

ATAL BHUJAL YOJANA (AtalJal)

State : HARYANA

**Department : IRRIGATION & WATER
RESOURCE DEPARTMENT**

BLOCK : ELLENABAD

DISTRICT : SIRSA

YEAR : 2024-2025

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

HYDROGEOLOGICAL REPORT
(YEAR: 2024-25)

STATE	:	HARYANA
DISTRICT	:	SIRSA
BLOCK/TALUK	:	ELLENABAD
BLOCK/TALUK HQs	:	ELLENABAD

A	GENERAL INFORMATION				
1.	Geographical area (Ha)	:	54969		
2.	No. of Gram Panchayats	:	33		
3.	No. of towns	:	1		
4.	No. of villages	:	38		
5.	Population (2011)	:	Male	Female	Total
			51589	49102	100691
6	Rainfall (mm) (2023)	:	Monsoon	Non-monsoon	Annual
			168	166	334
7.	River basin	:	Ghaggar river basin		
8.	Major soil types	:	Sand to Sandy soil		

B	LAND USE (2023-24)			
1.	Forest area (Ha)	:	0	
2.	Cultivable area (Ha)	:	46687	
3.	Net sown area (Ha)	:	36408	
4.	Gross cropped area (Ha)	:	87106	

C	CROPPING PATTERN (As in 2023-24)					
1.	Major crops grown	:	Kharif	Rabi	Summer	Perennial
			Paddy	Wheat	NA	Sugarcane
			Cotton	Mustard		
			Bajra			
			Vegetable	Onion		

D	IRRIGATION FACILITIES (As in 2023-24)						
1.	Net irrigated area (Ha)	:	36408				
2.	Gross irrigated area (Ha)	:	87106				
3.	Area under irrigation (Ha) (Source-wise)	:	DW	BW/TW	Tanks/ Ponds	Canal s	Others
				10123	-	26519	-

E	GEOLOGY & HYDROGEOLOGY		
1.	Predominant rocktype	:	Sand, Silt, Clay &Kankar
2.	Major geological formations	:	Older 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 Water Level (WL) monitoring.	:	Open wells				BW/TW/ PZ				
		CGWB	SGWB	Atal Jal	Total	CGWB	SGWB	Atal Jal	Total		
		4	6	0	10	2	24	37	63		
2	Monitoring mechanism (Nos.)	:	Manual			DWLR			Telemetry		
		CGWB	SGW B	Atal Jal	CGW B	SGW B	Atal Jal	CGW B	SGW B	Atal Jal	
		6	30	11	0	0	26	0	0	26	
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)		4.4/Dhani Jattan_32625 (Kishanpura)				55.75/Damdama_32609				
	Post-monsoon (Oct/Nov 2024)		5.05/Chilkani Dhab_32607				53.61/Kariwala_32620				
6	Seasonal WL fluctuation range (m)	:	Minimum/ Village				Maximum/ Village				
		-10/Dharampura_32613				7.5/Karamsana_32619					

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
		1	6	0	7	3	26	32	61
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							

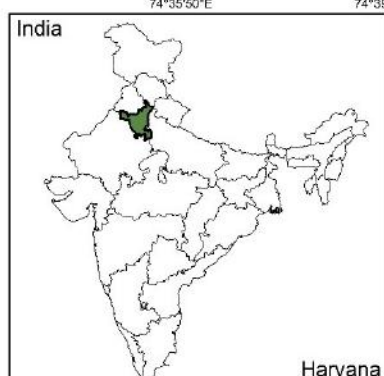
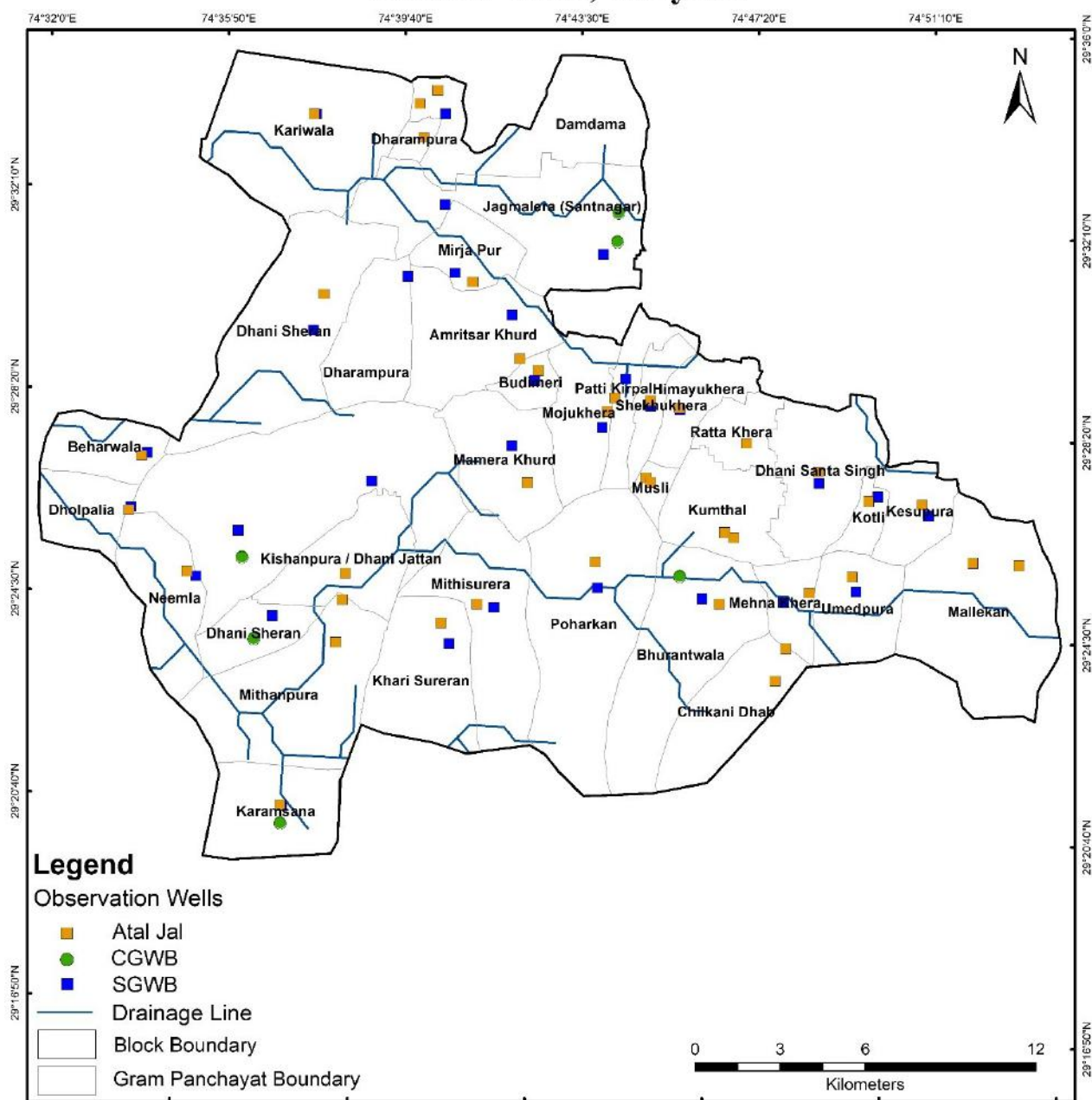
H. GROUND WATER RESOURCES								
1.	Latest assessment year	:	2023					
2.	Assessment Unit	:	Block					
3.	Annual extractable GW resource (ha.m)	:	5910.0					
4.	Current annual GW extraction (ha.m)	:	6904.0					
5.	Net GW availability for future use (ha.m)	:	0.0					
6.	Stage of GW extraction (%)	:	226.44 %					
7.	Category of block/taluk/(2023)	:	Over Exploited					
8.	Category of block/taluk/ in previous assessments		2023 Over Exploited	2020 Over Exploited	2017 Over Exploited	2013 Over Exploited	2011 Over Exploited	2009 Over Exploited
								2004 Over Exploited

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)	MNREGA	
		iv)	RKVY	
	State Schemes	i)	State Plan Scheme (Head 2402)	
		ii)	MPMV	
		iii)		
		iv)		

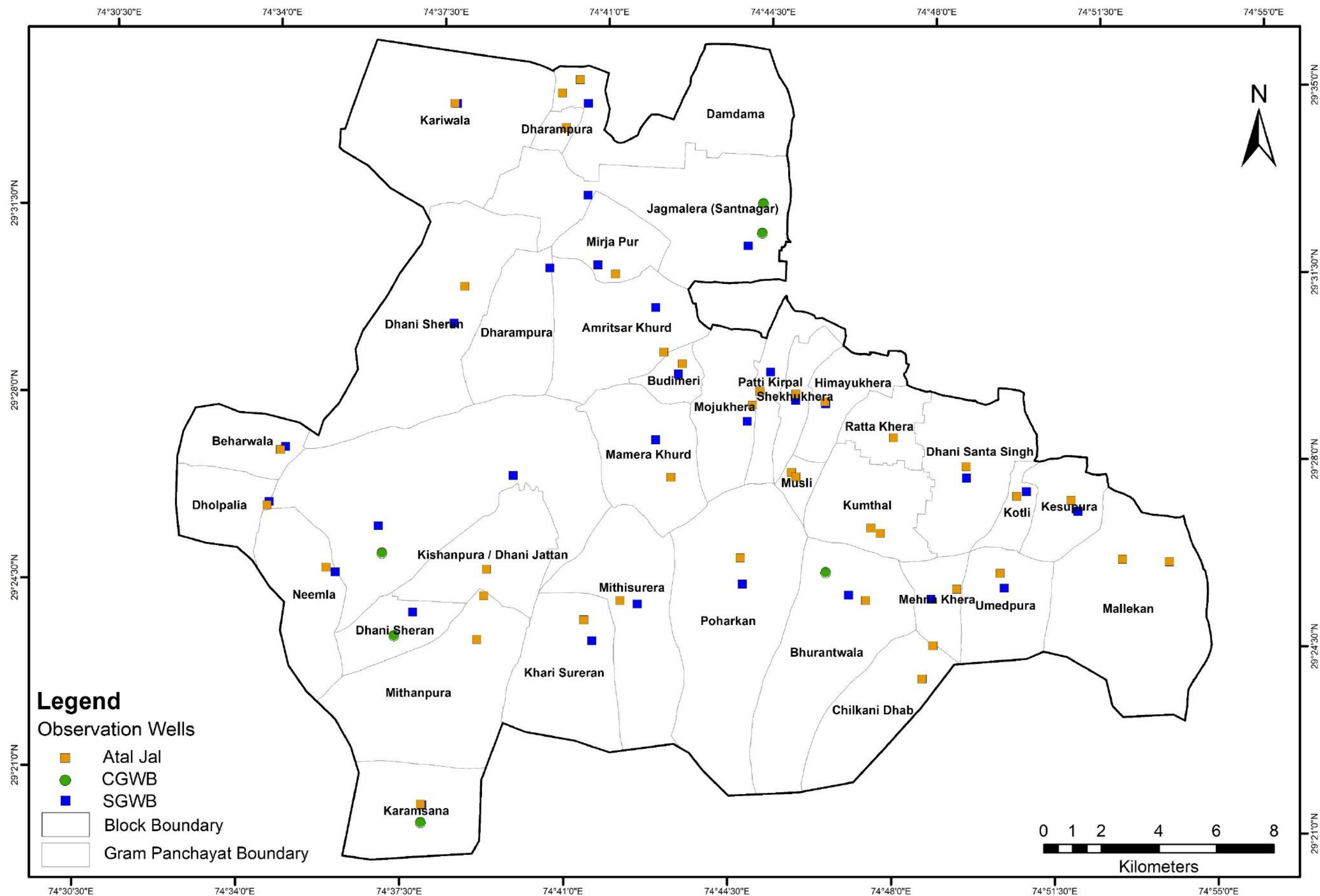
J. GROUND WATER RELATED ISSUES			
1.	Ground water related issues of the block		
	i) Issues related to GW availability	:	Due over exploitation of Groundwater, subsequently the present stage of ground water extraction is 226.4%
	ii) Issues related to GW quality	:	Groundwater contamination can be seen in pockets with salinity is fresh to moderate.
	iii) Other issues if any.	:	No

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

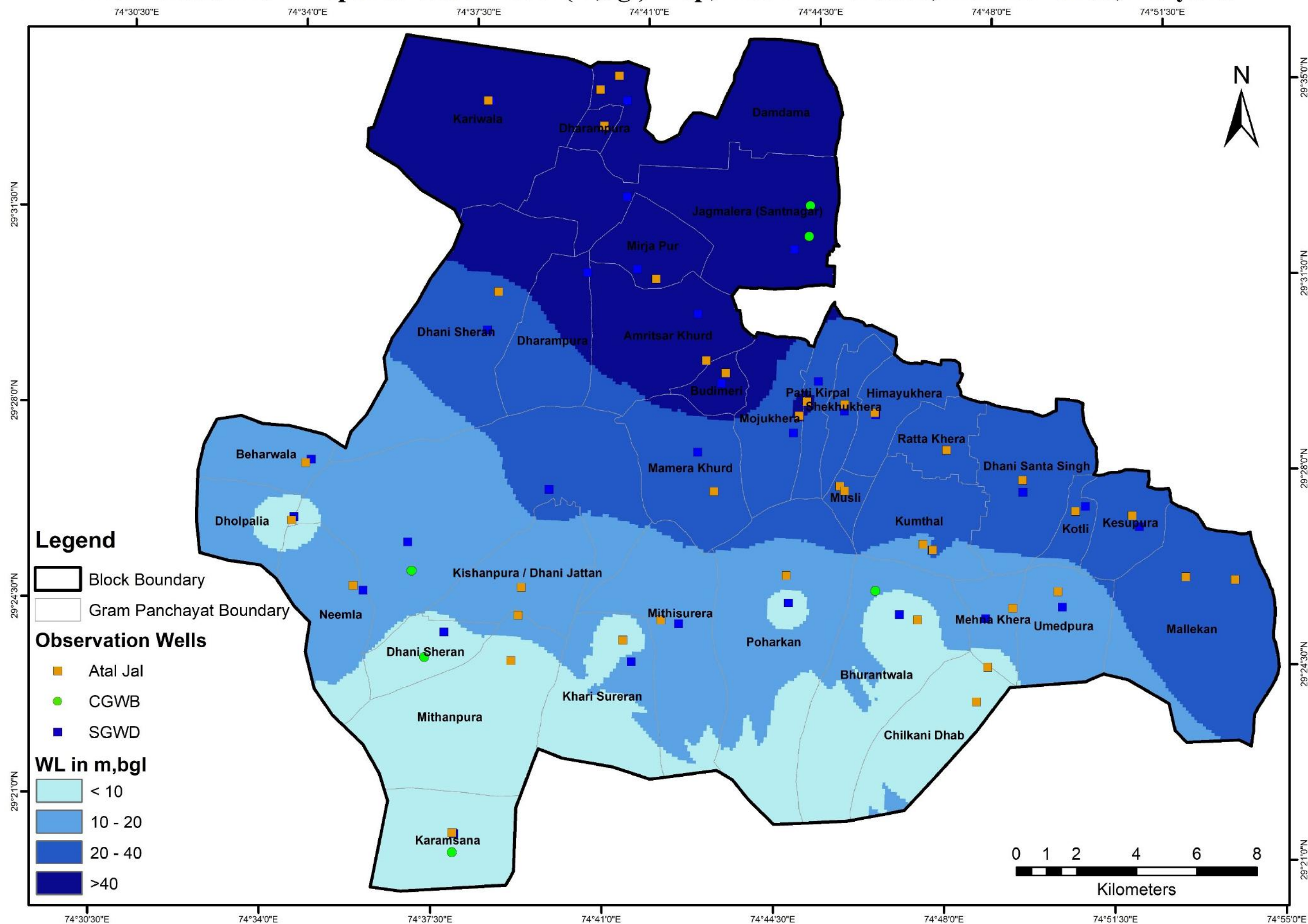
Location Map of Block- Ellenabad, District- Sirsa, Haryana



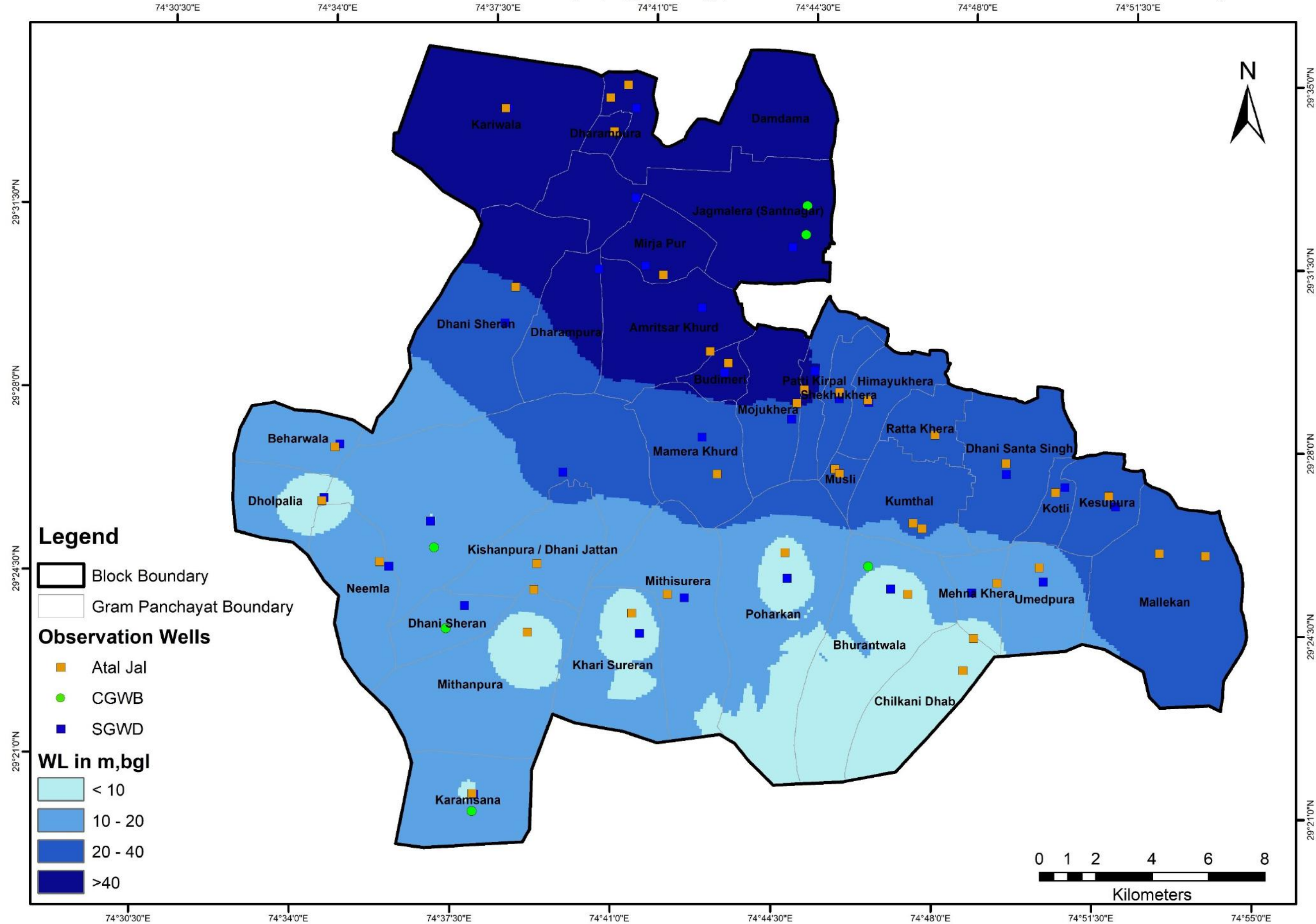
Location of Observation Wells for Monitoring Water Levels and Water Quality, Block-Ellenabad, District- Sirsa, Haryana



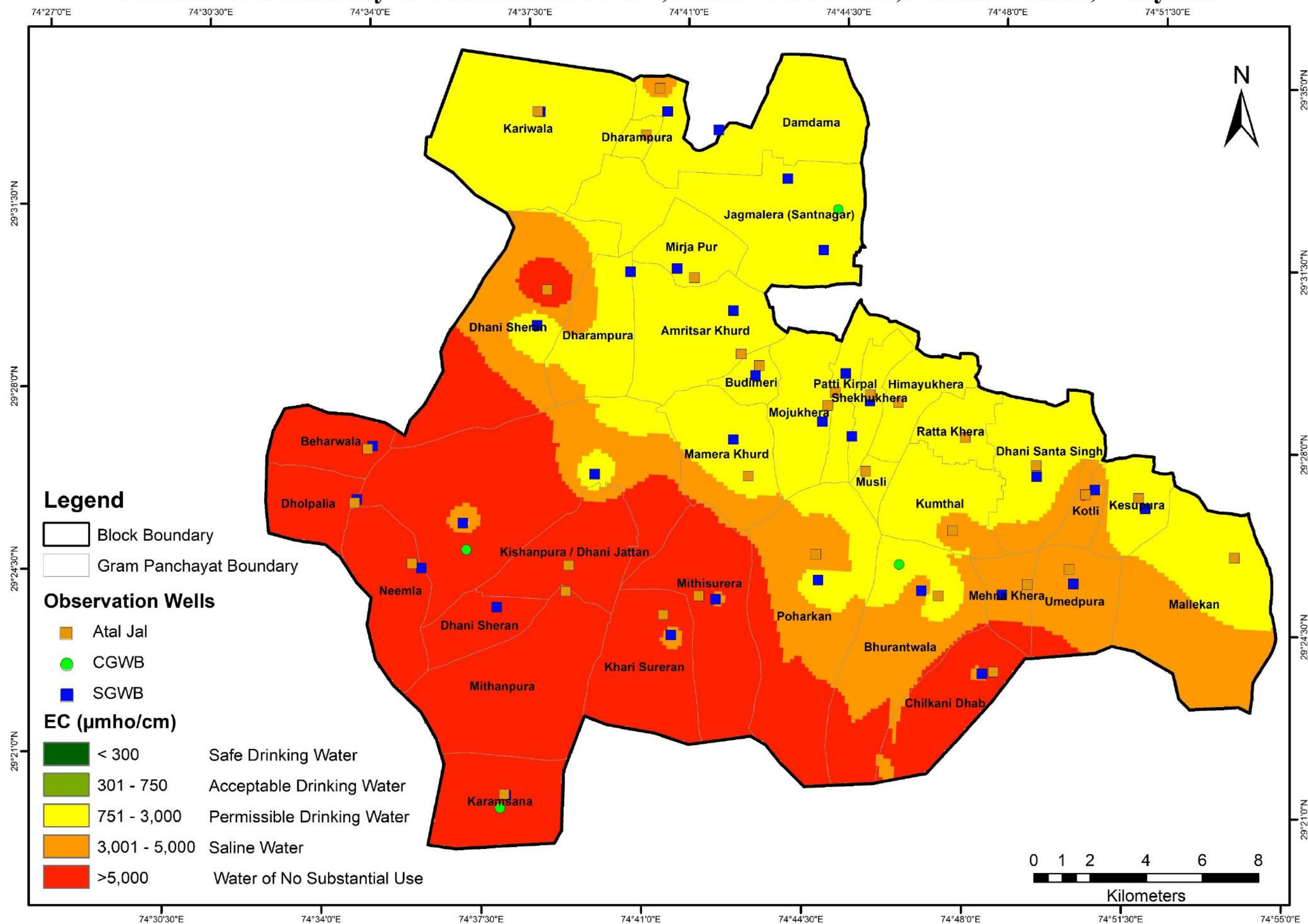
Pre Monsoon 2024 Depth to Water Level (m,bgl) Map, Block - Ellenabad, District - Sirsa, Haryana



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



Electrical Conductivity of Groundwater-2024, Block - Ellenabad, District - Sirsa, Haryana



ANNEXURE: 1
BASIC DATA OF MONITORING WELLS

State	Haryana			District	Sirsa			Block	Ellenabad						
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.	SIR_ELL_AMRIT_1	Amritsar Khurd_265857	Amritsar Khurd	Sukhwant	29.4897	74.7091	Tube Well	196	Unconfined Aquifer/ sand, Clay, Kankar	0.43	113	0.18	WQ	Manual	Atal Jal
2.	HR_GW_825	Beharwala_32604	Beharwala	Stadium Play Ground, Beharwala	29.4527	74.5744	Piezometer	189	Semi Confined to Confined	0.50	51	0.10	Both	Telemetric	Atal Jal
3.	HR_GW_842	Bhurantwala_32606	Bhuratwala	Govt. Primary School, Bhuratwala	29.4156	74.7857	Piezometer	195	Semi Confined to Confined	0.50	54	0.10	Both	Telemetric	Atal Jal
4.	HR_GW_843	Budimeri_32605	Budimeri	Gram Sachiwalya, Budhmeri	29.4863	74.7159	Piezometer	196	Semi Confined to Confined	0.50	104	0.10	Both	Telemetric	Atal Jal
5.	HR_GW_826	Chilkani Dhab_32607	Chilkani Dab	Govt Priamry School, Chilkani Dab	29.3922	74.8073	Piezometer	198	Semi Confined to Confined	0.50	57	0.10	Both	Telemetric	Atal Jal
6.	GWL-06-074-00548-00032607-001	Chilkani Dhab_32607	Chlkani Dhab	On Mehna Khera Road	29.4027	74.8105	Bore Well	202	Semi Confined to Confined	0.30	24	0.25	WL	Manual	Atal Jal-Private
7.	HR_GW_827	Damdama_32609	Damdama	Shamshan Ghat, Damdama	29.5731	74.6741	Piezometer	192	Semi Confined to Confined	0.50	132	0.10	Both	Telemetric	Atal Jal
8.	HR_GW_835	Dhani Jattan_32625 (Kishanpura)	Kishanpura	Govt. Primary School ,Kishanpura	29.4190	74.6502	Piezometer	193	Semi Confined to Confined	0.50	93	0.10	Both	Telemetric	Atal Jal
9.	HR_GW_828	Dhani Santa Singh_298065	Kutabadh	Shamshan Ghat, Dhani Santa Singh	29.4589	74.8190	Piezometer	205	Semi Confined to Confined	0.50	121	0.10	Both	Telemetric	Atal Jal
10.	SIR_ELL_DHANISHERAN_1	Dhani Sheran_32612	Dhani Sheran	Subhash	29.5068	74.6369	Tube Well	195	Unconfined Aquifer/ sand, Clay, Kankar	0.70	21	0.10	WQ	Manual	Atal Jal
11.	SIR_ELL_DHARAM_1	Dharampura_32613	Dharampura	Joginder	29.5580	74.6699	Tube Well	192	Unconfined Aquifer/ sand, Clay, Kankar	0.30	85	0.25	WQ	Manual	Atal Jal
12.	HR_GW_845	Dholpalia_32614	Dholpalia	Govt. Sr. Sec. School , Dholpalia	29.4353	74.5708	Piezometer	189	Semi Confined to Confined	0.50	51	0.10	Both	Telemetric	Atal Jal
13.	HR_GW_824	Himayukhera_32616	Himaykhera	Govt Middle School, Himaykhera	29.4768	74.7674	Piezometer	198	Semi Confined to Confined	0.50	100	0.10	Both	Telemetric	Atal Jal
14.	HR_GW_831	Karamsana_32619	Karamsana	Govt High School, Karamsana	29.3447	74.6312	Piezometer	195	Semi Confined to Confined	0.50	54	0.10	Both	Telemetric	Atal Jal
15.	HR_GW_832	Kariwala_32620	Kariwala	Govt Sr. Sec. School, Kariwala	29.5636	74.6298	Piezometer	193	Semi Confined to Confined	0.50	105	0.10	Both	Telemetric	Atal Jal
16.	HR_GW_844	Kesupura_32622	Keshupura	Govt Middle School Keshupura	29.4502	74.8570	Piezometer	195	Semi Confined to Confined	0.50	94	0.10	Both	Telemetric	Atal Jal
17.	HR_GW_833	Khari Sureran_32623	Khari Surera	Govt. Middle School, Khari Surera	29.4049	74.6857	Piezometer	198	Semi Confined to Confined	0.50	54	0.10	Both	Telemetric	Atal Jal
18.	SIR_ELL_KOT_1	Kotli_32626	Kotli	Sarbjeet	29.4505	74.8376	Tube Well	197	Unconfined Aquifer/ sand, Clay, Kankar	0.50	107	0.25	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.	HR_GW_834	Kumthal_32627	Kumthal	Shamshan Ghat, Khumthal	29.4368	74.7897	Piezometer	195	Semi Confined to Confined	0.50	69	0.10	Both	Telemetric	Atal Jal
20.	GWL-06-074-00548-00032627-001	Kumthal_32627	Kumbthal	In Village	29.4383	74.7863	Tube Well	197	Semi Confined to Confined	0.40	37	0.25	WL	Manual	Atal Jal-Private
21.	GWL-06-074-00548-00032629-001	Mallekan_32629	Mallekan	In Police Station	29.4328	74.8765	Tube Well	198	Semi Confined to Confined	0.60	65	0.25	WL	Manual	Atal Jal-Private
22.	SIR_ELL_MAL_1	Mallekan_32629	Mallekan	Subidh	29.4327	74.8932	Tube Well	198	Unconfined Aquifer/ sand, Clay, Kankar	0.55	67	0.25	WQ	Manual	Atal Jal
23.	HR_GW_836	Mamera Khurd_32631	Mamera Khurd	Govt. Primary School Mamera Khurd	29.4507	74.7141	Piezometer	198	Semi Confined to Confined	0.50	88	0.10	Both	Telemetric	Atal Jal
24.	HR_GW_837	Mehna Khera_32632	Mehna Khera	Govt. Sr. Sec. School, Mehna Khera	29.4207	74.8180	Piezometer	196	Semi Confined to Confined	0.50	69	0.10	Both	Telemetric	Atal Jal
25.	SIR_ELL_MIRZAPUR_1	Mirja Pur_32633	Mirjapur	Ajit Pal	29.5131	74.6904	Tube Well	193	Unconfined Aquifer/ sand, Clay, Kankar	1.00	152	0.10	WQ	Manual	Atal Jal
26.	HR_GW_838	Mithanpura_32634	Mithanpura	Govt. High School Mithanpura	29.4107	74.6496	Piezometer	191	Semi Confined to Confined	0.50	53	0.10	Both	Telemetric	Atal Jal
27.	GWL-06-074-00548-00032634-001	Mithanpura_32634	Mithanpura	Near Canal	29.3970	74.6480	Tube Well	198	Semi Confined to Confined	0.00	33	0.25	WL	Manual	Atal Jal-Private
28.	HR_GW_829	Mithisurera_32635	Mithi Surera	Govt. Ayurvedik Dispensary Mithi Surera	29.4115	74.6983	Piezometer	197	Semi Confined to Confined	0.50	95	0.10	Both	Telemetric	Atal Jal
29.	HR_GW_839	Mojukhera_32636	Mojukhera	Govt. Sr. Sec. School Mojukhera	29.4746	74.7417	Piezometer	195	Semi Confined to Confined	0.50	94	0.10	Both	Telemetric	Atal Jal
30.	HR_GW_846	Musli_32638	Musli	Veterinary Hospital, Musli	29.4543	74.7568	Piezometer	194	Semi Confined to Confined	0.50	93	0.10	Both	Telemetric	Atal Jal
31.	GWL-06-074-00548-00032638-001	Musli_32638	Musli	Village South Side	29.4529	74.7585	Bore Well	196	Semi Confined to Confined	0.30	100	0.25	WL	Manual	Atal Jal-Private
32.	HR_GW_840	Neemla_32639	Neemla	Govt. Sr. Sec. School Neemla	29.4169	74.5929	Piezometer	197	Semi Confined to Confined	0.50	54	0.10	Both	Telemetric	Atal Jal
33.	HR_GW_830	Patti Kirpal_32624	Pattkirpal	Shamshan Ghat, Pattkirpal	29.4790	74.7441	Piezometer	193	Semi Confined to Confined	0.50	117	0.10	Both	Telemetric	Atal Jal
34.	HR_GW_841	Poharkan_32641	Poharkan	Govt. High School Poharkan	29.4268	74.7402	Piezometer	193	Semi Confined to Confined	0.50	70	0.10	Both	Telemetric	Atal Jal
35.	HR_GW_847	Ratta Khera_32642	Rattakhera	Shamshan Ghat, Rattakhera	29.4668	74.7925	Piezometer	198	Semi Confined to Confined	0.50	91	0.10	Both	Telemetric	Atal Jal
36.	HR_GW_880	Shekhukhera_32643	Sekhukhera	Govt. Primary School ,Shekhukhera	29.4788	74.7570	Piezometer	194	Semi Confined to Confined	0.50	104	0.10	Both	Telemetric	Atal Jal
37.	HR_GW_848	Umedpura_32646	Umedpura	Govt. Middle School, Umedpura	29.4263	74.8331	Piezometer	198	Semi Confined to Confined	0.50	68	0.10	Both	Telemetric	Atal Jal
38.	W292530074461501	Bhurantwala_32606	Bhuratwala	Bhuratwala -Pz	29.4236	74.7708	Piezometer	194	Unconfined to Semi Confined	0.60	103	0.11	Both	Manual	CGWB
39.	W293215074443003	Damdama_32609	Sri Jiwan Nagar	Sri Jiwan Nagar-B	29.5283	74.7418	Dug Well	193.94	Unconfined to Semi Confined	0.30	70	0.10	WL	Manual	CGWB

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.	W292335074370302	Dhani Jattan_32625 (Kishanpura)	Sherawali Dhani	Sherawali Dhani – S-Pz	29.3966	74.6183	Piezometer	205	Unconfined to Semi Confined	0.50	105	0.10	WL	Manual	CGWB
41.	Jiw_29.537_74.741	Jagmalera (Santnagar)_32617	Jiwan nagar	Jiwan Nagar	29.5375	74.7417	Dug Well	195	Alluvium	0.28	115	0.25	WQ	Manual	CGWB
42.	W292025074374801	Karamsana_32619	Karamsana	Karamsana	29.3389	74.6314	Dug Well	190.11	Unconfined to Semi Confined	2.55	32	1.95	Both	Manual	CGWB
43.	W292520074364501	Kash Ram Dhab	Kash Ram Dhab	Kash Ram Dhab	29.4222	74.6125	Dug Well	190	Unconfined to Semi Confined	0.59	14	1.50	Both	Manual	CGWB
44.	Am_29.5034_74.7054	Amritsar Khurd_265857	Amritsar	Govt. Primary School Amritsar Kalan	29.5034	74.7054	Piezometer	194.33	Unconfined to Semi Confined	0.65	96	0.10	WL	Manual	SGWD
45.	Be_29.4537_74.5762	Beharwala_32604	Beharwala	Well On Pond (Johad) Beharwala	29.4537	74.5762	Dug Well	195.16	Unconfined to Semi Confined	1.25	15	2.00	WL	Manual	SGWD
46.	Bh_29.417_74.7795	Bhurantwala_32606	Bhuratwala	Public Health Tubewell Near Canal (Nehar) Bhuratwala	29.4170	74.7795	Tube Well	194.39	Unconfined to Semi Confined	0.70	80	0.25	WL	Manual	SGWD
47.	Bu_29.4831_74.7147	Budimeri_32605	Budhimari	Budhimari Public Health Tube	29.4831	74.7147	Tube Well	194.75	Unconfined to Semi Confined	0.70	100	0.25	WL	Manual	SGWD
48.	Da_29.5658_74.6773	Damdama_32609	Damdama	Outside Damdama Main Road	29.5658	74.6773	Dug Well	193	Unconfined to Semi Confined	1.25	68	2.00	WL	Manual	SGWD
49.	Ji_29.5242_74.7371	Damdama_32609	Jiwan Nagar	Pt Near Aganwadi Jiwan Nagar	29.5242	74.7371	Piezometer	195.84	Unconfined to Semi Confined	0.65	60	0.10	WL	Manual	SGWD
50.	Sh_29.4044_74.6247	Dhani Jattan_32625 (Kishanpura)	Sheran Wali	Public Health Tube Well Sheran Wali	29.4044	74.6247	Tube Well	195.12	Unconfined to Semi Confined	0.70	80	0.25	WL	Manual	SGWD
51.	Ku_29.4554_74.8193	Dhani Santa Singh_298065	Kuta Bad	Public Health Tube Well Kuta Bad	29.4554	74.8193	Tube Well	196.25	Unconfined to Semi Confined	0.70	80	0.25	WL	Manual	SGWD
52.	Ta_29.4952_74.6338	Dhani Sheran_32612	Talwara Khurd	Tubewell In Village Talwara Khurd	29.4952	74.6338	Piezometer	194	Unconfined to Semi Confined	0.65	60	0.10	WL	Manual	SGWD
53.	Th_29.5139_74.6669	Dharampura_32613	Thobrian	Gps Thobrian	29.5139	74.6669	Piezometer	192	Unconfined to Semi Confined	0.65	96	0.10	WL	Manual	SGWD
54.	Dh_29.4363_74.5714	Dholpalia_32614	Dholpalia	Dholpalia Ow In Village	29.4363	74.5714	Dug Well	196.18	Unconfined to Semi Confined	1.25	19	2.00	WL	Manual	SGWD
55.	Hu_29.4652_74.7511	Himayukhera_32616	Humayu Khera	Humayu Khera On Road Tubewell	29.4762	74.7678	Tube Well	195.75	Unconfined to Semi Confined	0.70	80	0.25	WL	Manual	SGWD
56.	Ja_29.5465_74.7226	Jagmalera (Santnagar)_32617	Jagmalera	Tubewell On Road Jagmalera	29.5372	74.6791	Tube Well	196.83	Unconfined to Semi Confined	0.70	110	0.25	WL	Manual	SGWD
57.	Ka_29.3445_74.6318	Karamsana_32619	Karamshana	Well In Village Karamshana	29.3445	74.6318	Dug Well	195.22	Unconfined to Semi Confined	1.25	19	2.00	WL	Manual	SGWD
58.	Ka_29.5635_74.6307	Kariwala_32620	Kariwala	Kariwala Tubewell On Main Road	29.5635	74.6307	Tube Well	196.04	Unconfined to Semi Confined	0.70	110	0.25	WL	Manual	SGWD
59.	Ke_29.4469_74.8597	Kesupura_32622	Kesupura	Public Health Tube Well Kesupura	29.4469	74.8597	Tube Well	200.49	Unconfined to Semi Confined	0.70	80	0.25	WL	Manual	SGWD
60.	Kh_29.3985_74.689	Khari Sureran_32623	Khari Sureran	Public Health Tube Well Khari	29.3985	74.6890	Tube Well	193.78	Unconfined to Semi Confined	0.70	80	0.25	WL	Manual	SGWD

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
				Sureran											
61.	Ko_29.4522_74.841	Kotli_32626	Kotli	Public Health Tube Well Kotli	29.4522	74.8410	Tube Well	197.91	Unconfined to Semi Confined	0.70	90	0.25	WL	Manual	SGWD
62.	Ma_29.4621_74.7078	Mamera Khurd_32631	Mamera Kalan	Tube Well On Road Mamera Kalan To Ellenabad	29.4621	74.7078	Tube Well	193.75	Unconfined to Semi Confined	0.70	90	0.25	WL	Manual	SGWD
63.	Me_29.4171_74.809	Mehna Khera_32632	Mehana Khera	Tubewell Near Nehar Mehana Khera	29.4171	74.8090	Piezometer	196.3	Unconfined to Semi Confined	0.65	75	0.10	WL	Manual	SGWD
64.	Mi_29.5158_74.6839	Mirja Pur_32633	Mirja Pur	Pt Gsss Mirja Pur	29.5158	74.6839	Tube Well	192.5	Unconfined to Semi Confined	0.70	96	0.25	WL	Manual	SGWD
65.	Mi_29.4107_74.7044	Mithisurera_32635	Mithi Sureran	Public Health Tube Well Mithi Sureran	29.4107	74.7044	Tube Well	193.82	Unconfined to Semi Confined	0.70	80	0.25	WL	Manual	SGWD
66.	Mo_29.4694_74.7401	Mojukhera_32636	Moju Khera	Tubewell Ellenabad Road Moju Khera	29.4694	74.7401	Tube Well	196.01	Unconfined to Semi Confined	0.70	80	0.25	WL	Manual	SGWD
67.	Ni_29.4156_74.5964	Neemla_32639	Nimla	Well In Middle Of Village Nimla	29.4156	74.5964	Dug Well	197.26	Unconfined to Semi Confined	1.25	18	2.00	WL	Manual	SGWD
68.	Pa_29.4852_74.7476	Patti Kirpal_32624	Patti Kirpal	Tube Well On Road Patti Kirpal	29.4852	74.7476	Tube Well	194	Unconfined to Semi Confined	0.70	90	0.25	WL	Manual	SGWD
69.	Po_29.4187_74.7415	Poharkan_32641	Pohrka	Tubewell Near Nehar Pohrka	29.4187	74.7415	Tube Well	195.03	Unconfined to Semi Confined	0.70	80	0.25	WL	Manual	SGWD
70.	Se_29.4768_74.757	Shekhukhera_32643	Seku Khera	Tubewell On Road Seku Khera	29.4768	74.7570	Tube Well	199.25	Unconfined to Semi Confined	0.70	90	0.25	WL	Manual	SGWD
71.	Um_29.4218_74.8348	Umedpura_32646	Umed Pura	Public Health Tube Well Sirsa- Ellenabad Umed Pura	29.4218	74.8348	Piezometer	196.21	Unconfined to Semi Confined	0.65	30	0.10	WL	Manual	SGWD
72.	El_29.4486_74.6578	Ellanabad	Ellanabad	Girls School Ellanabad	29.4486	74.6578	Piezometer	195.48	Unconfined to Semi Confined	0.65	60	0.10	WL	Manual	SGWD
73.	Ka_29.4307_74.6107	Kashiramka Bass	Kashiramka Bass	Well In Village Kashiramka Bass	29.4307	74.6107	Dug Well	195.21	Unconfined to Semi Confined	1.25	17	2.00	WL	Manual	SGWD

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

State	Haryana	District	Sirsa	Block	Ellenabad
Month of Pre-monsoon Water Level Measurement					May/June
Month of Post-monsoon water Level measurement					October/November

S.No.	Observation Point	Source	Well Type	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	Beharwala_32604	Atal Jal	Piezometer	29.4527	74.5744	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.6	11.08
2	Bhurantwala_32606	Atal Jal	Piezometer	29.4156	74.7857	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.99	8.45
3	Budimeri_32605	Atal Jal	Piezometer	29.4863	74.7159	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	48.2	45.3
4	Chilkani Dhab_32607	Atal Jal	Piezometer	29.3922	74.8073	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	5.05
5	Chilkani Dhab_32607	Atal Jal	Bore Well	29.4027	74.8105	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.8	8.2	7.5	6.2
6	Damdama_32609	Atal Jal	Piezometer	29.5687	74.6679	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	51.6	52.2	52.1	53
7	Dhani Jattan_32625 (Kishanpura)	Atal Jal	Piezometer	29.4190	74.6502	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.8	14.98
8	Dhani Santa Singh_298065	Atal Jal	Piezometer	29.4589	74.8190	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35.1	37.06
9	Dholpalia_32614	Atal Jal	Piezometer	29.4353	74.5708	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.3	8.47
10	Himayukhera_32616	Atal Jal	Piezometer	29.4768	74.7674	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35.6	38.87
11	Karamsana_32619	Atal Jal	Piezometer	29.3447	74.6312	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.31	9.8
12	Kariwala_32620	Atal Jal	Piezometer	29.5636	74.6298	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	53.61
13	Kesupura_32622	Atal Jal	Piezometer	29.4502	74.8570	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.1	37.58
14	Khari Sureran_32623	Atal Jal	Piezometer	29.4049	74.6857	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.93	7.31
15	Kumthal_32627	Atal Jal	Piezometer	29.4368	74.7897	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.3	20.4
16	Kumthal_32627	Atal Jal	Tube Well	29.4383	74.7863	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.3	19.9	19.6	20.5
17	Mallekan_32629	Atal Jal	Tube Well	29.4328	74.8765	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21.6	25.4	24.2	29.22
18	Mamera Khurd_32631	Atal Jal	Piezometer	29.4507	74.7141	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	29.2	31.64
19	Mehna Khera_32632	Atal Jal	Piezometer	29.4207	74.8180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.4	14.52
20	Mithanpura_32634	Atal Jal	Piezometer	29.4107	74.6496	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.2	11.05
21	Mithanpura_32634	Atal Jal	Tube Well	29.3970	74.6480	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.45	6	6.3	7.2
22	Mithisurera_32635	Atal Jal	Piezometer	29.4115	74.6983	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.8	12.02
23	Mojukhera_32636	Atal Jal	Piezometer	29.4746	74.7417	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.9	40.05
24	Musli_32638	Atal Jal	Piezometer	29.4543	74.7568	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35.8	30.75
25	Musli_32638	Atal Jal	Bore Well	29.4529	74.7585	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26.5	28	26.5	26.6
26	Neemla_32639	Atal Jal	Piezometer	29.4169	74.5929	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.2	12.79
27	Patti Kirpal_32624	Atal Jal	Piezometer	29.4790	74.7441	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.4	42.05
28	Poharkan_32641	Atal Jal	Piezometer	29.4268	74.7402	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.7	7.4
29	Ratta Khera_32642	Atal Jal	Piezometer	29.4668	74.7925	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.8	32.61
30	Shekhukhera_32643	Atal Jal	Piezometer	29.4788	74.7570	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	38.1	41.1
31	Umedpura_32646	Atal Jal	Piezometer	29.4263	74.8331	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.9	15.54
32	Bhurantwala_32606	CGWB	Piezometer	29.4236	74.7708	11	10.9	10.6	9.1	11.7	11.8	12	11.5	12.7	NA	11.6	11.8	NA	NA	14	14	NA	NA	NA	NA
33	Damdama_32609	CGWB	Dug Well	29.5283	74.7418	44	44.8	44	47.7	45.4	49.3	49	NA	48.7	NA	49.7	50	51.6	55	53	NA	64	65.73	55.8	Dry
34	Dhani Jattan_32625 (Kishanpura)	CGWB	Piezometer	29.3966	74.6183	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.82	3.97	4.4	3.97
35	Karamsana_32619	CGWB	Dug Well	29.3389	74.6314	9.3	7.58	8.49	8.73	8.51	8.37	8.3	8.28	NA	7.79	7.51	7.55	8.44	4.6	10	7.67	7.4	8.35	7.5	7.15
36	Kash Ram Dhab	CGWB	Dug Well	29.4222	74.6125	NA	7.1	9.27	8.59	6.91	10.7	12	9.85	11.2	4.02	NA	NA	7.05	9.7	7.6	10.8	10.1	8.92	10.6	10.31
37	Amritsar Khurd_265857	SGWD	Piezometer	29.5034	74.7054	33	35.3	34.7	42.8	38.2	41.6	41	NA	42.2	42.6	42.2	42.5	42.3	43	43	43.8	44	46	44.1	45.2
38	Beharwala_32604	SGWD	Dug Well	29.4537	74.5762	7.8	8.97	10.7	10.3	10.3	10.6	11	12	9.1	9.7	9.9	NA	10.1	10	11	11.7	11.6	11.8	12.1	13.3
39	Bhurantwala_32606	SGWD	Tube Well	29.4170	74.7795	8.9	9.35	8.8	8.74	9.3	10.2	9.8	12	9.36	9.36	12.3	12.4	13.1	13	14	14	13.1	14	4.6	5.1
40	Budimeri_32605	SGWD	Tube Well	29.4831	74.7147	38	39.6	39.6	38.6	38.6	40.9	39	40	40.9	41.3	41.4	41.2	42	42	43	42.3	42	42.3	42	43
41	Damdama_32609	SGWD	Dug Well	29.5658	74.6773	43	43.2	45.6	46.7	46.1	47.2	47	47.7	48.6	49.1	48.8	NA	48.9	49	49	49	48	49.2	48	53
42	Damdama_32609	SGWD	Piezometer	29.5242	74.7371	42	43	43.9	46.1	45.2	47.5	NA	50	48.5	48.7	49.5	49.5	50.3	51	52	51.5	52.3	51.4	53	53.5
43	Dhani Jattan_32625 (Kishanpura)	SGWD	Tube Well	29.4044	74.6247	12	13.7	13.7	15.2	15.2	17	16	NA	15.6	16	NA	16.1	15.9	16	15	14.9	14	14.9	14.1	14.3
44	Dhani Santa Singh_298065	SGWD	Tube Well	29.4554	74.8193	29	32	32.9	32.9	32.9	34.2	34	33	35.9	36.1	36	36	36	36	35	34.5	34.5	34.5	31.5	33.5

S.No.	Observation Point	Source	Well Type	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
45	Dhani Sheran_32612	SGWD	Piezometer	29.4952	74.6338	30	32	32	32.8	32.8	34.1	34	32.8	33.5	34.2	33.5	34.5	33.9	34	33	32.9	32.5	32.8	32.4	32.5
46	Dharampura_32613	SGWD	Piezometer	29.5139	74.6669	30	32	32	32.8	32.8	34.1	39	39.6	41.8	42	39.8	39.8	39.9	40	41	41.2	42	41.3	42	52
47	Dholpalia_32614	SGWD	Dug Well	29.4363	74.5714	8	8.3	8.15	7.95	8.5	8.8	8.5	10	9.5	9.97	9.6	NA	10	10	10	10.2	10.2	10.3	9	8.47
48	Himayukhera_32616	SGWD	Tube Well	29.4762	74.7678	32	34.1	34.1	35.4	35.4	37.1	36	35.4	37.9	38.6	38.1	38.5	38.4	39	39	39	38.9	39.2	30.3	33.1
49	Jagmalera (Santnagar)_32617	SGWD	Tube Well	29.5372	74.6791	41	43.5	43	44.8	45.3	46.1	NA	46.5	46.4	50.1	49.7	49.4	49.6	50	51	51	50.4	51	50.6	53
50	Karamsana_32619	SGWD	Dug Well	29.3445	74.6318	10	10.8	9.7	9.66	10.1	11	10	12	10.8	11.4	10.9	11	10.1	10	10	10	9.5	10.1	9.1	10.2
51	Kariwala_32620	SGWD	Tube Well	29.5635	74.6307	42	43.6	43.5	45.5	45.5	46.8	46	47.6	48.1	48.6	48.8	49	49	49	49	49	48.5	49	49.6	50.6
52	Kesupura_32622	SGWD	Tube Well	29.4469	74.8597	30	33.1	33.5	34.9	35.1	36.5	36	36	37.9	37.9	38.1	38.4	38.9	39	39	39	38.8	39.1	27.9	28.55
53	Khari Sureran_32623	SGWD	Tube Well	29.3985	74.6890	10	10.5	10.7	10.7	11.2	12.1	9.7	10.9	10.7	10.8	11	11	11	11	11	11	10.9	11.1	10.5	9.3
54	Kotli_32626	SGWD	Tube Well	29.4522	74.8410	30	33.5	33.5	34.9	34.9	36.6	36	35.9	38	38.9	38.1	38.7	38.5	39	39	39	38.9	39	29.4	36.1
55	Mamera Khurd_32631	SGWD	Tube Well	29.4621	74.7078	38	38	38	38.9	38.9	39.7	39	39	38.4	38.9	38.7	39	38.9	39	38	37.6	37.2	37.6	37.5	32.3
56	Mehna Khera_32632	SGWD	Piezometer	29.4171	74.8090	10	18.3	18.3	19.4	19.4	20.1	20	20	22.1	22.8	22.3	NA	23	23	23	24	23.4	24	11.7	14.52
57	Mirja Pur_32633	SGWD	Tube Well	29.5158	74.6839	29	30.5	30.5	31.8	31.8	32.3	42	42.1	43.6	44.6	42.2	43.1	42.8	43	44	45	44.9	45.1	46.7	48.2
58	Mithisurera_32635	SGWD	Tube Well	29.4107	74.7044	12	12.2	12.2	13.2	13.2	14.1	14	13.5	13.5	13.8	13.7	13.9	13.9	14	14	14.5	14.2	14.6	10.6	13.4
59	Mojukhera_32636	SGWD	Tube Well	29.4694	74.7401	29	31.3	31.1	32.5	33.1	34.7	33	33.4	35.5	36.2	NA	37.3	35.7	37	35	35.5	34.9	35.3	34.4	39.7
60	Neemla_32639	SGWD	Dug Well	29.4156	74.5964	14	8.75	8.9	10	9.5	10.4	12	13.1	11.9	12.3	12.6	12.7	12.8	13	13	14	13.9	14	14	14.9
61	Patti Kirpal_32624	SGWD	Tube Well	29.4852	74.7476	30	33.5	35.1	35.9	35.9	36.8	37	36.5	38.5	39	39	39.4	39.6	40	39	38.6	38.2	38.5	38.1	40.1
62	Poharkan_32641	SGWD	Tube Well	29.4187	74.7415	20	21.3	21.3	22.5	22.5	23.4	23	13	25.8	26.1	25.9	26.6	26.1	26	26	25	25.3	25.1	7.6	7.2
63	Shekhukhera_32643	SGWD	Tube Well	29.4768	74.7570	32	33.5	33.5	34.9	34.9	36.5	35	35.9	39.4	39.6	39.7	39.2	39.9	40	39	38.8	38.8	38.8	32.8	35.6
64	Umedpura_32646	SGWD	Piezometer	29.4218	74.8348	18	18.3	18.3	19.4	19.4	20.4	20	20	21.5	22.2	21.6	23	21.9	22	21	21.5	20	21.4	13.9	15.54
65	Ellanabad	SGWD	Piezometer	29.4486	74.6578	22	23.4	23.5	23.8	25.1	26	25	27	24.9	25.8	25.3	25.6	25.4	26	26	26	25.6	26	25.5	25.8
66	Kashiramka Bass	SGWD	Dug Well	29.4307	74.6107	11	11	10.8	10.8	11.3	12.1	11	12.9	9.78	10.3	9.74	9.84	9.6	9.7	9.2	9.6	9.7	9.6	10	9.9

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

State	Haryana	District	Sirsa	Block	Ellenabad
Month of Collection of sample 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
Amritsar Khurd_265857	Atal Jal	Tubewell	29.4897	74.7091	2024	7.3	1049	664	275.8	67.97	25.76	116	6	0.431	229.6	124.9	205.6	0.61	18.75
Beharwala_32604	Atal Jal	Pizeometer	29.4527	74.5744	2024	7.77	10047	6307	2758	879.4	136.6	828	99	14.06	2526	1255	1408	5	297
Bhurantwala_32606	CGWB	Tube Well	29.425	74.7708	2015	Sample not collected from this location													
Bhurantwala_32606	CGWB	Tube Well	29.425	74.7708	2016	8.62	550	ND	177.0	25.0	28.0	75.0	6.2	18.0	159.0	100.0	49.0	BDL	16.00
Bhurantwala_32606	CGWB	Tube Well	29.425	74.7708	2017	9.43	3390	ND	180.0	24.0	29.0	709.0	9.0	126.0	218.0	944.0	241.0	6.14	2.12
Bhurantwala_32606	CGWB	Tube Well	29.425	74.7708	2018	8.41	5990	ND	390.0	40.0	71.0	1210.0	66.0	60.0	305.0	1621.0	681.0	3.20	2.25
Bhurantwala_32606	CGWB	Tube Well	29.425	74.7708	2019	8.59	6017	ND	588.0	42.0	117.0	1140.0	14.0	88.0	400.0	1392.0	737.0	1.01	120.00
Bhurantwala_32606	CGWB	Tube Well	29.425	74.7708	2020	9.02	686	ND	61.2	16.4	5.0	144.0	1.6	48.0	109.8	125.0	42.5	4.70	0.58
Bhurantwala_32606	CGWB	Tube Well	29.425	74.7708	2021	8.71	933	ND	87.7	21.9	8.0	182.0	2.5	55.0	251.5	85.0	53.3	0.25	13.00
Bhurantwala_32606	CGWB	Tube Well	29.425	74.7708	2022	8.22	420	ND	170.0	36.0	19.5	23.0	3.2	0.0	97.6	100.8	21.3	0.33	0.50
Bhurantwala_32606	CGWB	Tube Well	29.425	74.7708	2023	8.4	1298	ND	250.0	44.0	34.0	180.0	8.0	48.0	232.0	134.0	149.0	0.04	24.00
Bhurantwala_32606	CGWB	Tube Well	29.425	74.7708	2024	8.39	1098	0	150.1	12.02	29.18	158	7	60	183.1	124.9	70.9	0.28	6.7
Bhurantwala_32606	Atal Jal	Pizeometer	29.4156	74.7857	2024	7.84	1026	644	286.4	89.21	15.46	85	10	1.691	258.3	116.3	143.9	0.55	31.75
Budimeri_32605	Atal Jal	Pizeometer	29.4863	74.7159	2024	8.66	1099	710	307.7	97.71	15.46	93	11	12.46	277.8	135.3	154.2	0.62	34.75
Chilkani Dhab_32607	Atal Jal	Pizeometer	29.3922	74.8073	2024	7.64	16692	9256	4042	1291	198.4	1216	145	15.31	3715	1966	2066	7.55	430
Damdama_32609	Atal Jal	Pizeometer	29.5731	74.6741	2024	8.06	3374	1909	838.1	267.6	41.23	251	30	8.31	761.7	428.6	421.5	1.65	89
Dhani Jattan_32625 (Kishanpura)	Atal Jal	Pizeometer	29.419	74.6502	2024	7.65	16068	9612	4201	1342	206.1	1262	150	16.29	3864	1887	2149	7.85	446
Dhani Santa Singh_298065	Atal Jal	Pizeometer	29.4589	74.819	2024	8.36	656	401	180.3	55.23	10.3	53	6	3.445	156.5	74.33	92.52	0.35	20.75
Dhani Sheran_32612	Atal Jal	Tubewell	29.5068	74.6369	2024	7.83	7211	4105	1697	429.1	152	720	38	8.961	1401	817	1285	2.7	103
Dharampura_32613	Atal Jal	Tubewell	29.558	74.6699	2024	7.65	1346	859	350.1	89.21	30.92	151	8	1.218	288.8	153.8	267.3	0.79	23.5
Dholpalia_32614	Atal Jal	Pizeometer	29.4353	74.5708	2024	8.09	18608	10490	4583	1466	224.2	1378	164	48.92	4182	2239	2344	8.6	486
Himayukhera_32616	Atal Jal	Pizeometer	29.4768	74.7674	2024	8.52	730	431	191	59.48	10.3	57	7	5.291	164.7	89.33	92.52	0.37	22
Jagmalera (Santnagar)_32617	CGWB	Dug Well	29.5375	74.7417	2015	Sample not collected from this location													
Jagmalera (Santnagar)_32617	CGWB	Dug Well	29.5375	74.7417	2016	8.58	1583	ND	427.0	25.0	88.0	228.0	14.0	72.0	622.0	130.0	119.0	0.08	6.80
Jagmalera (Santnagar)_32617	CGWB	Dug Well	29.5375	74.7417	2017	8.19	1200	ND	210.0	28.0	34.0	191.0	10.0	0.0	589.0	30.0	78.0	0.85	5.76
Jagmalera (Santnagar)_32617	CGWB	Dug Well	29.5375	74.7417	2018	8.72	1216	ND	180.0	12.0	36.0	181.0	60.0	24.0	134.0	331.0	85.0	0.75	20.00
Jagmalera (Santnagar)_32617	CGWB	Dug Well	29.5375	74.7417	2019	Sample not collected from this location													
Jagmalera (Santnagar)_32617	CGWB	Dug Well	29.5375	74.7417	2020	9.01	1206	ND	204.2	12.3	42.2	208.0	8.0	108.0	292.9	105.0	85.1	0.01	0.68
Jagmalera (Santnagar)_32617	CGWB	Dug Well	29.5375	74.7417	2021	8.79	1300	ND	219.2	8.8	47.9	210.0	6.0	82.4	461.1	ND	93.3	0.57	10.00
Jagmalera (Santnagar)_32617	CGWB	Dug Well	29.5375	74.7417	2022	8.79	1080	ND	290.0	16.0	60.8	130.0	11.0	48.0	219.6	139.2	106.5	1.10	21.00
Jagmalera (Santnagar)_32617	CGWB	Dug Well	29.5375	74.7417	2023	8.21	1064	ND	250.0	28.0	44.0	125.0	9.0	0.0	390.0	48.0	99.0	0.16	10.00
Jagmalera (Santnagar)_32617	CGWB	Dug Well	29.5375	74.7417	2024	8.22	1098	0	320.3	28.06	60.8	140	8.21	Nil	476	72	106.4	1	18
Kanshiram bash	CGWB	Hand Pump	29.4222	74.6125	2015	Sample not collected from this location													
Kanshiram bash	CGWB	Hand Pump	29.4222	74.6125	2016	8.43	564	ND	177.0	46.0	15.0	93.0	6.6	12.0	110.0	202.0	42.0	ND	4.90
Kanshiram bash	CGWB	Hand Pump	29.4222	74.6125	2017	8.16	1285	ND	250.0	40.0	36.0	203.0	9.0	0.0	308.0	305.0	85.0	2.32	4.39
Kanshiram bash	CGWB	Hand Pump	29.4222	74.6125	2018	8.4	1638	ND	70.0	24.0	5.0	329.0	48.0	24.0	159.0	402.0	177.0	1.75	8.72
Kanshiram bash	CGWB	Hand Pump	29.4222	74.6125	2019	8.55	1647	ND	63.0	17.0	5.1	375.0	5.0	44.0	223.0	362.0	156.0	1.41	6.50
Kanshiram bash	CGWB	Hand Pump	29.4222	74.6125	2020	8.56	2540	ND	183.7	32.7	24.8	504.0	7.0	36.0	158.7	774.0	177.3	2.25	8.00
Kanshiram bash	CGWB	Hand Pump	29.4222	74.6125	2021	8.75	2310	ND	197.3	35.1	26.6	470.0	0.9	41.2	195.6	746.0	173.0	2.51	9.30
Kanshiram bash	CGWB	Hand Pump	29.4222	74.6125	2022	8.83	760	ND	230.0	32.0	36.5	80.0	9.4	36.0	73.2	163.2	78.1	0.54	3.20
Kanshiram bash	CGWB	Hand Pump	29.4222	74.6125	2023	8	413	ND	120.0	12.0	22.0	38.0	4.0	0.0	134.0	52.0	21.0	0.42	10.00
Kanshiram bash	CGWB	Hand Pump	29.4222	74.6125	2024	7.66	8470	0	1021	72.14	204.3	1243	22	Nil	280.7	1620	1219	0.88	61

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
Karamsana_32619	CGWB	Tube Well	29.3403	74.63	2015	Sample not collected from this location													
Karamsana_32619	CGWB	Tube Well	29.3403	74.63	2016	8.3	8663	ND	2475.0	362.0	382.0	1720.0	30.0	0.0	305.0	2732.0	2204.0	4.18	28.00
Karamsana_32619	CGWB	Tube Well	29.3403	74.63	2017	8.43	870	ND	120.0	32.0	272.0	153.0	16.0	25.0	141.0	254.0	21.0	0.42	5.81
Karamsana_32619	CGWB	Tube Well	29.3403	74.63	2018	8.02	5900	ND	1001.0	188.0	129.0	961.0	17.0	0.0	220.0	1515.0	858.0	3.75	23.00
Karamsana_32619	CGWB	Tube Well	29.3403	74.63	2019	8.01	2177	ND	1019.0	217.0	116.0	44.0	34.0	0.0	89.0	730.0	156.0	0.71	76.00
Karamsana_32619	CGWB	Tube Well	29.3403	74.63	2020	8.2	3870	ND	745.2	118.6	109.1	552.0	11.0	0.0	158.7	1355.0	212.7	3.91	119.00
Karamsana_32619	CGWB	Tube Well	29.3403	74.63	2021	8.41	3898	ND	87.7	21.9	8.0	182.0	2.5	41.2	111.8	1084.0	466.5	3.12	111.00
Karamsana_32619	CGWB	Tube Well	29.3403	74.63	2022	8.24	400	ND	180.0	40.0	19.5	14.0	3.4	0.0	109.8	72.0	28.4	0.34	1.50
Karamsana_32619	CGWB	Tube Well	29.3403	74.63	2023	8.04	1069	ND	210.0	44.0	24.0	128.0	46.0	0.0	195.0	86.0	170.0	0.42	48.00
Karamsana_32619	CGWB	Tube Well	29.3403	74.63	2024	7.69	3925	0	670.5	80.16	114.3	490	16	Nil	195.3	920	404.1	2.4	26
Karamsana_32619	Atal Jal	Pizeometer	29.3447	74.6312	2024	7.37	25887	15641	6832	2184	335	2054	245	13.9	6296	2963	3495	13.1	720
Kariwala_32620	Atal Jal	Pizeometer	29.5636	74.6298	2024	7.85	1661	1042	456.2	144.4	23.19	137	16	2.795	417.2	207.6	236.5	0.9	49.75
Kesupura_32622	Atal Jal	Pizeometer	29.4502	74.857	2024	8.15	867	485	212.2	67.97	10.31	64	8	2.656	197.3	104.2	113.1	0.42	24.5
Khari Sureran_32623	Atal Jal	Pizeometer	29.4049	74.6857	2024	8.18	10057	5904	2578	824.2	126.3	775	92	33.86	2347	1268	1316	4.65	278
Kotli_32626	Atal Jal	Tubewell	29.4505	74.8376	2024	6.47	5440	3302	1358	344.1	121.1	579	31	0.313	1130	578.8	1028	2	83.5
Kumthal_32627	Atal Jal	Pizeometer	29.4368	74.7897	2024	7.88	3310	2150	944.2	301.6	46.38	282	34	6.204	863.8	415.6	483.2	1.74	100
Mallekan_32629	Atal Jal	Tubewell	29.4327	74.8932	2024	8.06	1972	1169	477.4	123.2	41.22	205	11	4.317	395.7	226.2	370.1	1.07	31.25
Mamera Khurd_32631	Atal Jal	Pizeometer	29.4507	74.7141	2024	7.98	2738	1562	678.9	216.7	33.5	205	24	5.655	624.3	357.6	349.5	1.35	73.5
Mehna Khera_32632	Atal Jal	Pizeometer	29.4207	74.818	2024	7.8	3770	2271	997.2	318.6	48.96	298	36	5.457	914.5	476	503.7	1.84	105.5
Mirja Pur_32633	Atal Jal	Tubewell	29.5131	74.6904	2024	8.48	1078	663	275.8	67.97	25.76	116	6	6.529	223.5	128.8	205.6	0.6	18.75
Mithanpura_32634	Atal Jal	Pizeometer	29.4107	74.6496	2024	7.76	14829	8204	3586	1147	175.2	1078	128	17.9	3292	1866	1830	6.65	382
Mithisurera_32635	Atal Jal	Pizeometer	29.4115	74.6983	2024	7.41	15590	9727	4243	1359	206.1	1278	152	9.471	3911	1826	2169	7.95	452
Mojukhera_32636	Atal Jal	Pizeometer	29.4746	74.7417	2024	8.17	565	330	148.5	46.73	7.73	43	5	1.807	128.1	63.93	71.96	0.29	17.5
Musli_32638	Atal Jal	Pizeometer	29.4543	74.7568	2024	8.45	2858	1588	689.6	220.9	33.5	209	25	16.96	623.3	352.4	359.8	1.37	74.5
Neemla_32639	Atal Jal	Pizeometer	29.4169	74.5929	2024	8.18	15319	9343	4084	1304	201	1227	146	53.64	3717	1831	2087	7.6	434
Patti Kirpal_32624	Atal Jal	Pizeometer	29.479	74.7441	2024	8.5	786	503	222.8	72.22	10.31	66	8	5.945	194.1	91.83	113.1	0.44	25.25
Poharkan_32641	Atal Jal	Pizeometer	29.4268	74.7402	2024	8.49	5022	2917	1273	407.8	61.84	383	46	34.28	1147	602.4	647.7	2.4	134.8
Ratta Khera_32642	Atal Jal	Pizeometer	29.4668	74.7925	2024	7.97	1066	591	254.6	80.72	12.88	78	9	2.105	237.9	126.8	133.7	0.51	29.25
Shekhukhera_32643	Atal Jal	Pizeometer	29.4788	74.757	2024	8.1	883	545	233.4	76.47	10.31	72	9	2.603	217.4	108.8	123.4	0.47	27.25
Umedpura_32646	Atal Jal	Pizeometer	29.4263	74.8331	2024	8.59	3636	2223	976	310.1	48.96	292	35	32.91	868.1	441.8	493.5	1.8	103.3

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
Sirsa_74	Ellenabad_548	SGWB	Amritsar Kalan	29.5034	74.7054	1700	1900	1900	2000	1600
Sirsa_74	Ellenabad_548	Atal Jal	Amritsar Khurd_265857	29.4897	74.7091	ND	ND	ND	ND	1049
Sirsa_74	Ellenabad_548	SGWB	Beharwala	29.4537	74.5762	5100	5200	4800	5000	4800
Sirsa_74	Ellenabad_548	Atal Jal	Beharwala_32604	29.4527	74.5744	ND	ND	ND	ND	10047
Sirsa_74	Ellenabad_548	SGWB	Bhruntwala	29.417	74.7795	5800	5800	3800	3500	4100
Sirsa_74	Ellenabad_548	Atal Jal	Bhurantwala_32606	29.4156	74.7857	ND	ND	ND	ND	1026
Sirsa_74	Ellenabad_548	SGWB	Budhimari	29.4831	74.7147	1900	1900	1500	1500	1500
Sirsa_74	Ellenabad_548	Atal Jal	Budimeri_32605	29.4863	74.7159	ND	ND	ND	ND	1099
Sirsa_74	Ellenabad_548	Atal Jal	Chilkani Dhab_32607	29.3922	74.8073	ND	ND	ND	ND	16692
Sirsa_74	Ellenabad_548	SGWB	ChilkaniDhab	29.3914	74.8031	2300	2300	2500	2500	2200
Sirsa_74	Ellenabad_548	SGWB	Damdama	29.5659	74.6773	2150	2400	2100	2900	2500
Sirsa_74	Ellenabad_548	Atal Jal	Damdama_32609	29.5731	74.6741	ND	ND	ND	ND	3374
Sirsa_74	Ellenabad_548	Atal Jal	Dhani Jattan_32625 (Kishanpura)	29.419	74.6502	ND	ND	ND	ND	16068
Sirsa_74	Ellenabad_548	Atal Jal	Dhani Santa Singh_298065	29.4589	74.819	ND	ND	ND	ND	656
Sirsa_74	Ellenabad_548	Atal Jal	Dhani Sheran_32612	29.5068	74.6369	ND	ND	ND	ND	7211

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
Sirsa_74	Ellenabad_548	Atal Jal	Dharampura_32613	29.558	74.6699	ND	ND	ND	ND	1346
Sirsa_74	Ellenabad_548	SGWB	Dholpalia	29.4363	74.5714	5800	6000	6300	5500	6200
Sirsa_74	Ellenabad_548	Atal Jal	Dholpalia_32614	29.4353	74.5708	ND	ND	ND	ND	18608
Sirsa_74	Ellenabad_548	SGWB	Ellanabad	29.4486	74.6578	2700	3000	3000	2000	1900
Sirsa_74	Ellenabad_548	Atal Jal	Himayukhera_32616	29.4768	74.7674	ND	ND	ND	ND	730
Sirsa_74	Ellenabad_548	SGWB	HumayuKhera	29.4652	74.7511	1800	2000	2100	2000	1700
Sirsa_74	Ellenabad_548	SGWB	JagjitNager	29.5608	74.6964	2500	2600	2500	3000	2800
Sirsa_74	Ellenabad_548	SGWB	Jagmalera	29.5465	74.7226	2500	2600	2600	2900	2500
Sirsa_74	Ellenabad_548	SGWB	Jiwan Nagar	29.5242	74.7371	2200	2200	2100	1900	2000
Sirsa_74	Ellenabad_548	Atal Jal	Karamsana_32619	29.3447	74.6312	ND	ND	ND	ND	25887
Sirsa_74	Ellenabad_548	SGWB	Karamshana	29.3445	74.6318	7200	7000	5000	2900	2500
Sirsa_74	Ellenabad_548	SGWB	Kariwala	29.5635	74.6307	2300	2500	2200	2600	2100
Sirsa_74	Ellenabad_548	Atal Jal	Kariwala_32620	29.5636	74.6298	ND	ND	ND	ND	1661
Sirsa_74	Ellenabad_548	SGWB	Kashiramka Bass	29.4307	74.6107	2400	2400	2500	2600	2700
Sirsa_74	Ellenabad_548	SGWB	Kesupura	29.4469	74.8597	2500	2800	2800	2000	2200
Sirsa_74	Ellenabad_548	Atal Jal	Kesupura_32622	29.4502	74.857	ND	ND	ND	ND	867
Sirsa_74	Ellenabad_548	Atal Jal	Khari Sureran_32623	29.4049	74.6857	ND	ND	ND	ND	10057
Sirsa_74	Ellenabad_548	SGWB	KhariSureran	29.3985	74.689	2600	2800	4500	3100	3500
Sirsa_74	Ellenabad_548	SGWB	Kotli	29.4522	74.841	2900	3000	3000	2100	2700
Sirsa_74	Ellenabad_548	Atal Jal	Kotli_32626	29.4505	74.8376	ND	ND	ND	ND	5440
Sirsa_74	Ellenabad_548	Atal Jal	Kumthal_32627	29.4368	74.7897	ND	ND	ND	ND	3310
Sirsa_74	Ellenabad_548	SGWB	Kuta Bad	29.4554	74.8193	2200	2200	2500	3000	2500
Sirsa_74	Ellenabad_548	Atal Jal	Mallekan_32629	29.4327	74.8932	ND	ND	ND	ND	1972
Sirsa_74	Ellenabad_548	Atal Jal	Mamera Khurd_32631	29.4507	74.7141	ND	ND	ND	ND	2738
Sirsa_74	Ellenabad_548	SGWB	MamerKalan	29.4621	74.7078	6700	6800	1700	3800	2800
Sirsa_74	Ellenabad_548	SGWB	MehanaKhera	29.4171	74.809	4600	4600	6300	4600	4100
Sirsa_74	Ellenabad_548	Atal Jal	Mehna Khera_32632	29.4207	74.818	ND	ND	ND	ND	3770
Sirsa_74	Ellenabad_548	Atal Jal	Mirja Pur_32633	29.5131	74.6904	ND	ND	ND	ND	1078
Sirsa_74	Ellenabad_548	SGWB	MirjaPur	29.5158	74.6839	2200	2200	1800	2000	1500
Sirsa_74	Ellenabad_548	Atal Jal	Mithanpura_32634	29.4107	74.6496	ND	ND	ND	ND	14829
Sirsa_74	Ellenabad_548	SGWB	MithiSurean	29.4107	74.7044	2800	2800	2500	4000	3500
Sirsa_74	Ellenabad_548	Atal Jal	Mithisurera_32635	29.4115	74.6983	ND	ND	ND	ND	15590
Sirsa_74	Ellenabad_548	SGWB	MojuKhera	29.4694	74.7401	3400	2800	1500	2500	2000
Sirsa_74	Ellenabad_548	Atal Jal	Mojukhera_32636	29.4746	74.7417	ND	ND	ND	ND	565
Sirsa_74	Ellenabad_548	Atal Jal	Musli_32638	29.4543	74.7568	ND	ND	ND	ND	2858
Sirsa_74	Ellenabad_548	Atal Jal	Neemla_32639	29.4169	74.5929	ND	ND	ND	ND	15319
Sirsa_74	Ellenabad_548	SGWB	Nimla	29.4156	74.5964	6600	6600	6000	7000	6400
Sirsa_74	Ellenabad_548	SGWB	Patti Kirpal	29.4852	74.7476	2100	2200	2000	1750	2200
Sirsa_74	Ellenabad_548	Atal Jal	Patti Kirpal_32624	29.479	74.7441	ND	ND	ND	ND	786
Sirsa_74	Ellenabad_548	Atal Jal	Poharkan_32641	29.4268	74.7402	ND	ND	ND	ND	5022
Sirsa_74	Ellenabad_548	SGWB	Pohrka	29.4187	74.7415	2700	2800	2100	1950	1800
Sirsa_74	Ellenabad_548	Atal Jal	Ratta Khera_32642	29.4668	74.7925	ND	ND	ND	ND	1066
Sirsa_74	Ellenabad_548	SGWB	SekuKhera	29.4768	74.757	1800	1900	2000	1500	1100
Sirsa_74	Ellenabad_548	Atal Jal	Shekhukhera_32643	29.4788	74.757	ND	ND	ND	ND	883
Sirsa_74	Ellenabad_548	SGWB	SheranWali	29.4044	74.6247	4900	5000	6800	6700	6500
Sirsa_74	Ellenabad_548	SGWB	TalwaraKhurd	29.4952	74.6338	2200	2200	1900	1900	1800
Sirsa_74	Ellenabad_548	SGWB	Thobrian	29.514	74.6669	2600	2700	2600	1900	2000

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
Sirsa_74	Ellenabad_548	SGWB	UmedPura	29.4218	74.8348	4500	4500	4600	3900	4100
Sirsa_74	Ellenabad_548	Atal Jal	Umedpura_32646	29.4263	74.8331	ND	ND	ND	ND	3636

