

# ATAL BHUJAL YOJANA (AtalJal)

**State : HARYANA**

**Department : IRRIGATION & WATER  
RESOURCE DEPARTMENT**

**BLOCK : Kanina**

**DISTRICT : Mahendragarh**

**YEAR : 2023-2024**

---

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

---

# HYDROGEOLOGICAL REPORT

## (YEAR: 2023-24)

STATE	:	Haryana
DISTRICT	:	Mahendragarh
BLOCK	:	Kanina
BLOCK HQ	:	Kanina

### A- GENERAL INFORMATION

1. Geographical Area (Ha)	:	35239.66		
2. No. of Gram Panchayat	:	52		
3. No. of Towns	:	1		
4. No. of Villages	:	53		
5. Population (Census 2011)	:	Male	Female	Total
	:	76062	66140	142685
6. Rainfall (mm) (2021)	:	Monsoon	Non-Monsoon	Annual
	:	522.51	161.62	684.13
River Basin	:	Yamuna river basin		
Major Soil Type	:	Sandy Soil		

### B- LAND USE

1. Forest Area (Ha)	:	97
2. Cultivable Area (Ha)	:	28488
3. Net sown Area (Ha)	:	26658
4. Gross Cropping Area (Ha)	:	54462

### C- CROPPING PATTERN (As in 2022-23)

1. Major Crops grown		<b>Kharif</b>	<b>Rabi</b>	<b>Summer</b>	<b>Perennial</b>
		Bajra	Wheat	Pulses	NA
		Gawar	Mustard	Tomato	
		Cotton	Oilseeds	Vegetable	

### D- IRRIGATION FACILITIES (As in 2022-23)

1. Net Irrigation Area (Ha)	24357				
2. Gross Irrigated Area (Ha)	37513				
3. Area under irrigation (Ha) source wise	DW	BW/T W	TANK/PON DS	CANAL	OTHERS
	0	32336	0	5207	0

### E-GEOLOGY & HYDROGEOLOGY

Predominant Rock type	Both hard & soft rocks
Major Geological Formation	Aravali formation.
Important water bearing formation	Coarse grain sand
Status of coverage under NAQUIM	Covered

F-GROUND WATER RELATED CONDITION						
1.No. of wells used for water level (WL) monitoring	Open Well			BW/TW/PZ		
	CGWB	SGWB	Total	CGWB	SGWB	Total
	0	4	4	0	41	41
2.Monitoring Mechanism (Nos.)	Manual		DWLR		TELEMETRY	
	CGWB	SGWB	CGWB	SGWB	CGWB	SGWB
	0	11	0	35	0	35
3.Monitoring Frequency	Agency	No. of times monitored/year				
	CGWB	02 times/year				
	SGWB	02 times/year				
4. Period of Water Level data availability	Agency	Period of WL data availability (From -To				
		From (Year)			To (Year)	
	CGWB	NA			NA	
	SGWB	2015			2023	
5. Water Level Range (m.bgl)	Minimum/Village			Maximum/Village		
Pre-Monsoon (2023)	7.25/Syana			89.8/Sigra		
Post-Monsoon (2023)	7.16/Syana			89.7/Sigra		
6.Seasonal WL fluctuation range (m)	Minimum/Village			Maximum/Village		
	-3.05/Khairana			3.94/Jhigawan		
G-GROUND WATER QUALITY						
1. No. of wells used for water quality (WQ) monitoring	Open Well			BW/TW/PZ		
	CGWB	SGWB	Total	CGWB	SGWB	Total
	0	4	04	2	31	33
2. Monitoring frequency	Agency	No of items monitored/year				
	CGWB	01 times/year				
	SGWB	01 times/year				
3. Period of water quality data availability	Agency	Period of WQ data availability (Years)				
	CGWB	2015-2023				
	SGWB	2020-2023				
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> ,TDS				
5. Known ground water quality issues, if any	Low to medium salinity					

H- GROUND WATER RESOURCES						
1. Latest Assessment Year	2022					
2.Assessment Unit	Block					
3.Annual Extractable GW Resource (ham)	5370.63					
4. Current Annual GW Resource (ham)	10556.5					
5.Net GW Availability for future use (ham)	0					
6. Stage of Extraction (%)	196.56%					
7.Category of block 2022	Over Exploited					
8.Category of block/taluk/in previous assessments	2020	2017	2013	2011	2009	2004
	Over Expl oited	Over Expl oited	Over Expl oited	Over Expl oited	Over Exploi ted	Over Exploi ted

I-WATER-RELATED SCHEMES
-------------------------

I. Schemes with a bearing on ground water, bearing implemented in the block/taluk		
Centrally Sponsored/Central Sector Scheme	i)	PMKSY
	ii)	MGNREGA
	iii)	RKVY
	iv)	NAQUIM
	v)	JJM
	vi)	NHP
State Scheme	i)	State Plan Scheme for providing assistance on adopting water saving technologies (2402)
	ii)	MPMV
	iii)	
	iv)	

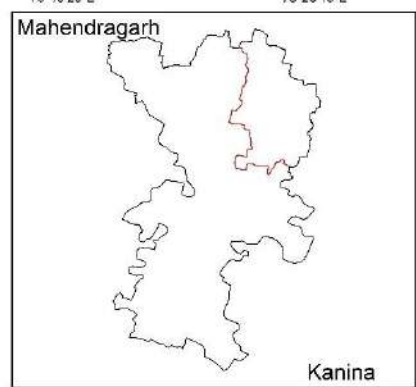
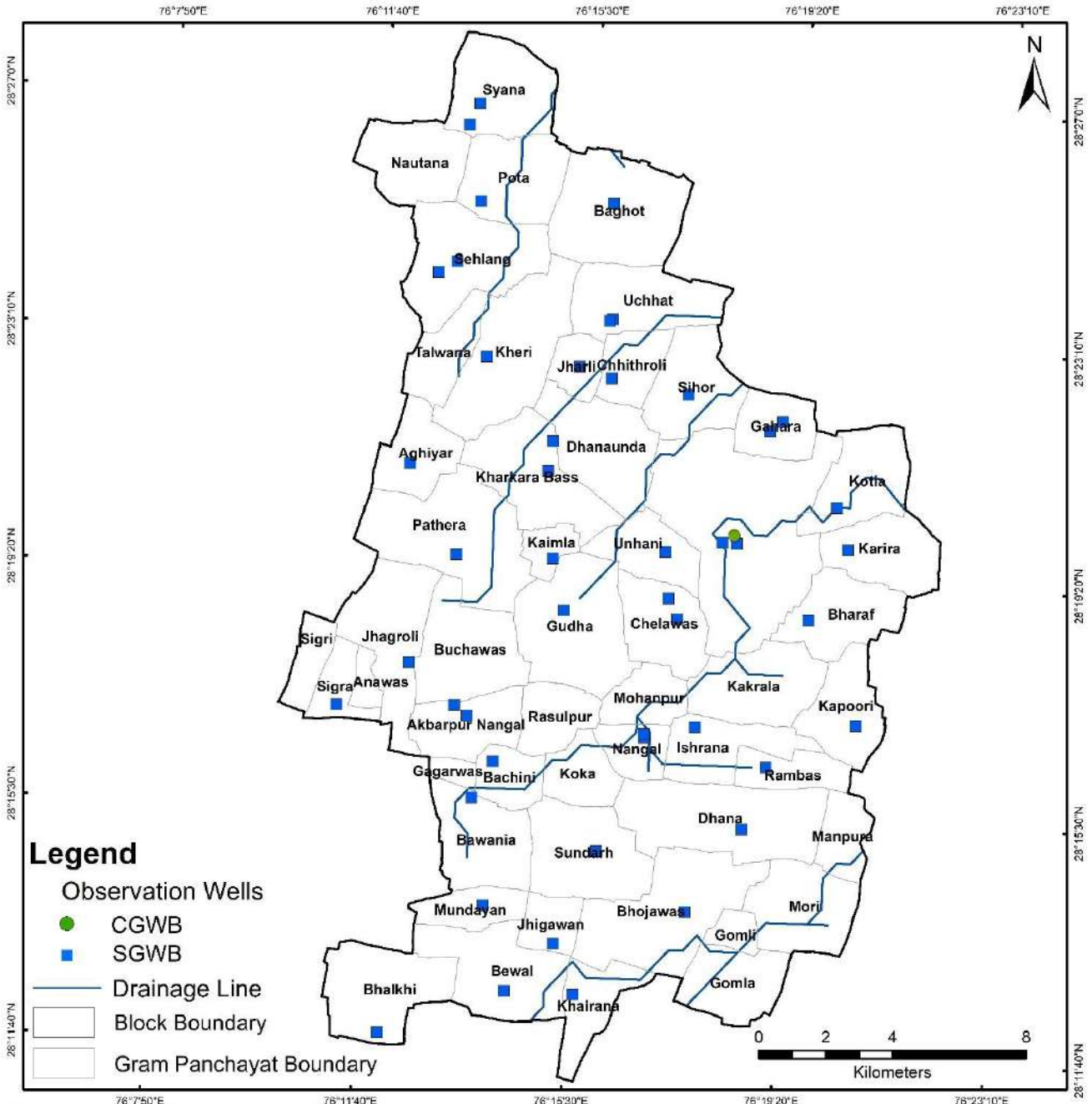
### J- GROUND WATER RELATED ISSUES

#### I. GROUND WATER RELATED ISSUES OF THE BLOCK

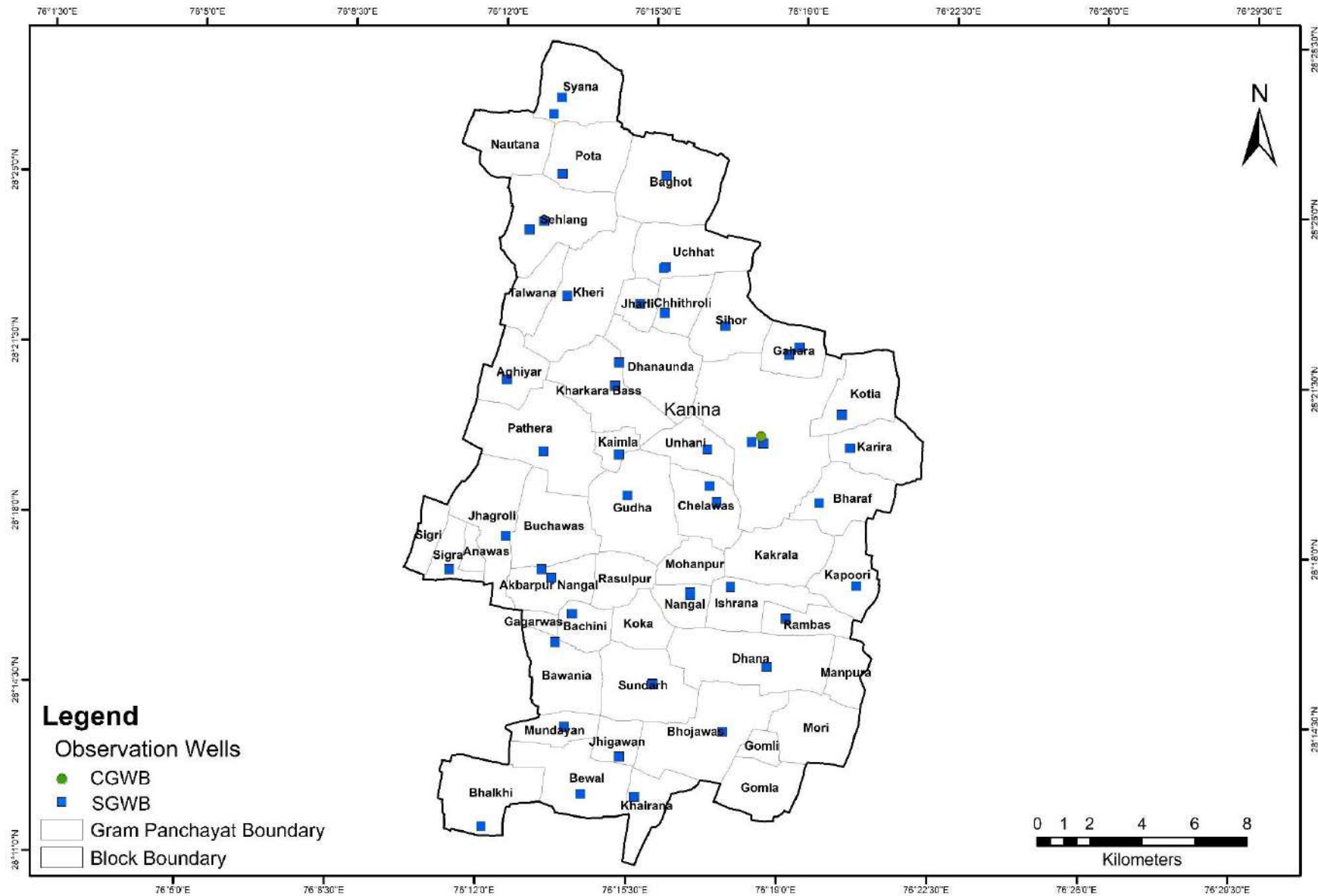
i) Issues related to GW Availability		Ground water depletion issues due to over extraction of groundwater for agriculture and other uses
ii) Issues related to GW quality		Groundwater contamination issues in the vicinity of Siyana village
iii) Other issues if any		-

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- Kanina, District- Mahendragarh, Haryana

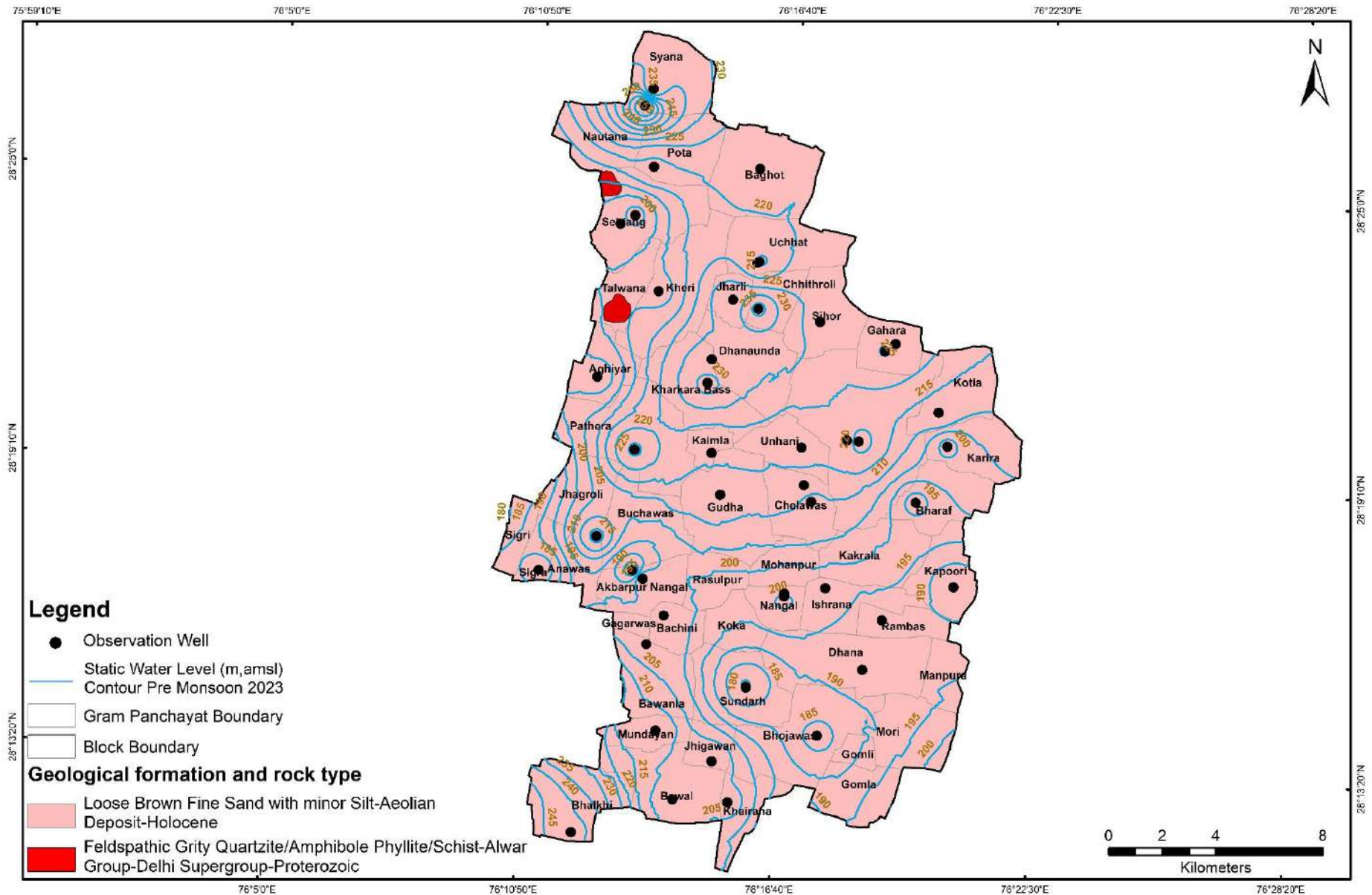


# Location of Observation Wells for Monitoring Water Levels and Water Quality, Block-Kanina, District- Mahendragarh, Haryana

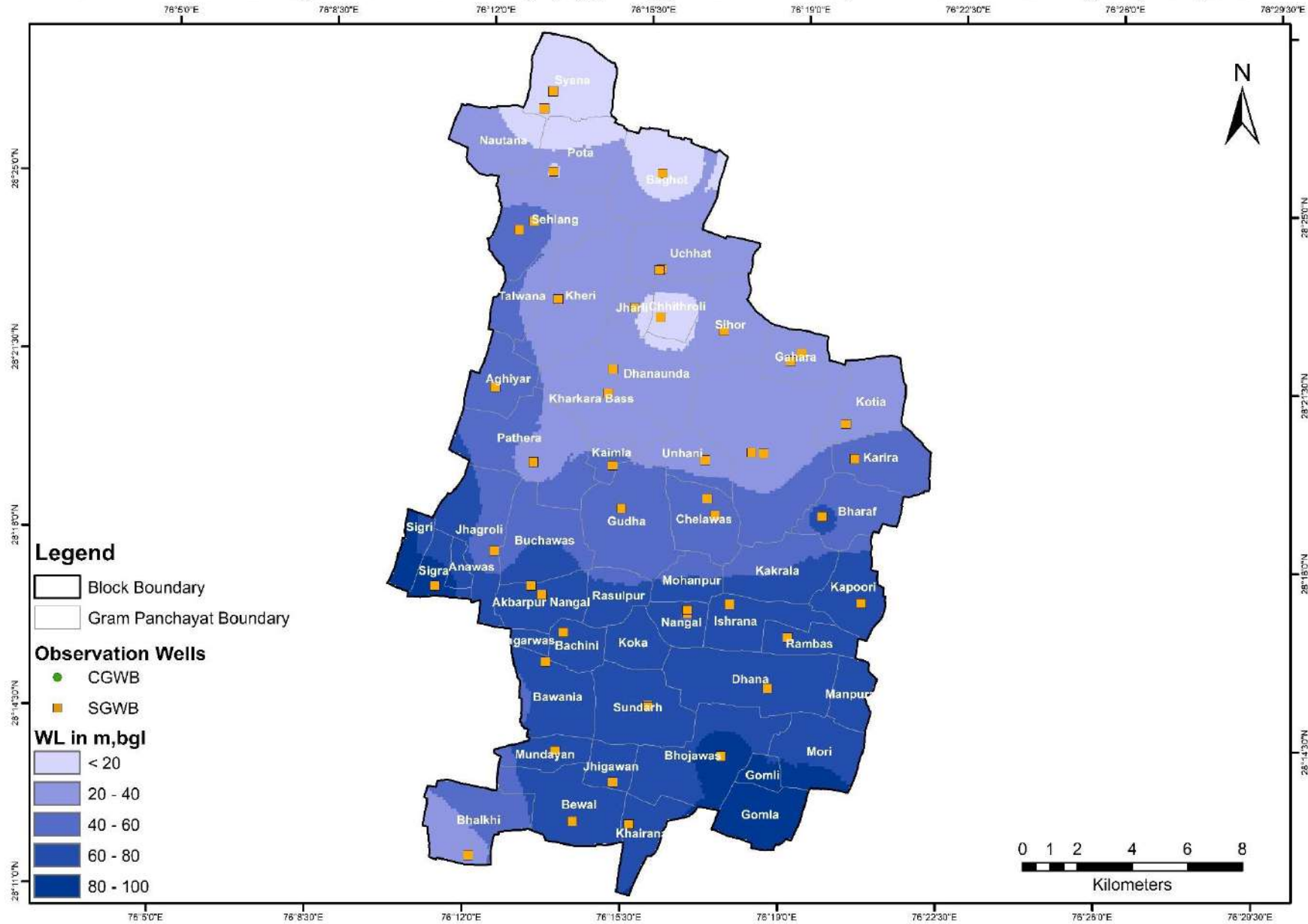




# Hydrogeological Map, Block- Kanina, District- Mahendragarh, Haryana

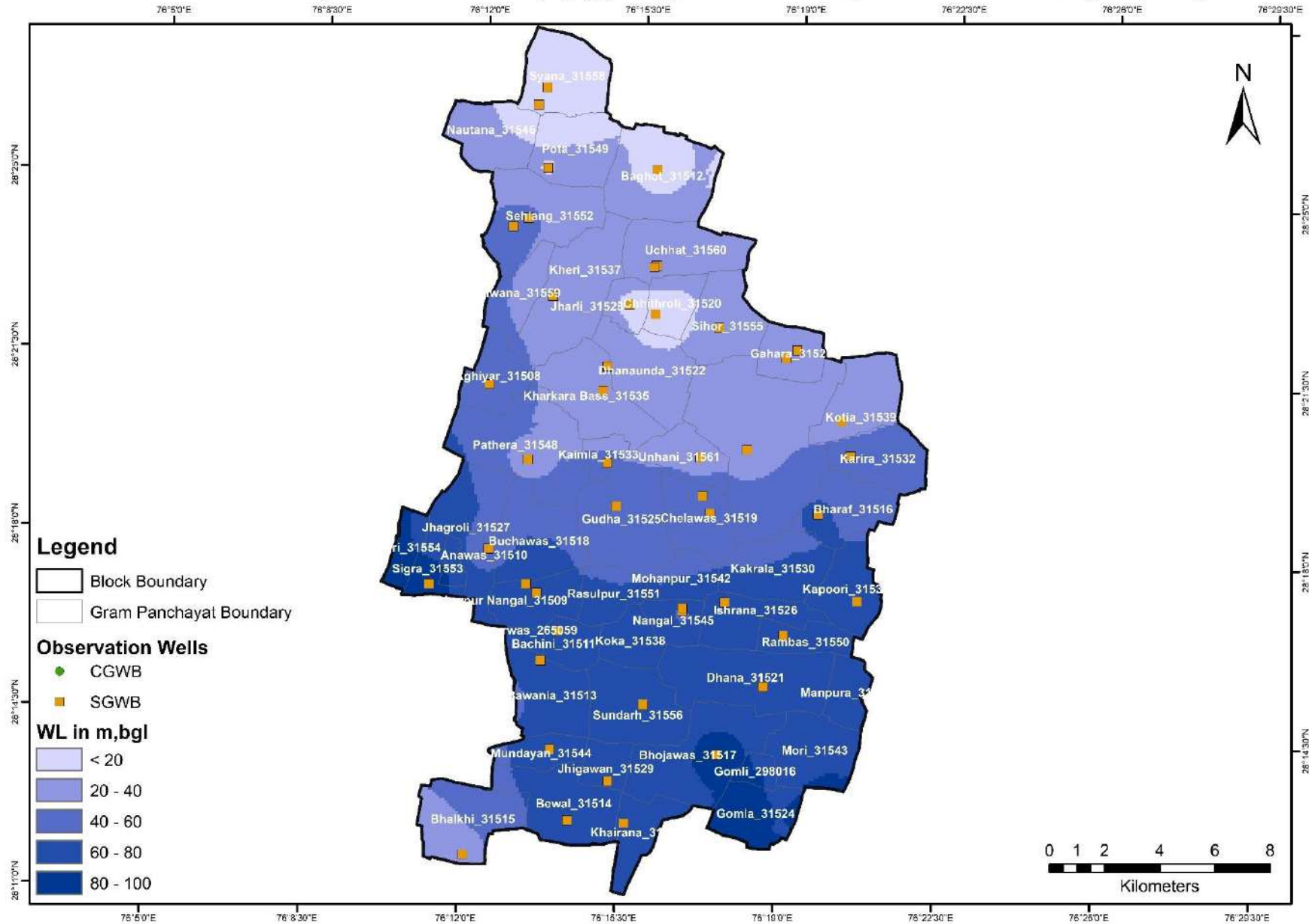


# Pre Monsoon 2023 Depth to Water Level (m,bgl) Map, Block- Kanina, District - Mahendragarh, Haryana

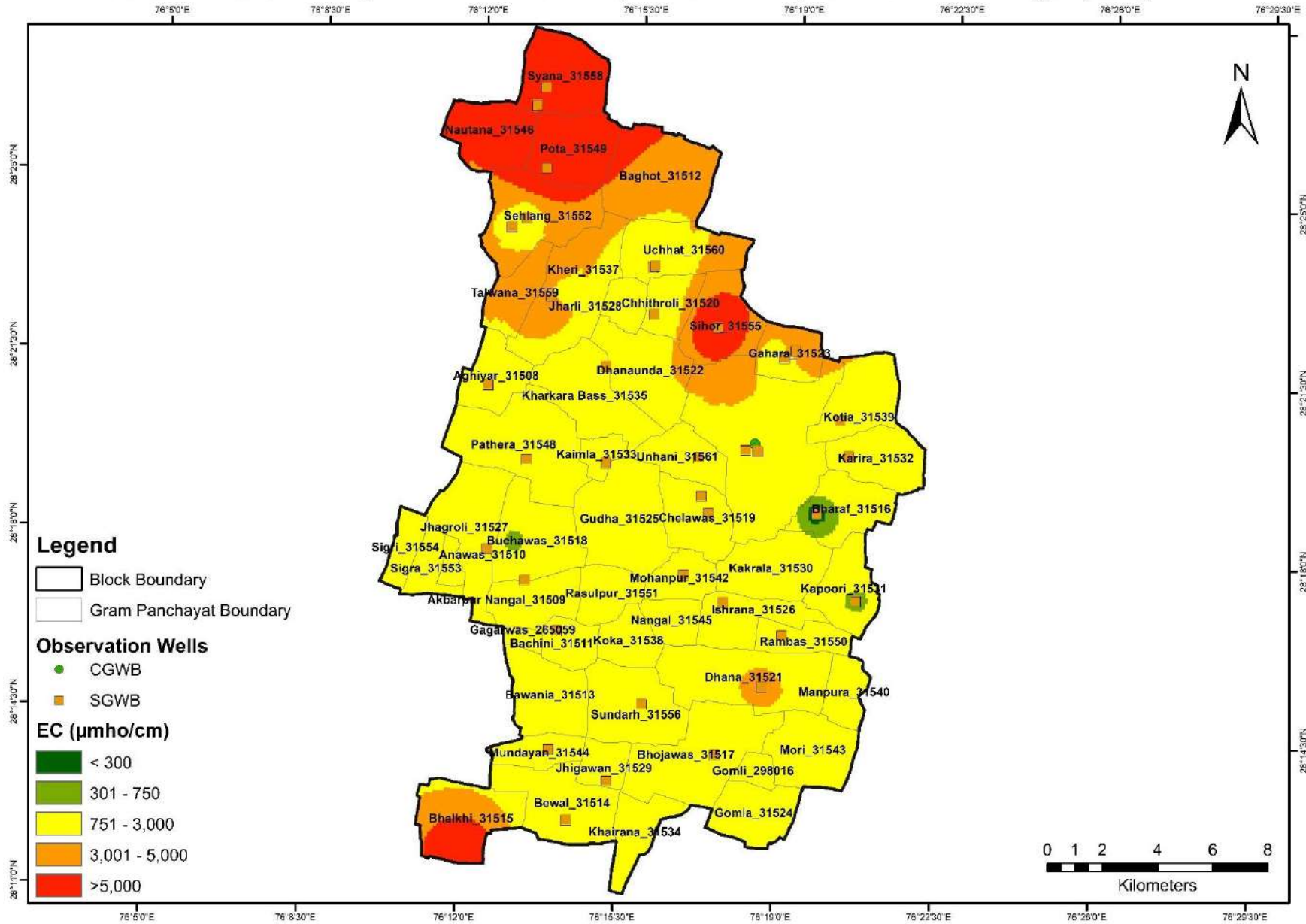




# Post Monsoon 2023 Depth to Water Level (m,bgl) Map, Block - Kanina, District - Mahendragarh, Haryana



# Electrical Conductivity of Groundwater-2023, Block - Kanina, District - Mahendragarh, Haryana



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

State		Haryana				District		Mahendergarh				Block		Kanina	
S. No	Well ID	Gram Panchayat	Name of the village	Site Name	Latitude	Longitude	Type of Well	Reduced Level (m, amsl)	Aquifer Type/Lithology	Height of Measuring (m, agl)	Depth (m, bgl)	Diameter (m)	Purpose of Monitoring (WL/WQ)	Monitoring Mechanism	Agency
1	Ch_28.318_76.285	Chelawas_31519	Chelawas	NE of Village and RHS of AP Road to village -DW	28.3175	76.2853	TWs	256	Aeolian Alluvium (Silt/ Sand) & Hard Formation	0.7	150.0	0.254	Both	Manual	SGWB
2	Ch_28.376_76.265	Chhithroli_31520	Chhitroli	Near Middle school -DW	28.3762	76.2653	DW	249.2	Aeolian Alluvium (Silt/ Sand) & Hard Formation	1.25	22	2	Both	Manual	SGWB
3	Ga_28.364_76.314	Gahara_31523	Gahara	on LHS of Kanina-Garha road Harizan basti DW	28.3636	76.3141	TWs	248.74	Aeolian Alluvium (Silt/ Sand) & Hard Formation	0.7	25.0	0.254	Both	Manual	SGWB
4	Kh_28.359_76.248	Kharkara Bass_31535	Kharkara	Opposite Mankhtool House -DW	28.3586	76.2484	DW	247.83	Aeolian Alluvium (Silt/ Sand) & Hard Formation	1.25	50.0	2	Both	Manual	SGWB
5	Na_28.28_76.279	Nangal_31545	Nangal	Left hand side of Kanina to NNL road (Chote Lal House -GB	28.2798	76.2794	TWs	262.27	Aeolian Alluvium (Silt/ Sand) & Hard Formation	0.7	120	0.254	Both	Manual	SGWB
6	Na_28.288_76.221	Akbarpur Nangal_31509	Nangal Harnath	Near Shyam Ji Mandir- GB	28.2879	76.2214	TWs	262.23	Aeolian Alluvium (Silt/ Sand) & Hard Formation	0.7	100.0	0.254	Both	Manual	SGWB
7	Pa_28.3_27_76.22	Pathera_31548	Pathera	Left hand side of Kanina to NNL road (Chote Lal House -GB	28.3272	76.2203	TWs	257.27	Aeolian Alluvium (Silt/ Sand) & Hard Formation	0.7	100.0	0.254	Both	Manual	SGWB
8	Sh_28.406_76.217	Sehlang_31552	Shelang	East of Village -DCB	28.4061	76.2171	TWs	242.69	Aeolian Alluvium (Silt/ Sand) & Hard Formation	0.7	100.0	0.254	Both	Manual	SGWB
9	Si_28.443_76.219	Syana_31558	Siyana	Opposite house of Chajju Ram Ahir -DW	28.4430	76.2192	DW	271.5	Aeolian Alluvium (Silt/ Sand) & Hard Formation	1.25	20.0	2	Both	Manual	SGWB
10	Su_28.249_76.266	Sundarah_31556	Sundrah	Opposite School Sundrah -GB	28.2489	76.2662	TWs	239.2	Aeolian Alluvium (Silt/ Sand) & Hard Formation	0.7	150.0	0.254	Both	Manual	SGWB
11	Uc_28.392_76.265	Uchhat_31560	Uchat	Behind Primary School Campus -DW	28.3920	76.2651	DW	231.9	Aeolian Alluvium (Silt/ Sand) & Hard Formation	1.25	30.0	2	Both	Manual	SGWB
12	HR_GW_5	Aghiyar_31508	Aghiyar	Govt. senior seacondary school	28.351	76.20	PZ	255	Semi-Confined	0.5	131	0.1	WL	Telemet	SGWB

	93			aghiyar	274	509			To Confined					ry	
13	HR_GW_61_1	Akbarpur Nangal_31509	Akbarpur Nangal	Govt. middle school akbarpur nangal	28.28 3878	76.22 5402	PZ	268	Unconfined To Semi-Confined	0.5	97.5	0.1	WL	Telemetry	SGWB
14	HR_GW_5_94	Bachini_31511	Bachini	panchayat land near temple bachini	28.271 832	76.233 887	PZ	264	Unconfined To Semi-Confined	0.5	122	0.1	Both	Telemetry	SGWB
15	HR_GW_5_95	Baghot_31512	Baghot	Govt. Girls primary school baghot	28.42 3311	76.26 3962	PZ	240	Unconfined To Semi-Confined	0.5	118	0.1	WL	Telemetry	SGWB
16	HR_GW_61_2	Bawania_31513	Bawania	Govt. Senior Seacondary School bawaniya	28.261 913	76.22 7761	PZ	265	Unconfined To Semi-Confined	0.5	108	0.1	WL	Telemetry	SGWB
17	HR_GW_61_3	Bewal_31514	Bewal	Govt. Senior Seacondary School bewal	28.21 0082	76.23 991	PZ	276	Unconfined To Semi-Confined	0.5	108	0.1	Both	Telemetry	SGWB
18	HR_GW_5_96	Bhalkhi_31515	Bhalkhi	Govt. Primary School bhalkhi	28.197 69	76.201 901	PZ	278	Semi-Confined	0.5	75.5	0.1	WL	Telemetry	SGWB
19	HR_GW_5_97	Bharaf_31516	Bharaf	Govt. Primary School bharaf	28.313 05	76.32 8047	PZ	256	Unconfined To Semi-Confined	0.5	129	0.1	Both	Telemetry	SGWB
20	HR_GW_61_4	Bhojawas_31517	Bhojawas	Govt. Senior Seacondary School bhojawas	28.23 3382	76.29 391	PZ	269	Semi-Confined	0.5	111.5	0.1	Both	Telemetry	SGWB
21	HR_GW_5_98	Chelawas_31519	Chelawas	Govt. Primary School Chelawas	28.312 018	76.28 8273	PZ	258	Unconfined To Semi-Confined	0.5	103	0.1	Both	Telemetry	SGWB
22	HR_GW_61_5	Dhana_31521	Dhana	Govt. Middle School dhana	28.25 6114	76.310 178	PZ	267	Semi-Confined	0.5	98	0.1	Both	Telemetry	SGWB
23	HR_GW_61_6	Gahara_31523	Gahara	Govt. Middle School Gahara	28.36 6193	76.318 118	PZ	248	Unconfined To Semi-Confined	0.5	55	0.1	Both	Telemetry	SGWB
24	HR_GW_5_99	Gudha_31525	Gudha	Govt. Senior Seacondary School Gudha	28.313 168	76.25 3581	PZ	259	Unconfined To Semi-Confined	0.5	55	0.1	WL	Telemetry	SGWB
25	HR_GW_61_7	Ishrana_31526	Ishrana	Govt. Primary School ishrana	28.28 3124	76.29 492	PZ	263	Semi-Confined	0.5	70	0.1	Both	Telemetry	SGWB
26	HR_GW_6_00	Jhagroli_31527	Jhagroli	Govt. Middle School jhagroli	28.29 765	76.20 7136	PZ	264	Semi-Confined	0.5	77	0.1	Both	Telemetry	SGWB
27	HR_GW_61_8	Jharli_31528	Jharli	Govt. primary school jharli	28.37 8981	76.25 5578	PZ	250	Unconfined To Semi-Confined	0.5	60	0.1	WL	Telemetry	SGWB
28	HR_GW_6_01	Jhigawan_31529	Jhigawan	panchayat land infront of shiv temple campus jhigawan	28.22 3421	76.25 4319	PZ	273	Unconfined To Semi-Confined	0.5	78	0.1	Both	Telemetry	SGWB
29	HR_GW_61_9	Kaimla_31533	Kaimla	Govt. Middle School kaimla	28.32 7115	76.24 9692	PZ	257	Unconfined To Semi-Confined	0.5	74	0.1	Both	Telemetry	SGWB
30	HR_GW_6_20	Kapoori_31531	Kapoori	Govt.middle school(play ground) kappori	28.28 5116	76.34 3708	PZ	259	Unconfined To Semi-Confined	0.5	88	0.1	Both	Telemetry	SGWB
31	HR_GW_6_21	Karira_31532	Karira	Govt. Senior Seacondary School karira	28.33 2319	76.33 9286	PZ	246	Unconfined To Semi-Confined	0.5	58	0.1	Both	Telemetry	SGWB
32	HR_GW_6_22	Khairana_31534	Khairana	Govt. Middle School khairana	28.20 9856	76.26 0887	PZ	278	Semi-Confined	0.5	75.5	0.1	WL	Telemetry	SGWB
33	HR_GW_6_02	Kharkara Bass_31535	Kharkara Bass	Govt. Middle School ground kharkhara bass	28.35 062	76.24 7113	PZ	255	Semi-Confined	0.5	96.5	0.1	WL	Telemetry	SGWB
34	HR_GW_6_03	Kheri_31537	Kheri	Govt. senior seacondary school kheri	28.38 083	76.22 714	PZ	248	Semi-Confined To Confined	0.5	90	0.1	Both	Telemetry	SGWB
35	HR_GW_6_04	Kotia_31539	Kotia	Govt. Middle School kotia	28.34 366	76.335 533	PZ	249	Semi-Confined	0.5	36	0.1	Both	Telemetry	SGWB
36	HR_GW_6	Mundayan_31	Mundaya	Govt. Primary School mundayan	28.23	76.23	PZ	284	Unconfined To	0.5	88	0.1	Both	Telemetry	SGWB

	24	544	n		3012	2495			Semi-Confined					ry	
37	HR_GW_606	Nangal_31545	Nangal	Govt. Senior Seacondary School Nangal	28.280732	76.279396	PZ	262	Semi-Confined	0.5	109.5	0.1	Both	Telemetry	SGWB
38	HR_GW_626	Pota_31549	Pota	Govt. senior seacondary school pota	28.422576	76.223519	PZ	239	Semi-Confined To Confined	0.5	99.5	0.1	Both	Telemetry	SGWB
39	HR_GW_607	Rambas_31550	Rambas	Govt. Girls Primary School Rambass	28.272992	76.31691	PZ	264	Semi-Confined	0.5	94	0.1	Both	Telemetry	SGWB
40	HR_GW_608	Sehlang_31552	Sehlang	Govt. Senior Seacondary School sehlang	28.40307	76.21158	PZ	245	Unconfined To Semi-Confined	0.5	81	0.1	Both	Telemetry	SGWB
41	HR_GW_627	Sigra_31553	Sigra	Govt. Middle School sigra	28.285464	76.185643	PZ	271	Semi-Confined	0.5	110.5	0.1	WL	Telemetry	SGWB
42	HR_GW_609	Sihor_31555	Sihor	Govt. Senior Seacondary School Sihor	28.372626	76.289024	PZ	245	Unconfined To Semi-Confined	0.5	81	0.1	Both	Telemetry	SGWB
43	HR_GW_628	Sundarh_31556	Sundereh	Govt. Senior Seacondary School sundereh	28.248671	76.266231	PZ	272	Semi-Confined	0.5	108	0.1	WL	Telemetry	SGWB
44	HR_GW_610	Syana_31558	Syana	Govt. Senior Seacondary School syana	28.448837	76.222162	PZ	237	Unconfined To Semi-Confined	0.5	60	0.1	Both	Telemetry	SGWB
45	HR_GW_629	Uchhat_31560	Uchhat	Govt. Primary School uchhat	28.391609	76.264248	PZ	245	Unconfined To Semi-Confined	0.5	60	0.1	Both	Telemetry	SGWB
46	HR_GW_630	Unhani_31561	Unhani	Govt. High School Unhani	28.330069	76.283862	PZ	254	Unconfined To Semi-Confined	0.5	53	0.1	Both	Telemetry	SGWB
47	W282015076183002	Kanina khas	Kanina khas	Kanina khas	28.335278	76.304444	Tube Well	NA	Alluvium	NA	NA	NA	WQ	Manual	CGWB
48	W281037076170601	Ratakalan_31498	Rattakalan	Rattakalan	28.189444	76.286667	Hand Pump	NA	Alluvium	NA	NA	NA	WQ	Manual	CGWB

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

<b>State</b>	<b>Haryana</b>	<b>District</b>	<b>Mahendragarh</b>										<b>Block</b>	<b>Kanina</b>					
<b>Month of Pre-monsoon Water Level Measurement</b>											<b>June</b>								
<b>Month of Post-monsoon water Level measurement</b>											<b>October/November</b>								

S.No.	Observation Point	Source	Well Types	Co-ordinate		Water Level (m)																	
				Latitude	Longitude	2015		2016		2017		2018		2019		2020		2021		2022		2023	
						Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
1	Chelawas_31519	SGWB	Tw	28.31752	76.28526	36.4	37	39	37	38	38	39	39	41	40	41	42	42	42.6	43	43	45.3	45.4
2	Chhithroli_31520	SGWB	DW	28.37622	76.26533	7.5	9.8	11	9.3	9.9	9.9	11	11	12	11	12	13	13	13	13	12	12.7	13
3	Gahara_31523	SGWB	Tw	28.36357	76.31415	15	16	16	16	17	17	18	18	19	19	19	9	20	20.2	21	20	22.8	22.9
4	Kanina	SGWB	Tw	28.33309	76.30099	24.5	27	29	27	27	27	28	27	30	29	30	30	31	30.7	31	31	31.2	31.7
5	Kanina P.T	SGWB	Pz	28.33289	76.30548	14.4	16	27	26	28	28	30	29	30	28	28	28	28	28	28	29	28.8	NA
6	Kharkara Bass_31535	SGWB	DW	28.35863	76.24836	25.8	26	18	16	19	19	18	17	20	20	20	21	21	21.6	22	22	21.9	22.1
7	Nangal_31545	SGWB	Tw	28.27983	76.27942	45.6	46	47	46	46	46	49	49	51	51	51	52	52	52.5	53	53	54	54.5
8	Akbarpur Nangal_31509	SGWB	Tw	28.28667	76.22135	37.2	38	39	38	38	38	40	39	42	41	42	42	43	43	44	44	44	45
9	Pathera_31548	SGWB	Tw	28.32722	76.22032	29.5	32	32	30	30	30	30	29	31	31	31	32	32	32.8	33	33	34.3	34.8
10	Sehlang_31552	SGWB	Tw	28.40606	76.21707	32.8	34	35	33	34	34	35	34	37	37	37	38	38	38.5	39	39	40	42
11	Syana_31558	SGWB	DW	28.44304	76.21918	10.6	11	10	9.5	11	11	11	9.6	10	9.4	9.7	9	9.3	9.41	9.5	9.1	9.31	9.26
12	Sundarh_31556	SGWB	Tw	28.24891	76.26618	57.2	38	59	58	59	59	61	60	62	62	62	63	63	63.5	64	64	64	66.5
13	Uchhat_31560	SGWB	DW	28.39202	76.26507	16.1	14	17	16	17	17	17	17	20	20	20	22	22	22.3	22	23	22.7	22.8





46	Syana_31558	SGWB	Pz	28.44884	76.22216	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.25	7.16
47	Uchhat_31560	SGWB	Pz	28.39161	76.26425	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21.4	21.8
48	Unhani_31561	SGWB	Pz	28.33007	76.28386	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36.2	34.3

Note: Well Type: DW (Dug well); BW (Bore well); TW (Tube well); PZ (Piezometer)

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

<b>State</b>	<b>Haryana</b>				<b>District</b>	<b>Mahendragarh</b>						<b>Block</b>	<b>Kanina</b>				
<b>Month of Collection of sample for WQ monitoring*</b>											<b>June</b>						

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>		
Kanina khas	CGWB	Tw	28.33527778	76.30444444	2015	8.63	1446	ND	78.0	13.0	11.0	335.0	4.3	26.0	410.0	152.0	186.0	0.93	0.93		
Kanina khas	CGWB	Tw	28.33527778	76.30444444	2016	9.12	1281	ND	44.0	8.8	8.8	301.0	0.8	229.0	307.0	BDL	28.0	1.03	1.03		
Kanina khas	CGWB	Tw	28.33527778	76.30444444	2017	Sample not collected from this location															
Kanina khas	CGWB	Tw	28.33527778	76.30444444	2018	8.52	1616	ND	108.0	17.0	16.0	359.0	1.4	69.0	748.0	4.0	97.0	0.68	0.68		
Kanina khas	CGWB	Tw	28.33527778	76.30444444	2019	8.89	1520	ND	250.0	40.0	46.0	279.0	17.0	144.0	354.0	BDL	227.0	0.41	29.00		
Kanina khas	CGWB	Tw	28.33527778	76.30444444	2020	8.66	1622	ND	120.1	16.0	19.5	337.0	2.3	60.0	414.9	25.0	234.0	0.44	31.00		
Kanina khas	CGWB	Tw	28.33527778	76.30444444	2021	8.45	3081	ND	742.2	90.8	125.2	387.0	3.1	46.8	47.6	292.0	779.9	0.34	29.00		
Kanina khas	CGWB	Tw	28.33527778	76.30444444	2022	8.57	1706	ND	120.0	24.0	15.0	360.0	5.6	120.0	293.0	0.0	241.0	1.20	100.00		
Kanina khas	CGWB	Tw	28.33527778	76.30444444	2023	Sample not collected from this location															
Rattakalan	CGWB	Hp	28.18944444	76.28666667	2015	8.02	1115	ND	233.0	40.0	32.0	182.0	5.0	0.0	244.0	140.0	192.0	0.21	42.00		
Rattakalan	CGWB	Hp	28.18944444	76.28666667	2016	8.63	1184	ND	198.0	35.0	27.0	178.0	2.4	24.0	171.0	79.0	202.0	0.46	45.00		
Rattakalan	CGWB	Hp	28.18944444	76.28666667	2017	Sample not collected from this location															
Rattakalan	CGWB	Hp	28.18944444	76.28666667	2018	8.34	1440	ND	333.0	56.0	47.0	188.0	3.8	13.0	279.0	115.0	264.0	0.20	24.00		
Rattakalan	CGWB	Hp	28.18944444	76.28666667	2019	8.26	1302	ND	480.0	49.0	88.0	139.0	5.0	0.0	244.0	103.0	298.0	0.36	58.00		
Rattakalan	CGWB	Hp	28.18944444	76.28666667	2020	8.39	1052	ND	200.2	24.0	34.0	156.0	2.4	36.0	183.1	45.0	170.2	0.16	31.00		
Rattakalan	CGWB	Hp	28.18944444	76.28666667	2021	8.61	1272	ND	237.1	24.8	42.6	162.0	3.1	62.4	126.9	0.0	262.3	0.38	27.00		
Rattakalan	CGWB	Hp	28.18944444	76.28666667	2022	8.15	1222	ND	230.0	40.0	32.0	180.0	5.6	0.0	268.0	0.0	220.0	0.77	110.00		

Rattakalan	CGWB	Hp	28.18944444	76.28666667	2023	8.41	1284	ND	290.0	60.0	34.0	171.5	2.9	48.0	366.0	0.0	191.7	0.70	29.70
Rambas_31550	SGWB	Pz	28.272992	76.31691	2023	7.53	1189	784.74	404.6	108.5	32.5	87.9	25.1	0	368.9	58.8	211.4	1.54	33.7
Kheri_31537	SGWB	Pz	28.38083	76.22714	2023	7.71	5890	3416.2	1085.47	354.96	48.36	872.14	95.35	0	654.5	274.97	1187.58	4.68	143.03
Pota_31549	SGWB	Pz	28.422576	76.223519	2023	7.82	10110	6066	2318.95	769.08	96.79	1469.94	160.71	0	1368.5	463.56	1995.13	7.28	241.07
Bewal_31514	SGWB	Pz	28.210082	76.23991	2023	8.31	809	533.94	177.62	61.13	6.06	96	32	8	107.1	47.98	180.51	0.77	36
Bachini_31511	SGWB	Pz	28.271832	76.233887	2023	8.38	2110	1329.3	424.32	143.96	15.75	340.68	37.25	23	243.95	107.36	451.28	1.75	55.86
Uchhat_31560	SGWB	Pz	28.391609	76.264248	2023	8.8	2980	1898	773.12	247.2	37.85	288.54	53.15	34.7	742	111.7	500	1.76	0
Sihor_31555	SGWB	Pz	28.372626	76.289024	2023	7.42	9256	5196	884	153.6	121.5	1480	1.25	0	204	1156	1410	0.58	58
Kapoori_31531	SGWB	Pz	28.285116	76.343708	2023	7.71	687	440	180.39	57.68	8.83	66.86	12.32	0	174.9	25.06	118.05	1.45	0
Karira_31532	SGWB	Pz	28.332319	76.339286	2023	7.8	1570	868	360.79	113.3	18.91	132	24.32	0	344.5	50.55	233.47	2.85	0
Dhana_31521	SGWB	Pz	28.256114	76.310178	2023	7.9	3750	2175	328	58	44.46	740	2.1	0	200	420	560	0.61	40
Syana_31558	SGWB	Pz	28.448837	76.222162	2023	8.02	11010	6695	2780	870	150	1020	190	0	2650	400	1780	2.79	0
Bhojawas_31517	SGWB	Pz	28.233382	76.29391	2023	8.04	1510	865	156	25	22.7	280	1.25	0	100	180	126	0.42	23
Gahara_31523	SGWB	Pz	28.366193	76.318118	2023	8.05	4820	2710	294	44	46	1056	2.85	0	252	658	356	0.71	56
Nangal_31545	SGWB	Pz	28.280732	76.279396	2023	8.06	2190	1256	100	20	12.15	369	2.12	0	258	310	210	0.61	39
Kaimla_31533	SGWB	Pz	28.327115	76.249692	2023	8.08	1310	826	345.33	107.12	18.9	125.6	23.14	0	328.6	47.98	222.98	1.57	0
Bharaf_31516	SGWB	Pz	28.31305	76.328047	2023	8.08	134	75	30.92	8.24	2.51	11.42	2.1	0	26.5	3.38	18.36	2.43	0
Kotia_31539	SGWB	Pz	28.34366	76.335533	2023	8.09	2850	1596	328	58	44.46	325	2.36	0	200	240	480	0.89	38
Jhagroli_31527	SGWB	Pz	28.29765	76.207136	2023	8.2	2150	1223	122	24	15.06	385	1.1	0	314	210	124	0.58	21
Chelawas_31519	SGWB	Pz	28.312018	76.288273	2023	8.23	2690	1560	200	18.4	37.42	562	2.12	0	268	410	175	0.56	28.5
Sehlang_31552	SGWB	Pz	28.40307	76.21158	2023	8.29	2670	1762.2	542.73	189.31	17	213.52	23.34	0	351.05	67.27	285.02	2.12	34.99
Ishrana_31526	SGWB	Pz	28.283124	76.29492	2023	8.34	1420	798	70	16	7.29	256	0.75	0	182	186	139	0.23	19.5
Unhani_31561	SGWB	Pz	28.330069	76.283862	2023	8.46	2390	1370	94	12.8	14.06	456	1.25	0	326	396	125	0.61	23.6
Jhigawan_31529	SGWB	Pz	28.223421	76.254319	2023	8.88	1675	1037	435	135.96	22.69	157.56	29.02	56.3	408.1	60.55	262.33	1.97	0
Mundayan_31544	SGWB	Pz	28.233012	76.232495	2023	9.08	982	532	221.63	70.04	11.35	80.92	14.91	68.2	206.7	30.55	141.66	1.79	0

Name of Block	Source	Name of village/ OW data	Latitude	Longitude	Value of EC June 2020	Value of EC June-2021	Value of EC June-2022	Value of EC June-2023
Kanina_523	SGWB	Chelawas	28.3175	76.2853	2000	2000	NA	1500
Kanina_523	SGWB	Chhitroli	28.3762	76.2653	900	1100	NA	700
Kanina_523	SGWB	Gahara	28.3636	76.3141	1800	2000	NA	1800
Kanina_523	SGWB	Kanina KOW	28.3331	76.301	1900	2000	NA	1900
Kanina_523	SGWB	Kharkara	28.3586	76.2484	1400	1400	NA	NA
Kanina_523	SGWB	kanina PT	28.3329	76.3055	NA	NA	NA	1400
Kanina_523	SGWB	Nangalm pur	28.29155	76.27995	1600	1900	NA	2200
Kanina_523	SGWB	Nangal Harnath	28.2879	76.2214	1900	2100	NA	1800
Kanina_523	SGWB	Pathera	28.3272	76.2203	2000	2000	NA	1800
Kanina_523	SGWB	Shelang	28.4061	76.2171	1900	1900	NA	2100
Kanina_523	SGWB	Sundrah	28.2489	76.2662	2100	2200	NA	4600
Kanina_523	SGWB	Siyana	28.443	76.2192	4800	4800	NA	1700
Kanina_523	SGWB	Uchat	28.392	76.2651	1500	1600	NA	1400
Kanina_523	SGWB	Rambas_31550	28.27299	76.31691	NA	NA	NA	1189
Kanina_523	SGWB	Kheri_31537	28.38083	76.22714	NA	NA	NA	5890
Kanina_523	SGWB	Pota_31549	28.42258	76.22352	NA	NA	NA	10110
Kanina_523	SGWB	Bewal_31514	28.21008	76.23991	NA	NA	NA	809
Kanina_523	SGWB	Bachini_31511	28.27183	76.23389	NA	NA	NA	2110
Kanina_523	SGWB	Uchhat_31560	28.39161	76.26425	NA	NA	NA	2980
Kanina_523	SGWB	Sihor_31555	28.37263	76.28902	NA	NA	NA	9256
Kanina_523	SGWB	Kapoori_31531	28.28512	76.34371	NA	NA	NA	687
Kanina_523	SGWB	Karira_31532	28.33232	76.33929	NA	NA	NA	1570
Kanina_523	SGWB	Dhana_31521	28.25611	76.31018	NA	NA	NA	3750
Kanina_523	SGWB	Syana_31558	28.44884	76.22216	NA	NA	NA	11010
Kanina_523	SGWB	Bhojawas_31517	28.23338	76.29391	NA	NA	NA	1510
Kanina_523	SGWB	Gahara_31523	28.36619	76.31812	NA	NA	NA	4820
Kanina_523	SGWB	Nangal_31545	28.54975	75.6609	NA	NA	NA	2190

Kanina_523	SGWB	Kaimla_31533	28.32712	76.24969	NA	NA	NA	1310
Kanina_523	SGWB	Bharaf_31516	28.31305	76.32805	NA	NA	NA	134
Kanina_523	SGWB	Kotia_31539	28.34366	76.33553	NA	NA	NA	2850
Kanina_523	SGWB	Jhagroli_31527	28.29765	76.20714	NA	NA	NA	2150
Kanina_523	SGWB	Chelawas_31519	28.31202	76.28827	NA	NA	NA	2690
Kanina_523	SGWB	Sehlang_31552	28.40307	76.21158	NA	NA	NA	2670
Kanina_523	SGWB	Ishrana_31526	28.28312	76.29492	NA	NA	NA	1420
Kanina_523	SGWB	Unhani_31561	28.33007	76.28386	NA	NA	NA	2390
Kanina_523	SGWB	Jhigawan_31529	28.22342	76.25432	NA	NA	NA	1675
Kanina_523	SGWB	Mundayan_31544	28.23301	76.2325	NA	NA	NA	982
Kanina_523	SGWB	Mundayan_31544	28.23301	76.2325	NA	NA	NA	982