157	Akole	INDAPUR	Pune	Percolation Tank	74.7487	18.1919
158	Anthurne	INDAPUR	Pune	Percolation Tank	74.7958	18.0725
159	Anthurne	INDAPUR	Pune	Percolation Tank	74.7912	18.0997
160	Awasari	INDAPUR	Pune	Percolation Tank	75.0342	18.037
161	Babhulgaon	INDAPUR	Pune	Percolation Tank	75.0846	18.0657
162	Balpudi	INDAPUR	Pune	Percolation Tank	74.9247	18.1653
163	Bandgarwadi (nv)	INDAPUR	Pune	Percolation Tank	74.7713	18.2648
164	Bandgarwadi (nv)	INDAPUR	Pune	Percolation Tank	74.7736	18.2575
165	Bawada	INDAPUR	Pune	Percolation Tank	74.9768	17.9977
166	Bawada	INDAPUR	Pune	Percolation Tank	74.9829	17.9661
167	Bawada	INDAPUR	Pune	Percolation Tank	74.9945	17.9626
168	Bhadalwadi	INDAPUR	Pune	Percolation Tank	74.7709	18.2259
169	Bhandgaon	INDAPUR	Pune	Percolation Tank	75.0342	18.0042
170	Bhawadi	INDAPUR	Pune	Percolation Tank	74.9251	18.2305
171	Bhawadi	INDAPUR	Pune	Percolation Tank	74.9269	18.2335
172	Bori	INDAPUR	Pune	Percolation Tank	74.7551	18.1248
173	Dalaj No.2	INDAPUR	Pune	Percolation Tank	74.8231	18.2287
174	Dalaj No.2	INDAPUR	Pune	Percolation Tank	74.8079	18.2297
175	Dalaj No.2	INDAPUR	Pune	Percolation Tank	74.8211	18.2209
176	Gagargaon	INDAPUR	Pune	Percolation Tank	74.9726	18.1702
177	Gosaviwadi	INDAPUR	Pune	Percolation Tank	74.8239	18.1908

178	Gotandi	INDAPUR	Pune	Percolation Tank	74.8875	18.0524
179	Gotandi	INDAPUR	Pune	Percolation Tank	74.8867	18.0615
180	Hingangaon	INDAPUR	Pune	Percolation Tank	75.0794	18.0825
181	INDAPUR	INDAPUR	Pune	Percolation Tank	75.0451	18.1355
182	INDAPUR	INDAPUR	Pune	Percolation Tank	75.0304	18.1397
183	INDAPUR	INDAPUR	Pune	Percolation Tank	75.0168	18.0745
184	INDAPUR	INDAPUR	Pune	Percolation Tank	75.069	18.0852
185	INDAPUR	INDAPUR	Pune	Percolation Tank	75.0569	18.094
186	Kacharewadi	INDAPUR	Pune	Percolation Tank	74.9102	18.0897
187	Kacharewadi	INDAPUR	Pune	Percolation Tank	74.9728	17.9268
188	Kalas	INDAPUR	Pune	Percolation Tank	74.7798	18.1931
189	Kalas	INDAPUR	Pune	Percolation Tank	74.8305	18.1998
190	Kalas	INDAPUR	Pune	Percolation Tank	74.8227	18.1948
191	Kalashi	INDAPUR	Pune	Percolation Tank	74.9899	18.2034
192	Kalewadi	INDAPUR	Pune	Percolation Tank	74.8649	18.2139
193	Kalewadi	INDAPUR	Pune	Percolation Tank	74.857	18.2104
194	Kalewadi	INDAPUR	Pune	Percolation Tank	74.8558	18.2278
195	Kalthan No.1	INDAPUR	Pune	Percolation Tank	74.9853	18.1969
196	Kalthan No.1	INDAPUR	Pune	Percolation Tank	74.978	18.1946
197	Kauthali	INDAPUR	Pune	Percolation Tank	74.9279	18.1614
198	Kazad	INDAPUR	Pune	Percolation Tank	74.7204	18.1417
199	Kazad	INDAPUR	Pune	Percolation Tank	74.7142	18.1428
200	Khorochi	INDAPUR	Pune	Percolation Tank	74.8669	17.9687
201	Khorochi	INDAPUR	Pune	Percolation Tank	74.8781	17.9481
202	Kumbhargaon	INDAPUR	Pune	Percolation Tank	74.7866	18.2687
203	Lakhewadi	INDAPUR	Pune	Percolation Tank	74.9373	17.97
204	Loni	INDAPUR	Pune	Percolation Tank	74.9176	18.2003
205	Loni	INDAPUR	Pune	Percolation Tank	74.9102	18.2114
206	Malewadi	INDAPUR	Pune	Percolation Tank	74.8928	18.2202
207	Maradwadi	INDAPUR	Pune	Percolation Tank	74.8574	18.1965
208	Narutwadi	INDAPUR	Pune	Percolation Tank	75.0077	18.1614
209	Nhavi	INDAPUR	Pune	Percolation Tank	74.8755	18.1723
210	Nhavi	INDAPUR	Pune	Percolation Tank	74.8767	18.1792
211	Nhavi	INDAPUR	Pune	Percolation Tank	74.8755	18.1876
212	Nhavi	INDAPUR	Pune	Percolation Tank	74.8781	18.1939
213	Nhavi	INDAPUR	Pune	Percolation Tank	74.8879	18.1729
214	Nimbodi	INDAPUR	Pune	Percolation Tank	74.6867	18.1428
215	Nimbodi	INDAPUR	Pune	Percolation Tank	74.6921	18.1409
216	Nimsakhar	INDAPUR	Pune	Percolation Tank	74.8227	18.024
217	Nimsakhar	INDAPUR	Pune	Percolation Tank	74.8143	18.0431
218	Nimsakhar	INDAPUR	Pune	Percolation Tank	74.8315	18.026
219	Nirgude	INDAPUR	Pune	Percolation Tank	74.7192	18.2194
220	Nirgude	INDAPUR	Pune	Percolation Tank	74.7228	18.2274
221	Nirnimgaon	INDAPUR	Pune	Percolation Tank	74.9654	17.9262
222	Nirwangi	INDAPUR	Pune	Percolation Tank	74.8576	18.0179

223	Nirwangi	INDAPUR	Pune	Percolation Tank	74.8689	17.9909
224	Nirwangi	INDAPUR	Pune	Percolation Tank	74.8773	17.997
225	Nirwangi	INDAPUR	Pune	Percolation Tank	74.8853	18.0031
226	Palasdeo	INDAPUR	Pune	Percolation Tank	74.8865	18.2297
227	Palasdeo	INDAPUR	Pune	Percolation Tank	74.8787	18.216
228	Paritwadi	INDAPUR	Pune	Percolation Tank	74.7306	18.0635
229	Pimpale	INDAPUR	Pune	Percolation Tank	74.7282	18.2549
230	Pithewadi	INDAPUR	Pune	Percolation Tank	74.9419	17.9413
231	Pithewadi	INDAPUR	Pune	Percolation Tank	74.9371	17.9451
232	Pithewadi	INDAPUR	Pune	Percolation Tank	74.9532	17.9485
233	Poundhawadi	INDAPUR	Pune	Percolation Tank	74.7459	18.2472
234	Reda	INDAPUR	Pune	Percolation Tank	74.917	18.0157
235	Reda	INDAPUR	Pune	Percolation Tank	74.911	18.0046
236	Reda	INDAPUR	Pune	Percolation Tank	74.909	18.0107
237	Reda	INDAPUR	Pune	Percolation Tank	74.9293	18.0112
238	Redani	INDAPUR	Pune	Percolation Tank	74.9114	17.9611
239	Redani	INDAPUR	Pune	Percolation Tank	74.9082	17.9859
240	Redani	INDAPUR	Pune	Percolation Tank	74.9142	17.9977
241	Redani	INDAPUR	Pune	Percolation Tank	74.9084	17.9815
242	Sarati	INDAPUR	Pune	Percolation Tank	75.0198	17.913
243	Shelgaon	INDAPUR	Pune	Percolation Tank	74.8205	18.0913
244	Shelgaon	INDAPUR	Pune	Percolation Tank	74.8305	18.1004
245	Sirsatwadi	INDAPUR	Pune	Percolation Tank	74.8273	18.0593
246	Tannu	INDAPUR	Pune	Percolation Tank	75.0876	17.9695
247	Thoratwadi	INDAPUR	Pune	Percolation Tank	74.8496	18.1698
248	Vakilwasti	INDAPUR	Pune	Percolation Tank	74.9965	17.9977
249	Varkute Bk.	INDAPUR	Pune	Percolation Tank	74.9732	18.1805
250	Varkute Bk.	INDAPUR	Pune	Percolation Tank	74.9664	18.2133
251	Varkute Bk.	INDAPUR	Pune	Percolation Tank	74.9489	18.2213
252	Varkute Kh.	INDAPUR	Pune	Percolation Tank	74.9315	18.0718
253	Alu	JUNNER	Pune	Percolation Tank	73.9479	19.3062
254	Ane	JUNNER	Pune	Percolation Tank	74.2411	19.1758
255	Ane	JUNNER	Pune	Percolation Tank	74.2407	19.1592
256	Arvi	JUNNER	Pune	Percolation Tank	73.9459	19.1383
257	Ballalwadi	JUNNER	Pune	Percolation Tank	73.9066	19.2664
258	Bangarwadi	JUNNER	Pune	Percolation Tank	74.182	19.1247
259	Belhe	JUNNER	Pune	Percolation Tank	74.1745	19.1158
260	Belhe	JUNNER	Pune	Percolation Tank	74.1799	19.1186
261	Bori Bk.	JUNNER	Pune	Percolation Tank	74.0859	19.1361
262	Bori Kh.	JUNNER	Pune	Percolation Tank	74.0815	19.1156
263	Dhalewadi Tarf Haveli	JUNNER	Pune	Percolation Tank	73.9367	19.177
264	Dholwad	JUNNER	Pune	Percolation Tank	73.9932	19.2171
265	Dumbarwadi	JUNNER	Pune	Percolation Tank	74.0037	19.2444
266	Gulanchwadi	JUNNER	Pune	Percolation Tank	74.2056	19.1421
267	Gulanchwadi	JUNNER	Pune	Percolation Tank	74.2076	19.1423

268	Gulanchwadi	JUNNER	Pune	Percolation Tank	74.2164	19.1522
269	Hivare Tarf Narayangaon	JUNNER	Pune	Percolation Tank	74.0017	19.083
270	Jadhav Wadi	JUNNER	Pune	Percolation Tank	74.1224	19.105
271	Kandali	JUNNER	Pune	Percolation Tank	74.035	19.1584
272	Khamgaon	JUNNER	Pune	Percolation Tank	73.8288	19.2475
273	Khodad	JUNNER	Pune	Percolation Tank	74.0494	19.0792
274	Khodad	JUNNER	Pune	Percolation Tank	74.0382	19.0842
275	Khodad	JUNNER	Pune	Percolation Tank	74.0221	19.0914
276	Kolwadi	JUNNER	Pune	Percolation Tank	73.8846	19.2978
277	Kombadwadi	JUNNER	Pune	Percolation Tank	74.1384	19.1039
278	Kumshet	JUNNER	Pune	Percolation Tank	73.9078	19.2266
279	Mangrul	JUNNER	Pune	Percolation Tank	74.1625	19.0591
280	Mangrul	JUNNER	Pune	Percolation Tank	74.1547	19.068
281	Mangrul	JUNNER	Pune	Percolation Tank	74.1783	19.0474
282	Mangrul	JUNNER	Pune	Percolation Tank	74.1795	19.0582
283	Nagadpadi	JUNNER	Pune	Percolation Tank	74.0558	19.1429
284	Nalawane	JUNNER	Pune	Percolation Tank	74.2102	19.1933
285	Nalawane	JUNNER	Pune	Percolation Tank	74.1866	19.1993
286	Narayangaon	JUNNER	Pune	Percolation Tank	73.9708	19.1213
287	Netwad	JUNNER	Pune	Percolation Tank	73.9547	19.241
288	Nimdari	JUNNER	Pune	Percolation Tank	73.8838	19.1357
289	Otur	JUNNER	Pune	Percolation Tank	73.9928	19.2338
290	Otur	JUNNER	Pune	Percolation Tank	73.9872	19.2361
291	Ozar	JUNNER	Pune	Percolation Tank	73.9499	19.1906
292	Pargaon Tarf Ale	JUNNER	Pune	Percolation Tank	74.1416	19.0667
293	Pimpalgaon Joga	JUNNER	Pune	Percolation Tank	73.9018	19.3145
294	Pimpalgaon Joga	JUNNER	Pune	Percolation Tank	73.9427	19.2971
295	Pimpalwandi	JUNNER	Pune	Percolation Tank	74.0763	19.1637
296	Pimpalwandi	JUNNER	Pune	Percolation Tank	74.0402	19.1838
297	Pimpalwandi	JUNNER	Pune	Percolation Tank	74.059	19.1671
298	Pimpalwandi	JUNNER	Pune	Percolation Tank	74.0642	19.183
299	Rajuri	JUNNER	Pune	Percolation Tank	74.1292	19.1258
300	Rajuri	JUNNER	Pune	Percolation Tank	74.1128	19.1281
301	Ranmalawadi	JUNNER	Pune	Percolation Tank	74.1803	19.0896
302	Sakori T Belhe	JUNNER	Pune	Percolation Tank	74.1729	19.0813
303	Sakori T Belhe	JUNNER	Pune	Percolation Tank	74.1479	19.0781
304	Sawargaon	JUNNER	Pune	Percolation Tank	73.897	19.127
305	Shindewadi	JUNNER	Pune	Percolation Tank	74.2203	19.1971
306	Shindewadi	JUNNER	Pune	Percolation Tank	74.2768	19.1933
307	Shindewadi	JUNNER	Pune	Percolation Tank	74.2856	19.1963
308	Shindewadi	JUNNER	Pune	Percolation Tank	74.2832	19.2039
309	Shindewadi	JUNNER	Pune	Percolation Tank	74.2211	19.1955
310	Shindewadi	JUNNER	Pune	Percolation Tank	74.2628	19.1959
311	Shiroli T Ale	JUNNER	Pune	Percolation Tank	74.0867	19.0974
312	Tejewadi	JUNNER	Pune	Percolation Tank	73.9459	19.2001

313	Udapur	JUNNER	Pune	Percolation Tank	73.9471	19.2774
314	Umbraj	JUNNER	Pune	Percolation Tank	74.0193	19.1891
315	Vadgaon Sahani	JUNNER	Pune	Percolation Tank	73.9146	19.1414
316	Warulwadi	JUNNER	Pune	Percolation Tank	73.9604	19.1171
317	Watkhale	JUNNER	Pune	Percolation Tank	73.8432	19.2941
318	Yedgaon	JUNNER	Pune	Percolation Tank	73.9832	19.1641
319	Yedgaon	JUNNER	Pune	Percolation Tank	73.9965	19.1584
320	Chakan	Khed	Pune	Percolation Tank	73.8812	18.7673
321	Chaudharwadi	Khed	Pune	Percolation Tank	74.0128	18.8617
322	Gonavadi	Khed	Pune	Percolation Tank	73.8401	18.8049
323	Kharpudi Bk.	Khed	Pune	Percolation Tank	73.9199	18.8032
324	Rakshewadi	Khed	Pune	Percolation Tank	73.8967	18.8419
325	Adhale bk	Maval	Pune	Percolation Tank	73.6124	18.6594
326	Nanoli N.m.	Maval	Pune	Percolation Tank	73.5908	18.787
327	Sangavi	Maval	Pune	Percolation Tank	73.641	18.7466
328	Talegaon Dabhade (R)	Maval	Pune	Percolation Tank	73.7072	18.7172
329	Bhare	Mulshi	Pune	Percolation Tank	73.6791	18.5242
330	Darawali	Mulshi	Pune	Percolation Tank	73.6377	18.5323
331	Kalamshet	Mulshi	Pune	Percolation Tank	73.5856	18.518
332	Man	Mulshi	Pune	Percolation Tank	73.7049	18.5767
333	Nandgaon	Mulshi	Pune	Percolation Tank	73.5585	18.5743
334	Sus	Mulshi	Pune	Percolation Tank	73.7542	18.5607
335	Watunde	Mulshi	Pune	Percolation Tank	73.5781	18.4415
336	Ambodi	PURANDHAR	Pune	Percolation Tank	74.0597	18.342
337	Chambali	PURANDHAR	Pune	Percolation Tank	73.9831	18.3707
338	Dhalewadi	PURANDHAR	Pune	Percolation Tank	74.1771	18.2951
339	Garade	PURANDHAR	Pune	Percolation Tank	73.9574	18.3407
340	Gulunche	PURANDHAR	Pune	Percolation Tank	74.2026	18.1412
341	Jadhavwadi (n.v.)	PURANDHAR	Pune	Percolation Tank	74.0249	18.3691
342	Jawalarjun	PURANDHAR	Pune	Percolation Tank	74.2495	18.2745
343	Kodit Bk.	PURANDHAR	Pune	Percolation Tank	73.9988	18.3433
344	Kothale	PURANDHAR	Pune	Percolation Tank	74.1651	18.3153
345	Mahur	PURANDHAR	Pune	Percolation Tank	74.0868	18.1793
346	Mandaki	PURANDHAR	Pune	Percolation Tank	74.1409	18.1314
347	Nazarekade Pathar	PURANDHAR	Pune	Percolation Tank	74.2146	18.3019
348	Nilanj	PURANDHAR	Pune	Percolation Tank	74.1292	18.312
349	Pandeshwar	PURANDHAR	Pune	Percolation Tank	74.2753	18.3313
350	Pimpre Kh.	PURANDHAR	Pune	Percolation Tank	74.1951	18.1174
351	Pimpri	PURANDHAR	Pune	Percolation Tank	74.212	18.3316
352	Ranamala (n.v.)	PURANDHAR	Pune	Percolation Tank	74.1902	18.3062
353	Samagirwasti (n.v.)	PURANDHAR	Pune	Percolation Tank	74.1162	18.1447
354	Veer	PURANDHAR	Pune	Percolation Tank	74.0852	18.1555
355	Walhe	PURANDHAR	Pune	Percolation Tank	74.1758	18.1584
356	Walhe	PURANDHAR	Pune	Percolation Tank	74.1811	18.1721
357	Amdabad	SHIRUR	Pune	Percolation Tank	74.2542	18.8532

358	Chincholi	SHIRUR	Pune	Percolation Tank	74.1571	18.8082
359	Choudhar Bend	SHIRUR	Pune	Percolation Tank	74.049	18.8177
360	Dhamari	SHIRUR	Pune	Percolation Tank	74.0984	18.8053
361	Dongargan	SHIRUR	Pune	Percolation Tank	74.2612	18.8643
362	Ganegaon Dumala	SHIRUR	Pune	Percolation Tank	74.5287	18.514
363	Ganegaon Dumala	SHIRUR	Pune	Percolation Tank	74.5435	18.5158
364	Golegaon	SHIRUR	Pune	Percolation Tank	74.3818	18.7881
365	Hivare	SHIRUR	Pune	Percolation Tank	74.1174	18.7507
366	Inamgaon	SHIRUR	Pune	Percolation Tank	74.5396	18.5881
367	Inamgaon	SHIRUR	Pune	Percolation Tank	74.5393	18.5775
368	Kendur	SHIRUR	Pune	Percolation Tank	74.0345	18.7814
369	Koregaon Bhima	SHIRUR	Pune	Percolation Tank	74.0557	18.6602
370	Koregaon Bhima	SHIRUR	Pune	Percolation Tank	74.0713	18.6361
371	Mandavgan Farata	SHIRUR	Pune	Percolation Tank	74.5037	18.519
372	Mandavgan Farata	SHIRUR	Pune	Percolation Tank	74.4748	18.5442
373	Nagargaon	SHIRUR	Pune	Percolation Tank	74.3992	18.5773
374	Nimgaon Bhogi	SHIRUR	Pune	Percolation Tank	74.2654	18.8204
375	Nimgaon Mhalungi	SHIRUR	Pune	Percolation Tank	74.2171	18.6996
376	Nimone	SHIRUR	Pune	Percolation Tank	74.4254	18.7264
377	Parodi	SHIRUR	Pune	Percolation Tank	74.2701	18.6726
378	Ranjangaon Ganpati	SHIRUR	Pune	Percolation Tank	74.2372	18.7221
379	Ranjangaon Ganpati	SHIRUR	Pune	Percolation Tank	74.2453	18.7277
380	Ranjangaon Sandas	SHIRUR	Pune	Percolation Tank	74.3528	18.5611
381	Shirasgaon Kata	SHIRUR	Pune	Percolation Tank	74.4734	18.6323
382	Shirasgaon Kata	SHIRUR	Pune	Percolation Tank	74.4935	18.6165
383	Shirasgaon Kata	SHIRUR	Pune	Percolation Tank	74.4852	18.6196
384	Shirur	SHIRUR	Pune	Percolation Tank	74.3285	18.8323
385	SHIRUR	SHIRUR	Pune	Percolation Tank	74.3366	18.8326
386	SHIRUR	SHIRUR	Pune	Percolation Tank	74.3785	18.8196
387	Sukrewadi	SHIRUR	Pune	Percolation Tank	74.068	18.7777
388	Takali Bhima	SHIRUR	Pune	Percolation Tank	74.2322	18.6625
389	Takali Haji	SHIRUR	Pune	Percolation Tank	74.2746	18.9075
390	Talegaon Dhamdhere	SHIRUR	Pune	Percolation Tank	74.154	18.6141
391	Tandali	SHIRUR	Pune	Percolation Tank	74.5675	18.5447
392	Uralgaon	SHIRUR	Pune	Percolation Tank	74.2847	18.6572
393	Vadgaon Rasai	SHIRUR	Pune	Percolation Tank	74.4369	18.5561
394	Vadner Kh.	SHIRUR	Pune	Percolation Tank	74.2249	18.9618
395	Vitthalwadi	SHIRUR	Pune	Percolation Tank	74.161	18.617
396	Vitthalwadi	SHIRUR	Pune	Percolation Tank	74.1894	18.6207
397	Wadhu Bk.	SHIRUR	Pune	Percolation Tank	74.0294	18.67
398	Waghale	SHIRUR	Pune	Percolation Tank	74.1925	18.7706
399	Adavali	VELHE	Pune	Percolation Tank	73.7514	18.2712
400	Ambavane	VELHE	Pune	Percolation Tank	73.8034	18.2754
401	Dapode	VELHE	Pune	Percolation Tank	73.6824	18.3002
402	Katavadi	VELHE	Pune	Percolation Tank	73.7625	18.3011

403	Kodavadi	VELHE	Pune	Percolation Tank	73.751	18.2583
404	Malavali	VELHE	Pune	Percolation Tank	73.7042	18.3055
405	Pal Bk.	VELHE	Pune	Percolation Tank	73.6693	18.2683
406	Phanshi	VELHE	Pune	Percolation Tank	73.7078	18.2679
407	Sonde Haroji	VELHE	Pune	Percolation Tank	73.8011	18.2479
408	Surawad	VELHE	Pune	Percolation Tank	73.7654	18.2592
409	Vajeghar Bk.	VELHE	Pune	Percolation Tank	73.672	18.2723
410	Vinzar	VELHE	Pune	Percolation Tank	73.7218	18.3124

Annexure VIII Location of proposed check dam in Pune district

S.No.	Village	Taluka	District	Structure	X	Y
1	Amondi	AMBEGAON	Pune	Checkdam	73.8348	19.092
2	Amondi	AMBEGAON	Pune	Checkdam	73.8396	19.098
3	Bharadi	AMBEGAON	Pune	Checkdam	74.0366	18.9942
4	Borghar	AMBEGAON	Pune	Checkdam	73.7289	19.139
5	Borghar	AMBEGAON	Pune	Checkdam	73.7358	19.1481
6	Chandoli Bk.	AMBEGAON	Pune	Checkdam	73.9848	19.0252
7	Chandoli Bk.	AMBEGAON	Pune	Checkdam	73.9896	19.04
8	Chinchodi	AMBEGAON	Pune	Checkdam	73.8805	19.0226
9	Gangapur Kh.	AMBEGAON	Pune	Checkdam	73.7967	19.109
10	Gangapur Kh.	AMBEGAON	Pune	Checkdam	73.7935	19.1212
11	Gavdewadi	AMBEGAON	Pune	Checkdam	73.9892	18.9619
12	Ghodegaon	AMBEGAON	Pune	Checkdam	73.8051	19.0251
13	Ghodegaon	AMBEGAON	Pune	Checkdam	73.8047	19.0338
14	Ghodegaon	AMBEGAON	Pune	Checkdam	73.8238	19.0336
15	Ghodegaon	AMBEGAON	Pune	Checkdam	73.8276	19.0398
16	Gohe Bk.	AMBEGAON	Pune	Checkdam	73.7474	19.0603
17	Gohe Bk.	AMBEGAON	Pune	Checkdam	73.7436	19.0685
18	Gohe Kh.	AMBEGAON	Pune	Checkdam	73.7352	19.0542
19	Gohe Kh.	AMBEGAON	Pune	Checkdam	73.7346	19.0605
20	Gohe Kh.	AMBEGAON	Pune	Checkdam	73.7159	19.0666
21	Jawale	AMBEGAON	Pune	Checkdam	74.0466	18.9873
22	Kalamb	AMBEGAON	Pune	Checkdam	73.9519	19.0522
23	Kalamb	AMBEGAON	Pune	Checkdam	73.9588	19.0635
24	Koltavade	AMBEGAON	Pune	Checkdam	73.7185	19.1003
25	Magholi	AMBEGAON	Pune	Checkdam	73.6511	19.1208
26	Mahalunge Padawal	AMBEGAON	Pune	Checkdam	73.9219	19.0719
27	Mahalunge Padawal	AMBEGAON	Pune	Checkdam	73.9215	19.0795
28	Mahalunge Padawal	AMBEGAON	Pune	Checkdam	73.9331	19.0518
29	Mahalunge Padawal	AMBEGAON	Pune	Checkdam	73.9283	19.0616
30	Malawadi	AMBEGAON	Pune	Checkdam	73.8621	19.0855
31	Malawadi	AMBEGAON	Pune	Checkdam	73.8705	19.0791
32	Mapoli	AMBEGAON	Pune	Checkdam	73.7362	19.085
33	Mapoli	AMBEGAON	Pune	Checkdam	73.7241	19.0717
34	Narodi	AMBEGAON	Pune	Checkdam	73.8898	19.0307
35	Phaladewadi Ugalewadi	AMBEGAON	Pune	Checkdam	73.7654	19.0615
36	Phaladewadi Ugalewadi	AMBEGAON	Pune	Checkdam	73.7705	19.0417
37	Phaladewadi Ugalewadi	AMBEGAON	Pune	Checkdam	73.7666	19.0425
38	Phulvade	AMBEGAON	Pune	Checkdam	73.759	19.1268
39	Phulvade	AMBEGAON	Pune	Checkdam	73.7682	19.1356
40	Phulvade	AMBEGAON	Pune	Checkdam	73.7747	19.1352
41	Pimpalgaon Tarf Ghoda	AMBEGAON	Pune	Checkdam	73.7873	19.0539
42	Pimpalgaon Tarf Ghoda	AMBEGAON	Pune	Checkdam	73.7935	19.0575

43	Pimpalgaon Tarf Ghoda	AMBEGAON	Pune	Checkdam	73.8021	19.0605
44	Pimpalgaon Tarf Ghoda	AMBEGAON	Pune	Checkdam	73.8114	19.0639
45	Pimpalgaon Tarf Ghoda	AMBEGAON	Pune	Checkdam	73.812	19.0692
46	Pinglewadi Landewadi	AMBEGAON	Pune	Checkdam	73.8735	19.0148
47	Pokhari	AMBEGAON	Pune	Checkdam	73.6828	19.0942
48	Rajpur	AMBEGAON	Pune	Checkdam	73.6114	19.1071
49	Ranjani	AMBEGAON	Pune	Checkdam	74.0418	19.0385
50	Sal	AMBEGAON	Pune	Checkdam	73.7995	19.0302
51	Savarli	AMBEGAON	Pune	Checkdam	73.619	19.1102
52	Shewalwadi Varchilandewad	AMBEGAON	Pune	Checkdam	73.91	19.0006
53	Shinoli	AMBEGAON	Pune	Checkdam	73.7841	19.0749
54	Shinoli	AMBEGAON	Pune	Checkdam	73.7847	19.0652
55	Shinoli	AMBEGAON	Pune	Checkdam	73.7899	19.0706
56	Thakarwadi	AMBEGAON	Pune	Checkdam	73.895	19.0798
57	Vachalmala	AMBEGAON	Pune	Checkdam	74.0017	18.9741
58	Vadgaon Kashimbeg	AMBEGAON	Pune	Checkdam	73.9172	19.007
59	Vadgaon Kashimbeg	AMBEGAON	Pune	Checkdam	73.9178	19.0196
60	Ambi Bk	BARAMATI	Pune	Checkdam	74.2758	18.2636
61	Anjangaon	BARAMATI	Pune	Checkdam	74.5047	18.2142
62	Anjangaon	BARAMATI	Pune	Checkdam	74.5001	18.2227
63	Anjangaon	BARAMATI	Pune	Checkdam	74.4926	18.2188
64	Anjangaon	BARAMATI	Pune	Checkdam	74.4842	18.2276
65	Anjangaon	BARAMATI	Pune	Checkdam	74.4806	18.2387
66	Anjangaon	BARAMATI	Pune	Checkdam	74.5013	18.1995
67	Anjangaon	BARAMATI	Pune	Checkdam	74.4876	18.2021
68	Anjangaon	BARAMATI	Pune	Checkdam	74.4683	18.2089
69	Barhanpur	BARAMATI	Pune	Checkdam	74.5278	18.2031
70	Barhanpur	BARAMATI	Pune	Checkdam	74.5256	18.2132
71	Barhanpur	BARAMATI	Pune	Checkdam	74.5226	18.2188
72	Barhanpur	BARAMATI	Pune	Checkdam	74.5181	18.2067
73	Barhanpur	BARAMATI	Pune	Checkdam	74.5156	18.1995
74	Chandgude Wadi	BARAMATI	Pune	Checkdam	74.3138	18.3027
75	Deulgaon Rasal	BARAMATI	Pune	Checkdam	74.4603	18.2657
76	Deulgaon Rasal	BARAMATI	Pune	Checkdam	74.4633	18.2768
77	Gadikhelwadi (nv)	BARAMATI	Pune	Checkdam	74.6128	18.2655
78	Gadikhelwadi (nv)	BARAMATI	Pune	Checkdam	74.6164	18.2831
79	Gadikhelwadi (nv)	BARAMATI	Pune	Checkdam	74.5963	18.2621
80	Gadikhelwadi (nv)	BARAMATI	Pune	Checkdam	74.6032	18.2653
81	Gadikhelwadi (nv)	BARAMATI	Pune	Checkdam	74.6117	18.2821
82	Gojubavi	BARAMATI	Pune	Checkdam	74.5634	18.2318
83	Gojubavi	BARAMATI	Pune	Checkdam	74.5693	18.2286
84	Gojubavi	BARAMATI	Pune	Checkdam	74.5618	18.2214
85	Jainakwadi	BARAMATI	Pune	Checkdam	74.6451	18.2459
86	Jalgaon Kade Pathar	BARAMATI	Pune	Checkdam	74.455	18.2145

87	Jalgaon Kade Pathar	BARAMATI	Pune	Checkdam	74.4413	18.2216
88	Jalgaon Supe	BARAMATI	Pune	Checkdam	74.4708	18.2361
89	Jalgaon Supe	BARAMATI	Pune	Checkdam	74.4603	18.2504
90	Jalgaon Supe	BARAMATI	Pune	Checkdam	74.4354	18.2559
91	Jaradwadi	BARAMATI	Pune	Checkdam	74.5197	18.254
92	Karhati	BARAMATI	Pune	Checkdam	74.418	18.2595
93	Karhati	BARAMATI	Pune	Checkdam	74.4105	18.2768
94	Karhati	BARAMATI	Pune	Checkdam	74.4173	18.2771
95	Karhati	BARAMATI	Pune	Checkdam	74.4325	18.2673
96	Karhati	BARAMATI	Pune	Checkdam	74.4028	18.266
97	Karhati	BARAMATI	Pune	Checkdam	74.3976	18.2816
98	Khandaj	BARAMATI	Pune	Checkdam	74.5301	18.0976
99	Khandaj	BARAMATI	Pune	Checkdam	74.5383	18.0836
100	Kharade Wadi	BARAMATI	Pune	Checkdam	74.497	18.3046
101	Malegaon Bk	BARAMATI	Pune	Checkdam	74.521	18.1283
102	Malegaon Kh.	BARAMATI	Pune	Checkdam	74.5102	18.14
103	Medad	BARAMATI	Pune	Checkdam	74.515	18.1756
104	Morgaon	BARAMATI	Pune	Checkdam	74.3143	18.2542
105	Morgaon	BARAMATI	Pune	Checkdam	74.317	18.2574
106	Morgaon	BARAMATI	Pune	Checkdam	74.2958	18.259
107	Morgaon	BARAMATI	Pune	Checkdam	74.3006	18.2633
108	Morgaon	BARAMATI	Pune	Checkdam	74.2854	18.269
109	Morgaon	BARAMATI	Pune	Checkdam	74.2875	18.2524
110	Morgaon	BARAMATI	Pune	Checkdam	74.3094	18.2498
111	Nepat Valan	BARAMATI	Pune	Checkdam	74.4974	18.1822
112	Nimbodi	BARAMATI	Pune	Checkdam	74.6849	18.2919
113	Nirvagaj	BARAMATI	Pune	Checkdam	74.551	18.0719
114	Pandare	BARAMATI	Pune	Checkdam	74.474	18.1286
115	Pansarewadi	BARAMATI	Pune	Checkdam	74.3858	18.2956
116	Pansarewadi	BARAMATI	Pune	Checkdam	74.3858	18.3093
117	Pansarewadi	BARAMATI	Pune	Checkdam	74.3907	18.3224
118	Parwadi	BARAMATI	Pune	Checkdam	74.6402	18.2681
119	Parwadi	BARAMATI	Pune	Checkdam	74.6464	18.2782
120	Parwadi	BARAMATI	Pune	Checkdam	74.6598	18.2795
121	Parwadi	BARAMATI	Pune	Checkdam	74.6669	18.2873
122	Parwadi	BARAMATI	Pune	Checkdam	74.6558	18.289
123	Parwadi	BARAMATI	Pune	Checkdam	74.6428	18.2922
124	Parwadi	BARAMATI	Pune	Checkdam	74.6467	18.2593
125	Parwadi	BARAMATI	Pune	Checkdam	74.6692	18.2945
126	Parwadi	BARAMATI	Pune	Checkdam	74.6591	18.2723
127	Parwadi	BARAMATI	Pune	Checkdam	74.6324	18.2815
128	Parwadi	BARAMATI	Pune	Checkdam	74.6262	18.2847
129	Pawnewadi	BARAMATI	Pune	Checkdam	74.5292	18.1143
130	Rui	BARAMATI	Pune	Checkdam	74.6216	18.1955
131	Rui	BARAMATI	Pune	Checkdam	74.6216	18.1955

132	Sawantwadi	BARAMATI	Pune	Checkdam	74.5575	18.2113
133	Shirawali	BARAMATI	Pune	Checkdam	74.5018	18.082
134	Shirawali	BARAMATI	Pune	Checkdam	74.4917	18.0901
135	Sonvadisupe	BARAMATI	Pune	Checkdam	74.4988	18.2374
136	Sonvadisupe	BARAMATI	Pune	Checkdam	74.4789	18.2471
137	Sonvadisupe	BARAMATI	Pune	Checkdam	74.4773	18.2563
138	Sonvadisupe	BARAMATI	Pune	Checkdam	74.4812	18.269
139	Supe	BARAMATI	Pune	Checkdam	74.3516	18.293
140	Supe	BARAMATI	Pune	Checkdam	74.3545	18.3054
141	Supe	BARAMATI	Pune	Checkdam	74.3552	18.3146
142	Supe	BARAMATI	Pune	Checkdam	74.348	18.3243
143	Tandulwadi	BARAMATI	Pune	Checkdam	74.553	18.1969
144	Tandulwadi	BARAMATI	Pune	Checkdam	74.5598	18.2025
145	Tardoli	BARAMATI	Pune	Checkdam	74.3297	18.2569
146	Undavadi Kade Pathar	BARAMATI	Pune	Checkdam	74.5288	18.2266
147	Undavadi Kade Pathar	BARAMATI	Pune	Checkdam	74.5327	18.2429
148	Undavadi Kade Pathar	BARAMATI	Pune	Checkdam	74.5432	18.252
149	Undavadi Kade Pathar	BARAMATI	Pune	Checkdam	74.5513	18.2621
150	Undavadi Kade Pathar	BARAMATI	Pune	Checkdam	74.5213	18.2334
151	Undavadi Kade Pathar	BARAMATI	Pune	Checkdam	74.5217	18.2481
152	Undavadi Kade Pathar	BARAMATI	Pune	Checkdam	74.5606	18.2612
153	Undavadisupe	BARAMATI	Pune	Checkdam	74.5093	18.2687
154	Undavadisupe	BARAMATI	Pune	Checkdam	74.5181	18.2726
155	Vanjarwadi	BARAMATI	Pune	Checkdam	74.6164	18.2084
156	Yelewasti	BARAMATI	Pune	Checkdam	74.4812	18.1133
157	Dehen	BHOR	Pune	Checkdam	73.7087	18.1695
158	Kari	BHOR	Pune	Checkdam	73.7626	18.0848
159	Kondgaon	BHOR	Pune	Checkdam	73.6882	18.1549
160	Kondgaon	BHOR	Pune	Checkdam	73.694	18.1618
161	Mahude Kh.	BHOR	Pune	Checkdam	73.7621	18.1551
162	Mahude Kh.	BHOR	Pune	Checkdam	73.776	18.158
163	Mhasar Kh.	BHOR	Pune	Checkdam	73.7089	18.1349
164	Salungan	BHOR	Pune	Checkdam	73.6664	18.1491
165	Betwadi	DAUND	Pune	Checkdam	74.517	18.478
166	Boribel	DAUND	Pune	Checkdam	74.6497	18.409
167	Boripardhi	DAUND	Pune	Checkdam	74.3991	18.4667
168	Chincholi	DAUND	Pune	Checkdam	74.7462	18.3345
169	Chincholi	DAUND	Pune	Checkdam	74.7275	18.3391
170	Chincholi	DAUND	Pune	Checkdam	74.7135	18.3439
171	Dapodi	DAUND	Pune	Checkdam	74.4008	18.5191
172	DAUND	DAUND	Pune	Checkdam	74.5914	18.4489
173	DAUND	DAUND	Pune	Checkdam	74.5649	18.4456
174	Deshmukh Mala	DAUND	Pune	Checkdam	74.3644	18.5114
175	Deulgaon Raje	DAUND	Pune	Checkdam	74.6592	18.4319

176	Deulgaon Raje	DAUND	Pune	Checkdam	74.6692	18.451
177	Ekeriwadi	DAUND	Pune	Checkdam	74.3146	18.5282
178	Gadewadi	DAUND	Pune	Checkdam	74.6635	18.389
179	Girim	DAUND	Pune	Checkdam	74.5196	18.4362
180	Girim	DAUND	Pune	Checkdam	74.5362	18.4406
181	Girim	DAUND	Pune	Checkdam	74.5326	18.4555
182	Gopalwadi	DAUND	Pune	Checkdam	74.563	18.4378
183	Hingani Berdi	DAUND	Pune	Checkdam	74.7102	18.4306
184	Kadamwasti	DAUND	Pune	Checkdam	74.6453	18.4271
185	Kadethanwadi	DAUND	Pune	Checkdam	74.4264	18.4841
186	Kadethanwadi	DAUND	Pune	Checkdam	74.4531	18.482
187	Kamatwadi	DAUND	Pune	Checkdam	74.2445	18.4846
188	Khadaki	DAUND	Pune	Checkdam	74.7033	18.3497
189	Khadaki	DAUND	Pune	Checkdam	74.6801	18.3219
190	Khadaki	DAUND	Pune	Checkdam	74.696	18.3262
191	Khadaki	DAUND	Pune	Checkdam	74.7076	18.3254
192	Khadaki	DAUND	Pune	Checkdam	74.6714	18.3329
193	Khadaki	DAUND	Pune	Checkdam	74.6759	18.3477
194	Khadaki	DAUND	Pune	Checkdam	74.6663	18.3546
195	Khopodi	DAUND	Pune	Checkdam	74.3747	18.5087
196	Khorodi	DAUND	Pune	Checkdam	74.6205	18.4255
197	Kurkumbh	DAUND	Pune	Checkdam	74.5393	18.396
198	Ladkatwadi	DAUND	Pune	Checkdam	74.283	18.5249
199	Lonarwadi	DAUND	Pune	Checkdam	74.6864	18.3707
200	Maladpatas	DAUND	Pune	Checkdam	74.6031	18.3625
201	Malthan	DAUND	Pune	Checkdam	74.7407	18.3585
202	Malthan	DAUND	Pune	Checkdam	74.7367	18.3682
203	Malthan	DAUND	Pune	Checkdam	74.7108	18.3841
204	Malwadi	DAUND	Pune	Checkdam	74.5997	18.4253
205	Masanarwadi	DAUND	Pune	Checkdam	74.5938	18.4428
206	Nandadevi	DAUND	Pune	Checkdam	74.6426	18.3221
207	Nandadevi	DAUND	Pune	Checkdam	74.6326	18.3406
208	Nathachiwadi	DAUND	Pune	Checkdam	74.297	18.5164
209	Pargaon	DAUND	Pune	Checkdam	74.3512	18.5326
210	Patas	DAUND	Pune	Checkdam	74.4544	18.4522
211	Patas	DAUND	Pune	Checkdam	74.4685	18.4295
212	Patas	DAUND	Pune	Checkdam	74.4906	18.4613
213	Patas	DAUND	Pune	Checkdam	74.4425	18.461
214	Pedgaon	DAUND	Pune	Checkdam	74.6918	18.4854
215	Pilanwadi	DAUND	Pune	Checkdam	74.2321	18.559
216	Ravangaon	DAUND	Pune	Checkdam	74.6342	18.3579
217	Shirapur	DAUND	Pune	Checkdam	74.7002	18.4441
218	Shirapur	DAUND	Pune	Checkdam	74.7118	18.4533
219	Tambewadi	DAUND	Pune	Checkdam	74.2439	18.521
220	Tambewadi	DAUND	Pune	Checkdam	74.2411	18.5037

221	Undawadi	DAUND	Pune	Checkdam	74.261	18.5173
222	Warwand	DAUND	Pune	Checkdam	74.4137	18.4653
223	Yawat	DAUND	Pune	Checkdam	74.2707	18.4878
224	Agalambe	HAVELI	Pune	Checkdam	73.7186	18.4258
225	Ahire	HAVELI	Pune	Checkdam	73.7331	18.4548
226	Ahire	HAVELI	Pune	Checkdam	73.7159	18.4523
227	Alandi Mhatobachi	HAVELI	Pune	Checkdam	74.0692	18.4401
228	Ambee	HAVELI	Pune	Checkdam	73.6417	18.3474
229	Ambee	HAVELI	Pune	Checkdam	73.6398	18.3604
230	Ambee	HAVELI	Pune	Checkdam	73.6382	18.3709
231	Ambegaon Kh.	HAVELI	Pune	Checkdam	73.8435	18.4416
232	Ashtapur	HAVELI	Pune	Checkdam	74.1314	18.5515
233	Ashtapur	HAVELI	Pune	Checkdam	74.1218	18.5561
234	Awhalwadi	HAVELI	Pune	Checkdam	73.9679	18.5739
235	Awhalwadi	HAVELI	Pune	Checkdam	73.9663	18.5627
236	Bakori	HAVELI	Pune	Checkdam	74.0526	18.5998
237	Bakori	HAVELI	Pune	Checkdam	74.0344	18.5968
238	Bakori	HAVELI	Pune	Checkdam	74.0408	18.5988
239	Bakori	HAVELI	Pune	Checkdam	74.0591	18.5947
240	Bakori	HAVELI	Pune	Checkdam	74.0526	18.5912
241	Baner	HAVELI	Pune	Checkdam	73.798	18.5581
242	Baner	HAVELI	Pune	Checkdam	73.7872	18.5571
243	Baner	HAVELI	Pune	Checkdam	73.7776	18.5602
244	Bhawadi	HAVELI	Pune	Checkdam	73.9888	18.6197
245	BOPKHEL	HAVELI	Pune	Checkdam	73.8355	18.6044
246	BOPKHEL	HAVELI	Pune	Checkdam	73.8623	18.5937
247	BOPKHEL	HAVELI	Pune	Checkdam	73.8623	18.611
248	Borhadewadi	HAVELI	Pune	Checkdam	73.8366	18.668
249	Charholi Bk.	HAVELI	Pune	Checkdam	73.924	18.6355
250	Charholi Bk.	HAVELI	Pune	Checkdam	73.9073	18.6451
251	Charholi Bk.	HAVELI	Pune	Checkdam	73.8966	18.637
252	Chovisawadi (N.V.)	HAVELI	Pune	Checkdam	73.8811	18.6482
253	Chovisawadi (N.V.)	HAVELI	Pune	Checkdam	73.8899	18.645
254	DEHU	HAVELI	Pune	Checkdam	73.7669	18.7128
255	DEHU ROAD	HAVELI	Pune	Checkdam	73.7524	18.6517
256	Dhanori	HAVELI	Pune	Checkdam	73.8966	18.5958
257	Dhanori	HAVELI	Pune	Checkdam	73.8934	18.58
258	Dhayari	HAVELI	Pune	Checkdam	73.8092	18.4421
259	Dighi	HAVELI	Pune	Checkdam	73.8741	18.6143
260	Donaje	HAVELI	Pune	Checkdam	73.7637	18.406
261	Donaje	HAVELI	Pune	Checkdam	73.7679	18.4157
262	Dongargaon	HAVELI	Pune	Checkdam	74.0826	18.6003
263	Dongargaon	HAVELI	Pune	Checkdam	74.0842	18.6202
264	Fulgaon	HAVELI	Pune	Checkdam	74.0242	18.6528
265	Fulgaon	HAVELI	Pune	Checkdam	74.0199	18.643

266	Fursungi	HAVELI	Pune	Checkdam	73.9738	18.4681
267	Fursungi	HAVELI	Pune	Checkdam	73.991	18.4589
268	HADAPSAR	HAVELI	Pune	Checkdam	73.9368	18.4955
269	HADAPSAR	HAVELI	Pune	Checkdam	73.9282	18.4991
270	Hingangaon	HAVELI	Pune	Checkdam	74.1582	18.5454
271	Kadamwak Wasti	HAVELI	Pune	Checkdam	74.0038	18.4889
272	KALAS	HAVELI	Pune	Checkdam	73.8795	18.5912
273	Katraj	HAVELI	Pune	Checkdam	73.8644	18.4589
274	Kesnand	HAVELI	Pune	Checkdam	74.0231	18.5703
275	Kesnand	HAVELI	Pune	Checkdam	74.0339	18.549
276	Kesnand	HAVELI	Pune	Checkdam	74.0274	18.5591
277	Khamgaon Tek	HAVELI	Pune	Checkdam	74.1749	18.5235
278	Khamgaon Tek	HAVELI	Pune	Checkdam	74.1636	18.5154
279	KHARADI	HAVELI	Pune	Checkdam	73.9454	18.5602
280	Kirkatwadi	HAVELI	Pune	Checkdam	73.7947	18.4289
281	Kirkatwadi	HAVELI	Pune	Checkdam	73.7899	18.4416
282	Kondhave Bk.	HAVELI	Pune	Checkdam	73.8902	18.4441
283	Kondhave Dhawade	HAVELI	Pune	Checkdam	73.7626	18.4681
284	Kondhave Dhawade	HAVELI	Pune	Checkdam	73.7529	18.4533
285	Kondhave Dhawade	HAVELI	Pune	Checkdam	73.7368	18.465
286	Kondhave Kh.	HAVELI	Pune	Checkdam	73.8875	18.464
287	Kondhave Kh.	HAVELI	Pune	Checkdam	73.8923	18.4721
288	Koregaon Mul	HAVELI	Pune	Checkdam	74.1089	18.5154
289	Koregaon Mul	HAVELI	Pune	Checkdam	74.1116	18.4798
290	Kudalewadi (N.V.)	HAVELI	Pune	Checkdam	73.8253	18.6741
291	Kunjirwadi	HAVELI	Pune	Checkdam	74.0478	18.4798
292	LOHAGAON	HAVELI	Pune	Checkdam	73.9089	18.5963
293	LOHAGAON	HAVELI	Pune	Checkdam	73.9459	18.5744
294	LOHAGAON	HAVELI	Pune	Checkdam	73.9395	18.5668
295	LOHAGAON	HAVELI	Pune	Checkdam	73.9309	18.5927
296	LOHAGAON	HAVELI	Pune	Checkdam	73.9489	18.6105
297	Loni-kalbhor	HAVELI	Pune	Checkdam	74.0146	18.4574
298	Loni-kalbhor	HAVELI	Pune	Checkdam	74.0446	18.4494
299	Loni-kalbhor	HAVELI	Pune	Checkdam	74.0446	18.4616
300	Loni-kalbhor	HAVELI	Pune	Checkdam	74.0317	18.4748
301	Loni-kand	HAVELI	Pune	Checkdam	74.0194	18.6161
302	Loni-kand	HAVELI	Pune	Checkdam	74.0274	18.6248
303	Loni-kand	HAVELI	Pune	Checkdam	74.0087	18.6206
304	Moshi	HAVELI	Pune	Checkdam	73.8521	18.6706
305	Naigaon	HAVELI	Pune	Checkdam	74.0955	18.5113
306	Nanded	HAVELI	Pune	Checkdam	73.8039	18.4538
307	Nandoshi	HAVELI	Pune	Checkdam	73.8017	18.4157
308	Narhe	HAVELI	Pune	Checkdam	73.8216	18.438
309	Newanle Morwadi (N.V.)	HAVELI	Pune	Checkdam	73.7985	18.6792

310	Nhavi Sandas	HAVELI	Pune	Checkdam	74.1523	18.5947
311	Nirgudi	HAVELI	Pune	Checkdam	73.9398	18.6369
312	Perane	HAVELI	Pune	Checkdam	74.0628	18.6131
313	Perane	HAVELI	Pune	Checkdam	74.0446	18.6253
314	Perane	HAVELI	Pune	Checkdam	74.0473	18.6044
315	Peth	HAVELI	Pune	Checkdam	74.0832	18.5011
316	Peth	HAVELI	Pune	Checkdam	74.095	18.4997
317	PIMPRI CHINCHWAD	HAVELI	Pune	Checkdam	73.8451	18.6207
318	PIMPRI CHINCHWAD	HAVELI	Pune	Checkdam	73.8248	18.6238
319	PIMPRI CHINCHWAD	HAVELI	Pune	Checkdam	73.8199	18.6146
320	PIMPRI CHINCHWAD	HAVELI	Pune	Checkdam	73.7985	18.6278
321	PIMPRI CHINCHWAD	HAVELI	Pune	Checkdam	73.8119	18.6416
322	PIMPRI CHINCHWAD	HAVELI	Pune	Checkdam	73.7824	18.6426
323	PIMPRI CHINCHWAD	HAVELI	Pune	Checkdam	73.7797	18.6589
324	PIMPRI CHINCHWAD	HAVELI	Pune	Checkdam	73.828	18.638
325	PIMPRI CHINCHWAD	HAVELI	Pune	Checkdam	73.7878	18.579
326	PIMPRI CHINCHWAD	HAVELI	Pune	Checkdam	73.8634	18.6204
327	Pimpri Sandas	HAVELI	Pune	Checkdam	74.1202	18.5937
328	Pimpri Sandas	HAVELI	Pune	Checkdam	74.1191	18.6095
329	Pimpri Sandas	HAVELI	Pune	Checkdam	74.1389	18.5922
330	PUNE Cantonment	HAVELI	Pune	Checkdam	73.8988	18.5098
331	PUNE CITY	HAVELI	Pune	Checkdam	73.8291	18.553
332	PUNE CITY	HAVELI	Pune	Checkdam	73.8323	18.5296
333	PUNE CITY	HAVELI	Pune	Checkdam	73.866	18.491
334	PUNE CITY	HAVELI	Pune	Checkdam	73.9384	18.5286
335	PUNE CITY	HAVELI	Pune	Checkdam	73.8966	18.4833
336	PUNE CITY	HAVELI	Pune	Checkdam	73.8982	18.4955
337	PUNE CITY	HAVELI	Pune	Checkdam	73.9009	18.5281
338	Ramoswadi	HAVELI	Pune	Checkdam	74.0596	18.465
339	Shewalwadi	HAVELI	Pune	Checkdam	73.9722	18.4874
340	Shindwane	HAVELI	Pune	Checkdam	74.1282	18.4747
341	Shiraswadi	HAVELI	Pune	Checkdam	74.1068	18.5525
342	Shiraswadi	HAVELI	Pune	Checkdam	74.1041	18.5683
343	Shiraswadi	HAVELI	Pune	Checkdam	74.0918	18.5759
344	Shiraswadi	HAVELI	Pune	Checkdam	74.1057	18.5444
345	Sortapwadi	HAVELI	Pune	Checkdam	74.0918	18.4803
346	Tarade	HAVELI	Pune	Checkdam	74.088	18.467
347	Tarade	HAVELI	Pune	Checkdam	74.0998	18.4665
348	Tulapur	HAVELI	Pune	Checkdam	73.9936	18.6543
349	Undri	HAVELI	Pune	Checkdam	73.9073	18.4599
350	Uruli Kanchan	HAVELI	Pune	Checkdam	74.1389	18.5133
351	Uruli Kanchan	HAVELI	Pune	Checkdam	74.1261	18.496
352	Uruli Kanchan	HAVELI	Pune	Checkdam	74.1379	18.4803
353	Uruli Kanchan	HAVELI	Pune	Checkdam	74.1432	18.5006
354	Uruli-dewachi	HAVELI	Pune	Checkdam	73.9459	18.4431

355	Uruli-dewachi	HAVELI	Pune	Checkdam	73.9395	18.4513
356	VADGAON BK.	HAVELI	Pune	Checkdam	73.8253	18.4604
357	VADGAON SHERI	HAVELI	Pune	Checkdam	73.9073	18.5515
358	Vitthal Nagar	HAVELI	Pune	Checkdam	73.7765	18.698
359	Vitthal Nagar	HAVELI	Pune	Checkdam	73.7744	18.6843
360	Wade Bolhai	HAVELI	Pune	Checkdam	74.0816	18.5678
361	Wade Bolhai	HAVELI	Pune	Checkdam	74.0757	18.554
362	Wade Bolhai	HAVELI	Pune	Checkdam	74.0682	18.5561
363	Wade Bolhai	HAVELI	Pune	Checkdam	74.0564	18.552
364	Wade Bolhai	HAVELI	Pune	Checkdam	74.0676	18.5678
365	Wade Bolhai	HAVELI	Pune	Checkdam	74.0593	18.5665
366	Wadgaon-shinde	HAVELI	Pune	Checkdam	73.9545	18.6207
367	Wadki	HAVELI	Pune	Checkdam	73.9888	18.4319
368	Wadki	HAVELI	Pune	Checkdam	73.976	18.4518
369	Wadmukhwadi (N.V.)	HAVELI	Pune	Checkdam	73.8853	18.6578
370	Wagholi	HAVELI	Pune	Checkdam	74.0116	18.6023
371	WARJE	HAVELI	Pune	Checkdam	73.8135	18.5037
372	WARJE	HAVELI	Pune	Checkdam	73.8044	18.5423
373	WARJE	HAVELI	Pune	Checkdam	73.798	18.4843
374	WARJE	HAVELI	Pune	Checkdam	73.7926	18.5378
375	Agoti No.1	INDAPUR	Pune	Checkdam	74.9711	18.2338
376	Agoti No.2	INDAPUR	Pune	Checkdam	74.9707	18.2239
377	Ajoti	INDAPUR	Pune	Checkdam	75.0846	18.166
378	Ajoti	INDAPUR	Pune	Checkdam	75.0874	18.1709
379	Anthurne	INDAPUR	Pune	Checkdam	74.8002	18.1274
380	Anthurne	INDAPUR	Pune	Checkdam	74.7926	18.074
381	Anthurne	INDAPUR	Pune	Checkdam	74.8054	18.068
382	Anthurne	INDAPUR	Pune	Checkdam	74.8062	18.0767
383	Awasari	INDAPUR	Pune	Checkdam	75.0272	18.0372
384	Babhulgaon	INDAPUR	Pune	Checkdam	75.0685	18.0513
385	Balpudi	INDAPUR	Pune	Checkdam	74.9362	18.1691
386	Balpudi	INDAPUR	Pune	Checkdam	74.937	18.1794
387	Bandgarwadi (nv)	INDAPUR	Pune	Checkdam	74.7709	18.254
388	Bandgarwadi (nv)	INDAPUR	Pune	Checkdam	74.7709	18.2624
389	Bawada	INDAPUR	Pune	Checkdam	74.9843	17.9957
390	Bawada	INDAPUR	Pune	Checkdam	74.9999	17.9835
391	Bawada	INDAPUR	Pune	Checkdam	75.0088	17.9472
392	Bawada	INDAPUR	Pune	Checkdam	75.0152	17.9556
393	Bedshinge	INDAPUR	Pune	Checkdam	75.0344	18.0517
394	Bhadalwadi	INDAPUR	Pune	Checkdam	74.7689	18.2262
395	Bhat Nimgaon	INDAPUR	Pune	Checkdam	75.0713	18.0395
396	Bhawadi	INDAPUR	Pune	Checkdam	74.9506	18.2277
397	Bhawadi	INDAPUR	Pune	Checkdam	74.955	18.2391
398	BHIGWAN	INDAPUR	Pune	Checkdam	74.7669	18.3027
399	BHIGWAN	INDAPUR	Pune	Checkdam	74.7709	18.3123

400	BHIGWAN	INDAPUR	Pune	Checkdam	74.7725	18.3203
401	BHIGWAN	INDAPUR	Pune	Checkdam	74.7633	18.3104
402	Bhodani	INDAPUR	Pune	Checkdam	74.9679	17.9957
403	Bhodani	INDAPUR	Pune	Checkdam	74.9598	17.9984
404	Birgundwadi	INDAPUR	Pune	Checkdam	74.7725	18.1442
405	Birgundwadi	INDAPUR	Pune	Checkdam	74.7713	18.1522
406	Bori	INDAPUR	Pune	Checkdam	74.73	18.1194
407	Bori	INDAPUR	Pune	Checkdam	74.73	18.1137
408	Bori	INDAPUR	Pune	Checkdam	74.7425	18.1232
409	Bori	INDAPUR	Pune	Checkdam	74.7453	18.1301
410	Bori	INDAPUR	Pune	Checkdam	74.7557	18.1282
411	Bori	INDAPUR	Pune	Checkdam	74.7597	18.1335
412	Bori	INDAPUR	Pune	Checkdam	74.7605	18.1423
413	Chakati	INDAPUR	Pune	Checkdam	74.9366	17.9533
414	Chakati	INDAPUR	Pune	Checkdam	74.9342	17.9632
415	Chandgaon	INDAPUR	Pune	Checkdam	74.9542	18.2509
416	Dalaj No.2	INDAPUR	Pune	Checkdam	74.8195	18.2163
417	Dalaj No.2	INDAPUR	Pune	Checkdam	74.8207	18.2235
418	Dalaj No.2	INDAPUR	Pune	Checkdam	74.8247	18.2323
419	Dalaj No.2	INDAPUR	Pune	Checkdam	74.805	18.2254
420	Dalaj No.2	INDAPUR	Pune	Checkdam	74.8074	18.2368
421	Dikasal	INDAPUR	Pune	Checkdam	74.7922	18.3119
422	Giravi	INDAPUR	Pune	Checkdam	75.0826	17.9449
423	Gokhali	INDAPUR	Pune	Checkdam	74.9723	18.097
424	Gokhali	INDAPUR	Pune	Checkdam	74.9614	18.1035
425	Gokhali	INDAPUR	Pune	Checkdam	74.9831	18.1012
426	Gondi	INDAPUR	Pune	Checkdam	75.0449	17.9282
427	Gosaviwadi	INDAPUR	Pune	Checkdam	74.8167	18.1796
428	Gosaviwadi	INDAPUR	Pune	Checkdam	74.8167	18.1739
429	Gosaviwadi	INDAPUR	Pune	Checkdam	74.8235	18.1751
430	Gotandi	INDAPUR	Pune	Checkdam	74.8427	18.0493
431	Gotandi	INDAPUR	Pune	Checkdam	74.8632	18.042
432	Gotandi	INDAPUR	Pune	Checkdam	74.8652	18.0489
433	Gotandi	INDAPUR	Pune	Checkdam	74.8664	18.0557
434	Gotandi	INDAPUR	Pune	Checkdam	74.8676	18.0657
435	Gotandi	INDAPUR	Pune	Checkdam	74.87	18.0721
436	Gotandi	INDAPUR	Pune	Checkdam	74.8748	18.0794
437	Gotandi	INDAPUR	Pune	Checkdam	74.8888	18.0548
438	Gotandi	INDAPUR	Pune	Checkdam	74.8876	18.065
439	Gotandi	INDAPUR	Pune	Checkdam	74.8872	18.0727
440	Hangarwadi	INDAPUR	Pune	Checkdam	74.8664	18.0943
441	Hangarwadi	INDAPUR	Pune	Checkdam	74.8616	18.0897
442	Hangarwadi	INDAPUR	Pune	Checkdam	74.8451	18.0782
443	Hingangaon	INDAPUR	Pune	Checkdam	75.0834	18.0784
444	Hingangaon	INDAPUR	Pune	Checkdam	75.089	18.0837

445	Hingangaon	INDAPUR	Pune	Checkdam	75.091	18.0898
446	INDAPUR	INDAPUR	Pune	Checkdam	75.0621	18.1329
447	INDAPUR	INDAPUR	Pune	Checkdam	75.0272	18.1081
448	INDAPUR	INDAPUR	Pune	Checkdam	75.04	18.1016
449	INDAPUR	INDAPUR	Pune	Checkdam	75.0533	18.0993
450	INDAPUR	INDAPUR	Pune	Checkdam	75.0633	18.0944
451	INDAPUR	INDAPUR	Pune	Checkdam	75.0725	18.0868
452	INDAPUR	INDAPUR	Pune	Checkdam	75.0673	18.0826
453	INDAPUR	INDAPUR	Pune	Checkdam	74.963	18.1249
454	INDAPUR	INDAPUR	Pune	Checkdam	74.9911	18.1028
455	INDAPUR	INDAPUR	Pune	Checkdam	75.026	18.067
456	INDAPUR	INDAPUR	Pune	Checkdam	75.0232	18.115
457	INDAPUR	INDAPUR	Pune	Checkdam	74.9811	18.1325
458	INDAPUR	INDAPUR	Pune	Checkdam	74.9731	18.1386
459	Indapur Rural	INDAPUR	Pune	Checkdam	74.9915	18.0913
460	Indapur Rural	INDAPUR	Pune	Checkdam	75.0072	18.0868
461	Jamb	INDAPUR	Pune	Checkdam	74.7124	18.0405
462	Jankshan	INDAPUR	Pune	Checkdam	74.7637	18.0981
463	Jankshan	INDAPUR	Pune	Checkdam	74.7697	18.1061
464	Kacharewadi	INDAPUR	Pune	Checkdam	74.9021	18.0936
465	Kacharewadi	INDAPUR	Pune	Checkdam	74.8892	18.0993
466	Kadbanwadi	INDAPUR	Pune	Checkdam	74.8395	18.071
467	KALAMB	INDAPUR	Pune	Checkdam	74.7645	18.0493
468	KALAMB	INDAPUR	Pune	Checkdam	74.7681	18.0321
469	KALAMB	INDAPUR	Pune	Checkdam	74.7765	18.0237
470	Kalas	INDAPUR	Pune	Checkdam	74.781	18.1392
471	Kalas	INDAPUR	Pune	Checkdam	74.801	18.1335
472	Kalas	INDAPUR	Pune	Checkdam	74.8066	18.1594
473	Kalas	INDAPUR	Pune	Checkdam	74.801	18.1671
474	Kalas	INDAPUR	Pune	Checkdam	74.7974	18.1716
475	Kalas	INDAPUR	Pune	Checkdam	74.7922	18.1816
476	Kalas	INDAPUR	Pune	Checkdam	74.789	18.1652
477	Kalas	INDAPUR	Pune	Checkdam	74.7878	18.1739
478	Kalas	INDAPUR	Pune	Checkdam	74.7802	18.1762
479	Kalas	INDAPUR	Pune	Checkdam	74.7749	18.1838
480	Kalas	INDAPUR	Pune	Checkdam	74.7769	18.1915
481	Kalas	INDAPUR	Pune	Checkdam	74.807	18.2003
482	Kalas	INDAPUR	Pune	Checkdam	74.8138	18.2052
483	Kalashi	INDAPUR	Pune	Checkdam	75.0023	18.2113
484	Kalthan No.1	INDAPUR	Pune	Checkdam	74.9915	18.2007
485	Kalthan No.2	INDAPUR	Pune	Checkdam	74.9811	18.1812
486	Kalthan No.2	INDAPUR	Pune	Checkdam	74.9955	18.1801
487	Kalthan No.2	INDAPUR	Pune	Checkdam	75.0068	18.166
488	Kalthan No.2	INDAPUR	Pune	Checkdam	75.0096	18.1736
489	Kandalgaon	INDAPUR	Pune	Checkdam	75.1347	18.0963

490	Kandalgaon	INDAPUR	Pune	Checkdam	75.1142	18.1111
491	Karewadi	INDAPUR	Pune	Checkdam	74.931	18.1325
492	Kati	INDAPUR	Pune	Checkdam	74.9249	18.0228
493	Kati	INDAPUR	Pune	Checkdam	74.9185	18.0361
494	Kauthali	INDAPUR	Pune	Checkdam	74.9181	18.1401
495	Kauthali	INDAPUR	Pune	Checkdam	74.9117	18.1409
496	Kauthali	INDAPUR	Pune	Checkdam	74.9133	18.1489
497	Kazad	INDAPUR	Pune	Checkdam	74.7176	18.1644
498	Kazad	INDAPUR	Pune	Checkdam	74.7232	18.1564
499	Kazad	INDAPUR	Pune	Checkdam	74.7324	18.1576
500	Kazad	INDAPUR	Pune	Checkdam	74.7312	18.1667
501	Kazad	INDAPUR	Pune	Checkdam	74.7296	18.1724
502	Kazad	INDAPUR	Pune	Checkdam	74.7396	18.1564
503	Kazad	INDAPUR	Pune	Checkdam	74.7388	18.1621
504	Kazad	INDAPUR	Pune	Checkdam	74.7396	18.1499
505	Kazad	INDAPUR	Pune	Checkdam	74.7236	18.1389
506	Kazad	INDAPUR	Pune	Checkdam	74.72	18.1343
507	Khorochi	INDAPUR	Pune	Checkdam	74.8724	17.9701
508	Kurawali	INDAPUR	Pune	Checkdam	74.7168	18.0329
509	Lakadi	INDAPUR	Pune	Checkdam	74.6839	18.1747
510	Lakadi	INDAPUR	Pune	Checkdam	74.6863	18.1648
511	Lakadi	INDAPUR	Pune	Checkdam	74.6646	18.1682
512	Lamjewadi	INDAPUR	Pune	Checkdam	74.665	18.2376
513	Lasurne	INDAPUR	Pune	Checkdam	74.7585	18.076
514	Loni	INDAPUR	Pune	Checkdam	74.9065	18.1915
515	Loni	INDAPUR	Pune	Checkdam	74.9129	18.2002
516	Loni	INDAPUR	Pune	Checkdam	74.9161	18.2067
517	Loni	INDAPUR	Pune	Checkdam	74.9161	18.2121
518	Madanwadi	INDAPUR	Pune	Checkdam	74.7509	18.2616
519	Madanwadi	INDAPUR	Pune	Checkdam	74.7585	18.2776
520	Madanwadi	INDAPUR	Pune	Checkdam	74.7437	18.2886
521	Madanwadi	INDAPUR	Pune	Checkdam	74.736	18.2921
522	Madanwadi	INDAPUR	Pune	Checkdam	74.7268	18.2894
523	Madanwadi	INDAPUR	Pune	Checkdam	74.7252	18.2951
524	Malewadi	INDAPUR	Pune	Checkdam	74.9225	18.2235
525	Malwadi	INDAPUR	Pune	Checkdam	75.0461	18.1382
526	Malwadi	INDAPUR	Pune	Checkdam	75.0553	18.1424
527	Malwadi	INDAPUR	Pune	Checkdam	75.0605	18.1473
528	Maradwadi	INDAPUR	Pune	Checkdam	74.8552	18.1945
529	Mhasobachiwadi	INDAPUR	Pune	Checkdam	74.6955	18.1972
530	Mhasobachiwadi	INDAPUR	Pune	Checkdam	74.6931	18.2052
531	Narutwadi	INDAPUR	Pune	Checkdam	75.0092	18.1511
532	Nhavi	INDAPUR	Pune	Checkdam	74.9041	18.1762
533	Nhavi	INDAPUR	Pune	Checkdam	74.8904	18.1542
534	Nhavi	INDAPUR	Pune	Checkdam	74.8904	18.1652

535	Nhavi	INDAPUR	Pune	Checkdam	74.882	18.1759
536	Nhavi	INDAPUR	Pune	Checkdam	74.8776	18.182
537	Nhavi	INDAPUR	Pune	Checkdam	74.8804	18.1911
538	Nhavi	INDAPUR	Pune	Checkdam	74.9021	18.1626
539	Nimbodi	INDAPUR	Pune	Checkdam	74.6839	18.1549
540	Nimbodi	INDAPUR	Pune	Checkdam	74.6899	18.1568
541	Nimbodi	INDAPUR	Pune	Checkdam	74.6819	18.1446
542	Nimbodi	INDAPUR	Pune	Checkdam	74.6743	18.1499
543	Nimbodi	INDAPUR	Pune	Checkdam	74.6667	18.1568
544	Nimbodi	INDAPUR	Pune	Checkdam	74.6931	18.1412
545	Nimgaon Ketki	INDAPUR	Pune	Checkdam	74.9229	18.0868
546	Nimgaon Ketki	INDAPUR	Pune	Checkdam	74.9205	18.0913
547	Nimgaon Ketki	INDAPUR	Pune	Checkdam	74.9209	18.1039
548	Nimgaon Ketki	INDAPUR	Pune	Checkdam	74.9298	18.0795
549	Nimgaon Ketki	INDAPUR	Pune	Checkdam	74.9398	18.0883
550	Nimgaon Ketki	INDAPUR	Pune	Checkdam	74.9458	18.097
551	Nimsakhar	INDAPUR	Pune	Checkdam	74.815	18.0397
552	Nimsakhar	INDAPUR	Pune	Checkdam	74.8359	18.0298
553	Nirgude	INDAPUR	Pune	Checkdam	74.6819	18.2239
554	Nirgude	INDAPUR	Pune	Checkdam	74.6871	18.2292
555	Nirgude	INDAPUR	Pune	Checkdam	74.6983	18.2323
556	Nirgude	INDAPUR	Pune	Checkdam	74.708	18.2365
557	Nirgude	INDAPUR	Pune	Checkdam	74.7152	18.2403
558	Nirgude	INDAPUR	Pune	Checkdam	74.7228	18.2144
559	Nirgude	INDAPUR	Pune	Checkdam	74.7031	18.1976
560	Nirgude	INDAPUR	Pune	Checkdam	74.6995	18.2029
561	Padasthal	INDAPUR	Pune	Checkdam	75.0725	18.1999
562	Palasdeo	INDAPUR	Pune	Checkdam	74.8888	18.2235
563	Palasdeo	INDAPUR	Pune	Checkdam	74.886	18.2372
564	Palasdeo	INDAPUR	Pune	Checkdam	74.8904	18.2464
565	Palasdeo	INDAPUR	Pune	Checkdam	74.9029	18.2475
566	Palasdeo	INDAPUR	Pune	Checkdam	74.9025	18.2399
567	Paritwadi	INDAPUR	Pune	Checkdam	74.7288	18.0603
568	Paritwadi	INDAPUR	Pune	Checkdam	74.7304	18.0664
569	Paritwadi	INDAPUR	Pune	Checkdam	74.7364	18.071
570	Pimpale	INDAPUR	Pune	Checkdam	74.7228	18.2563
571	Pimpale	INDAPUR	Pune	Checkdam	74.7236	18.2601
572	Pimpale	INDAPUR	Pune	Checkdam	74.7396	18.2601
573	Pithewadi	INDAPUR	Pune	Checkdam	74.9478	17.9442
574	Pitkeshwar	INDAPUR	Pune	Checkdam	74.8856	18.0319
575	Pitkeshwar	INDAPUR	Pune	Checkdam	74.8937	18.038
576	Pondkulwadi	INDAPUR	Pune	Checkdam	74.9554	18.126
577	Pondkulwadi	INDAPUR	Pune	Checkdam	74.9414	18.1393
578	Poundhawadi	INDAPUR	Pune	Checkdam	74.7449	18.2288
579	Poundhawadi	INDAPUR	Pune	Checkdam	74.7449	18.2365

580	Poundhawadi	INDAPUR	Pune	Checkdam	74.7449	18.2456
581	Poundhawadi	INDAPUR	Pune	Checkdam	74.7477	18.2544
582	Reda	INDAPUR	Pune	Checkdam	74.9277	18.0129
583	Redani	INDAPUR	Pune	Checkdam	74.9013	17.9739
584	Rui	INDAPUR	Pune	Checkdam	74.8367	18.1766
585	Rui	INDAPUR	Pune	Checkdam	74.8419	18.1808
586	Rui	INDAPUR	Pune	Checkdam	74.8487	18.188
587	Rui	INDAPUR	Pune	Checkdam	74.86	18.177
588	Sansar	INDAPUR	Pune	Checkdam	74.7152	18.1286
589	Sansar	INDAPUR	Pune	Checkdam	74.7096	18.1187
590	Sarati	INDAPUR	Pune	Checkdam	75.0104	17.9114
591	Shaha	INDAPUR	Pune	Checkdam	75.0846	18.1119
592	Shaha	INDAPUR	Pune	Checkdam	75.0866	18.1214
593	Shelgaon	INDAPUR	Pune	Checkdam	74.8066	18.1114
594	Shelgaon	INDAPUR	Pune	Checkdam	74.8042	18.1198
595	Shelgaon	INDAPUR	Pune	Checkdam	74.8279	18.1152
596	Shelgaon	INDAPUR	Pune	Checkdam	74.8183	18.1206
597	Shelgaon	INDAPUR	Pune	Checkdam	74.8167	18.1267
598	Shelgaon	INDAPUR	Pune	Checkdam	74.8167	18.1347
599	Shelgaon	INDAPUR	Pune	Checkdam	74.8311	18.124
600	Shelgaon	INDAPUR	Pune	Checkdam	74.8303	18.1293
601	Shelgaon	INDAPUR	Pune	Checkdam	74.8263	18.1373
602	Shelgaon	INDAPUR	Pune	Checkdam	74.8255	18.1427
603	Shelgaon	INDAPUR	Pune	Checkdam	74.8487	18.1358
604	Shelgaon	INDAPUR	Pune	Checkdam	74.8423	18.1396
605	Shelgaon	INDAPUR	Pune	Checkdam	74.8415	18.1476
606	Shelgaon	INDAPUR	Pune	Checkdam	74.8552	18.1343
607	Shelgaon	INDAPUR	Pune	Checkdam	74.8584	18.1392
608	Shelgaon	INDAPUR	Pune	Checkdam	74.8564	18.1202
609	Shelgaon	INDAPUR	Pune	Checkdam	74.8624	18.1259
610	Shelgaon	INDAPUR	Pune	Checkdam	74.8503	18.0843
611	Shetphal Haveli	INDAPUR	Pune	Checkdam	74.9787	18.0102
612	Shetphal Haveli	INDAPUR	Pune	Checkdam	74.9646	18.0197
613	Shetphal Haveli	INDAPUR	Pune	Checkdam	74.9614	18.0258
614	Shetphalgadhe	INDAPUR	Pune	Checkdam	74.6679	18.2437
615	Shetphalgadhe	INDAPUR	Pune	Checkdam	74.6767	18.2498
616	Shetphalgadhe	INDAPUR	Pune	Checkdam	74.6843	18.2688
617	Shetphalgadhe	INDAPUR	Pune	Checkdam	74.6927	18.2719
618	Shindewadi	INDAPUR	Pune	Checkdam	74.7124	18.1629
619	Shirsadi	INDAPUR	Pune	Checkdam	75.0252	18.1748
620	Shirsadi	INDAPUR	Pune	Checkdam	75.0425	18.1869
621	Shirsadi	INDAPUR	Pune	Checkdam	75.0505	18.1839
622	Sirsatwadi	INDAPUR	Pune	Checkdam	74.8295	18.0637
623	Sirsatwadi	INDAPUR	Pune	Checkdam	74.8219	18.0542
624	Sirsatwadi	INDAPUR	Pune	Checkdam	74.815	18.0474

625	Sirsatwadi	INDAPUR	Pune	Checkdam	74.8263	18.0485
626	Sugaon	INDAPUR	Pune	Checkdam	75.0689	18.1382
627	Surwad	INDAPUR	Pune	Checkdam	75.0007	18.0003
628	Surwad	INDAPUR	Pune	Checkdam	74.9919	18.0045
629	Surwad	INDAPUR	Pune	Checkdam	74.9963	18.0083
630	Takali	INDAPUR	Pune	Checkdam	75.0878	18.1885
631	Takali	INDAPUR	Pune	Checkdam	75.0994	18.1866
632	Tarangwadi	INDAPUR	Pune	Checkdam	74.9807	18.0959
633	Tarangwadi	INDAPUR	Pune	Checkdam	75.0011	18.0822
634	Tarangwadi	INDAPUR	Pune	Checkdam	74.9598	18.0948
635	Taratgaon	INDAPUR	Pune	Checkdam	75.1138	18.0776
636	Thoratwadi	INDAPUR	Pune	Checkdam	74.7697	18.0638
637	Thoratwadi	INDAPUR	Pune	Checkdam	74.8632	18.1523
638	Thoratwadi	INDAPUR	Pune	Checkdam	74.8644	18.1603
639	Thoratwadi	INDAPUR	Pune	Checkdam	74.8636	18.169
640	Vadapuri	INDAPUR	Pune	Checkdam	74.9943	18.0605
641	Vadapuri	INDAPUR	Pune	Checkdam	75.0092	18.0582
642	Vangali	INDAPUR	Pune	Checkdam	74.9915	18.1534
643	Vangali	INDAPUR	Pune	Checkdam	74.9911	18.1629
644	Vangali	INDAPUR	Pune	Checkdam	74.9871	18.1447
645	Varkute Bk.	INDAPUR	Pune	Checkdam	74.947	18.2174
646	Varkute Bk.	INDAPUR	Pune	Checkdam	74.9598	18.2083
647	Varkute Bk.	INDAPUR	Pune	Checkdam	74.9699	18.2182
648	Varkute Bk.	INDAPUR	Pune	Checkdam	74.9679	18.1812
649	Varkute Bk.	INDAPUR	Pune	Checkdam	74.949	18.1977
650	Varkute Kh.	INDAPUR	Pune	Checkdam	74.9414	18.0608
651	Vaysewadi	INDAPUR	Pune	Checkdam	74.7316	18.1904
652	Vyahali	INDAPUR	Pune	Checkdam	74.8824	18.1096
653	Vyahali	INDAPUR	Pune	Checkdam	74.8824	18.1195
654	Vyahali	INDAPUR	Pune	Checkdam	74.88	18.1279
655	Zagadewadi	INDAPUR	Pune	Checkdam	74.9839	18.0662
656	Agar	JUNNER	Pune	Checkdam	73.9014	19.1794
657	Agar	JUNNER	Pune	Checkdam	73.9046	19.187
658	Agar	JUNNER	Pune	Checkdam	73.909	19.1957
659	Ahinavewadi	JUNNER	Pune	Checkdam	73.973	19.2962
660	Aldare	JUNNER	Pune	Checkdam	73.8785	19.2241
661	Ale	JUNNER	Pune	Checkdam	74.106	19.1783
662	Ale	JUNNER	Pune	Checkdam	74.0991	19.1616
663	Alme	JUNNER	Pune	Checkdam	73.8813	19.2597
664	Alme	JUNNER	Pune	Checkdam	73.8761	19.2658
665	Alu	JUNNER	Pune	Checkdam	73.9475	19.2999
666	Ambe Gavhan	JUNNER	Pune	Checkdam	74.0049	19.3024
667	Ambe Gavhan	JUNNER	Pune	Checkdam	73.988	19.3079
668	Ambe Gavhan	JUNNER	Pune	Checkdam	73.9744	19.3036
669	Ambe Gavhan	JUNNER	Pune	Checkdam	74.0089	19.3058

670	Ambe Gavhan	JUNNER	Pune	Checkdam	74.0169	19.3056
671	Ambe Gavhan	JUNNER	Pune	Checkdam	74.0025	19.3316
672	Ambe Gavhan	JUNNER	Pune	Checkdam	73.989	19.3388
673	Ambe Gavhan	JUNNER	Pune	Checkdam	73.9912	19.3425
674	Ambe Gavhan	JUNNER	Pune	Checkdam	73.9977	19.3433
675	Ambe Gavhan	JUNNER	Pune	Checkdam	73.9985	19.3346
676	Ambe Gavhan	JUNNER	Pune	Checkdam	73.9997	19.3274
677	Ambe Gavhan	JUNNER	Pune	Checkdam	74.0059	19.3293
678	Ambe Gavhan	JUNNER	Pune	Checkdam	73.9818	19.3238
679	Ambe Gavhan	JUNNER	Pune	Checkdam	73.987	19.3161
680	Amrapur	JUNNER	Pune	Checkdam	73.885	19.1987
681	Ane	JUNNER	Pune	Checkdam	74.2307	19.1821
682	Ane	JUNNER	Pune	Checkdam	74.2475	19.1919
683	Bangarwadi	JUNNER	Pune	Checkdam	74.1958	19.1488
684	Bangarwadi	JUNNER	Pune	Checkdam	74.2022	19.159
685	Bangarwadi	JUNNER	Pune	Checkdam	74.1814	19.1298
686	Bangarwadi	JUNNER	Pune	Checkdam	74.1814	19.1419
687	Belhe	JUNNER	Pune	Checkdam	74.1609	19.1317
688	Belhe	JUNNER	Pune	Checkdam	74.1685	19.0867
689	Belhe	JUNNER	Pune	Checkdam	74.1826	19.109
690	Bhorwadi	JUNNER	Pune	Checkdam	74.0097	19.1453
691	Bori Kh.	JUNNER	Pune	Checkdam	74.0687	19.1074
692	Bori Kh.	JUNNER	Pune	Checkdam	74.0787	19.1112
693	Botarde	JUNNER	Pune	Checkdam	73.7891	19.1938
694	Botarde	JUNNER	Pune	Checkdam	73.7971	19.1908
695	Chawad	JUNNER	Pune	Checkdam	73.7402	19.2332
696	Chilhewadi	JUNNER	Pune	Checkdam	73.9594	19.3395
697	Chilhewadi	JUNNER	Pune	Checkdam	73.9672	19.3448
698	Chilhewadi	JUNNER	Pune	Checkdam	73.9774	19.3391
699	Devale	JUNNER	Pune	Checkdam	73.737	19.303
700	Dhalewadi Tarf Haveli	JUNNER	Pune	Checkdam	73.9363	19.1737
701	Dhamankhel	JUNNER	Pune	Checkdam	73.8729	19.1791
702	Dhamankhel	JUNNER	Pune	Checkdam	73.8749	19.1738
703	Dumbarwadi	JUNNER	Pune	Checkdam	74.0001	19.2369
704	Dumbarwadi	JUNNER	Pune	Checkdam	74.0053	19.2313
705	Ghangaldare	JUNNER	Pune	Checkdam	73.7414	19.1848
706	Ghangaldare	JUNNER	Pune	Checkdam	73.745	19.1912
707	Ghatghar	JUNNER	Pune	Checkdam	73.7089	19.281
708	Godre	JUNNER	Pune	Checkdam	73.8513	19.2605
709	Godre	JUNNER	Pune	Checkdam	73.8545	19.2643
710	Golegaon	JUNNER	Pune	Checkdam	73.8862	19.2237
711	Gunjalwadi	JUNNER	Pune	Checkdam	73.9391	19.1127
712	Gunjalwadi	JUNNER	Pune	Checkdam	73.9439	19.1234
713	Hivare Kh	JUNNER	Pune	Checkdam	73.9684	19.2177

714	Hivare Tarf Narayangaon	JUNNER	Pune	Checkdam	73.9957	19.1029
715	Jambhulshi	JUNNER	Pune	Checkdam	73.8916	19.3543
716	Jambhulshi	JUNNER	Pune	Checkdam	73.894	19.3577
717	Jambhulshi	JUNNER	Pune	Checkdam	73.8918	19.3605
718	Jambhulshi	JUNNER	Pune	Checkdam	73.8966	19.3425
719	Jambhulshi	JUNNER	Pune	Checkdam	73.9004	19.348
720	Jambhulshi	JUNNER	Pune	Checkdam	73.8968	19.3465
721	Khamundi	JUNNER	Pune	Checkdam	74.0177	19.2339
722	Khamundi	JUNNER	Pune	Checkdam	74.0402	19.2336
723	Khanapur	JUNNER	Pune	Checkdam	73.8834	19.1658
724	Khangaon	JUNNER	Pune	Checkdam	73.7987	19.2003
725	Khangaon	JUNNER	Pune	Checkdam	73.7995	19.2056
726	Khireshwar	JUNNER	Pune	Checkdam	73.8144	19.3692
727	Khireshwar	JUNNER	Pune	Checkdam	73.8124	19.359
728	Khireshwar	JUNNER	Pune	Checkdam	73.8144	19.351
729	Khubi	JUNNER	Pune	Checkdam	73.8196	19.3412
730	Kolhewadi	JUNNER	Pune	Checkdam	73.8272	19.356
731	Kolhewadi	JUNNER	Pune	Checkdam	73.8232	19.3578
732	Kolhewadi	JUNNER	Pune	Checkdam	73.8232	19.3639
733	Kolwadi	JUNNER	Pune	Checkdam	73.887	19.2938
734	Kolwadi	JUNNER	Pune	Checkdam	73.897	19.2916
735	Kolwadi	JUNNER	Pune	Checkdam	74.1292	19.1843
736	Kopare	JUNNER	Pune	Checkdam	73.8892	19.3494
737	Kopare	JUNNER	Pune	Checkdam	73.89	19.363
738	Kopare	JUNNER	Pune	Checkdam	73.8886	19.3653
739	Kopare	JUNNER	Pune	Checkdam	73.8856	19.3573
740	Kopare	JUNNER	Pune	Checkdam	73.8795	19.353
741	Kopare	JUNNER	Pune	Checkdam	73.8683	19.342
742	Kumshet	JUNNER	Pune	Checkdam	73.9054	19.2207
743	Kumshet	JUNNER	Pune	Checkdam	73.901	19.2287
744	Kusur	JUNNER	Pune	Checkdam	73.8432	19.1768
745	Madh	JUNNER	Pune	Checkdam	73.8372	19.3347
746	Madh	JUNNER	Pune	Checkdam	73.8432	19.3363
747	Mandave	JUNNER	Pune	Checkdam	73.9122	19.3513
748	Mandave	JUNNER	Pune	Checkdam	73.915	19.3456
749	Mandave	JUNNER	Pune	Checkdam	73.9166	19.3501
750	Mandave	JUNNER	Pune	Checkdam	73.9124	19.3427
751	Mandave	JUNNER	Pune	Checkdam	73.9134	19.3319
752	Mandave	JUNNER	Pune	Checkdam	73.8936	19.3355
753	Mandave	JUNNER	Pune	Checkdam	73.9014	19.3308
754	Mandave	JUNNER	Pune	Checkdam	73.9056	19.3312
755	Mangrul	JUNNER	Pune	Checkdam	74.1673	19.0731
756	Mangrul	JUNNER	Pune	Checkdam	74.1781	19.0496
757	Mankeshwar	JUNNER	Pune	Checkdam	73.763	19.2241

758	Mankeshwar	JUNNER	Pune	Checkdam	73.7642	19.2309
759	Muthalne	JUNNER	Pune	Checkdam	73.9429	19.3308
760	Muthalne	JUNNER	Pune	Checkdam	73.9409	19.3268
761	Muthalne	JUNNER	Pune	Checkdam	73.9439	19.328
762	Muthalne	JUNNER	Pune	Checkdam	73.9439	19.3354
763	Muthalne	JUNNER	Pune	Checkdam	73.9533	19.3365
764	Muthalne	JUNNER	Pune	Checkdam	73.9606	19.3333
765	Nagadpadi	JUNNER	Pune	Checkdam	74.049	19.1351
766	Nalawane	JUNNER	Pune	Checkdam	74.1777	19.2097
767	Narayangaon	JUNNER	Pune	Checkdam	73.9708	19.1237
768	Narayangaon	JUNNER	Pune	Checkdam	73.9876	19.1188
769	Netwad	JUNNER	Pune	Checkdam	73.9475	19.245
770	Nimdari	JUNNER	Pune	Checkdam	73.8773	19.1218
771	Nimdari	JUNNER	Pune	Checkdam	73.8805	19.1298
772	Nimgaon Tarf Mahalunge	JUNNER	Pune	Checkdam	73.8914	19.145
773	Nimgaon Tarf Mahalunge	JUNNER	Pune	Checkdam	73.8914	19.1537
774	Nirgude	JUNNER	Pune	Checkdam	73.8216	19.195
775	Nirgude	JUNNER	Pune	Checkdam	73.812	19.1972
776	Otur	JUNNER	Pune	Checkdam	73.98	19.2841
777	Otur	JUNNER	Pune	Checkdam	73.9768	19.2888
778	Otur	JUNNER	Pune	Checkdam	73.9714	19.288
779	Otur	JUNNER	Pune	Checkdam	73.972	19.2812
780	Otur	JUNNER	Pune	Checkdam	73.9746	19.2738
781	Otur	JUNNER	Pune	Checkdam	74.0017	19.2721
782	Otur	JUNNER	Pune	Checkdam	73.9612	19.2828
783	Otur	JUNNER	Pune	Checkdam	73.982	19.2404
784	Otur	JUNNER	Pune	Checkdam	73.9852	19.2517
785	Otur	JUNNER	Pune	Checkdam	73.9945	19.26
786	Ozar	JUNNER	Pune	Checkdam	73.9507	19.1938
787	Pangari Tarf Otur	JUNNER	Pune	Checkdam	73.9339	19.2434
788	Pemdara	JUNNER	Pune	Checkdam	74.2596	19.1707
789	Pemdara	JUNNER	Pune	Checkdam	74.2568	19.1798
790	Phagul Gavhan	JUNNER	Pune	Checkdam	73.7141	19.2643
791	Pimpalgaon Joga	JUNNER	Pune	Checkdam	73.8769	19.3238
792	Pimpalgaon Joga	JUNNER	Pune	Checkdam	73.8769	19.3116
793	Pimpalgaon Joga	JUNNER	Pune	Checkdam	73.8741	19.3162
794	Pimpalgaon Joga	JUNNER	Pune	Checkdam	73.9082	19.2972
795	Pimpalgaon Joga	JUNNER	Pune	Checkdam	73.9098	19.3033
796	Pimpalgaon Joga	JUNNER	Pune	Checkdam	73.917	19.3109
797	Pimpalgaon Joga	JUNNER	Pune	Checkdam	73.9251	19.2931
798	Pimpalgaon Siddhanath	JUNNER	Pune	Checkdam	73.8565	19.2336
799	Pimpalwandi	JUNNER	Pune	Checkdam	74.0807	19.1753
800	Pimpalwandi	JUNNER	Pune	Checkdam	74.0566	19.1904

801	Pimpalwandi	JUNNER	Pune	Checkdam	74.0614	19.1726
802	Pimpalwandi	JUNNER	Pune	Checkdam	74.0678	19.1912
803	Pimpalwandi	JUNNER	Pune	Checkdam	74.0723	19.2033
804	Pimpri Pendhar	JUNNER	Pune	Checkdam	74.0646	19.2241
805	Pimpri Pendhar	JUNNER	Pune	Checkdam	74.0646	19.2298
806	Pimpri Pendhar	JUNNER	Pune	Checkdam	74.055	19.2294
807	Pimpri Pendhar	JUNNER	Pune	Checkdam	74.0811	19.2162
808	Rajuri	JUNNER	Pune	Checkdam	74.1641	19.1586
809	Rajuri	JUNNER	Pune	Checkdam	74.1621	19.1457
810	Rajuri	JUNNER	Pune	Checkdam	74.1152	19.1393
811	Rajuri	JUNNER	Pune	Checkdam	74.1188	19.1472
812	Ralegan	JUNNER	Pune	Checkdam	73.7727	19.1946
813	Ralegan	JUNNER	Pune	Checkdam	73.7799	19.1935
814	Sakori T Belhe	JUNNER	Pune	Checkdam	74.1557	19.0738
815	Sakori T Belhe	JUNNER	Pune	Checkdam	74.1372	19.0915
816	Sakori T Belhe	JUNNER	Pune	Checkdam	74.1441	19.1006
817	Santwadi	JUNNER	Pune	Checkdam	74.1264	19.1999
818	Santwadi	JUNNER	Pune	Checkdam	74.1336	19.2067
819	Sawargaon	JUNNER	Pune	Checkdam	73.9018	19.1196
820	Sawargaon	JUNNER	Pune	Checkdam	73.897	19.1203
821	Shindewadi	JUNNER	Pune	Checkdam	74.2648	19.2105
822	Shindewadi	JUNNER	Pune	Checkdam	74.3001	19.2022
823	Shindewadi	JUNNER	Pune	Checkdam	74.2961	19.2101
824	Shiroli Kh	JUNNER	Pune	Checkdam	73.9267	19.2056
825	Shiroli T Ale	JUNNER	Pune	Checkdam	74.0971	19.0949
826	Sitewadi	JUNNER	Pune	Checkdam	73.818	19.2893
827	Sitewadi	JUNNER	Pune	Checkdam	73.814	19.2794
828	Somatwadi	JUNNER	Pune	Checkdam	73.8513	19.2029
829	Somatwadi	JUNNER	Pune	Checkdam	73.8509	19.2101
830	Sonawale	JUNNER	Pune	Checkdam	73.7486	19.2018
831	Udapur	JUNNER	Pune	Checkdam	73.9523	19.2726
832	Udapur	JUNNER	Pune	Checkdam	73.9411	19.2851
833	Umbraj	JUNNER	Pune	Checkdam	74.0005	19.2093
834	Umbraj	JUNNER	Pune	Checkdam	74.0053	19.2006
835	Unchkhadakwadi	JUNNER	Pune	Checkdam	74.1473	19.1662
836	Unchkhadakwadi	JUNNER	Pune	Checkdam	74.1577	19.1662
837	Unchkhadakwadi	JUNNER	Pune	Checkdam	74.1657	19.1984
838	Vadgaon Kandali	JUNNER	Pune	Checkdam	74.0586	19.126
839	Wadgaon Anand	JUNNER	Pune	Checkdam	74.0999	19.2101
840	Wadgaon Anand	JUNNER	Pune	Checkdam	74.0967	19.1999
841	Wanewadi	JUNNER	Pune	Checkdam	73.7839	19.2022
842	Warulwadi	JUNNER	Pune	Checkdam	73.968	19.1014
843	Yadavwadi	JUNNER	Pune	Checkdam	74.1561	19.1127
844	Yedgaon	JUNNER	Pune	Checkdam	73.9832	19.1616
845	Yedgaon	JUNNER	Pune	Checkdam	74.0113	19.156

846	Yedgaon	JUNNER	Pune	Checkdam	74.0133	19.1658
847	Ambhu	Khed	Pune	Checkdam	73.5967	18.9523
848	Bahul	Khed	Pune	Checkdam	73.9959	18.7347
849	Bhose	Khed	Pune	Checkdam	73.9142	18.7323
850	Chandus	Khed	Pune	Checkdam	73.831	18.8357
851	Chichbaiwadi	Khed	Pune	Checkdam	74.0019	18.876
852	Davadi	Khed	Pune	Checkdam	73.9581	18.7919
853	Dhanore	Khed	Pune	Checkdam	73.9305	18.6676
854	Donde	Khed	Pune	Checkdam	73.8351	18.871
855	Jaulke Kh.	Khed	Pune	Checkdam	73.9281	18.8448
856	Kaman	Khed	Pune	Checkdam	73.8331	18.9458
857	Khalumbre	Khed	Pune	Checkdam	73.781	18.7417
858	Koyali Tarf Chakan	Khed	Pune	Checkdam	73.9749	18.7034
859	Kurkundi	Khed	Pune	Checkdam	73.7789	18.8429
860	Moi	Khed	Pune	Checkdam	73.8265	18.6915
861	Retavadi	Khed	Pune	Checkdam	73.9359	18.8255
862	Sandbhorwadi	Khed	Pune	Checkdam	73.923	18.8875
863	Velhavale	Khed	Pune	Checkdam	73.6143	18.9206
864	Washere	Khed	Pune	Checkdam	73.7279	18.9351
865	Bebad Ohol	Maval	Pune	Checkdam	73.635	18.6831
866	Bedse	Maval	Pune	Checkdam	73.5448	18.7126
867	Bhaje	Maval	Pune	Checkdam	73.4724	18.7293
868	Chandkhed	Maval	Pune	Checkdam	73.6435	18.6567
869	Chikhalse	Maval	Pune	Checkdam	73.5657	18.7362
870	Done	Maval	Pune	Checkdam	73.5766	18.6618
871	Induri	Maval	Pune	Checkdam	73.7115	18.7477
872	Kalhat	Maval	Pune	Checkdam	73.6253	18.8598
873	Katavi	Maval	Pune	Checkdam	73.6537	18.7392
874	Kusgaon Kh.	Maval	Pune	Checkdam	73.5596	18.7545
875	Mahagaon	Maval	Pune	Checkdam	73.5077	18.7047
876	Nigade	Maval	Pune	Checkdam	73.65	18.8292
877	Pimpaloli	Maval	Pune	Checkdam	73.5253	18.7466
878	Shivali	Maval	Pune	Checkdam	73.5459	18.6713
879	Sudumbare	Maval	Pune	Checkdam	73.7524	18.7457
880	Takave Kh.	Maval	Pune	Checkdam	73.5072	18.7701
881	Varu	Maval	Pune	Checkdam	73.5234	18.6474
882	Vaund	Maval	Pune	Checkdam	73.5741	18.8202
883	Amarale Wadi	Mulshi	Pune	Checkdam	73.6808	18.558
884	Ambarwet	Mulshi	Pune	Checkdam	73.6538	18.5129
885	Andgaon	Mulshi	Pune	Checkdam	73.6119	18.4611
886	Bhode	Mulshi	Pune	Checkdam	73.573	18.4322
887	Bhode	Mulshi	Pune	Checkdam	73.5519	18.4238
888	Bhoirwadi	Mulshi	Pune	Checkdam	73.715	18.5844
889	Bhugaon	Mulshi	Pune	Checkdam	73.7492	18.5048
890	Bhugaon	Mulshi	Pune	Checkdam	73.7452	18.4973

891	Bhukum	Mulshi	Pune	Checkdam	73.7208	18.4906
892	Botarwadi	Mulshi	Pune	Checkdam	73.6837	18.4679
893	Dattawadi (N.V.)	Mulshi	Pune	Checkdam	73.5248	18.4954
894	Godambewadi	Mulshi	Pune	Checkdam	73.6598	18.5707
895	Hinjavadi	Mulshi	Pune	Checkdam	73.7264	18.5866
896	Jambe	Mulshi	Pune	Checkdam	73.7224	18.6368
897	Kasar Amboli	Mulshi	Pune	Checkdam	73.6736	18.5106
898	Kharavade	Mulshi	Pune	Checkdam	73.589	18.4568
899	Khechare	Mulshi	Pune	Checkdam	73.5874	18.4843
900	Khechare	Mulshi	Pune	Checkdam	73.5779	18.4864
901	Kolavade	Mulshi	Pune	Checkdam	73.5731	18.4575
902	Kondhur	Mulshi	Pune	Checkdam	73.6361	18.4242
903	Lavale	Mulshi	Pune	Checkdam	73.7284	18.5238
904	Maded	Mulshi	Pune	Checkdam	73.565	18.4942
905	Male	Mulshi	Pune	Checkdam	73.5394	18.4913
906	Malegaon	Mulshi	Pune	Checkdam	73.6137	18.4379
907	Man	Mulshi	Pune	Checkdam	73.6902	18.585
908	Morewadi	Mulshi	Pune	Checkdam	73.6449	18.4563
909	Mugavade	Mulshi	Pune	Checkdam	73.633	18.5521
910	Nere	Mulshi	Pune	Checkdam	73.6914	18.6089
911	Pimpaloli	Mulshi	Pune	Checkdam	73.615	18.6047
912	Pirangut	Mulshi	Pune	Checkdam	73.6969	18.4895
913	Share	Mulshi	Pune	Checkdam	73.5537	18.5105
914	Uravade	Mulshi	Pune	Checkdam	73.6667	18.4707
915	Ambale	PURANDHAR	Pune	Checkdam	74.1731	18.383
916	Bhivadi	PURANDHAR	Pune	Checkdam	74.0169	18.3122
917	Bopgaon	PURANDHAR	Pune	Checkdam	73.9693	18.368
918	Bopgaon	PURANDHAR	Pune	Checkdam	73.9533	18.3761
919	Bopgaon	PURANDHAR	Pune	Checkdam	73.9611	18.3898
920	Bopgaon	PURANDHAR	Pune	Checkdam	73.9611	18.3898
921	Bopgaon	PURANDHAR	Pune	Checkdam	73.9673	18.379
922	Chambali	PURANDHAR	Pune	Checkdam	73.9908	18.3585
923	Chambali	PURANDHAR	Pune	Checkdam	73.9843	18.3689
924	Dive	PURANDHAR	Pune	Checkdam	74.0446	18.366
925	Dive	PURANDHAR	Pune	Checkdam	74.0482	18.381
926	Dive	PURANDHAR	Pune	Checkdam	74.0518	18.3944
927	Garade	PURANDHAR	Pune	Checkdam	73.9455	18.3428
928	Garade	PURANDHAR	Pune	Checkdam	73.9327	18.3487
929	Garade	PURANDHAR	Pune	Checkdam	73.9562	18.3396
930	Jadhavwadi (n.v.)	PURANDHAR	Pune	Checkdam	74.0214	18.3875
931	Jadhavwadi (n.v.)	PURANDHAR	Pune	Checkdam	74.026	18.3738
932	Jawalarjun	PURANDHAR	Pune	Checkdam	74.2582	18.2802
933	Khanvadi	PURANDHAR	Pune	Checkdam	74.1183	18.3243
934	Khanvadi	PURANDHAR	Pune	Checkdam	74.1183	18.3243
935	Kodit Bk.	PURANDHAR	Pune	Checkdam	73.9996	18.3455

936	Kodit Bk.	PURANDHAR	Pune	Checkdam	74.0015	18.3288
937	Kolvihire	PURANDHAR	Pune	Checkdam	74.208	18.2636
938	Kolvihire	PURANDHAR	Pune	Checkdam	74.2278	18.2633
939	Mawadi Supe	PURANDHAR	Pune	Checkdam	74.2047	18.3565
940	Mawadi Supe	PURANDHAR	Pune	Checkdam	74.2102	18.3438
941	Mawadikade Pathar	PURANDHAR	Pune	Checkdam	74.2386	18.2688
942	Mawadikade Pathar	PURANDHAR	Pune	Checkdam	74.2494	18.2701
943	Naygaon	PURANDHAR	Pune	Checkdam	74.2464	18.3428
944	Naygaon	PURANDHAR	Pune	Checkdam	74.2543	18.3601
945	Naygaon	PURANDHAR	Pune	Checkdam	74.237	18.3497
946	Naygaon	PURANDHAR	Pune	Checkdam	74.2357	18.3644
947	Nazare Supe	PURANDHAR	Pune	Checkdam	74.2246	18.2907
948	Nazare Supe	PURANDHAR	Pune	Checkdam	74.2197	18.2855
949	Nazare Supe	PURANDHAR	Pune	Checkdam	74.2181	18.2796
950	Nazare Supe	PURANDHAR	Pune	Checkdam	74.2083	18.2757
951	Pandeshwar	PURANDHAR	Pune	Checkdam	74.2663	18.3112
952	Pandeshwar	PURANDHAR	Pune	Checkdam	74.2543	18.3239
953	Pandeshwar	PURANDHAR	Pune	Checkdam	74.2438	18.3337
954	Pandeshwar	PURANDHAR	Pune	Checkdam	74.2422	18.307
955	Pargaon	PURANDHAR	Pune	Checkdam	74.1245	18.3471
956	Pargaon	PURANDHAR	Pune	Checkdam	74.1248	18.3673
957	Pimpale	PURANDHAR	Pune	Checkdam	74.0563	18.3086
958	Pimpale	PURANDHAR	Pune	Checkdam	74.0687	18.3148
959	Pimpri	PURANDHAR	Pune	Checkdam	74.2278	18.3161
960	Pimpri	PURANDHAR	Pune	Checkdam	74.2197	18.322
961	Pimpri	PURANDHAR	Pune	Checkdam	74.2155	18.3324
962	Pisarve	PURANDHAR	Pune	Checkdam	74.2067	18.3657
963	Pisarve	PURANDHAR	Pune	Checkdam	74.1949	18.3575
964	Pisarve	PURANDHAR	Pune	Checkdam	74.1917	18.3689
965	Pisarve	PURANDHAR	Pune	Checkdam	74.1799	18.3595
966	Rajewadi	PURANDHAR	Pune	Checkdam	74.1603	18.3869
967	Rajewadi	PURANDHAR	Pune	Checkdam	74.1639	18.3712
968	Rajuri	PURANDHAR	Pune	Checkdam	74.267	18.3497
969	Rajuri	PURANDHAR	Pune	Checkdam	74.2728	18.3373
970	Rajuri	PURANDHAR	Pune	Checkdam	74.2735	18.3614
971	SASVAD	PURANDHAR	Pune	Checkdam	74.0426	18.3311
972	Saswad Rural	PURANDHAR	Pune	Checkdam	74.0351	18.3621
973	Saswad Rural	PURANDHAR	Pune	Checkdam	74.0443	18.3448
974	Saswad Rural	PURANDHAR	Pune	Checkdam	74.0407	18.3559
975	Supe Kh.	PURANDHAR	Pune	Checkdam	74.0364	18.3194
976	Tekavadi	PURANDHAR	Pune	Checkdam	74.1952	18.3963
977	Thapewadi	PURANDHAR	Pune	Checkdam	73.9181	18.3477
978	Thapewadi	PURANDHAR	Pune	Checkdam	73.9014	18.3474
979	Alegaon Paga	SHIRUR	Pune	Checkdam	74.3435	18.6131
980	Alegaon Paga	SHIRUR	Pune	Checkdam	74.3121	18.6456

981	Ambale	SHIRUR	Pune	Checkdam	74.3429	18.6883
982	Ambale	SHIRUR	Pune	Checkdam	74.3368	18.6979
983	Ambale	SHIRUR	Pune	Checkdam	74.3563	18.7055
984	Ambale	SHIRUR	Pune	Checkdam	74.3416	18.7111
985	Ambale	SHIRUR	Pune	Checkdam	74.3486	18.7101
986	Amdabad	SHIRUR	Pune	Checkdam	74.2526	18.8373
987	Andhalgaon	SHIRUR	Pune	Checkdam	74.3989	18.6248
988	Andhalgaon	SHIRUR	Pune	Checkdam	74.4038	18.6136
989	Andhalgaon	SHIRUR	Pune	Checkdam	74.3853	18.6197
990	Annapur	SHIRUR	Pune	Checkdam	74.2949	18.8403
991	Chandoh	SHIRUR	Pune	Checkdam	74.1682	18.9749
992	Chavhanwadi	SHIRUR	Pune	Checkdam	74.3716	18.7452
993	Chincholi	SHIRUR	Pune	Checkdam	74.1743	18.8043
994	Dhamari	SHIRUR	Pune	Checkdam	74.1062	18.7995
995	Dhanore	SHIRUR	Pune	Checkdam	74.1379	18.6172
996	Fakate	SHIRUR	Pune	Checkdam	74.1864	18.9567
997	Golegaon	SHIRUR	Pune	Checkdam	74.3748	18.7665
998	Golegaon	SHIRUR	Pune	Checkdam	74.3716	18.7751
999	Golegaon	SHIRUR	Pune	Checkdam	74.3673	18.7929
1000	Gunat	SHIRUR	Pune	Checkdam	74.4349	18.6875
1001	Gunat	SHIRUR	Pune	Checkdam	74.4327	18.6931
1002	Hivare	SHIRUR	Pune	Checkdam	74.1352	18.7863
1003	Inamgaon	SHIRUR	Pune	Checkdam	74.5346	18.5476
1004	Jambut	SHIRUR	Pune	Checkdam	74.1933	19.0041
1005	Jambut	SHIRUR	Pune	Checkdam	74.2148	18.9709
1006	Karade	SHIRUR	Pune	Checkdam	74.3577	18.7482
1007	Karandi	SHIRUR	Pune	Checkdam	74.0617	18.7249
1008	Karanjawane	SHIRUR	Pune	Checkdam	74.2529	18.7015
1009	Karanjawane	SHIRUR	Pune	Checkdam	74.2585	18.7076
1010	Karanjawane	SHIRUR	Pune	Checkdam	74.2617	18.7162
1011	Kardilwadi	SHIRUR	Pune	Checkdam	74.3019	18.8307
1012	Kasari	SHIRUR	Pune	Checkdam	74.1781	18.6799
1013	Kasari	SHIRUR	Pune	Checkdam	74.1789	18.6895
1014	Kasari	SHIRUR	Pune	Checkdam	74.1773	18.7005
1015	Kawathe	SHIRUR	Pune	Checkdam	74.1931	18.9034
1016	Kawathe	SHIRUR	Pune	Checkdam	74.1749	18.892
1017	Kawathe	SHIRUR	Pune	Checkdam	74.184	18.9022
1018	Kawathe	SHIRUR	Pune	Checkdam	74.1617	18.889
1019	Kawathe	SHIRUR	Pune	Checkdam	74.1757	18.9034
1020	Khandale	SHIRUR	Pune	Checkdam	74.2151	18.737
1021	Kohakdewadi	SHIRUR	Pune	Checkdam	74.3882	18.6337
1022	Kohakdewadi	SHIRUR	Pune	Checkdam	74.3842	18.6413
1023	Kolgaon Dolas	SHIRUR	Pune	Checkdam	74.429	18.6228
1024	Kolgaon Dolas	SHIRUR	Pune	Checkdam	74.4322	18.6136
1025	Kolgaon Dolas	SHIRUR	Pune	Checkdam	74.4333	18.6067

1026	Kolgaon Dolas	SHIRUR	Pune	Checkdam	74.4365	18.6095
1027	Koregaon Bhima	SHIRUR	Pune	Checkdam	74.0767	18.6558
1028	Malthan	SHIRUR	Pune	Checkdam	74.222	18.8378
1029	Malthan	SHIRUR	Pune	Checkdam	74.2317	18.8499
1030	Mandavgan Farata	SHIRUR	Pune	Checkdam	74.481	18.5704
1031	Mandavgan Farata	SHIRUR	Pune	Checkdam	74.4933	18.5704
1032	Mandavgan Farata	SHIRUR	Pune	Checkdam	74.5046	18.541
1033	Mandavgan Farata	SHIRUR	Pune	Checkdam	74.4847	18.5547
1034	Mandavgan Farata	SHIRUR	Pune	Checkdam	74.4788	18.5821
1035	Motewadi	SHIRUR	Pune	Checkdam	74.4014	18.7215
1036	Mukhai	SHIRUR	Pune	Checkdam	74.0998	18.7482
1037	Munjalwadi	SHIRUR	Pune	Checkdam	74.184	18.8768
1038	Munjalwadi	SHIRUR	Pune	Checkdam	74.1912	18.8829
1039	Munjalwadi	SHIRUR	Pune	Checkdam	74.2059	18.889
1040	Munjalwadi	SHIRUR	Pune	Checkdam	74.1974	18.8758
1041	Nagargaon	SHIRUR	Pune	Checkdam	74.3853	18.5918
1042	Nagargaon	SHIRUR	Pune	Checkdam	74.3681	18.5892
1043	Nhavara	SHIRUR	Pune	Checkdam	74.3676	18.6923
1044	Nhavara	SHIRUR	Pune	Checkdam	74.377	18.6725
1045	Nimgaon Mhalungi	SHIRUR	Pune	Checkdam	74.2239	18.6817
1046	Nimone	SHIRUR	Pune	Checkdam	74.4046	18.7119
1047	Nimone	SHIRUR	Pune	Checkdam	74.3936	18.7083
1048	Nimone	SHIRUR	Pune	Checkdam	74.3826	18.7101
1049	Nirvi	SHIRUR	Pune	Checkdam	74.3992	18.6497
1050	Nirvi	SHIRUR	Pune	Checkdam	74.4043	18.6382
1051	Nirvi	SHIRUR	Pune	Checkdam	74.4225	18.6451
1052	Nirvi	SHIRUR	Pune	Checkdam	74.4263	18.6357
1053	Pimpale Jagtap	SHIRUR	Pune	Checkdam	74.058	18.7025
1054	Pimpale Jagtap	SHIRUR	Pune	Checkdam	74.0628	18.6964
1055	Pimpale Khalsa	SHIRUR	Pune	Checkdam	74.1395	18.7655
1056	Pimpalsuti	SHIRUR	Pune	Checkdam	74.5131	18.6019
1057	Pimpari Dumala	SHIRUR	Pune	Checkdam	74.2151	18.7619
1058	Rakshewadi	SHIRUR	Pune	Checkdam	74.3341	18.5923
1059	Ranjangaon Ganpati	SHIRUR	Pune	Checkdam	74.2387	18.7574
1060	Ranjangaon Ganpati	SHIRUR	Pune	Checkdam	74.2451	18.7467
1061	Ranjangaon Sandas	SHIRUR	Pune	Checkdam	74.3641	18.5836
1062	Ranjangaon Sandas	SHIRUR	Pune	Checkdam	74.3413	18.576
1063	Rautwadi	SHIRUR	Pune	Checkdam	74.1443	18.7208
1064	Ravadewadi	SHIRUR	Pune	Checkdam	74.222	18.872
1065	Ravadewadi	SHIRUR	Pune	Checkdam	74.2344	18.8738
1066	Sanaswadi	SHIRUR	Pune	Checkdam	74.1084	18.6669
1067	Saradwadi	SHIRUR	Pune	Checkdam	74.3282	18.7975
1068	Saradwadi	SHIRUR	Pune	Checkdam	74.3352	18.8082
1069	Saradwadi	SHIRUR	Pune	Checkdam	74.2001	18.9914
1070	Shikrapur	SHIRUR	Pune	Checkdam	74.1239	18.6923

1071	SHIRUR	SHIRUR	Pune	Checkdam	74.3427	18.8076
1072	Takali Bhima	SHIRUR	Pune	Checkdam	74.2244	18.6725
1073	Takali Bhima	SHIRUR	Pune	Checkdam	74.237	18.6634
1074	Takali Bhima	SHIRUR	Pune	Checkdam	74.2344	18.6728
1075	Takali Bhima	SHIRUR	Pune	Checkdam	74.2086	18.6481
1076	Takali Bhima	SHIRUR	Pune	Checkdam	74.2062	18.6621
1077	Takali Haji	SHIRUR	Pune	Checkdam	74.2317	18.9488
1078	Takali Haji	SHIRUR	Pune	Checkdam	74.2113	18.9204
1079	Takali Haji	SHIRUR	Pune	Checkdam	74.2912	18.8859
1080	Takali Haji	SHIRUR	Pune	Checkdam	74.2805	18.9006
1081	Tandali	SHIRUR	Pune	Checkdam	74.5416	18.5349
1082	Uralgaon	SHIRUR	Pune	Checkdam	74.3167	18.6558
1083	Uralgaon	SHIRUR	Pune	Checkdam	74.3164	18.6657
1084	Vadgaon Rasai	SHIRUR	Pune	Checkdam	74.4512	18.591
1085	Vadgaon Rasai	SHIRUR	Pune	Checkdam	74.4453	18.5852
1086	Vadgaon Rasai	SHIRUR	Pune	Checkdam	74.4365	18.5796
1087	Wadhu Bk.	SHIRUR	Pune	Checkdam	74.0628	18.6781
1088	Wadhu Bk.	SHIRUR	Pune	Checkdam	74.0403	18.6802
1089	Antroli	VELHE	Pune	Checkdam	73.5958	18.3187
1090	Asani Manjai	VELHE	Pune	Checkdam	73.7379	18.2515
1091	Charhat Wadi	VELHE	Pune	Checkdam	73.6068	18.2798
1092	Dhanep	VELHE	Pune	Checkdam	73.6339	18.3233
1093	Gunjavane	VELHE	Pune	Checkdam	73.7007	18.2495
1094	Gunjavane	VELHE	Pune	Checkdam	73.709	18.2535
1095	Gunjavane	VELHE	Pune	Checkdam	73.7036	18.2301
1096	Khamgaon	VELHE	Pune	Checkdam	73.6873	18.3523
1097	Khamgaon	VELHE	Pune	Checkdam	73.6915	18.3533
1098	Kodavadi	VELHE	Pune	Checkdam	73.7519	18.2566
1099	Kolawadi	VELHE	Pune	Checkdam	73.754	18.3029
1100	Malavali	VELHE	Pune	Checkdam	73.7047	18.3057
1101	Malavali	VELHE	Pune	Checkdam	73.706	18.3136
1102	Metpilaware	VELHE	Pune	Checkdam	73.6353	18.2612
1103	Nigde Bk.	VELHE	Pune	Checkdam	73.7921	18.2915
1104	Pabe	VELHE	Pune	Checkdam	73.6564	18.3238
1105	Pal Bk.	VELHE	Pune	Checkdam	73.6591	18.2731
1106	Ranjane	VELHE	Pune	Checkdam	73.6867	18.335
1107	Ranjane	VELHE	Pune	Checkdam	73.695	18.3411
1108	Ranjane	VELHE	Pune	Checkdam	73.7007	18.3368
1109	Ranjane	VELHE	Pune	Checkdam	73.7084	18.3474
1110	Ranvadi	VELHE	Pune	Checkdam	73.6476	18.3787
1111	Rule	VELHE	Pune	Checkdam	73.6586	18.3507
1112	Rule	VELHE	Pune	Checkdam	73.6564	18.3591
1113	Rule	VELHE	Pune	Checkdam	73.6535	18.3673
1114	Rule	VELHE	Pune	Checkdam	73.6511	18.3734
1115	Sonde Haroji	VELHE	Pune	Checkdam	73.8213	18.2403

1116	Sonde Karla	VELHE	Pune	Checkdam	73.7947	18.2482
1117	Vinzar	VELHE	Pune	Checkdam	73.7234	18.3093
1118	Vinzar	VELHE	Pune	Checkdam	73.7248	18.3179
1119	Wangani	VELHE	Pune	Checkdam	73.7733	18.3095
1120	Wangani	VELHE	Pune	Checkdam	73.7808	18.3138