

ATAL BHUJAL YOJANA (AtalJal)

State : HARYANA

**Department : IRRIGATION & WATER
RESOURCE DEPARTMENT**

BLOCK : LADWA

DISTRICT : KURUKSHETRA

YEAR : 2024-2025

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

HYDROGEOLOGICAL REPORT

(YEAR: 2024-25)

STATE	:	HARYANA
DISTRICT	:	KURUKSHETRA
BLOCK/TALUK	:	LADWA
BLOCK/TALUK HQs	:	LADWA

A	GENERAL INFORMATION				
1.	Geographical area (Ha)	:	15501		
2.	No. of Gram Panchayats	:	51		
3.	No. of towns		1		
4.	No. of villages	:	55		
5.	Population (2011)	:	Male	Female	Total
			37860	35417	73277
6.	Rainfall (mm) (2023)	:	Monsoon	Non-monsoon	Annual
			757	290	1047
7.	River basin	:	Ghaggar river basin		
8.	Major soil types	:	Loamy sand		

B	LAND USE (2023-24)				
1.	Forest area (Ha)	:	529		
2.	Cultivable area (Ha)	:	13743		
3.	Net sown area (Ha)	:	13665		
4.	Gross cropped area (Ha)	:	23327		

C	CROPPING PATTERN (As in 2023-24)				
1.	Major crops grown	:	Kharif	Rabi	Summer
			Paddy	Wheat	Summer moong
			Jowar	Barseem	Maize as green fodder
				Sarson	
			Seasonal vegetables	Potato and others seasonal vegetables	

D	IRRIGATION FACILITIES (As in 2023-24)				
1.	Net irrigated area (Ha)	:	13665		
2.	Gross irrigated area (Ha)	:	23327		
3.	Area under irrigation (Ha) (Source-wise)	:	DW	BW/TW	Tanks/Ponds
			-	13665	-

E	GEOLOGY & HYDROGEOLOGY				
1.	Predominant rocktype	:	BrownSlit , Clay and Sand with Kankar		
2.	Major geological formations	:	Older alluvium		
3.	Important water-bearing formations	:	Sand		
4.	Status of coverage under NAQUIM		Covered / Not Covered.		

F	GROUND WATER CONDITIONS										
1	No. of wells used for Water Level (WL) monitoring.	:	Open wells				BW/TW/ PZ				
		CGWB	SGWB	Atal Jal	Total	CGWB	SGWB	Atal Jal	Total		
		0	0	0	0	2	10	68	80		
2	Monitoring mechanism (Nos.)	:	Manual			DWLR			Telemetry		
		CGWB	SGWB	Atal Jal	CGWB	SGWB	Atal Jal	CGWB	SGWB	Atal Jal	
		2	10	41	0	0	27	0	0	27	
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								
		Atal Jal	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			2024					
		SGWB	2015			2024					
		Atal Jal	2023			2024					
5	Water level range (m.bgl)	:	Minimum/Village				Maximum/Village				
	Pre-monsoon (May – June 2024)		10.6/Murad Nagar_31223				39.46/Girdhar Pura_31204				
	Post-monsoon (Oct/Nov 2024)		9.14/Murad Nagar_31223				41/Girdhar Pura_31204				
6	Seasonal WL fluctuation range (m)	:	Minimum/ Village				Maximum/ Village				
		-5.4/Baronda_31178				4/Badar Pur_31170					

G	GROUND WATER QUALITY								
1	No. of wells used for Water Quality (WQ) monitoring.	Open Wells				BW/TW/ PZ			
		CGWB	SGWB	Atal Jal	Total	CGWB	SGWB	Atal Jal	Total
		0	0	0	0	2	12	49	63
2	Monitoring frequency	Agency	No. of times monitored/year						
		CGWB	1 time/year						
		SGWB	1 time/year						
		Atal Jal	1 time/year						
3	Period of water quality data availability	Agency	Period of WQ data availability (Years)						
		CGWB	2015 to 2024						
		SGWB	2020 to 2024						
		Atal Jal	2023 to 2024						
4	Parameters analysed	Agency	Parameters Analysed						
		CGWB	pH,EC,TH,Ca,Mg,Na,K,CO ₃ ,HCO ₃ , SO ₄ ,Cl,F,NO ₃						
		SGWB	EC						
		Atal Jal	pH,EC,TDS,TH,Ca,Mg,Na,K,CO ₃ ,HCO ₃ , SO ₄ ,Cl,F,NO ₃						
5	Known ground water quality issues, if any	No Such Issue							

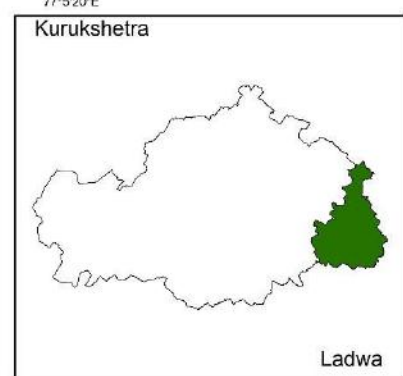
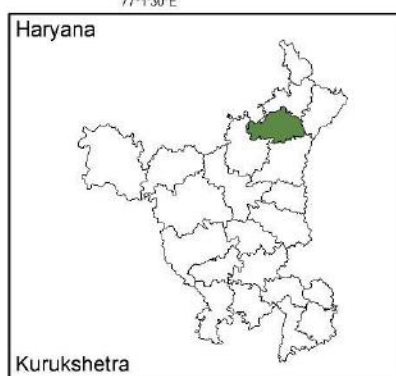
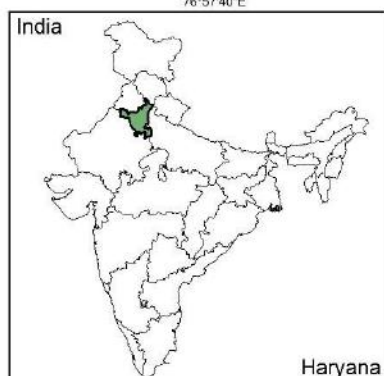
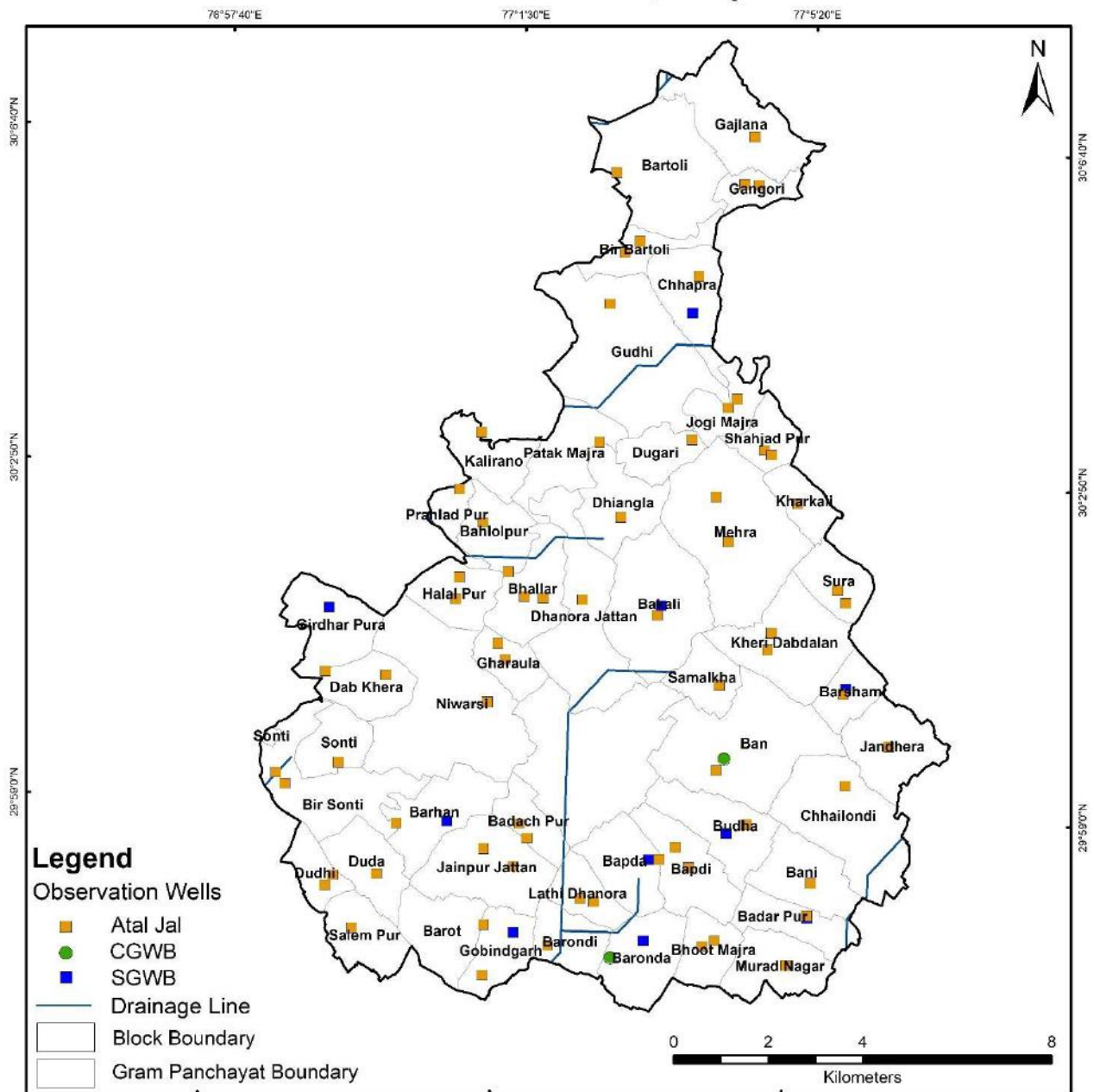
H. GROUND WATER RESOURCES								
1.	Latest assessment year	:	2023					
2.	Assessment Unit	:	Block					
3.	Annual extractable GW resource (ha.m)	:	3777.1					
4.	Current annual GW extraction (ha.m)	:	10963.8					
5.	Net GW availability for future use (ha.m)	:	0.0					
6.	Stage of GW extraction (%)	:	297.05 %					
7.	Category of block/taluk/(2023)	:	Over Exploited					
8.	Category of block/taluk/ in previous assessments		2023	2020	2017	2013	2011	2009
			Over Exploited	Over Exploited	Over Exploited	Over Exploited	Semi-Critical	Semi-Critical

I. WATER-RELATED SCHEMES				
1.	Schemes with a bearing on ground water, being implemented in the block / taluk.			
	Centrally Sponsored /Central Sector Schemes	i)	PMKSY	
		ii)	JJM	
		iii)	RKVY	
		iv)	MGNREGA	
		v)	NHP	
		vi)	NAQUIM	
	State Schemes	i)	State Plan Scheme (Head 2402)	
		ii)	MPMV	
		iii)		
		iv)		

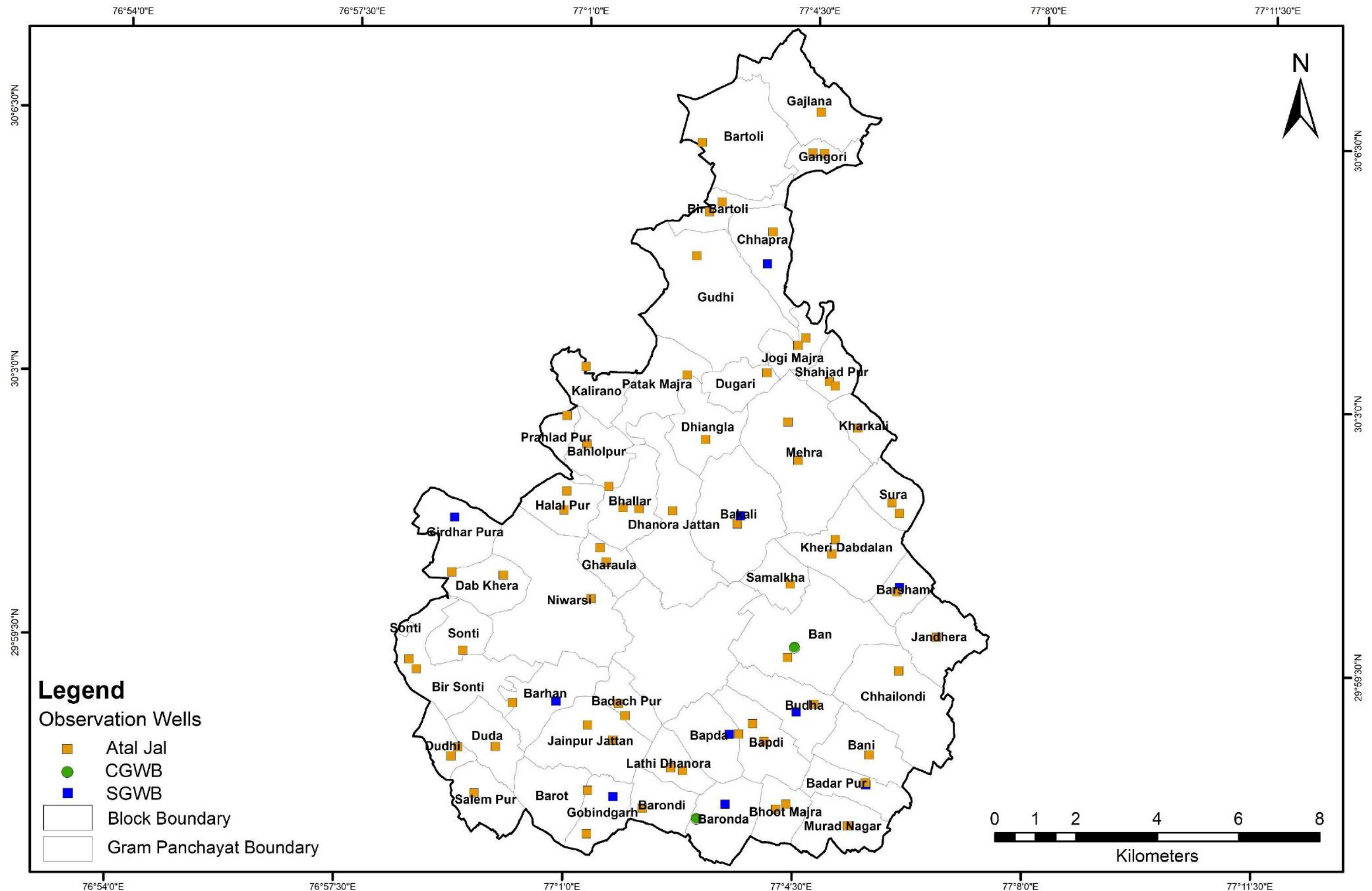
J. GROUND WATER RELATED ISSUES			
1.	Ground water related issues of the block/		
	i) Issues related to GW availability	:	Due to over exploitation, groundwater is depletion at higher rate and Stage of GW extraction is 297%.
	ii) Issues related to GW quality	:	Generally, it is suitable for drinking purposes as chemical parameters are well within the permissible limits for safe drinking water set by Bureau of Indian standard (BIS).
	iii) Other issues if any.	:	

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

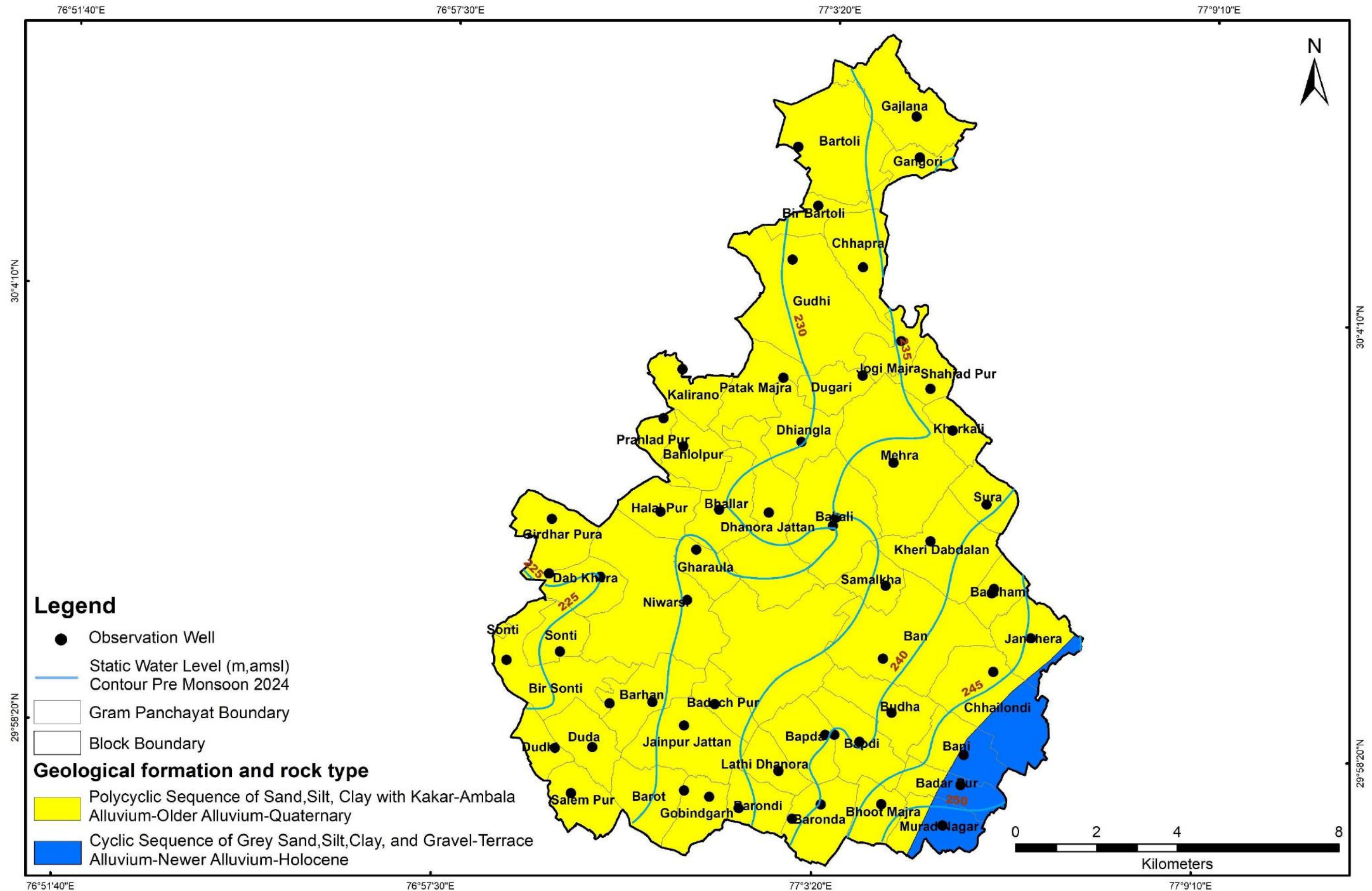
Location Map of Block- Ladwa, District- Kurukshetra, Haryana



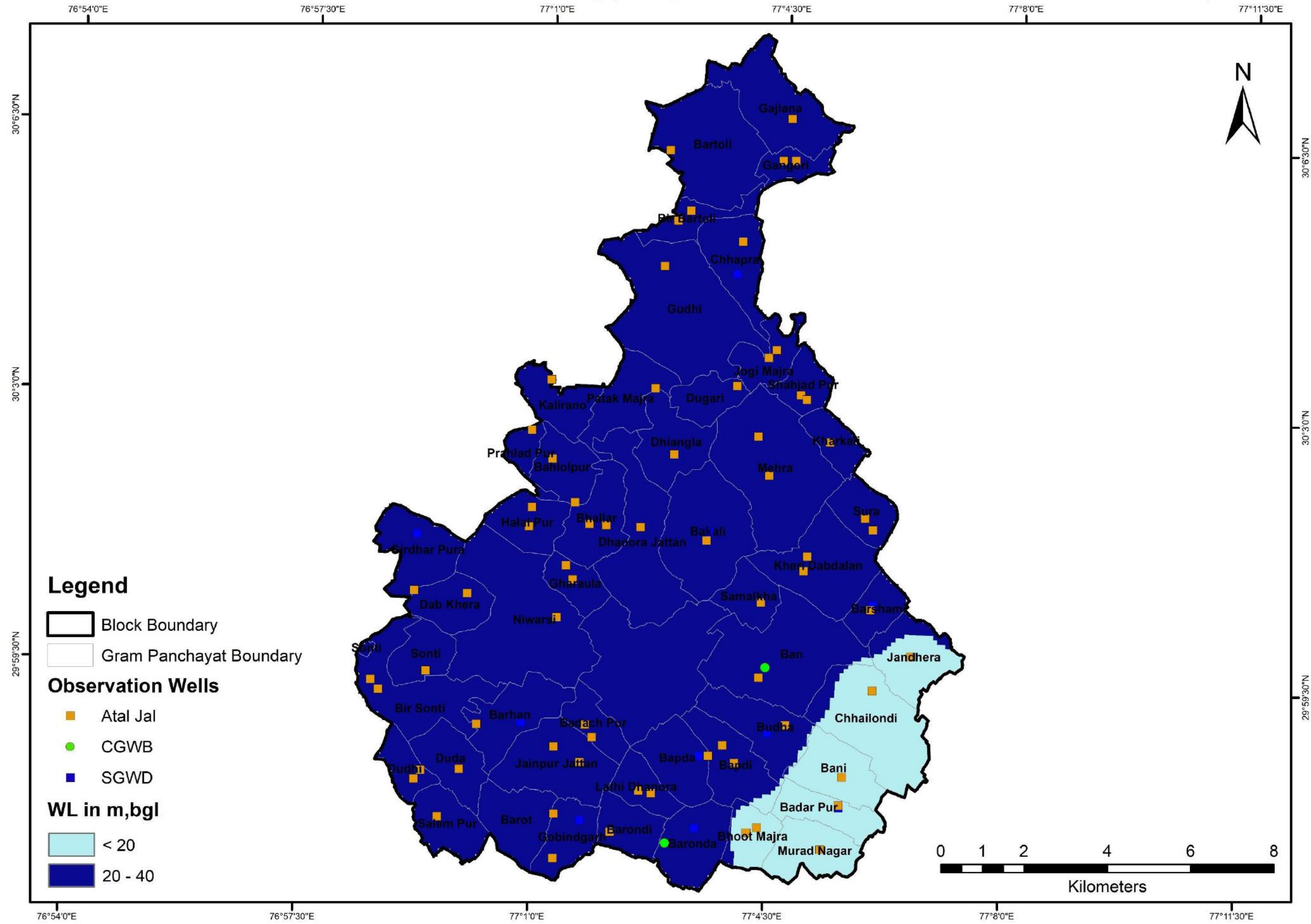
Location of Observation Wells for Monitoring Water Levels and Water Quality, Block-Ladwa, District- Kurukshetra, Haryana



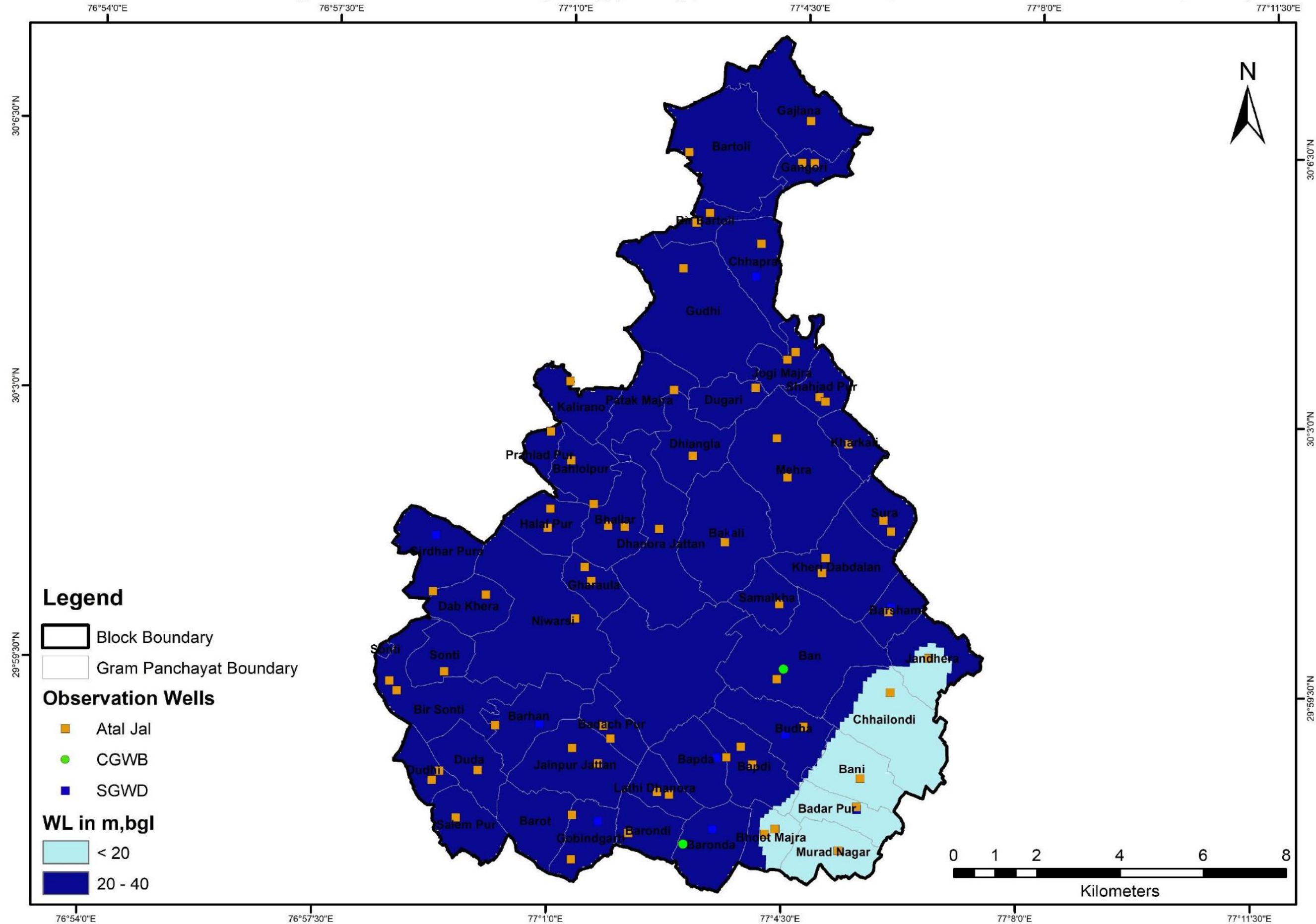
Hydrogeological Map, Block- Ladwa, District- Kurukshetra, Haryana



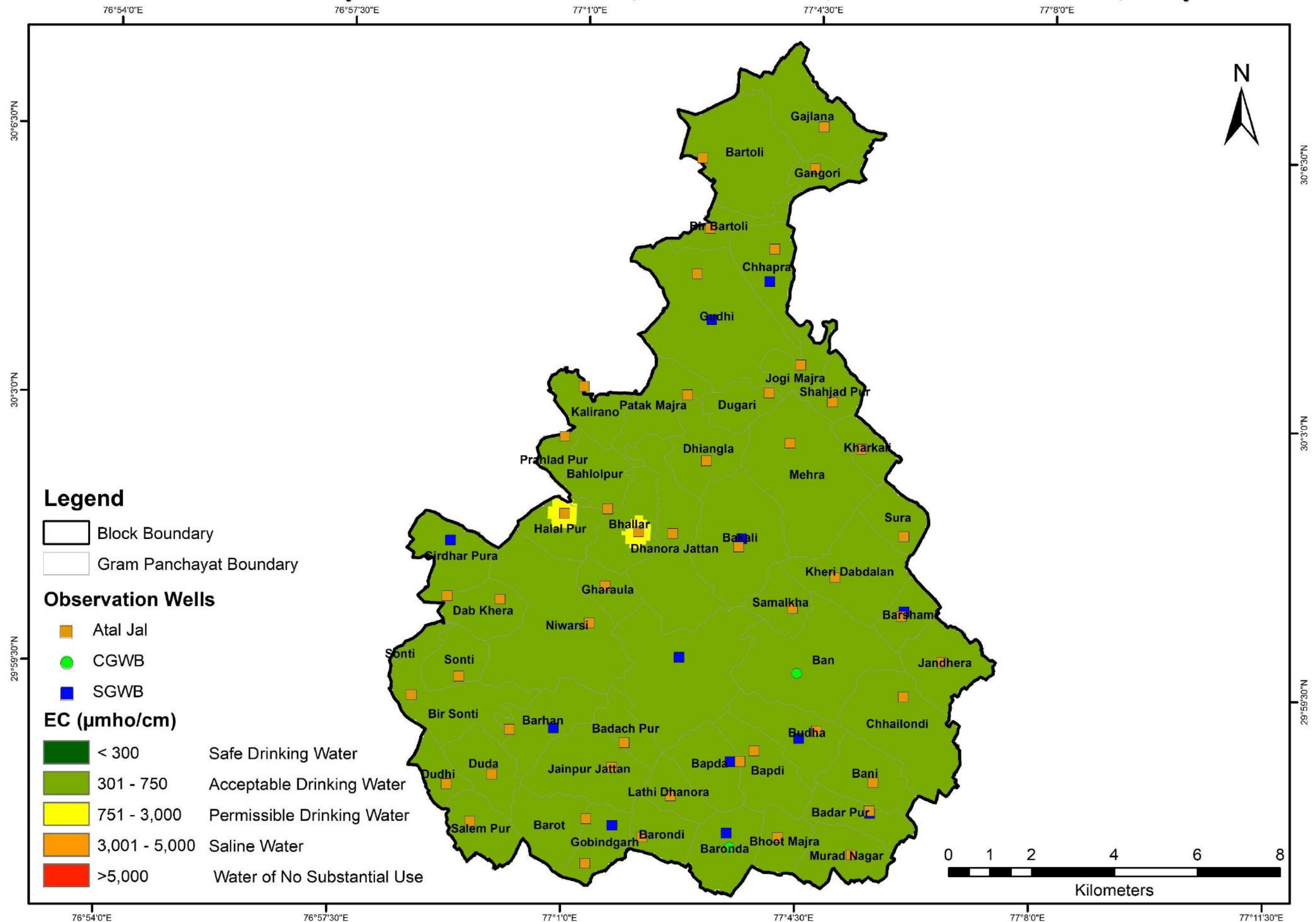
Pre Monsoon 2024 Depth to Water Level (m,bgl) Map, Block - Ladwa, District - Kurukshetra, Haryana



Post Monsoon 2024 Depth to Water Level (m,bgl) Map, Block - Ladwa, District - Kurukshetra, Haryana



Electrical Conductivity of Groundwater-2024, Block - Ladwa, District - Kurukshetra, Haryana



ANNEXURE: I
BASIC DATA OF MONITORING WELLS

State	Haryana				District				Kurukshetra				Block	Ladwa	
S.No	Well ID	Gram Panchayat	Name of the village	Site Name	Latitude	Longitude	Type of Well	Reduced Level	Aquifer Type/Lithology	Height of Measuring (m, agl)	Depth (m,bgl)	Diameter (m)	Purpose of Monitoring (WL/WQ)	Monitoring Mechanism	Agency
1.	GWL-06-068-00518-00031176-001	Badach Pur_31176	Badach Pur	Rohtash House	29.9807	77.0296	Tube Well	263	Unconfined and Confined	0.60	76	0.10	WL	Manual	Atal Jal-Private
2.	KKR_LAD_BAC_1	Badach Pur_31176	Badach Pur	Ram Karan	29.9780	77.0314	Tube Well	263	Unconfined to Confined	0.62	70	0.12	WQ	Manual	Atal Jal
3.	KKR_LAD_BAD_1	Badar Pur_31170	Badar Pur	Rajinder	29.9650	77.0932	Tube Well	263	Unconfined to Confined	0.85	91	0.10	WQ	Manual	Atal Jal
4.	GWL-06-068-00518-00031183-001	Bahlolpur_31183	Bahlolpur	Shashi Bhushan	30.0379	77.0193	Tube Well	264	Unconfined and Confined	0.10	98	0.15	WL	Manual	Atal Jal-Private
5.	KKR_LAD_BAH_1	Bahlolpur_31183	Bahlolpur	Madan Lal	30.0286	77.0253	Tube Well	264	Unconfined to Confined	0.53	58	0.15	WQ	Manual	Atal Jal
6.	HR_GW_401	Bakali_31171	Bakali	Govt Middle School, Bakali	30.0214	77.0583	Piezometer	264	Semi-Confined To Confined	0.50	107	0.10	Both	Telemetric	Atal Jal
7.	GWL-06-068-00518-00031172-001	Ban_31172	Ban	Divan Patti Chopal	29.9921	77.0723	Tube Well	263	Unconfined and Confined	0.30	68	0.15	WL	Manual	Atal Jal-Private
8.	HR_GW_402	Bani_31173	Bani	Govt Sr.Sec. School, Bani	29.9712	77.0939	Piezometer	264	Semi-Confined To Confined	0.50	78	0.10	Both	Telemetric	Atal Jal
9.	HR_GW_403	Bapda_31174	Bapda	Govt Sr.Sec. School, Bapda	29.9748	77.0605	Piezometer	265	Semi-Confined To Confined	0.50	89	0.10	Both	Telemetric	Atal Jal
10.	GWL-06-068-00518-00031175-001	Bapdi_31175	Bapdi	Near Dr. Karambir House	29.9734	77.0670	Tube Well	263	Unconfined and Confined	0.30	60	0.16	WL	Manual	Atal Jal-Private
11.	KKR_LAD_BDI_1	Bapdi_31175	Bapdi	Sukhbir	29.9772	77.0640	Tube Well	262	Unconfined to Confined	0.40	76	0.13	WQ	Manual	Atal Jal
12.	HR_GW_424	Barhan_31177	Barhan	Panchayat Land, Barhan	29.9800	77.0027	Piezometer	261	Semi-Confined To Confined	0.50	73	0.10	Both	Telemetric	Atal Jal
13.	HR_GW_404	Barondi_31179	Barondi	Govt Middle School, Barondi	29.9577	77.0367	Piezometer	259	Semi-Confined To Confined	0.50	127	0.10	Both	Telemetric	Atal Jal
14.	HR_GW_419	Barot_31180	Barot	Govt. Crematorium, Barot	29.9612	77.0226	Piezometer	259	Semi-Confined To Confined	0.50	102	0.10	Both	Telemetric	Atal Jal
15.	HR_GW_405	Barshami_31181	Barshami	Govt Middle School, Barshami	30.0075	77.0996	Piezometer	265	Semi-Confined To Confined	0.50	85	0.10	Both	Telemetric	Atal Jal
16.	HR_GW_413	Bartoli_31182	Bartoli	Govt. Crematorium, Batoli	30.1055	77.0461	Piezometer	268	Semi-Confined To Confined	0.50	106	0.10	Both	Telemetric	Atal Jal
17.	GWL-06-068-00518-00031184-001	Bhallar_31184	Bhallar	Gulshan	30.0241	77.0291	Tube Well	263	Unconfined and Confined	0.20	91	0.15	WL	Manual	Atal Jal-Private
18.	KKR_LAD_BHA_1	Bhallar_31184	Bhallar	Angrej	30.0239	77.0332	Tube Well	263	Unconfined to Confined	0.35	67	0.13	WQ	Manual	Atal Jal

S.No	Well ID	Gram Panchayat	Name of the village	Site Name	Latitude	Longitude	Type of Well	Reduced Level	Aquifer Type/Lithology	Height of Measuring (m, agl)	Depth (m,bgl)	Diameter (m)	Purpose of Monitoring (WL/WQ)	Monitoring Mechanism	Agency
19.	GWL-06-068-00518-00031185-001	Bhoot Majra_31185	Bhootmajra	Shiv Mandir	29.9596	77.0732	Tube Well	265	Unconfined and Confined	0.50	68	0.10	WL	Manual	Atal Jal-Private
20.	KKR_LAD_BHO_1	Bhoot Majra_31185	Bhoot Majra	Chandarbhan	29.9585	77.0706	Tube Well	263	Unconfined to Confined	0.50	76	0.10	WQ	Manual	Atal Jal
21.	GWL-06-068-00518-00031186-001	Bir Bartoli_31186	Bir Bartoli	Panchayati Land , Near Power House	30.0926	77.0517	Tube Well	266	Unconfined and Confined	0.40	76	0.25	WL	Manual	Atal Jal-Private
22.	KKR_LAD_BIRBA_1	Bir Bartoli_31186	Bir Bartoli	Amir Chand	30.0903	77.0486	Tube Well	267	Unconfined to Confined	0.68	91	0.19	WQ	Manual	Atal Jal
23.	GWL-06-068-00518-00031188-001	Bir Sonti_31188	Bir Sonti	Sarpanch House	29.9889	76.9760	Tube Well	258	Unconfined and Confined	0.15	76	0.10	WL	Manual	Atal Jal-Private
24.	KKR_LAD_BIR_1	Bir Sonti_31188	Bir Sonti	Hakam Singh	29.9868	76.9779	Tube Well	258	Unconfined to Confined	0.35	99	0.15	WQ	Manual	Atal Jal
25.	KKR_LAD_BUD_1	Budha_31190	Budha	Vinod	29.9820	77.0794	Tube Well	264	Unconfined to Confined	0.46	107	0.14	WQ	Manual	Atal Jal
26.	HR_GW_421	Chhailondi_31191	Chhailondi	Govt. Crematorium, Chhailondi	29.9900	77.1007	Piezometer	261	Unconfined To Semi-Confined	0.50	71	0.10	Both	Telemetric	Atal Jal
27.	KKR_LAD_CPR_1	Chhapra_31192	Chhapra	Jai Ram	30.0862	77.0649	Tube Well	270	Unconfined to Confined	0.43	91	0.18	WQ	Manual	Atal Jal
28.	HR_GW_422	Dab Khera_31194	Dab Khera	Govt High School, Dab Khera	30.0082	76.9993	Piezometer	264	Semi-Confined To Confined	0.50	95	0.10	Both	Telemetric	Atal Jal
29.	HR_GW_415	Dhanora Jattan_31195	Dhanora Jattan	Govt Middle School, Dhanora Jattan	30.0238	77.0418	Piezometer	266	Semi-Confined To Confined	0.50	98	0.10	Both	Telemetric	Atal Jal
30.	HR_GW_406	Dhiangla_31196	Dhiangla	Govt Primary School, Dhiangla	30.0398	77.0495	Piezometer	264	Semi-Confined To Confined	0.50	106	0.10	Both	Telemetric	Atal Jal
31.	HR_GW_414	Duda_31197	Dudha	Govt Primary School, Dudha	29.9702	76.9987	Piezometer	260	Semi-Confined To Confined	0.50	93	0.10	Both	Telemetric	Atal Jal
32.	GWL-06-068-00518-00031198-001	Dudhi_31198	Dudhi	Govt. Primary School, Dudhi	29.9697	76.9892	Tube Well	261	Unconfined and Confined	0.10	107	0.10	WL	Manual	Atal Jal-Private
33.	KKR_LAD_DUDH_1	Dudhi_31198	Dudhi	Sadhu	29.9678	76.9875	Tube Well	260	Unconfined to Confined	0.48	107	0.12	WQ	Manual	Atal Jal
34.	HR_GW_425	Dugari_31199	Dugari	Govt. Crematorium, Dugari	30.0550	77.0646	Piezometer	264	Semi-Confined To Confined	0.50	106	0.10	Both	Telemetric	Atal Jal
35.	HR_GW_407	Gajlana_31201	Gajlana	Govt Primary School, Gajlana	30.1132	77.0761	Piezometer	273	Semi-Confined To Confined	0.50	106	0.10	Both	Telemetric	Atal Jal
36.	GWL-06-068-00518-00031202-001	Gangori_31202	Gangori	Karnail Singh Saini, House	30.1041	77.0774	Tube Well	272	Unconfined and Confined	0.50	76	0.10	WL	Manual	Atal Jal-Private
37.	KKR_LAD_GAN_1	Gangori_31202	Gangori	Rakjkumar	30.1040	77.0743	Tube Well	273	Unconfined to Confined	0.52	91	0.12	WQ	Manual	Atal Jal
38.	GWL-06-068-00518-00031203-001	Gharaula_31203	Gharaula	Ramkumar	30.0150	77.0236	Tube Well	265	Unconfined and Confined	0.40	116	0.10	WL	Manual	Atal Jal-Private
39.	KKR_LAD_GHA_1	Gharaula_31203	Gharaula	Satpal	30.0119	77.0253	Tube Well	265	Unconfined to Confined	0.46	137	0.11	WQ	Manual	Atal Jal

S.No	Well ID	Gram Panchayat	Name of the village	Site Name	Latitude	Longitude	Type of Well	Reduced Level	Aquifer Type/Lithology	Height of Measuring (m, agl)	Depth (m,bgl)	Diameter (m)	Purpose of Monitoring (WL/WQ)	Monitoring Mechanism	Agency
40.	HR_GW_416	Girdhar Pura_31204	Girdharpura	Govt. Crematorium, Girdharpura	30.0085	76.9861	Piezometer	262	Semi-Confined To Confined	0.50	97	0.10	Both	Telemetric	Atal Jal
41.	KKR_LAD_GOB_1	Gobindgarh_31205	Gobindgarh	Shyam Lal	29.9515	77.0227	Tube Well	259	Unconfined to Confined	0.43	85	0.10	WQ	Manual	Atal Jal
42.	HR_GW_408	Gudhi_31207	Gudhi	Govt Primary School, Gudhi	30.0804	77.0456	Piezometer	264	Semi-Confined To Confined	0.50	101	0.10	Both	Telemetric	Atal Jal
43.	GWL-06-068-00518-00031208-002	Halal Pur_31208	Halalpur	Premchand	30.0231	77.0141	Tube Well	263	Unconfined and Confined	0.40	122	0.25	WL	Manual	Atal Jal-Private
44.	KKR_LAD_HAL_1	Halal Pur_31208	Halal Pur	Baldev	30.0273	77.0146	Tube Well	263	Unconfined to Confined	0.45	137	0.18	WQ	Manual	Atal Jal
45.	GWL-06-068-00518-00031209-001	Jainpur Jattan_31209	Jainpur Jattan	Jainpur Jattan	29.9757	77.0220	Tube Well	263	Unconfined and Confined	0.10	70	0.10	WL	Manual	Atal Jal-Private
46.	KKR_LAD_JAI_1	Jainpur Jattan_31209	Jainpur Jattan	Gulab	29.9725	77.0286	Tube Well	261	Unconfined to Confined	0.56	84	0.10	WQ	Manual	Atal Jal
47.	HR_GW_420	Jandhera_31210	Jandhera	Govt Middle School, Jandhera	29.9977	77.1100	Piezometer	264	Semi-Confined To Confined	0.50	109	0.10	Both	Telemetric	Atal Jal
48.	GWL-06-068-00518-00031211-001	Jogi Majra_31211	Jogi Majra	Shadi Ram Sharma Near Khedki Mode	30.0631	77.0742	Tube Well	267	Unconfined and Confined	0.10	76	0.25	WL	Manual	Atal Jal-Private
49.	KKR_LAD_JOG_1	Jogi Majra_31211	Jogi Majra	Bupinder Saini	30.0613	77.0723	Tube Well	266	Unconfined to Confined	0.47	107	0.14	WQ	Manual	Atal Jal
50.	HR_GW_418	Kalirano_31212	Kali Rano	Govt. Crematorium, Kalirano	30.0551	77.0184	Piezometer	261	Semi-Confined To Confined	0.50	101	0.10	Both	Telemetric	Atal Jal
51.	HR_GW_409	Kharkali_31216	Kharkali	Govt Primary School, Kharkali	30.0435	77.0882	Piezometer	266	Semi-Confined To Confined	0.50	100	0.10	Both	Telemetric	Atal Jal
52.	GWL-06-068-00518-00031217-001	Kheri Dabdalan_31217	Kheri Dabdlan	Manga Kiryana Store	30.0187	77.0834	Tube Well	265	Unconfined and Confined	0.50	71	0.10	WL	Manual	Atal Jal-Private
53.	KKR_LAD_KHE_1	Kheri Dabdalan_31217	Kheri Dabdalan	Amarjeet Singh	30.0154	77.0827	Tube Well	263	Unconfined to Confined	0.20	107	0.12	WQ	Manual	Atal Jal
54.	GWL-06-068-00518-00031219-001	Lathi Dhanora_31219	Lathi Dhanoura	Near Amarnath Farm	29.9663	77.0466	Tube Well	263	Unconfined and Confined	0.40	68	0.10	WL	Manual	Atal Jal-Private
55.	KKR_LAD_LAT_1	Lathi Dhanora_31219	Lathi Dhanora	Amarnath	29.9668	77.0435	Tube Well	260	Unconfined to Confined	0.29	84	0.10	WQ	Manual	Atal Jal
56.	GWL-06-068-00518-00031221-001	Mehra_31221	Mehra	Guru Ravidas Mandir	30.0358	77.0733	Tube Well	265	Unconfined and Confined	0.30	86	0.15	WL	Manual	Atal Jal-Private
57.	KKR_LAD_MEH_1	Mehra_31221	Mehra	Gaje Singh	30.0442	77.0703	Tube Well	266	Unconfined to Confined	0.48	91	0.14	WQ	Manual	Atal Jal
58.	HR_GW_410	Murad Nagar_31223	Murad Nagar	Govt Primary School, Murad Nagar	29.9554	77.0890	Piezometer	264	Unconfined To Semi-Confined	0.50	66	0.10	Both	Telemetric	Atal Jal
59.	HR_GW_423	Niwarsi_31224	Niwarsi	Govt. Crematorium, Niwarsi	30.0037	77.0217	Piezometer	264	Semi-Confined To Confined	0.50	107	0.10	Both	Telemetric	Atal Jal

S.No	Well ID	Gram Panchayat	Name of the village	Site Name	Latitude	Longitude	Type of Well	Reduced Level	Aquifer Type/Lithology	Height of Measuring (m, agl)	Depth (m,bgl)	Diameter (m)	Purpose of Monitoring (WL/WQ)	Monitoring Mechanism	Agency
60.	HR_GW_426	Patak Majra_265298	Patak Majra	Govt. Crematorium, Patak Majra	30.0540	77.0443	Piezometer	264	Semi-Confined To Confined	0.50	104	0.10	Both	Telemetric	Atal Jal
61.	HR_GW_411	Prahlad Pur_31225	Prahladpur	Govt. Crematorium, Prahladpur	30.0441	77.0140	Piezometer	265	Semi-Confined To Confined	0.50	100	0.10	Both	Telemetric	Atal Jal
62.	HR_GW_412	Salem Pur_31226	Salempur	Gps,Salempur	29.9597	76.9937	Piezometer	261	Semi-Confined To Confined	0.50	101	0.10	Both	Telemetric	Atal Jal
63.	HR_GW_427	Samalkha_236923	Samalkha	Govt Middle School, Samalkha	30.0084	77.0723	Piezometer	263	Semi-Confined To Confined	0.50	107	0.10	Both	Telemetric	Atal Jal
64.	GWL-06-068-00518-00245673-001	Shahjad Pur_245673	Shajadpur	Ravidas Mandir	30.0526	77.0821	Tube Well	266	Unconfined and Confined	0.30	68	0.15	WL	Manual	Atal Jal-Private
65.	KKR_LAD_SHA_1	Shahjad Pur_245673	Shahjad Pur	Randeer Singh	30.0535	77.0805	Tube Well	267	Unconfined to Confined	0.48	91	0.14	WQ	Manual	Atal Jal
66.	HR_GW_417	Sonti_31227	Sonti	Govt Middle School, Sonti	29.9912	76.9896	Piezometer	262	Semi-Confined To Confined	0.50	88	0.10	Both	Telemetric	Atal Jal
67.	GWL-06-068-00518-00031228-001	Sura_31228	Sura	Guitar Sing Kiryana Store	30.0272	77.0975	Tube Well	266	Unconfined and Confined	1.00	77	0.10	WL	Manual	Atal Jal-Private
68.	KKR_LAD_SUR_1	Sura_31228	Sura	Deshraj	30.0248	77.0995	Tube Well	267	Unconfined to Confined	0.80	122	0.13	WQ	Manual	Atal Jal
69.	W295932077052701	Ban_31172	Ban	Ban	29.9943	77.0739	Tube Well	269	Alluvium	0.30	73	0.15	WQ	Manual	CGWB
70.	W295720077030801	Baronda_31178	Baronda	Baronda-Pz	29.9557	77.0504	Piezometer	225	Unconfined to Semi Confined	0.60	103	0.10	Both	Manual	CGWB
71.	Ba_29.965_77.093	Badar Pur_31170	Badarpur	In Govt. Middle School	29.9645	77.0933	Piezometer	262.2	Unconfined and Confined	0.65	125	0.10	WL	Manual	SGWD
72.	Ba_30.023_77.059	Bakali_31171	Bakali (Reported)(P.F.)	In The Village	30.0232	77.0591	Piezometer	263.49	Unconfined and Confined	0.65	120	0.10	WL	Manual	SGWD
73.	Ba_29.9_75_77.058	Bapda_31174	Bapda	In The Village	29.9747	77.0581	Tube Well	261	Unconfined and Confined	0.70	100	0.25	WL	Manual	SGWD
74.	Ba_29.981_77.014	Barhan_31177	Barhan	In The Village	29.9807	77.0137	Tube Well	261.9	Unconfined and Confined	0.70	110	0.25	WL	Manual	SGWD
75.	Br_29.959_77.058	Baronda_31178	Braunda	In Govt. Middle School	29.9592	77.0577	Piezometer	262.1	Unconfined and Confined	0.65	70	0.10	WL	Manual	SGWD
76.	Ba_30.008_77.1	Barshami_31181	Barshami	In The Village	30.0085	77.1002	Tube Well	263.55	Unconfined and Confined	0.70	100	0.25	WL	Manual	SGWD
77.	Bu_29.98_77.075	Budha_31190	Budha	In Govt. Middle School	29.9802	77.0750	Piezometer	261.85	Unconfined and Confined	0.65	76	0.10	WL	Manual	SGWD
78.	Ch_30.079_77.064	Chhapra_31192	Chhapra (Chocked)	In Shiv Mandir	30.0792	77.0638	Tube Well	266.7	Unconfined and Confined	0.70	76	0.25	WL	Manual	SGWD
79.	Lo_30.021_76.986	Girdhar Pura_31204	Lohara	In Co-Op. Bank	30.0207	76.9864	Piezometer	260.85	Unconfined and Confined	0.65	60	0.10	WL	Manual	SGWD
80.	Go_29.96_77.029	Gobindgarh_31205	Gobind Garh	In Govt. Middle School	29.9600	77.0291	Piezometer	263.1	Unconfined and Confined	0.65	80	0.10	WL	Manual	SGWD

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

State	Haryana	District	Kurukshetra	Block	Ladwa
Month of Pre-monsoon Water Level Measurement					June
Month of Post-monsoon water Level measurement					October

S. No.	Observation Point	Source	Well Types	Co-ordinate		Water Level (m)																			
				Latitude	Longitude	2015		2016		2017		2018		2019		2020		2021		2022		2023		2024	
						Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
1	Bakali_31171	Atal Jal	Piezometer	30.0214	77.0583	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30	33	34	32
2	Bani_31173	Atal Jal	Piezometer	29.9712	77.0939	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	13	16	17
3	Bapda_31174	Atal Jal	Piezometer	29.9748	77.0605	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24	26	24	25
4	Barhan_31177	Atal Jal	Piezometer	29.9800	77.0027	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	33	33	33	33
5	Barondi_31179	Atal Jal	Piezometer	29.9577	77.0367	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27	28	26	28
6	Barot_31180	Atal Jal	Piezometer	29.9612	77.0226	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	29	30	28	31
7	Barshami_31181	Atal Jal	Piezometer	30.0075	77.0996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24	23	23	26
8	Bartoli_31182	Atal Jal	Piezometer	30.1055	77.0461	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	37	39	36	36
9	Chhailondi_31191	Atal Jal	Piezometer	29.9900	77.1007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	16	17	17
10	Dab Khera_31194	Atal Jal	Piezometer	30.0082	76.9993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	37	37	39	37
11	Dhanora Jattan_31195	Atal Jal	Piezometer	30.0238	77.0418	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34	35	34	34
12	Dhiangla_31196	Atal Jal	Piezometer	30.0398	77.0495	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34	36	34	33
13	Duda_31197	Atal Jal	Piezometer	29.9702	76.9987	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	38	35	33	34
14	Dugari_31199	Atal Jal	Piezometer	30.0550	77.0646	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32	45	32	32
15	Gajlana_31201	Atal Jal	Piezometer	30.1132	77.0761	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36	38	37	37
16	Girdhar Pura_31204	Atal Jal	Piezometer	30.0085	76.9861	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	37	39	36	39
17	Gudhi_31207	Atal Jal	Piezometer	30.0804	77.0456	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34	37	34	34
18	Jandhera_31210	Atal Jal	Piezometer	29.9977	77.1100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	17	19	19
19	Kalirano_31212	Atal Jal	Piezometer	30.0551	77.0184	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35	38	35	35
20	Kharkali_31216	Atal Jal	Piezometer	30.0435	77.0882	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31	32	31	31
21	Murad Nagar_31223	Atal Jal	Piezometer	29.9554	77.0890	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.9	7.8	11	9.1
22	Niwarsi_31224	Atal Jal	Piezometer	30.0037	77.0217	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35	36	34	34
23	Patak Majra_265298	Atal Jal	Piezometer	30.0540	77.0443	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34	36	35	34
24	Prahlad Pur_31225	Atal Jal	Piezometer	30.0441	77.0140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36	38	37	38
25	Salem Pur_31226	Atal Jal	Piezometer	29.9597	76.9937	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	33	34	33	35
26	Samalkha_236923	Atal Jal	Piezometer	30.0084	77.0723	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25	29	26	27
27	Sonti_31227	Atal Jal	Piezometer	29.9912	76.9896	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35	37	35	36
28	Badach Pur_31176	Atal Jal	Tube Well	29.9807	77.0296	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31	32	31	32
29	Bahlolpur_31183	Atal Jal	Tube Well	30.0379	77.0193	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	38	40	36	36
30	Ban_31172	Atal Jal	Tube Well	29.9921	77.0723	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26	26	25	27
31	Bapdi_31175	Atal Jal	Tube Well	29.9734	77.0670	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	23	23	24	25
32	Bhallar_31184	Atal Jal	Tube Well	30.0241	77.0291	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32	33	34	35
33	Bhoot Majra_31185	Atal Jal	Tube Well	29.9596	77.0732	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	17	18	18
34	Bir Bartoli_31186	Atal Jal	Tube Well	30.0926	77.0517	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34	37	35	35
35	Bir Sonti_31188	Atal Jal	Tube Well	29.9889	76.9760	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	37	38	36	37
36	Dudhi_31198	Atal Jal	Tube Well	29.9697	76.9892	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34	34	33	38
37	Gangori_31202	Atal Jal	Tube Well	30.1041	77.0774	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35	38	33	30

S. No.	Observation Point	Source	Well Types	Co-ordinate		Water Level (m)																			
				Latitude	Longitude	2015		2016		2017		2018		2019		2020		2021		2022		2023		2024	
						Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
38	Gharaula_31203	Atal Jal	Tube Well	30.0150	77.0236	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35	33	34	35
39	Halal Pur_31208	Atal Jal	Tube Well	30.0231	77.0141	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	37	40	35	37
40	Jainpur Jattan_31209	Atal Jal	Tube Well	29.9757	77.0220	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34	33	32	33
41	Jogi Majra_31211	Atal Jal	Tube Well	30.0631	77.0742	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34	35	32	33
42	Kheri Dabdalan_31217	Atal Jal	Tube Well	30.0187	77.0834	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	29	30	27	29
43	Lathi Dhanora_31219	Atal Jal	Tube Well	29.9663	77.0466	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24	25	24	25
44	Mehra_31221	Atal Jal	Tube Well	30.0358	77.0733	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30	29	27	29
45	Shahjad Pur_245673	Atal Jal	Tube Well	30.0526	77.0821	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30	32	28	30
46	Sura_31228	Atal Jal	Tube Well	30.0272	77.0975	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31	29	27	30
47	Baronda_31178	CGWB	Piezometer	29.9557	77.0504	20	19	21	21	22	20	NA	NA	23	19	19	20	21	21	25	20	22	19	22	19.5
48	Badar Pur_31170	SGWD	Piezometer	29.9645	77.0933	17	19	19	19	20	21	22	23	22	20	NA	NA	19	18	16	16	15	16	15	11
49	Bakali_31171	SGWD	Piezometer	30.0232	77.0591	35	36	36	37	38	39	39	41	42	42	41	41	42	43	44	45	43	33	30	32
50	Bapda_31174	SGWD	Tube Well	29.9747	77.0581	27	29	28	29	30	31	31	32	34	35	33	34	35	35	35	37	37	24	23	25
51	Barhan_31177	SGWD	Tube Well	29.9807	77.0137	37	39	38	39	41	41	42	43	43	44	41	42	40	42	42	44	44	33	32	33
52	Baronda_31178	SGWD	Piezometer	29.9592	77.0577	25	27	27	28	28	29	23	23	23	25	22	23	23	24	25	24	23	23	23	28
53	Barshami_31181	SGWD	Tube Well	30.0085	77.1002	29	31	30	31	32	32	33	34	34	34	33	33	33	35	35	37	35	23	22	26
54	Budha_31190	SGWD	Piezometer	29.9802	77.0750	26	29	28	29	30	31	31	31	31	30	30	30	29	28	26	26	24	24	23	23
55	Chhapra_31192	SGWD	Tube Well	30.0792	77.0638	34	35	35	36	37	38	39	40	39	38	38	39	39	41	41	42	40	42	33	31
56	Girdhar Pura_31204	SGWD	Piezometer	30.0207	76.9864	39	39	41	42	41	42	42	44	43	44	42	42	40	42	40	42	41	39	39	41
57	Gobindgarh_31205	SGWD	Piezometer	29.9600	77.0291	27	28	28	29	29	30	31	33	31	30	30	27	27	29	29	30	29	29	28	28

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

State	Haryana				District		Kurukshetra					Block				Ladwa				
Month of Collection of samples for WQ monitoring*															May/June					
Gram Panchayat	Source	Type of well	Latitude	Longitude	Year	pH	EC	TDS	TH	Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	F	NO ₃	
Badach Pur_31176	Atal Jal	Tubewell	29.978	77.0314	2024	8.25	441	284	124.9	38.35	7.08	32	4	1.872	110.1	48.72	47.15	0.26	18	
Badar Pur_31170	Atal Jal	Tubewell	29.965	77.0932	2024	8.93	626	356	154	48.35	8.09	41	6	11.2	129.2	67.21	57.07	0.33	22	
Bahlolpur_31183	Atal Jal	Tubewell	30.0286	77.0253	2024	8.01	521	275	120.7	36.68	7.08	31	4	1.039	106.9	55.93	44.67	0.25	17.5	
Bakali_31171	Atal Jal	Piezometer	30.0214	77.0583	2023	7.83	477	276.7	207.2	61.1	13.3	23	9	0.0	178.5	19	23.8	0.54	16	
Bakali_31171	Atal Jal	Piezometer	30.0214	77.0583	2024	7.72	451	256	108.1	31.16	7.35	32	4	0.5	99.5	65.5	41.69	0.21	12.3	
Ban_31172	CGWB	Tube Well	29.9943	77.0739	2015	8.35	795	ND	214.4	45.0	24.8	86.0	11.0	46.8	249.9	8.0	76.4	0.73	14.00	
Ban_31172	CGWB	Tube Well	29.9943	77.0739	2016	8.7	345	ND	153.1	20.4	24.8	23.0	6.3	48.0	146.4	ND	6.9	0.53	0.00	
Ban_31172	CGWB	Tube Well	29.9943	77.0739	2017	8.3	397	ND	155.0	41.0	13.0	35.0	3.9	22.0	193.0	22.0	7.1	0.36	BDL	
Ban_31172	CGWB	Tube Well	29.9943	77.0739	2018	8.31	484	ND	230.0	24.0	41.0	46.1	4.3	48.0	159.0	78.0	21.0	0.58	14.00	
Ban_31172	CGWB	Tube Well	29.9943	77.0739	2019	Sample not collected from this location														
Ban_31172	CGWB	Tube Well	29.9943	77.0739	2020	8.58	421	ND	110.1	20.0	14.6	41.0	5.6	36.0	158.7	0.0	14.2	0.00	0.29	
Ban_31172	CGWB	Tube Well	29.9943	77.0739	2021	8.6	423	ND	170.1	36.1	19.5	36.0	10.0	57.0	173.9	0.0	13.3	0.71	11.00	
Ban_31172	CGWB	Tube Well	29.9943	77.0739	2022	8.26	690	ND	294.0	59.0	35.6	42.0	8.8	0.0	258.0	58.0	71.0	0.68	9.00	
Ban_31172	CGWB	Tube Well	29.9943	77.0739	2023	7.57	1100	ND	370.0	88.0	36.5	118.6	10.7	0.0	597.8	0.0	92.3	0.75	22.01	
Ban_31172	CGWB	Tube Well	29.9943	77.0739	2024	8.24	476	0	180.1	12.02	36.48	38	7	Nil	292.9	BDL	7.09	1.2	15	
Bani_31173	Atal Jal	Piezometer	29.9712	77.0939	2023	8.04	573	366.7	187.4	43.3	19.2	37.1	11.7	0.0	166.6	30.1	102.1	0.34	26.3	
Bani_31173	Atal Jal	Piezometer	29.9712	77.0939	2024	8.22	531	307	129.7	38.09	8.4	39	5	1.9	118.1	78.67	49.51	0.24	14.6	
Bapda_31174	Atal Jal	Piezometer	29.9748	77.0605	2023	7.54	420	252	143.1	39.4	10.8	27	12	0.0	125.0	18	45.1	0.45	21	
Bapda_31174	Atal Jal	Piezometer	29.9748	77.0605	2024	7.69	402	255	108.1	31.16	7.35	32	4	0.5	99.5	57.71	41.69	0.2	12.3	
Bapdi_31175	Atal Jal	Tubewell	29.9772	77.064	2024	6.67	572	345	149.9	46.68	8.09	39	5	0.06	135.9	61.4	57.07	0.32	21.5	
Barhan_31177	Atal Jal	Piezometer	29.98	77.0027	2023	7.71	715	408	278.3	76.22	21.37	36.27	11.41	0.0	217.3	32.14	70.83	0.23	26.88	
Barhan_31177	Atal Jal	Piezometer	29.98	77.0027	2024	7.76	625	366	155.6	45.02	10.5	46	6	0.8	139.2	98.19	59.93	0.29	17.2	
Baronda_31178	CGWB	Tube Well	29.9561	77.0586	2015	8.25	490	ND	183.7	40.9	19.8	39.0	8.4	0.0	297.5	8.0	13.9	0.75	3.43	
Baronda_31178	CGWB	Tube Well	29.9561	77.0586	2016	8.5	498	ND	183.7	20.4	32.2	52.0	10.0	36.0	244.1	8.0	13.9	0.22	20.00	
Baronda_31178	CGWB	Tube Well	29.9561	77.0586	2017	7.98	560	ND	237.0	58.0	23.0	41.0	6.7	0.0	336.0	25.0	14.0	0.88	9.10	
Baronda_31178	CGWB	Tube Well	29.9561	77.0586	2018	8.53	457	ND	180.0	24.0	29.0	53.0	5.6	48.0	171.0	26.0	28.0	0.83	10.00	
Baronda_31178	CGWB	Tube Well	29.9561	77.0586	2019	8.47	516	ND	180.0	40.0	20.0	68.7	11.6	60.0	85.0	29.0	92.0	0.55	11.21	
Baronda_31178	CGWB	Tube Well	29.9561	77.0586	2020	8.03	658	ND	230.2	24.0	41.3	50.0	7.6	0.0	366.1	0.0	28.4	0.36	10.00	
Baronda_31178	CGWB	Tube Well	29.9561	77.0586	2021	8.49	485	ND	200.2	52.1	17.0	38.0	9.0	45.6	231.9	0.0	13.3	0.91	11.00	
Baronda_31178	CGWB	Tube Well	29.9561	77.0586	2022	8.14	554	ND	202.0	54.0	16.3	36.0	9.2	0.0	272.0	0.0	35.0	0.87	10.00	
Baronda_31178	CGWB	Tube Well	29.9561	77.0586	2023	7.91	750	ND	210.0	40.0	26.8	95.2	6.6	0.0	414.8	0.0	49.7	0.88	2.87	
Baronda_31178	CGWB	Tube Well	29.9561	77.0586	2024	7.79	598	0	210.2	24.05	36.48	57	7	Nil	378.3	BDL	14.18	1.6	6.5	
Barondi_31179	Atal Jal	Piezometer	29.9577	77.0367	2023	7.77	679	400.6	251.6	53.2	28.8	45	18	0.0	238.0	31	47.5	0.32	21	
Barondi_31179	Atal Jal	Piezometer	29.9577	77.0367	2024	7.49	593	360	151.3	45.02	9.45	45	6	0.4	139.6	93.29	59.93	0.29	17	
Barot_31180	Atal Jal	Piezometer	29.9612	77.0226	2023	8.2	545	359.7	182.5	41.4	19.2	36.3	11.5	0.0	160.6	29.4	99.7	0.56	25.8	
Barot_31180	Atal Jal	Piezometer	29.9612	77.0226	2024	8.12	512	290	121.1	36.36	7.35	37	5	1.4	110.6	74.83	46.9	0.23	13.9	
Barshami_31181	Atal Jal	Piezometer	30.0075	77.0996	2023	7.81	476	295.1	202.3	45.4	21.6	27	12	0.0	178.5	29	35.6	0.34	12	
Barshami_31181	Atal Jal	Piezometer	30.0075	77.0996	2024	7.34	414	266	112.4	32.9	7.35	34	4	0.2	103.8	65.4	44.29	0.21	12.8	
Bartoli_31182	Atal Jal	Pizeometer	30.1055	77.0461	2024	7.66	470	281	121.1	34.63	8.4	35	4	0.464	107.5	68.96	46.9	0.22	13.4	
Bhallar_31184	Atal Jal	Tubewell	30.0239	77.0332	2024	7.08	914	562	245.6	75.03	14.15	64	9	0.249	219.7	98.14	91.82	0.51	33	

Gram Panchayat	Source	Type of well	Latitude	Longitude	Year	pH	EC	TDS	TH	Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	F	NO ₃
Bhoot Majra_31185	Atal Jal	Tubewell	29.9585	77.0706	2024	7.85	642	367	158.2	50.02	8.09	42	6	0.958	143	68.95	59.56	0.34	22.5
Bir Bartoli_31186	Atal Jal	Tubewell	30.0903	77.0486	2024	8.2	701	370	162.4	50.02	9.1	42	6	2.205	145.7	75.23	59.56	0.34	22.75
Bir Sonti_31188	Atal Jal	Tubewell	29.9868	76.9779	2024	6.89	417	223	95.76	30.01	5.06	25	3	0.064	87.93	44.77	37.22	0.21	14.75
Budha_31190	Atal Jal	Tubewell	29.982	77.0794	2024	7.07	487	256	112.4	35.01	6.07	29	4	0.11	99.88	52.33	42.19	0.24	16.5
Chhailondi_31191	Atal Jal	Piezometer	29.99	77.1007	2023	8.05	420	252	182.6	49.3	14.4	21	9	0.0	160.7	26.9	16.6	0.43	14
Chhailondi_31191	Atal Jal	Piezometer	29.99	77.1007	2024	8.21	378	210	90.79	25.97	6.3	26	3	1.2	78.7	57.71	33.87	0.17	10.3
Chhapra_31192	Atal Jal	Tubewell	30.0862	77.0649	2024	7.02	493	299	129.1	40.01	7.08	34	5	0.118	119.9	52.91	49.63	0.27	18.75
Dab Khera_31194	Atal Jal	Piezometer	30.0082	76.9993	2023	8.06	476	314.1	172.6	49.3	12.1	51.1	5.5	0.0	142.8	20.3	68.8	0.42	16.7
Dab Khera_31194	Atal Jal	Piezometer	30.0082	76.9993	2024	7.99	457	279	116.7	34.63	7.35	35	4	1.0	107.0	65.4	46.9	0.22	13.3
Dhanora Jattan_31195	Atal Jal	Piezometer	30.0238	77.0418	2023	7.94	469	272	185.6	51.5	13.83	24.21	7.62	0.0	143.1	21.43	47.22	0.32	17.93
Dhanora Jattan_31195	Atal Jal	Piezometer	30.0238	77.0418	2024	7.97	451	287	121.1	34.63	8.4	36	4	1.0	111.0	64.44	46.9	0.23	13.7
Dhiangla_31196	Atal Jal	Pizeometer	30.0398	77.0495	2024	7.81	398	228	95.12	27.7	6.3	29	4	0.534	87.44	60.31	36.48	0.18	11.1
Duda_31197	Atal Jal	Piezometer	29.9702	76.9987	2023	7.92	540	319	216.5	59.74	16.34	28.36	8.92	0.0	169.6	25.15	55.09	0.26	21
Duda_31197	Atal Jal	Piezometer	29.9702	76.9987	2024	8.12	479	295	125.4	36.36	8.4	37	5	1.4	110.6	74.15	49.51	0.23	14.1
Dudhi_31198	Atal Jal	Tubewell	29.9678	76.9875	2024	8.45	472	279	120.7	38.35	6.07	32	4	2.967	109	50.7	44.67	0.26	17.75
Dugari_31199	Atal Jal	Piezometer	30.055	77.0646	2023	7.99	424	267.1	148.1	43.3	9.6	43.4	4.7	0.0	119.0	17.3	59.3	0.32	14.2
Dugari_31199	Atal Jal	Piezometer	30.055	77.0646	2024	8.04	397	233	99.44	29.43	6.3	29	4	0.9	87.0	58.19	39.08	0.18	11.3
Gajlana_31201	Atal Jal	Piezometer	30.1132	77.0761	2023	8.32	519	332.2	172.7	51.27	10.8	37.5	11.9	0.0	148.0	27.1	92.6	0.45	23.9
Gajlana_31201	Atal Jal	Piezometer	30.1132	77.0761	2024	8.31	469	287	121.1	34.63	8.4	36	4	2.1	109.8	71.27	46.9	0.23	13.7
Gangori_31202	Atal Jal	Tubewell	30.104	77.0743	2024	7.63	498	262	112.4	35.01	6.07	30	4	0.417	103.6	53.49	42.19	0.24	16.75
Gharaula_31203	Atal Jal	Tubewell	30.0119	77.0253	2024	7.87	542	309	133.2	41.68	7.08	35	5	0.836	119.1	58.14	49.63	0.29	19.25
Girdhar Pura_31204	Atal Jal	Piezometer	30.0085	76.9861	2023	8.01	476	304.6	167.7	49.3	10.8	49.5	5.42	0.0	136.8	19.7	66.5	0.65	16.2
Girdhar Pura_31204	Atal Jal	Piezometer	30.0085	76.9861	2024	7.55	432	262	112.4	32.9	7.35	33	4	0.3	99.6	65.4	41.69	0.21	12.6
Gobindgarh_31205	Atal Jal	Tubewell	29.9515	77.0227	2024	6.01	468	265	116.6	35.01	7.08	30	4	0.01	104	50.23	42.19	0.24	17
Gudhi_31207	Atal Jal	Piezometer	30.0804	77.0456	2023	7.98	517	336.1	172.7	53.24	9.64	37.9	12	0.0	148.0	27.5	92.6	0.21	24.1
Gudhi_31207	Atal Jal	Piezometer	30.0804	77.0456	2024	8.1	487	286	121.1	34.63	8.4	36	4	1.3	110.6	70.98	46.9	0.23	13.7
Halal Pur_31208	Atal Jal	Tubewell	30.0273	77.0146	2024	7.33	860	532	233.2	71.69	13.15	61	8	0.426	211.6	92.33	86.85	0.49	31.5
Jainpur Jattan_31209	Atal Jal	Tubewell	29.9725	77.0286	2024	9	539	325	141.6	43.35	8.09	37	5	12.03	116.5	57.91	52.11	0.3	20.25
Jandhera_31210	Atal Jal	Piezometer	29.9977	77.11	2023	7.66	440	268	180.4	49.44	13.83	23.89	7.52	0.0	143.1	21.17	47.22	0.29	17.69
Jandhera_31210	Atal Jal	Piezometer	29.9977	77.11	2024	7.81	403	232	99.44	29.43	6.3	29	4	0.5	87.4	60.4	39.08	0.18	11.3
Jogi Majra_31211	Atal Jal	Tubewell	30.0613	77.0723	2024	8.45	503	299	129.1	40.01	7.08	34	5	3.179	116.8	53.95	49.63	0.27	18.75
Kalirano_31212	Atal Jal	Piezometer	30.0551	77.0184	2023	8.13	467	308.2	157.9	49.3	8.44	34.8	11	0.0	136.0	25.2	85.5	0.45	22.1
Kalirano_31212	Atal Jal	Piezometer	30.0551	77.0184	2024	7.92	419	271	116.7	32.9	8.4	34	4	0.8	103.2	64.15	44.29	0.21	13
Kharkali_31216	Atal Jal	Piezometer	30.0435	77.0882	2023	7.98	435	265.4	133.2	41.41	7.23	29.9	9.55	0.0	119.0	21.6	73.6	0.23	19
Kharkali_31216	Atal Jal	Piezometer	30.0435	77.0882	2024	8.19	382	211	90.79	25.97	6.3	27	3	1.2	78.8	59.73	33.87	0.17	10.3
Kheri Dabdalan_31217	Atal Jal	Tubewell	30.0154	77.0827	2024	6.06	475	293	129.1	40.01	7.08	33	5	0.013	116	50.93	47.15	0.27	18.5
Lathi Dhanora_31219	Atal Jal	Tubewell	29.9668	77.0435	2024	7.75	429	236	104.1	31.68	6.06	27	4	0.486	91.49	46.05	37.22	0.22	15.5
Mehra_31221	Atal Jal	Tubewell	30.0442	77.0703	2024	6.93	628	355	154	48.35	8.09	41	6	0.112	139.9	67.44	57.07	0.32	22
Murad Nagar_31223	Atal Jal	Piezometer	29.9554	77.089	2023	7.83	408	240.7	177.6	47.3	14.4	18	12	0.0	160.7	22.9	28.5	0.54	13
Murad Nagar_31223	Atal Jal	Piezometer	29.9554	77.089	2024	7.48	363	211	90.79	25.97	6.3	27	3	0.2	79.8	56.08	33.87	0.17	10.3
Niwarsi_31224	Atal Jal	Piezometer	30.0037	77.0217	2023	8.25	475	304	157.8	35.4	16.8	30.7	9.7	0.0	136.8	24.8	83.1	0.43	21.8
Niwarsi_31224	Atal Jal	Piezometer	30.0037	77.0217	2024	7.87	435	247	103.8	31.16	6.3	31	4	0.7	95.3	65.21	41.69	0.2	11.9
Patak Majra_265298	Atal Jal	Piezometer	30.054	77.0443	2023	7.94	495	292.1	148	45.35	8.44	33	10.5	0.0	130.0	23.9	80.7	0.21	21
Patak Majra_265298	Atal Jal	Piezometer	30.054	77.0443	2024	7.94	448	272	116.7	32.9	8.4	34	4	0.9	103.1	68	44.29	0.21	13
Prahlad Pur_31225	Atal Jal	Piezometer	30.0441	77.014	2023	8.01	496	287.7	148	45.35	8.44	32.5	10.3	0.0	130.0	23.5	78.3	0.32	20.6

Gram Panchayat	Source	Type of well	Latitude	Longitude	Year	pH	EC	TDS	TH	Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	F	NO ₃
Prahlad Pur_31225	Atal Jal	Piezometer	30.0441	77.014	2024	8.11	433	263	112.4	32.9	7.35	33	4	1.2	98.7	68.1	44.29	0.21	12.6
Salem Pur_31226	Atal Jal	Piezometer	29.9597	76.9937	2023	7.56	460	267	157.9	43.4	12	30	10	0.0	130.9	22	49.9	0.87	19
Salem Pur_31226	Atal Jal	Piezometer	29.9597	76.9937	2024	7.36	429	241	103.8	29.43	7.35	30	4	0.2	91.8	63.19	39.08	0.19	11.7
Samalkha_236923	Atal Jal	Piezometer	30.0084	77.0723	2023	8.27	454	295.1	152.9	33.5	16.8	29.8	9.4	0.0	130.9	24.1	80.7	0.54	21.2
Samalkha_236923	Atal Jal	Piezometer	30.0084	77.0723	2024	7.82	420	245	103.8	29.43	7.35	31	4	0.6	95.4	62.33	39.08	0.19	11.9
Shahjad Pur_245673	Atal Jal	Tubewell	30.0535	77.0805	2024	7.09	450	278	120.7	36.68	7.08	32	4	0.125	107.9	48.26	44.67	0.26	17.75
Sonti_31227	Atal Jal	Piezometer	29.9912	76.9896	2023	8.15	647	414	212.1	49.3	21.6	41.8	13.2	0.0	190.4	33.9	114.1	0.34	29.7
Sonti_31227	Atal Jal	Piezometer	29.9912	76.9896	2024	8.25	565	330	138.4	41.55	8.4	42	5	2.1	125.8	88.87	54.72	0.26	15.6
Sura_31228	Atal Jal	Tubewell	30.0248	77.0995	2024	8.36	430	264	116.6	35.01	7.08	30	4	2.24	101.7	46.16	42.19	0.24	17

Name of District	Name of Block	Source	Name of village/ OW data	Latitude	Longitude	EC June 2020	EC June-2021	EC June-2022	EC June-2023	EC June-2024
Kurukshetra_68	Ladwa_518	Atal Jal	Badach Pur_31176	29.978	77.0314	ND	ND	ND	ND	441
Kurukshetra_68	Ladwa_518	Atal Jal	Badar Pur_31170	29.965	77.0932	ND	ND	ND	ND	578
Kurukshetra_68	Ladwa_518	SGWB	Badarpur	29.9645	77.0933	550	500	500	600	700
Kurukshetra_68	Ladwa_518	Atal Jal	Bahlolpur_31183	30.0286	77.0253	ND	ND	ND	ND	481
Kurukshetra_68	Ladwa_518	SGWB	Bakali (Reported)(P.F.)	30.0232	77.0591	300	500	500	500	700
Kurukshetra_68	Ladwa_518	Atal Jal	Bakali_31171	30.0214	77.0583	ND	ND	ND	477	451
Kurukshetra_68	Ladwa_518	Atal Jal	Bani_31173	29.9712	77.0939	ND	ND	ND	573	531
Kurukshetra_68	Ladwa_518	SGWB	Bapda	29.9747	77.0581	300	800	700	800	600
Kurukshetra_68	Ladwa_518	Atal Jal	Bapda_31174	29.9748	77.0605	ND	ND	ND	420	402
Kurukshetra_68	Ladwa_518	Atal Jal	Bapdi_31175	29.9772	77.064	ND	ND	ND	ND	542
Kurukshetra_68	Ladwa_518	SGWB	Barhan	29.9807	77.0137	350	400	500	800	700
Kurukshetra_68	Ladwa_518	Atal Jal	Barhan_31177	29.98	77.0027	ND	ND	ND	715	625
Kurukshetra_68	Ladwa_518	Atal Jal	Barondi_31179	29.9577	77.0367	ND	ND	ND	679	593
Kurukshetra_68	Ladwa_518	Atal Jal	Barot_31180	29.9612	77.0226	ND	ND	ND	545	512
Kurukshetra_68	Ladwa_518	SGWB	Barshami	30.0085	77.1002	400	600	500	600	600
Kurukshetra_68	Ladwa_518	Atal Jal	Barshami_31181	30.0075	77.0996	ND	ND	ND	476	414
Kurukshetra_68	Ladwa_518	Atal Jal	Bartoli_31182	30.1055	77.0461	ND	ND	ND	ND	470
Kurukshetra_68	Ladwa_518	Atal Jal	Bhallar_31184	30.0239	77.0332	ND	ND	ND	ND	902
Kurukshetra_68	Ladwa_518	Atal Jal	Bhoot Majra_31185	29.9585	77.0706	ND	ND	ND	ND	635
Kurukshetra_68	Ladwa_518	Atal Jal	Bir Bartoli_31186	30.0903	77.0486	ND	ND	ND	ND	652
Kurukshetra_68	Ladwa_518	Atal Jal	Bir Sonti_31188	29.9868	76.9779	ND	ND	ND	ND	388
Kurukshetra_68	Ladwa_518	SGWB	Braunda	29.9592	77.0577	700	600	500	700	700
Kurukshetra_68	Ladwa_518	SGWB	Budha	29.9802	77.075	300	400	400	600	400
Kurukshetra_68	Ladwa_518	Atal Jal	Budha_31190	29.982	77.0794	ND	ND	ND	ND	456
Kurukshetra_68	Ladwa_518	Atal Jal	Chhailondi_31191	29.99	77.1007	ND	ND	ND	420	378
Kurukshetra_68	Ladwa_518	SGWB	Chhapra (Chocked)	30.0792	77.0638	300	500	600	600	400
Kurukshetra_68	Ladwa_518	Atal Jal	Chhapra_31192	30.0862	77.0649	ND	ND	ND	ND	480
Kurukshetra_68	Ladwa_518	Atal Jal	Dab Khera_31194	30.0082	76.9993	ND	ND	ND	476	457
Kurukshetra_68	Ladwa_518	Atal Jal	Dhanora Jattan_31195	30.0238	77.0418	ND	ND	ND	469	451
Kurukshetra_68	Ladwa_518	Atal Jal	Dhiangla_31196	30.0398	77.0495	ND	ND	ND	ND	398
Kurukshetra_68	Ladwa_518	Atal Jal	Duda_31197	29.9702	76.9987	ND	ND	ND	540	479
Kurukshetra_68	Ladwa_518	Atal Jal	Dudhi_31198	29.9678	76.9875	ND	ND	ND	ND	447
Kurukshetra_68	Ladwa_518	Atal Jal	Dugari_31199	30.055	77.0646	ND	ND	ND	424	397
Kurukshetra_68	Ladwa_518	Atal Jal	Gajlana_31201	30.1132	77.0761	ND	ND	ND	519	469

Name of District	Name of Block	Source	Name of village/ OW data	Latitude	Longitude	EC June 2020	EC June-2021	EC June-2022	EC June-2023	EC June-2024
Kurukshetra_68	Ladwa_518	Atal Jal	Gangori_31202	30.104	77.0743	ND	ND	ND	ND	477
Kurukshetra_68	Ladwa_518	SGWB	Gaudha (Reported)(P.F.)	30.0706	77.0497	600	700	600	600	700
Kurukshetra_68	Ladwa_518	Atal Jal	Gharaula_31203	30.0119	77.0253	ND	ND	ND	ND	507
Kurukshetra_68	Ladwa_518	Atal Jal	Girdhar Pura_31204	30.0085	76.9861	ND	ND	ND	476	432
Kurukshetra_68	Ladwa_518	SGWB	GobindGarh	29.96	77.0291	400	400	400	600	500
Kurukshetra_68	Ladwa_518	Atal Jal	Gobindgarh_31205	29.9515	77.0227	ND	ND	ND	ND	428
Kurukshetra_68	Ladwa_518	Atal Jal	Gudhi_31207	30.0804	77.0456	ND	ND	ND	517	487
Kurukshetra_68	Ladwa_518	Atal Jal	Halal Pur_31208	30.0273	77.0146	ND	ND	ND	ND	833
Kurukshetra_68	Ladwa_518	Atal Jal	Jainpur Jattan_31209	29.9725	77.0286	ND	ND	ND	ND	516
Kurukshetra_68	Ladwa_518	Atal Jal	Jandhera_31210	29.9977	77.11	ND	ND	ND	440	403
Kurukshetra_68	Ladwa_518	Atal Jal	Jogi Majra_31211	30.0613	77.0723	ND	ND	ND	ND	488
Kurukshetra_68	Ladwa_518	Atal Jal	Kalirano_31212	30.0551	77.0184	ND	ND	ND	467	419
Kurukshetra_68	Ladwa_518	Atal Jal	Kharkali_31216	30.0435	77.0882	ND	ND	ND	435	382
Kurukshetra_68	Ladwa_518	Atal Jal	Kheri Dabdalan_31217	30.0154	77.0827	ND	ND	ND	ND	454
Kurukshetra_68	Ladwa_518	SGWB	Ladwa	29.9969	77.0444	500	400	500	500	500
Kurukshetra_68	Ladwa_518	Atal Jal	Lathi Dhanora_31219	29.9668	77.0435	ND	ND	ND	ND	392
Kurukshetra_68	Ladwa_518	SGWB	Lohara	30.0207	76.9864	400	600	500	600	500
Kurukshetra_68	Ladwa_518	Atal Jal	Mehra_31221	30.0442	77.0703	ND	ND	ND	ND	578
Kurukshetra_68	Ladwa_518	Atal Jal	Murad Nagar_31223	29.9554	77.089	ND	ND	ND	408	363
Kurukshetra_68	Ladwa_518	Atal Jal	Niwarsi_31224	30.0037	77.0217	ND	ND	ND	475	435
Kurukshetra_68	Ladwa_518	Atal Jal	Patak Majra_265298	30.054	77.0443	ND	ND	ND	495	448
Kurukshetra_68	Ladwa_518	Atal Jal	Prahlad Pur_31225	30.0441	77.014	ND	ND	ND	496	433
Kurukshetra_68	Ladwa_518	Atal Jal	Salem Pur_31226	29.9597	76.9937	ND	ND	ND	460	429
Kurukshetra_68	Ladwa_518	Atal Jal	Samalkha_236923	30.0084	77.0723	ND	ND	ND	454	420
Kurukshetra_68	Ladwa_518	Atal Jal	Shahjad Pur_245673	30.0535	77.0805	ND	ND	ND	ND	430
Kurukshetra_68	Ladwa_518	Atal Jal	Sonti_31227	29.9912	76.9896	ND	ND	ND	647	565
Kurukshetra_68	Ladwa_518	Atal Jal	Sura_31228	30.0248	77.0995	ND	ND	ND	ND	419