

# ATAL BHUJAL YOJANA (AtalJal)

**State : HARYANA**

**Department : IRRIGATION & WATER  
RESOURCE DEPARTMENT**

**BLOCK : RADOUR**

**DISTRICT : YAMUNA NAGAR**

**YEAR : 2023-2024**

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*Towards partial fulfilment of requirements for Disbursement of  
Incentive under DLI -1*

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# HYDROGEOLOGICAL REPORT

## (YEAR: 2023-24)

STATE	:	HARYANA
DISTRICT	:	YAMUNA NAGAR
BLOCK/TALUK	:	RADOUR
BLOCK/TALUK HQs	:	RADOUR

A GENERAL INFORMATION					
1.	Geographical area (Ha)	:	24555.19		
2.	No. of Gram Panchayats	:	69		
3.	No. of towns	:	1		
4.	No. of villages	:	84		
5.	Population (2022)	:	Male	Female	Total
			54317	50158	104475
6.	Rainfall (mm)(2022)	:	Monsoon	Non-monsoon	Annual
			932.03	394.01	1326.04
7.	River basin	:	Yamuna and Ghaggar river basin		
8.	Major soil types	:	Loamy Sand		

B LAND USE			
1.	Forest area (Ha)	:	25
2.	Cultivable area (Ha)	:	21924.80
3.	Net sown area (Ha)	:	18502.84
4.	Gross cropped area (Ha)	:	39237,60

C CROPPING PATTERN (As in 2022-23)						
1.	Major crops grown	:	Kharif	Rabi	Summer	Perennial
			Paddy	Wheat	Pulses	Polar
			Maize	Mustard	Tomato	
			Sugarcane	Sugarcane	Vegetable	
			Vegetable	Oilseeds		

D IRRIGATION FACILITIES (As in 2022-23)							
1.	Net irrigated area (Ha)	:	18503.04				
2.	Gross irrigated area (Ha)	:	31075.4				
3.	Area under irrigation (Ha) (Source-wise)	:	DW	BW/TW	Tanks/Ponds	Canals	Others
			-	31075	-		-

E GEOLOGY & HYDROGEOLOGY			
1.	Predominant rocktype	:	Sand, Silt, Clay, Gravel and Kankar
2.	Major geological formations	:	Older and Newer Alluvium
3.	Important water-bearing formations	:	Coarse grain sand
4.	Status of coverage under NAQUIM	:	Covered

F GROUND WATER CONDITIONS								
1.	No. of wells used for WaterLevel (WL) monitoring.	:	Open wells			BW/TW/ PZ		
			CGWB	SGWB	Total	CGWB	SGWB	Total
			0	0	0	4	41	45
2.	Monitoring mechanism (Nos.)	:	Manual		DWLR		Telemetry	
			CGWB	SGWB	CGWB	SGWB	CGWB	SGWB
			4	10	0	31	0	31
3.	Monitoring frequency	:	Agency	No. of times monitored/year				
			CGWB	2 times/year Pre and Post Monsoon				
			SGWB	2 times/year Pre and Post Monsoon				
4.	Period of water level data availability	:	Agency	Period of WL data availability (From - To)				
				From (year)		To (year)		
			CGWB	2015		2023		
			SGWB	2015		2023		
5.	Water level range (m.bgl) Pre-monsoon (2023) Post-monsoon (2023)	:	Minimum/Village			Maximum/Village		
			5.8/Jathlana			37.0/Jhinverheri		
			4.2/Unheri			32.4/Hartan		
6.	Seasonal WL fluctuation range (m)	:	Minimum/ Village			Maximum/ Village		
			-10.4/Sikandra			1.2/Ghilour		

G GROUND WATER QUALITY								
1.	No. of wells used for Water Quality (WQ) monitoring.		Open Wells			BW/TW/ PZ		
			CGWB	SGWB	Total	CGWB	SGWB	Total
			0	0	0	4	37	41
2.	Monitoring frequency		Agency	No. of times monitored/year				
			CGWB	1 times per year				
			SGWB	1 times per year				
3.	Period of water quality data availability		Agency	Period of WQ data availability (Years)				
			CGWB	2015 to 2023				
			SGWB	2020to 2023				
4.	Parameters analysed		Agency	Parameters Analysed				
			CGWB	pH,EC,TH,Ca,Mg,Na,K,CO <sub>3</sub> ,HCO <sub>3</sub> , SO <sub>4</sub> ,Cl,F,NO <sub>3</sub>				
			SGWB	EC				
			SGWB New	pH,EC,TDS,TH,Ca,Mg,Na,K,CO <sub>3</sub> ,HCO <sub>3</sub> , SO <sub>4</sub> ,Cl,F,NO <sub>3</sub>				
5.	Known ground water quality issues, if any		No Such Issue					

H. GROUND WATER RESOURCES								
1.	Latest assessment year		2022					
2.	Assessment Unit		Block					
3.	Annual extractable GW resource (ha.m)		9494.7					
4.	Current annual GW extraction (ha.m)		19769.6					
5.	Net GW availability for future use (ha.m)		0					
6.	Stage of GW extraction		208 %					
7.	Category of block/taluk/(2022)		Over Exploited					
8.	Category of block/taluk/ in previous assessments		2020	2017	2013	2011	2009	2004
			Over Exploited	Over Exploited	Over Exploited	Over Exploited	Over Exploited	Over Exploited

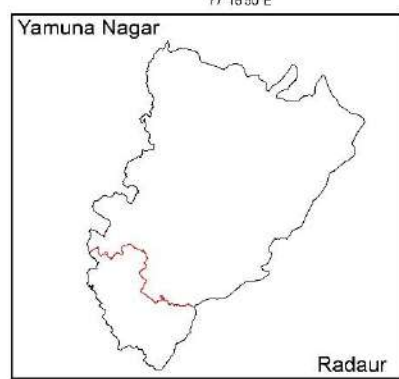
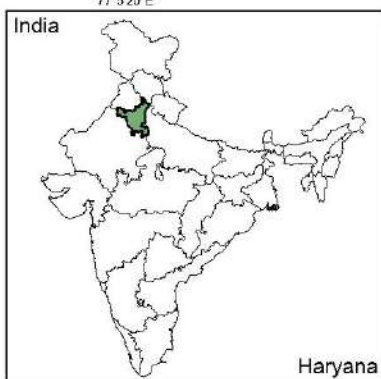
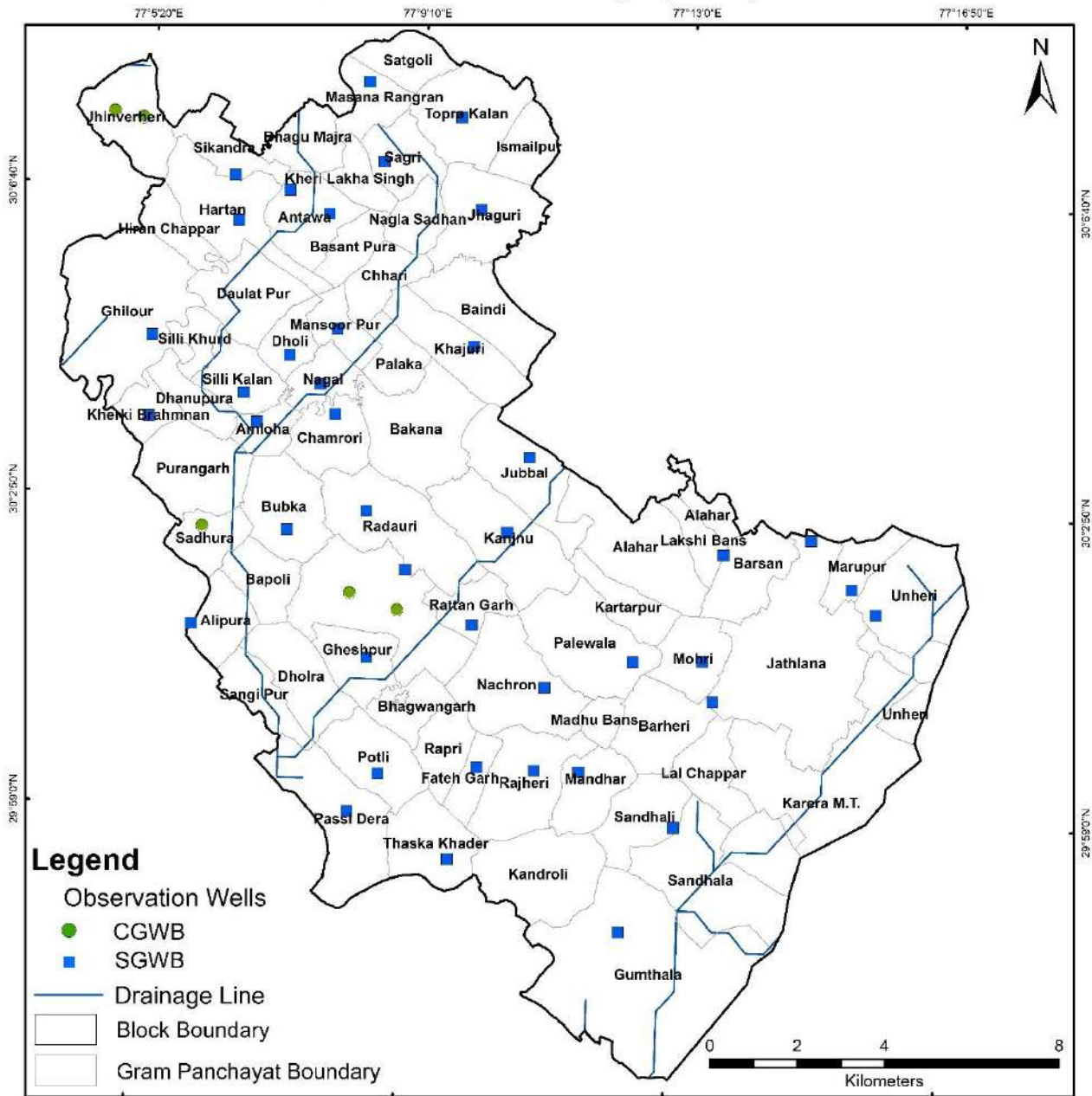
I WATER-RELATED SCHEMES							
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1.	Schemes with a bearing on ground water, being implemented in the block / taluk.		
	Centrally Sponsored /Central Sector Schemes	i)	PMKSY
		ii)	MNREGA
		iii)	RKVY
		iv)	JJM
	State Schemes	i)	State Plan Scheme for providing assistance on adopting water saving technologies (2402)
		ii)	MPMV
		iii)	
		iv)	

<b>J</b>	<b>GROUND WATER RELATED ISSUES</b>		
1.	Ground water related issues of the block		
	i) Issues related to GW availability	:	Due to Groundwater over exploitation subsequently the present stage of ground water extraction is 208%
	ii) Issues related to GW quality	:	The ground water is alkaline in nature and is of low to medium salinity.
	iii) Other issues if any.	:	No

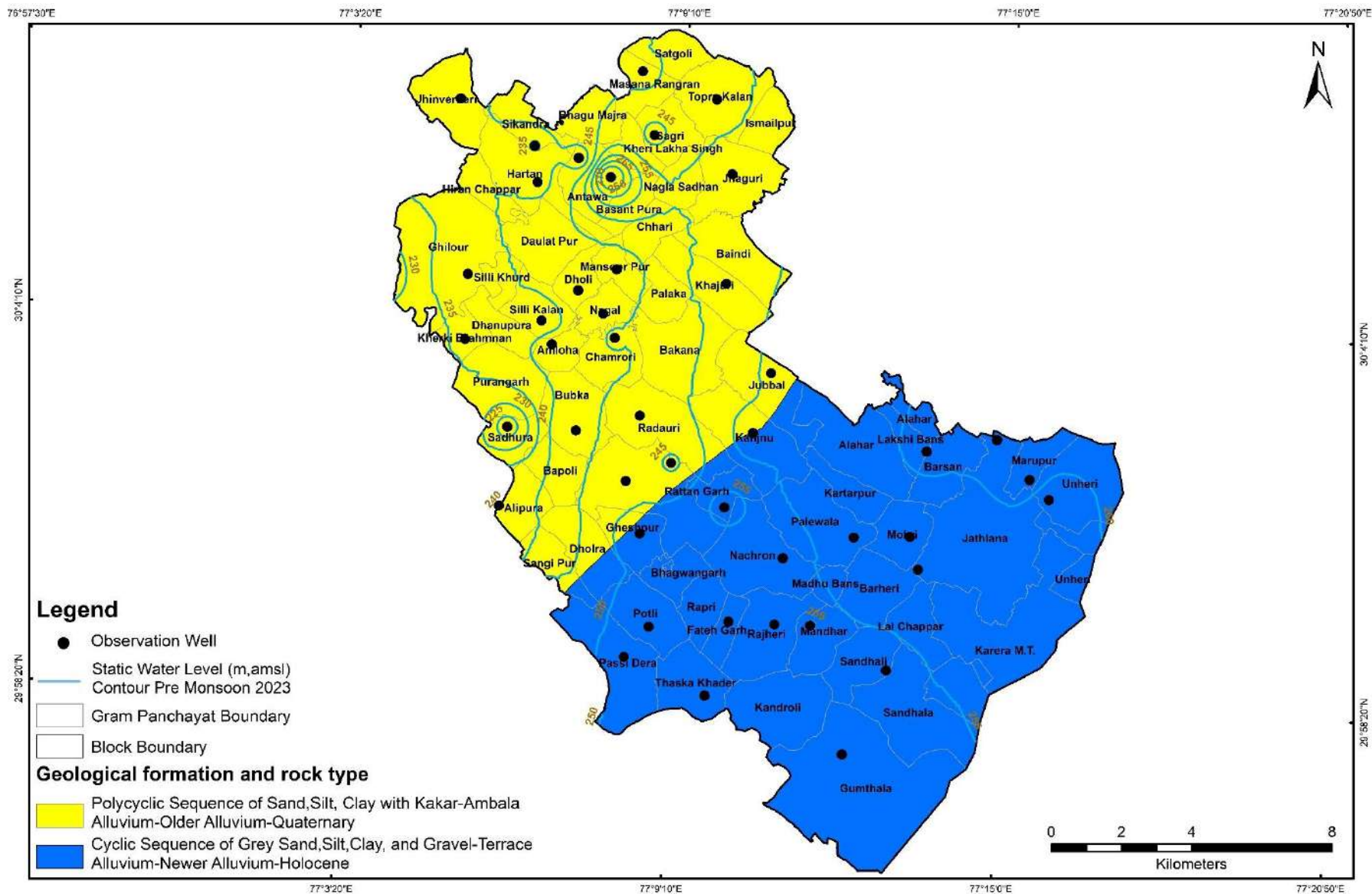
<b>K</b>	<b>ANNEXURES</b>
I	Basic data of observation wells – Attached
II.	Historical water level data – Attached
III.	Historical water quality data – Attached

## Location Map of Block- Radaur, District- Yamuna Nagar, Haryana

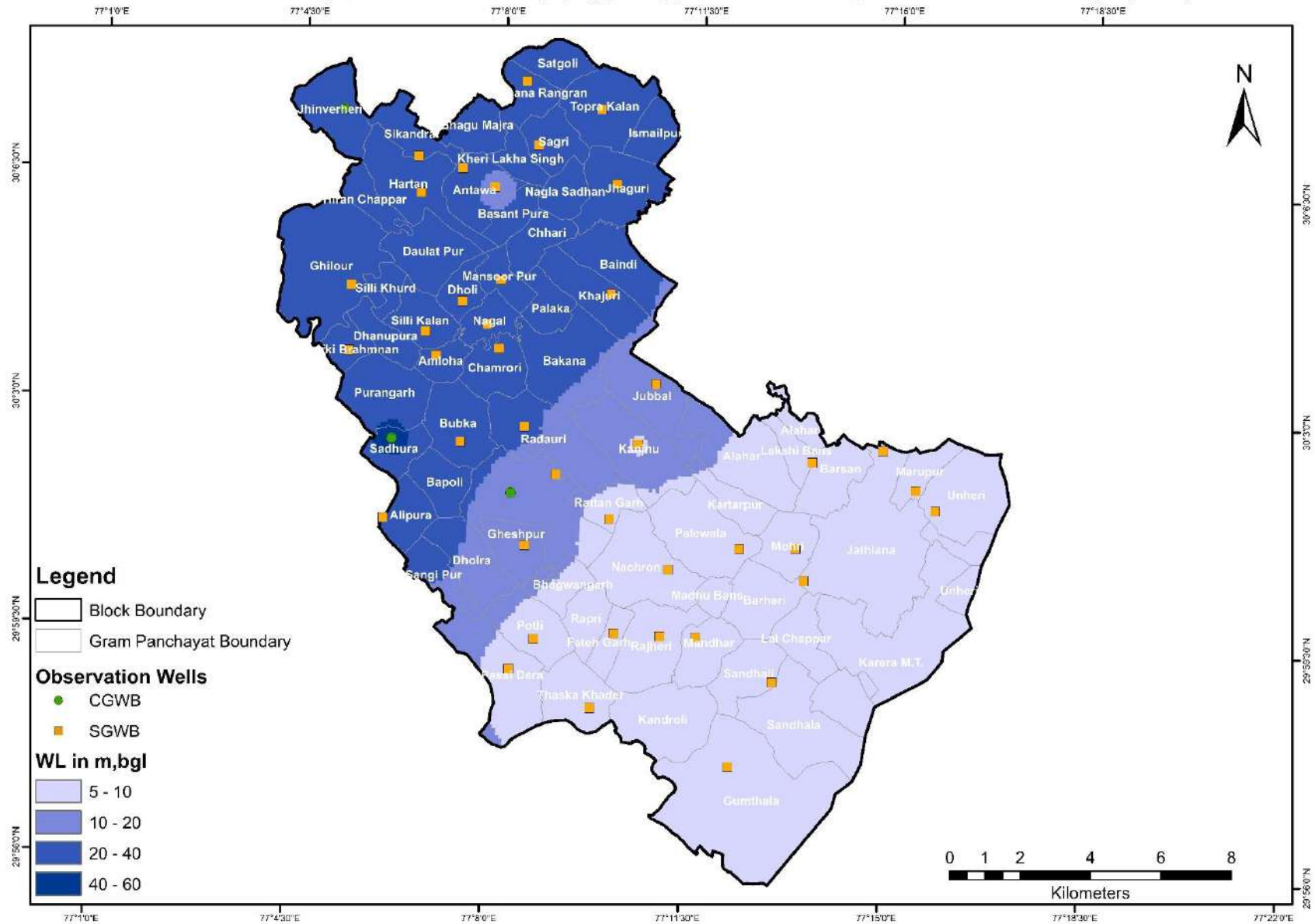




# Hydrogeological Map, Block- Radaur, District- Yamunanagar, Haryana

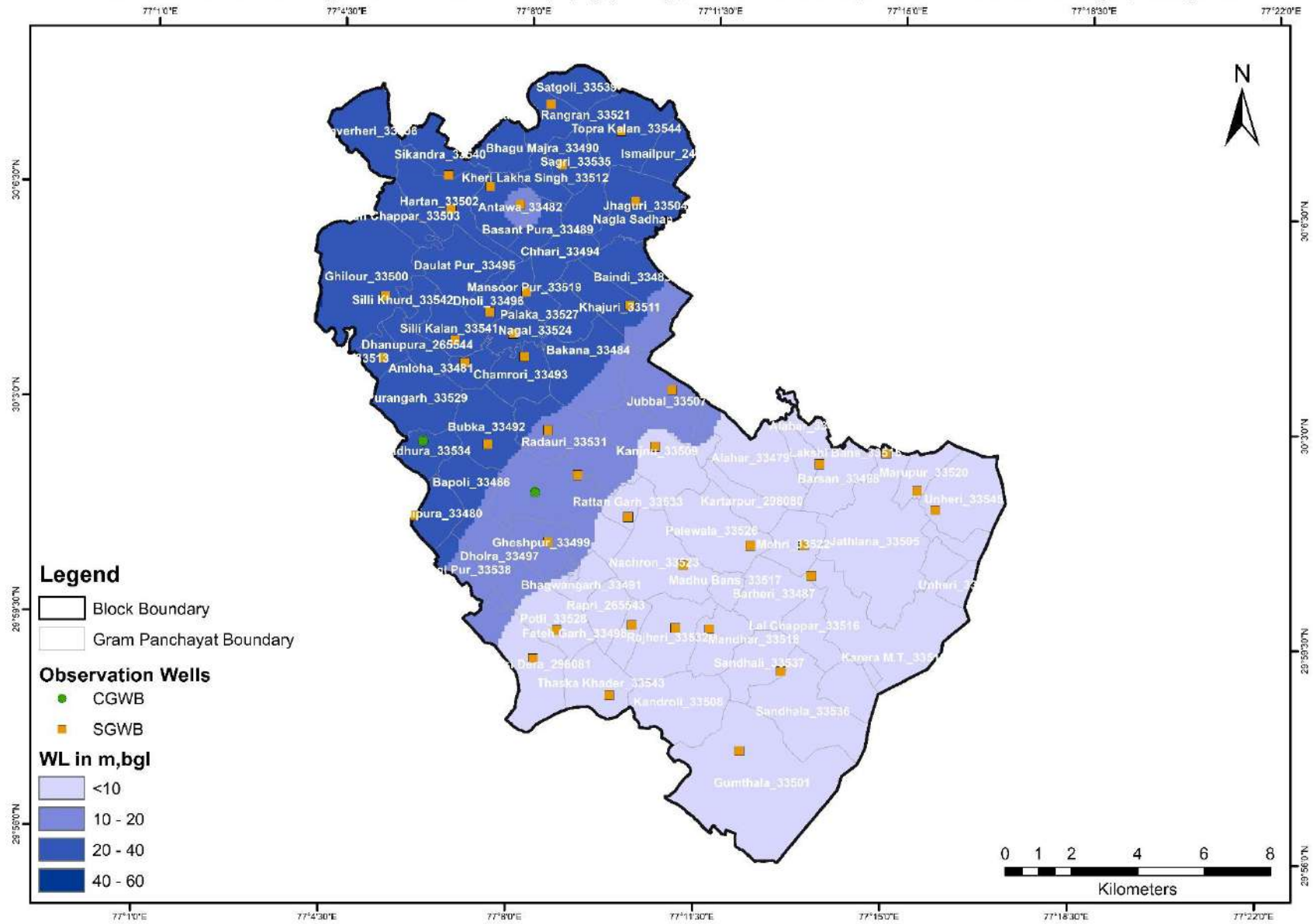


### Pre Monsoon 2023 Depth to Water Level (m,bgl) Map, Block - Radaur, District - Yamunanagar, Haryana

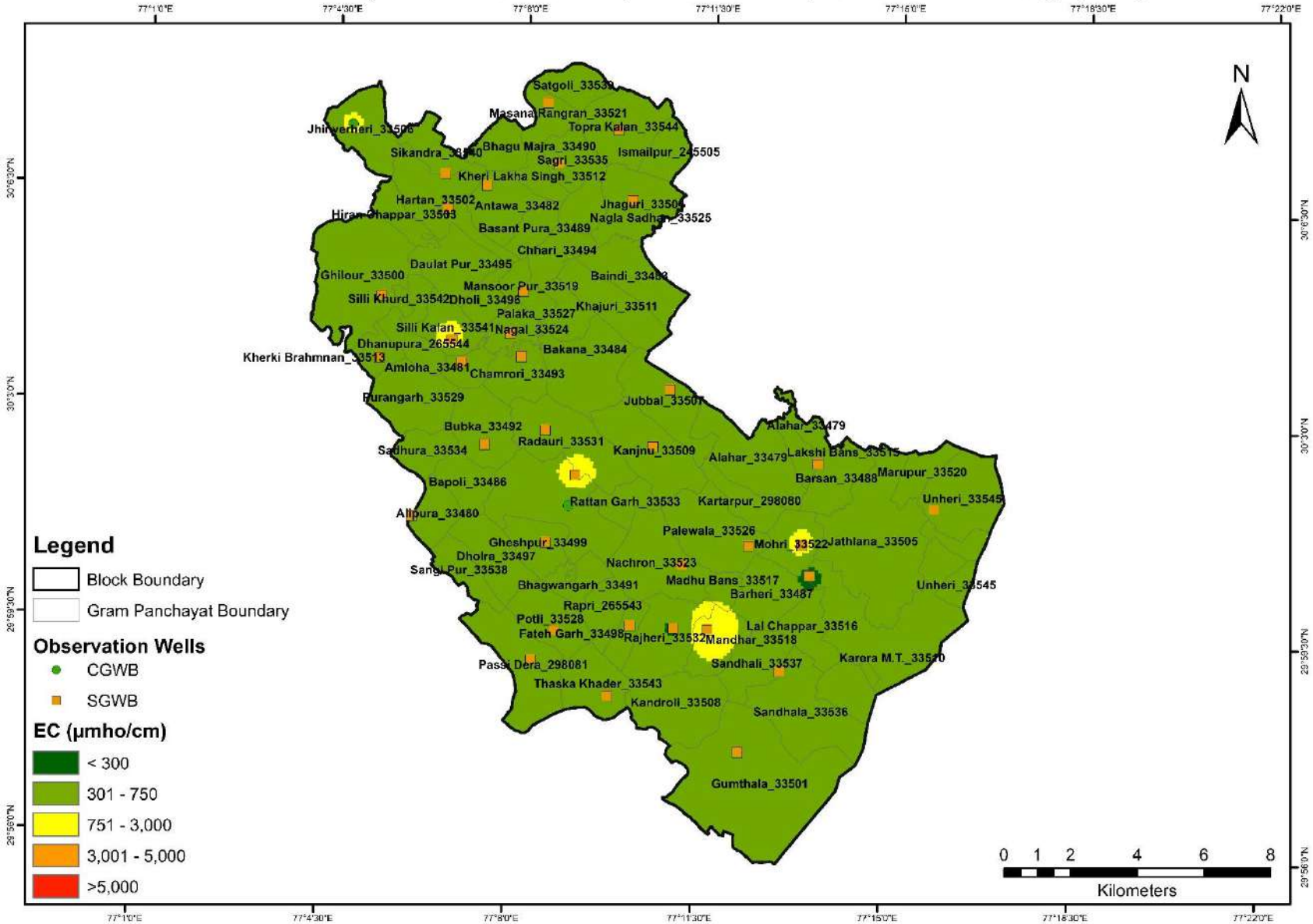




### Post Monsoon 2023 Depth to Water Level (m,bgl) Map, Block - Radaur, District - Yamunanagar, Haryana



### Electrical Conductivity of Groundwater-2023, Block - Radaur, District - Yamunanagar, Haryana



**ANNEXURE: I**  
**BASIC DATA OF MONITORING WELLS**

State	Haryana				District	Yamuna Nagar				Block	Radour				
S.No	Well ID	GP Name	Name of the village	Site Name	Latitude	Longitude	Type of Well (DW/Pz)	Reduced Level (m,asl)	Aquifer Type/Lithology	Height of Measuring (m,agl)	Depth (m,bgl)	Diameter (m)	Purpose of Monitoring (WL/WQ)	Monitoring Mechanism	Agency
1	Ch_30.0648_77.1339	Chamrori_33493	Chamrori	In Co-op. Bank	30.06485	77.13392	PZ	268	Unconfined to Semi Confined	0.65	27.4	0.1	Both	Manual	SGWB
2	An_30.1108_77.1215	Antawa_33482	Antewa	In Shiv Mandir	30.11076	77.12152	PZ	269.2	Unconfined to Semi Confined	0.65	75	0.1	Both	Manual	SGWB
3	Ja_30.4631_77.2256	Jathlana_33505	Jathlana	South of Niwarsi Dera	30.46305	77.22556	PZ	265.85	Unconfined to Semi Confined	0.65	80	0.1	Both	Manual	SGWB
4	Kh_29.983_77.1398	Passi Dera_298081	Khurdban	Main road of village center	29.98301	77.13979	PZ	258.61	Unconfined to Semi Confined	0.65	NA	0.1	Both	Manual	SGWB
5	Ma_29.9926_77.1944	Mandhar_33518	Mandhar	Near Guru Nanak Dwar	29.9926	77.19442	PZ	265.7	Unconfined to Semi Confined	0.65	51	0.1	Both	Manual	SGWB
6	Mo_30.0162_77.2229	Mohri_33522	Mohri	300 m east of Mohri Village	30.01623	77.22294	PZ	268.37	Unconfined to Semi Confined	0.65	51	0.1	Both	Manual	SGWB
7	Ra_30.0332_77.1518	Radauri_33531	Radour	South of village pond	30.03322	77.15176	PZ	260.52	Unconfined to Semi Confined	0.65	30.48	0.1	Both	Manual	SGWB
8	Si_30.1135_77.1084	Sikandra_33540	Sikendra	North of Niwarsi Dera	30.11348	77.1084	PZ	269	Unconfined to Semi Confined	0.65	58.4	0.1	Both	Manual	SGWB
9	Si_30.068_77.1122	Silli Kalan_33541	Silikalan	South of village pond	30.06871	77.11216	TW	267.77	Unconfined to Semi Confined	0.7	61	0.254	Both	Manual	SGWB
10	W300130077090001	Gheshpur_33499	Radaur S	Radaur S	30.0282	77.1386	PZ	260	Unconfined to Semi Confined	0.22	30.5	0.062	WL	Manual	CGWB

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11	HR_GW_918	Alipura_33480	Alipura	Govt. Middle School, Alipura	30.02078	77.10139	PZ	266	Semi-Confined To Confined	0.5	72	0.1	Both	Telemetry	SGWB
12	HR_GW_936	Amloha_33481	Amloha	Govt. Primary School, Almoha	30.06268	77.11542	PZ	270	Semi-Confined To Confined	0.5	71	0.1	Both	Telemetry	SGWB
13	HR_GW_937	Bubka_33492	Bubka	Govt. Middle School, Bubka	30.04075	77.12341	PZ	269	Semi-Confined To Confined	0.5	59	0.1	Both	Telemetry	SGWB
14	HR_GW_933	Dholi_33496	Dholi	Govt. Primary School, Dholi	30.07673	77.12269	PZ	271	Semi-Confined To Confined	0.5	72	0.1	Both	Telemetry	SGWB
15	HR_GW_938	Fateh Garh_33498	Fatehgarh	Veterinary Hospital, Fatehgarh	29.99295	77.1703	PZ	259	Semi-Confined To Confined	0.5	73	0.1	Both	Telemetry	SGWB
16	HR_GW_920	Gheshpur_33499	Gheshpur	Govt. Primary School, Gheshpur	30.01481	77.14322	PZ	265	Semi-Confined To Confined	0.5	74	0.1	Both	Telemetry	SGWB
17	HR_GW_939	Ghilour_33500	Ghilour	Govt. Primary School, Ghilour	30.08002	77.08995	PZ	270	Semi-Confined To Confined	0.5	73	0.1	Both	Telemetry	SGWB
18	HR_GW_940	Gumthala_33501	Gumthala	Govt. Sen. Sec. School	29.9598	77.20502	PZ	261	Semi-Confined To Confined	0.5	74	0.1	Both	Telemetry	SGWB
19	HR_GW_921	Hartan_33502	Hartan	Community Hall, Hartan	30.10421	77.10958	PZ	271	Semi-Confined To Confined	0.5	77	0.1	Both	Telemetry	SGWB
20	HR_GW_922	Jhaguri_33504	Jhaguri	Govt. Primary School, Jhaguri	30.10792	77.16705	PZ	276	Semi-Confined To Confined	0.5	64	0.1	Both	Telemetry	SGWB
21	HR_GW_941	Jubbal_33507	Jubbal	Govt. Primary School, Jubbal	30.05714	77.18041	PZ	271	Semi-Confined To Confined	0.5	72	0.1	Both	Telemetry	SGWB

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22	HR_GW_923	Kanjnu_33509	Kanjnu	Govt. Middle School, Kanjnu	30.0416	77.17565	PZ	266	Semi-Confined To Confined	0.5	73	0.1	Both	Telemetry	SGWB
23	HR_GW_924	Karera M.T._33510	Karera Mt	Govt. Middle School, Karera MT	30.00791	77.22566	PZ	265	Semi-Confined To Confined	0.5	65	0.1	Both	Telemetry	SGWB
24	HR_GW_925	Khajuri_33511	Khajuri	Govt. Primary School, Khajuri	30.07974	77.16635	PZ	274	Unconfined To Semi-Confined	0.5	75	0.1	WL	Telemetry	SGWB
25	HR_GW_929	Kherki Brahman_33513	Kherki Barhaman	Govt. Primary School, Kherki Barhaman	30.06328	77.08974	PZ	270	Semi-Confined To Confined	0.5	73	0.1	Both	Telemetry	SGWB
26	HR_GW_926	Lakshi Bans_33515	Lakshi Bans	Panchyat Bhawan, Lakshi Bans	30.0383	77.2271	PZ	267	Unconfined To Semi-Confined	0.5	76	0.1	Both	Telemetry	SGWB
27	HR_GW_927	Mansoor Pur_33519	Mansoor Pur	Govt. Primary School, Mansoorpur	30.08244	77.13382	PZ	273	Semi-Confined To Confined	0.5	66	0.1	Both	Telemetry	SGWB
28	HR_GW_942	Marupur_33520	Marupur	Govt Primary School, Marupur	30.03188	77.25778	PZ	268	Unconfined To Semi-Confined	0.5	76	0.1	WL	Telemetry	SGWB
29	HR_GW_947	Masana Rangran_33521	Masana Ragnan	Govt. Sen. Sec. School, Masana Ragnan	30.1336	77.13959	PZ	275	Semi-Confined To Confined	0.5	76	0.1	Both	Telemetry	SGWB
30	HR_GW_928	Nachron_33523	Nachron	Veterinary Hospital, Nachron	30.00972	77.18569	PZ	262	Semi-Confined To Confined	0.5	58	0.1	Both	Telemetry	SGWB
31	HR_GW_943	Nagal_33524	Nagal	Govt. Primary School, Nagal	30.07097	77.13024	PZ	271	Semi-Confined To Confined	0.5	65	0.1	Both	Telemetry	SGWB
32	HR_GW_919	Palewala_33526	Palewala	Govt. Middle School,	30.01561	77.2064	PZ	263	Semi-Confined To	0.5	76	0.1	Both	Telemetry	SGWB

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				Palewala					Confined						
33	HR_GW_944	Potli_33528	Potli	Govt. Middle School, Potli	29.99094	77.14681	PZ	260	Semi-Confined To Confined	0.5	61	0.1	Both	Telemetry	SGWB
34	HR_GW_930	Radauri_33531	Radauri	Govt. Primary School, Radauri	30.04513	77.14207	PZ	270	Semi-Confined To Confined	0.5	59	0.1	Both	Telemetry	SGWB
35	HR_GW_945	Rajheri_33532	Rajheri	Govt. Middle School, Rajheri	29.99262	77.18386	PZ	262	Unconfined To Semi-Confined	0.5	63	0.1	Both	Telemetry	SGWB
36	HR_GW_946	Rattan Garh_33533	Rattan Garh	Govt. Primary School, Rattangarh	30.02225	77.16796	PZ	262	Unconfined To Semi-Confined	0.5	65	0.1	WL	Telemetry	SGWB
37	HR_GW_931	Sagri_33535	Sagri	Govt. Crematorium, Sagri	30.11727	77.14366	PZ	273	Unconfined To Semi-Confined	0.5	75	0.1	Both	Telemetry	SGWB
38	HR_GW_932	Sandhali_33537	Sandhali	Coporative Bank	29.98175	77.2172	PZ	261	Semi-Confined To Confined	0.5	65	0.1	Both	Telemetry	SGWB
39	HR_GW_934	Thaska Khader_33543	Thaska Khadar	Govt. Middle School, Thaska Khadar	29.97374	77.16394	PZ	258	Unconfined To Semi-Confined	0.5	63	0.1	Both	Telemetry	SGWB
40	HR_GW_948	Topra Kalan_33544	Topran Kalan	Govt. Primary School, Topran Kalan	30.12696	77.16176	PZ	275	Unconfined To Semi-Confined	0.5	76	0.1	Both	Telemetry	SGWB
41	HR_GW_935	Unheri_33545	Unheri	Amberdkar Bhawan, Unheri	30.02688	77.26365	PZ	265	Semi-Confined To Confined	0.5	68	0.1	Both	Telemetry	SGWB
42	W300307077071801	Sadhura_33534	Sadhura	Sadhura-Pz	30.0411	77.1031	PZ	NA	Unconfined to Semi Confined	0.5	105	0.1	WL	Manual	CGWB

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43	W30073007705 1001	Jhinverheri_33 506	Jiwanher i	Jiwanheri	30.1261 1	77.0792 5	Tube Well	NA	Alluvium	NA	NA	NA	WQ	Manual	CG WB
44	W30075507707 2601	Masana Jattan_33458	Masana Jattan	Masana Jattan	30.1313 9	77.1272 2	Tube Well	277	Alluvium	1	NA	NA	WQ	Manual	CG WB
45	W30013007709 0001	Radaur	Radaur	Radaur	30.025	77.15	Hand Pump	269	Alluvium	NA	NA	NA	WQ	Manual	CG WB
46	W30073707706 5401	Sahabpura_33 470	Shahabp ura	Shahabpura	30.13	77.11472	Tube Well	274	Alluvium	1	NA	NA	WQ	Manual	CG WB
47	Bh_30.1421_77.31 65	Antawa_3348 2	Bhojpur	LHS of Village	30.142 08	77.3165 2	Piezome ter	284	Unconfined to Semi Confined	0.5	70	0.1	WL	Manual	SGW B
48	Jh_30.1186_77.08 61	Jhinverheri_33 506	Jhiwarhe ri M	Jhiwarheri M	30.125	77.0861	Piezome ter	273	Unconfined to Semi Confined	0.5	199.6	0.1	WL	Manual	CG WB
49	Jh_30.118_77.086	Jhinverheri_33 506	Jhiwarhe ri S	Jhiwarheri S	30.125	77.0861	Piezome ter	273	Unconfined to Semi Confined	0.5	63	0.1	WL	Manual	CG WB

**ANNEXURE: 2**  
**WATER LEVEL (WL) DATA OF MONITORING WELLS**

<b>State</b>	<b>Haryana</b>	<b>District</b>	<b>Yamuna Nagar</b>	<b>Block</b>	<b>Radour</b>
<b>Month of Pre-monsoon Water Level Measurement</b>					<b>June</b>
<b>Month of Post-monsoon water Level measurement</b>					<b>October</b>

Obs Point	Sou rce	Well Type	Lat	Lo ng	Pre_2015	Post_2015	Pre_2016	Post_2016	Pre_2017	Post_2017	Pre_2018	Post_2018	Pre_2019	Post_2019	Pre_2020	Post_2020	Pre_2021	Post_2021	Pre_2022	Post_2022	Pre_2023	Post_2023
Chamrori_33493	SG WB	Piezo meter	30.0648	77.134	24.2	24.5	24.3	NA	24.4	24.9	24.5	23.8	24.6	26.1	23.6	24.6	23.3	25.0	24.0	25.3	25.6	24.1
Antawa_33482	SG WB	Piezo meter	30.1108	77.122	28.3	27.5	28.5	NA	28.5	29.4	28.6	27.0	28.7	29.8	29.8	31.5	30.6	32.3	32.2	33.0	32.4	29.4
Jathlana_33505	SG WB	Piezo meter	30.0418	77.248	7.1	6.1	7.2	NA	7.3	7.8	7.3	6.3	7.4	5.4	5.3	4.0	4.8	4.9	4.3	4.0	5.8	5.2
Passi Dera_298081	SG WB	Piezo meter	29.983	77.14	6.5	5.8	6.7	NA	6.8	6.6	6.9	6.0	7.0	5.6	6.3	6.6	6.8	7.0	6.2	5.8	7.8	4.8
Mandhar_33518	SG WB	Piezo meter	29.9926	77.194	5.2	5.4	5.4	NA	5.5	5.2	5.6	4.6	5.6	4.0	5.1	4.9	5.9	6.0	7.1	7.7	7.0	8.0
Mohri_33522	SG WB	Piezo meter	30.0162	77.223	5.6	5.7	6.0	NA	6.1	5.6	6.1	5.1	6.2	4.1	4.9	4.7	5.8	6.1	6.7	8.1	6.7	6.2
Radauri_33531	SG WB	Piezo meter	30.0332	77.152	16.6	16.7	16.7	NA	16.8	15.6	16.8	15.0	16.9	14.9	15.8	15.4	15.8	15.5	16.0	17.5	16.2	14.0
Sikandra_33540	SG WB	Piezo meter	30.1135	77.108	30.4	30.6	30.6	NA	30.7	31.2	30.7	31.6	31.0	32.8	32.6	34.3	32.2	33.9	33.8	34.2	34.6	24.2
Silli Kalan_33541	SG WB	Tube Well	30.0687	77.112	27.6	28.0	27.7	NA	28.0	29.5	28.3	29.0	28.5	28.0	28.8	30.5	31.0	32.7	31.5	31.7	31.5	29.2
Jhinverheri_33506	CG WB	Piezo meter	30.1186	77.086	NA	33.3	32.4	33.6	33.0	34.0	33.3	33.3	34.9	34.0	33.4	34.8	19.3	24.0	34.7	35.9	37.0	NA
Jhinverheri_33506	CG WB	Piezo meter	30.1186	77.086	NA	32.4	31.3	33.0	32.4	33.8	32.6	34.3	34.7	NA	33.2	33.7	NA	34.1	33.1	34.5	37.0	NA
Gheshpur_33499	CG WB	Piezo meter	30.0169	77.15	14.5	14.7	16.1	15.7	16.3	15.2	17.1	15.6	NA	15.1	15.5	NA	16.1	15.5	16.0	14.9	16.3	13.4
Antawa_33482	SG WB	Piezo meter	30.1421	77.317	19.1	18.6	19.6	NA	20.1	19.1	18.0	16.3	16.1	14.0	15.4	14.2	14.2	13.3	19.8	20.0	12.7	12.6







**ANNEXURE: 3**  
**HISTORICAL WATER QUALITY (WQ) DATA OF MONITORING WELLS BY SGWB**

State	Haryana	District	Yamuna Nagar	Block	Radour
Month of Collection of sample for WQ monitoring*					June

Village	Source	Type of well	Latitude	Longitude	Year	pH	EC	TDS	TH	Ca	Mg	Na	K	CO <sub>3</sub>	HCO <sub>3</sub>	SO <sub>4</sub>	Cl	F	NO <sub>3</sub>	
Jiwanheri	CGWB	Tw	30.12611111	77.07925	2015	Sample not collected from this location														
Jiwanheri	CGWB	Tw	30.12611111	77.07925	2016	7.95	490	ND	88.0	31.0	2.3	79.0	4.1	0.0	149.0	122.0	7.1	0.46	BDL	
Jiwanheri	CGWB	Tw	30.12611111	77.07925	2017	8.05	628	ND	194.0	49.0	17.0	60.0	8.3	0.0	316.0	58.0	6.7	0.28	0.37	
Jiwanheri	CGWB	Tw	30.12611111	77.07925	2018	8.53	493	ND	90.0	8.0	17.0	77.0	1.9	30.0	171.0	28.0	21.0	0.97	0.20	
Jiwanheri	CGWB	Tw	30.12611111	77.07925	2019	8.53	523	ND	150.0	16.0	27.0	69.7	2.1	24.0	195.0	40.0	35.0	0.30	11.00	
Jiwanheri	CGWB	Tw	30.12611111	77.07925	2020	8.61	557	ND	120.1	20.0	17.0	71.0	8.5	48.0	183.1	0.0	28.4	5.00	0.22	
Jiwanheri	CGWB	Tw	30.12611111	77.07925	2021	8.81	480	ND	100.1	8.0	19.5	88.0	4.4	46.8	238.0	0.0	14.2	0.54	0.00	
Jiwanheri	CGWB	Tw	30.12611111	77.07925	2022	8.35	505	ND	114.0	8.0	22.8	69.0	4.2	0.0	284.0	0.0	21.0	0.42	0.20	
Jiwanheri	CGWB	Tw	30.12611111	77.07925	2023	8.2	780	ND	240.0	44.0	31.6	93.6	5.5	0.0	427.0	24.0	49.7	0.84	0.10	
Masana Jattan	CGWB	Tw	30.13138889	77.12722222	2015	Sample not collected from this location														
Masana Jattan	CGWB	Tw	30.13138889	77.12722222	2016	8	645	ND	177.0	55.0	9.6	65.0	7.6	0.0	275.0	BDL	69.0	0.29	0.97	
Masana Jattan	CGWB	Tw	30.13138889	77.12722222	2017	8.03	560	ND	184.0	53.0	12.0	62.0	5.8	0.0	263.0	80.0	15.0	0.38	BDL	
Masana Jattan	CGWB	Tw	30.13138889	77.12722222	2018	8.11	480	ND	160.0	24.0	24.0	57.6	3.3	0.0	268.0	22.0	28.0	0.63	0.20	
Masana Jattan	CGWB	Tw	30.13138889	77.12722222	2019	8.49	357	ND	120.0	20.0	17.0	51.6	4.0	24.0	171.0	13.0	28.0	0.44	0.20	
Masana Jattan	CGWB	Tw	30.13138889	77.12722222	2020	Sample not collected from this location														
Masana Jattan	CGWB	Tw	30.13138889	77.12722222	2021	8.69	361	ND	110.1	20.0	14.6	48.0	4.8	46.8	158.7	0.0	14.2	0.47	0.54	
Masana Jattan	CGWB	Tw	30.13138889	77.12722222	2022	8.1	465	ND	154.0	26.0	21.6	42.0	4.2	0.0	142.0	0.0	88.0	0.58	0.70	
Masana Jattan	CGWB	Tw	30.13138889	77.12722222	2023	7.8	730	ND	310.0	80.0	26.8	39.3	6.5	0.0	414.8	0.0	49.7	0.71	0.16	
Radaur	CGWB	Hp	30.025	77.15	2015	8.53	343	ND	132.7	28.6	14.9	28.0	4.6	17.6	89.2	32.0	38.2	0.48	5.00	
Radaur	CGWB	Hp	30.025	77.15	2016	7.55	320	ND	147.0	27.0	19.0	16.0	3.7	0.0	156.0	15.0	28.0	0.41	BDL	
Radaur	CGWB	Hp	30.025	77.15	2017	8.1	472	ND	214.0	74.0	7.4	18.0	4.1	0.0	248.0	10.0	28.0	0.48	BDL	
Radaur	CGWB	Hp	30.025	77.15	2018	8.55	430	ND	130.0	20.0	19.0	51.0	2.9	72.0	24.0	73.0	28.0	0.37	2.96	

AtalBhujalYojana - Block Hydrogeological Report

Radaur	CGWB	Hp	30.025	77.15	2019	8.06	404	ND	160.0	16.0	29.0	17.9	2.8	0.0	122.0	8.2	64.0	0.52	2.22
Radaur	CGWB	Hp	30.025	77.15	2020	8.36	350	ND	140.1	24.0	19.5	18.0	4.7	24.0	85.4	15.0	35.5	0.06	0.90
Radaur	CGWB	Hp	30.025	77.15	2021	8.55	332	ND	150.1	24.0	21.9	17.0	4.3	31.2	126.9	0.0	28.4	0.36	0.00
Radaur	CGWB	Hp	30.025	77.15	2022	8.11	392	ND	176.0	26.0	27.0	16.0	3.8	0.0	192.0	0.0	35.0	0.41	0.30
Radaur	CGWB	Hp	30.025	77.15	2023	8.25	460	ND	210.0	36.0	29.2	19.6	5.8	nil	219.6	19.2	35.5	0.97	0.33
Shahabpura	CGWB	Tw	30.13	77.11472222	2015	Sample not collected from this location													
Shahabpura	CGWB	Tw	30.13	77.11472222	2016	8	625	ND	157.0	24.0	24.0	70.0	7.9	0.0	263.0	BDL	69.0	0.43	0.76
Shahabpura	CGWB	Tw	30.13	77.11472222	2017	7.98	994	ND	286.0	78.0	22.0	108.0	11.0	0.0	339.0	228.0	6.9	0.44	1.13
Shahabpura	CGWB	Tw	30.13	77.11472222	2018	8.06	490	ND	160.0	28.0	22.0	56.0	3.1	0.0	256.0	23.0	28.0	0.53	0.20
Shahabpura	CGWB	Tw	30.13	77.11472222	2019	8.06	418	ND	140.0	36.0	12.0	58.8	2.8	0.0	268.0	8.2	28.0	0.41	0.20
Shahabpura	CGWB	Tw	30.13	77.11472222	2020	8.6	609	ND	130.1	20.0	19.5	84.0	8.1	48.0	195.3	39.0	21.3	0.12	0.27
Shahabpura	CGWB	Tw	30.13	77.11472222	2021	8.78	361	ND	100.1	12.0	17.0	51.0	5.0	31.2	174.5	0.0	21.3	0.56	0.00
Shahabpura	CGWB	Tw	30.13	77.11472222	2022	8.28	406	ND	136.0	12.0	25.8	32.0	3.8	0.0	126.0	0.0	71.0	0.41	1.20
Shahabpura	CGWB	Tw	30.13	77.11472222	2023	7.75	650	ND	200.0	44.0	21.9	72.0	6.1	0.0	366.0	0.0	53.3	0.72	0.16
Fateh Garh_33498	SGWB	Pz	29.992945	77.170297	2023	8.06	414	273	140	40	10.98	45	20	0	130	12	70	0.76	5
Kanjnu_33509	SGWB	Pz	30.041597	77.175651	2023	7.56	367	239	138.2	39.4	9.6	32	3.8	0	130.9	18	35.6	0.29	16
Karera M.T._33510	SGWB	Pz	30.00791	77.225657	2023	7.76	226	152	78.9	21.7	6	19	2	0	53.6	12	40.4	0.45	14
Amloha_33481	SGWB	Pz	30.06268	77.115417	2023	7.23	357	211	128.3	35.5	9.6	23	4	0	119	12	40.4	0.12	12
Dholi_33496	SGWB	Pz	30.076734	77.122685	2023	7.25	550	330	207.2	57.2	15.6	36	8.2	0.2	184.5	24	59.4	0.3	18
Kherki Brahman_33513	SGWB	Pz	30.06328	77.089743	2023	7.44	559	319	170	40	13.71	50	25	0	150	16	80	0.56	5
Masana Rangran_33521	SGWB	Pz	30.133597	77.139587	2023	7.63	527	337	201.01	59.74	12.59	34.07	7.42	0	153.7	27.63	102.31	0.18	24.28
Mansoor Pur_33519	SGWB	Pz	30.082444	77.133824	2023	7.42	743	491	286.2	74.9	24.1	62	8	0	273.7	42	97.4	1.45	12
Ghilour_33500	SGWB	Pz	30.080024	77.089947	2023	7.43	684	397	271.4	74.9	20.5	36	9.2	0	238	25.9	61.8	0.28	20
Thaska Khader_33543	SGWB	Pz	29.973735	77.163935	2023	7.85	377	215	138.2	37.5	10.8	22	3.5	0	119	14	35.6	0.54	16
Potli_33528	SGWB	Pz	29.990944	77.14681	2023	7.45	327	213	123.3	31.6	10.8	29	6.2	0	107.1	15	33.3	0.43	18
Jubbal_33507	SGWB	Pz	30.057135	77.180405	2023	7.45	485	330	217.1	59.2	16.8	34	12	0	184.5	21	66.5	0.34	22
Topra Kalan_33544	SGWB	Pz	30.126959	77.161764	2023	7.4	628	395.6	217.1	63.1	14.4	64.4	7.04	0	178.5	25.6	87.8	0.26	21.1

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Nagal_33524	SGWB	Pz	30.070974	77.130238	2023	7.49	338	213	128.3	33.5	10.8	22	3.5	0	125	19.9	30.9	0.12	14
Lakshi Bans_33515	SGWB	Pz	30.038302	77.227104	2023	7.54	306	196	103.6	27.6	8.4	23	4	0	89.3	18	42.8	0.67	15
Jhaguri_33504	SGWB	Pz	30.107922	77.167046	2023	7.54	540	330	197.4	55.2	14.4	32	8.9	0	196.4	22	59.4	0.19	21
Nachron_33523	SGWB	Pz	30.009723	77.185685	2023	7.56	537	312	217.1	63.1	14.5	32	8	0	172.6	22	52.3	0.23	18
Rajheri_33532	SGWB	Pz	29.992617	77.183859	2023	7.63	253	160	88.8	21.7	8.4	18	2	0	59.5	18	35.6	0.43	15
Radauri_33531	SGWB	Pz	30.045127	77.142074	2023	7.65	433	269	172.7	51.3	10.8	28	7.4	0	160.7	19	38	0.51	16
Alipura_33480	SGWB	Pz	30.020783	77.101391	2023	7.67	515	330	227	61.1	18	28	9	0	178.5	21	61.8	0.34	19
Sagri_33535	SGWB	Pz	30.11727	77.143659	2023	7.84	442	282.9	143.1	45.4	7.2	28	6	0	89.3	12	90.3	0.4	16
Gheshpur_33499	SGWB	Pz	30.014814	77.143218	2023	7.86	310	214	128.3	31.6	12	20	4.5	0	125	19.9	33.3	0.23	15
Hartan_33502	SGWB	Pz	30.104205	77.109575	2023	7.86	372	250	157.9	45.4	10.8	29	6.3	0	130.9	18	35.6	0.42	22
Bubka_33492	SGWB	Pz	30.040745	77.123406	2023	7.89	422	249	162.8	45.4	12	22	5.2	0	148.8	22	33.3	0.16	18
Palewala_33526	SGWB	Pz	30.015611	77.206402	2023	7.93	353	244	144.32	43.26	8.81	24.6	5.36	0	111.3	19.93	73.45	7.93	17.52
Sandhali_33537	SGWB	Pz	29.981751	77.217204	2023	7.96	335	204	118.54	35.02	7.55	20.64	4.5	0	90.1	16.74	62.96	0	14.68
Gumthala_33501	SGWB	Pz	29.959798	77.20502	2023	7.97	339	197	113.39	35.02	6.3	19.86	4.33	0	90.1	16.04	60.34	0	14.14
Unheri_33545	SGWB	Pz	30.026878	77.263651	2023	8.04	368	239	120	30	10.97	35	20	0	110	12	60	0.23	5

District	Block	Source	GP	Lat	Long	EC_2020	EC_2021	EC_2022	EC_2023
Yamunanagar_76	Radaur_564	SGWB	Jathlana	30.4631	77.2256	750	950	700	1040
Yamunanagar_76	Radaur_564	SGWB	Radour	30.0332	77.1518	600	850	1050	950
Yamunanagar_76	Radaur_564	SGWB	Chamrori	30.0648	77.1339	650	1000	1050	650
Yamunanagar_76	Radaur_564	SGWB	Sikendra	30.1135	77.1084	800	750	600	500
Yamunanagar_76	Radaur_564	SGWB	Antewa	30.1108	77.1215	750	900	500	750

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Yamunanagar_76	Radaur_564	SGWB	Khurdban	29.983	77.1398	850	650	600	460
Yamunanagar_76	Radaur_564	SGWB	Mandhar	29.9926	77.1944	750	700	650	1240
Yamunanagar_76	Radaur_564	SGWB	Mohri	30.0162	77.2229	650	950	700	870
Yamunanagar_76	Radaur_564	SGWB	Silikalan	30.0687	77.1122	850	1050	600	900
Yamunanagar_76	Radaur_564	SGWB	Fateh Garh_33498	29.99295	77.1703	NA	NA	NA	414
Yamunanagar_76	Radaur_564	SGWB	Kanjnu_33509	30.0416	77.17565	NA	NA	NA	367
Yamunanagar_76	Radaur_564	SGWB	Karera M.T._33510	30.00791	77.22566	NA	NA	NA	226
Yamunanagar_76	Radaur_564	SGWB	Amloha_33481	30.06268	77.11542	NA	NA	NA	357
Yamunanagar_76	Radaur_564	SGWB	Dholi_33496	28.35349	76.1183	NA	NA	NA	550
Yamunanagar_76	Radaur_564	SGWB	Kherki Brahmnan_33513	30.06328	77.08974	NA	NA	NA	559
Yamunanagar_76	Radaur_564	SGWB	Masana Rangran_33521	30.1336	77.13959	NA	NA	NA	527
Yamunanagar_76	Radaur_564	SGWB	Mansoor Pur_33519	30.08244	77.13382	NA	NA	NA	743
Yamunanagar_76	Radaur_564	SGWB	Ghilour_33500	30.08002	77.08995	NA	NA	NA	684
Yamunanagar_76	Radaur_564	SGWB	Thaska Khader_33543	29.97374	77.16394	NA	NA	NA	377
Yamunanagar_76	Radaur_564	SGWB	Potli_33528	29.99094	77.14681	NA	NA	NA	327
Yamunanagar_76	Radaur_564	SGWB	Jubbal_33507	30.05714	77.18041	NA	NA	NA	485

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Yamunanagar_76	Radaur_564	SGWB	Topra Kalan_33544	30.12696	77.16176	NA	NA	NA	628
Yamunanagar_76	Radaur_564	SGWB	Nagal_33524	30.07097	77.13024	NA	NA	NA	338
Yamunanagar_76	Radaur_564	SGWB	Lakshi Bans_33515	30.0383	77.2271	NA	NA	NA	306
Yamunanagar_76	Radaur_564	SGWB	Jhaguri_33504	30.10792	77.16705	NA	NA	NA	540
Yamunanagar_76	Radaur_564	SGWB	Nachron_33523	30.00972	77.18569	NA	NA	NA	537
Yamunanagar_76	Radaur_564	SGWB	Rajheri_33532	29.99262	77.18386	NA	NA	NA	253
Yamunanagar_76	Radaur_564	SGWB	Radauri_33531	30.04513	77.14207	NA	NA	NA	433
Yamunanagar_76	Radaur_564	SGWB	Alipura_33480	30.02078	77.10139	NA	NA	NA	515
Yamunanagar_76	Radaur_564	SGWB	Sagri_33535	30.11727	77.14366	NA	NA	NA	442
Yamunanagar_76	Radaur_564	SGWB	Gheshpur_33499	30.01481	77.14322	NA	NA	NA	310
Yamunanagar_76	Radaur_564	SGWB	Hartan_33502	30.10421	77.10958	NA	NA	NA	372
Yamunanagar_76	Radaur_564	SGWB	Bubka_33492	30.04075	77.12341	NA	NA	NA	422
Yamunanagar_76	Radaur_564	SGWB	Palewala_33526	30.01561	77.2064	NA	NA	NA	353
Yamunanagar_76	Radaur_564	SGWB	Sandhali_33537	29.98175	77.2172	NA	NA	NA	335
Yamunanagar_76	Radaur_564	SGWB	Gumthala_33501	29.9598	77.20502	NA	NA	NA	339
Yamunanagar_76	Radaur_564	SGWB	Unheri_33545	30.02688	77.26365	NA	NA	NA	368