

ATAL BHUJAL YOJANA (AtalJal)

State : HARYANA

**Department : IRRIGATION & WATER
RESOURCE DEPARTMENT**

BLOCK : Mahendragarh

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	:	Mahendragarh
BLOCK HQ	:	Mahendragarh

A- GENERAL INFORMATION			
1. Geographical Area	:	41839.74	
2. No. of Gram Panchayat	:	63	
3. No. of Towns	:	1	
4. No. of Villages	:	71	
5. Population (Census 2022)	:	Male	Female
	:	78260	70941
6. Rainfall (mm) (2022)	:	Monsoon	Non-Monsoon
	:	522.51	161.62
River Basin	:	Yamuna river basin	
Major Soil Type	:	Sandy Soil	

B- LAND USE	
1. Forest Area (Ha)	: 100.9
2. Culturable Area (Ha)	: 29010
3. Net sown Area (Ha)	: 26779
4. Gross Cropping Area (Ha)	: 57667

C- CROPPING PATTERN (As in 2022-23)					
1. Major Crops grown		Kharif	Rabi	Summer	Perennial
		Bajra	Wheat	Pulses	NA
		Gawar	Mustard	Tomato	
		Cotton	Oilseeds	Vegetable	

D- IRRIGATION FACILITIES (As in 2022-23)					
1. Net Irrigation Area (Ha)	26471				
2. Gross Irrigated Area (Ha)	30985				
3. Area under irrigation (Ha) source wise	DW	BW/T W	TANK/PONDS	CANAL	OTHERS
	0	26355	0	4630	0

E-GEOLOGY & HYDROGEOLOGY	
Predominant Rock type	Fine sand with silt (Aeolian formation), Quartzite, Phyllite, Schist
Major Geological Formation	Newer Alluvium and Alwar group/ formation
Important water bearing formation	Coarse grain sand& fractured/jointed rocks

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	2	2	2	20	5
2.Monitoring Mechanism (Nos.)	Manual		DWLR		TELEMETRY	
	CGWB	SGWB	CGWB	SGWB	CGWB	SGWB
	1	7	0	15	0	15
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	2015			2023	
	SGWB	2015			2023	
5. Water Level Range (m.bgl)	Minimum/Village			Maximum/Village		
	Pre-Monsoon (2022)			17.90/Nanagwas_31619		
	Post-Monsoon (2022)			17.70/Nanagwas_31619		
6.Seasonal WL fluctuation range (m)	Minimum/Village			Maximum/Village		
	0.3/Dholi			26.2/Bass Khudana_265058		

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
	1	2	3	4	18	22
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 ₃ ,HCO ₃ ,,SO ₄ ,Cl,F,NO ₃				
	SGWB	EC				
5. Known ground water quality issues, if any	SGWB New	pH,EC,TDS,TH,Ca,Mg,Na,K,CO ₃ ,HCO ₃ ,,SO ₄ ,Cl,F,NO ₃				
	Low to medium salinity, Groundwater is saline in nature in pockets.					

H- GROUND WATER RESOURCES						
1. Latest Assessment Year	2022					
2.Assessment Unit	Block					
3.Annual Extractable GW Resource (ham)	3047.73					
4. Current Annual GW Resource (ham)	3895.04					
5.Net GW Availability for future use (ham)	0					
6. Stage of Extraction (%)	127.8%					
7.Category of block 2022	Over Exploited					
8.Category of block/taluk/in previous	2020	2017	2013	2011	2009	2004

assessments		Over Exploited	Over Exploited	Over Exploited	Over Exploited	Over Exploited	Critical
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I-WATER-RELATED SCHEMES

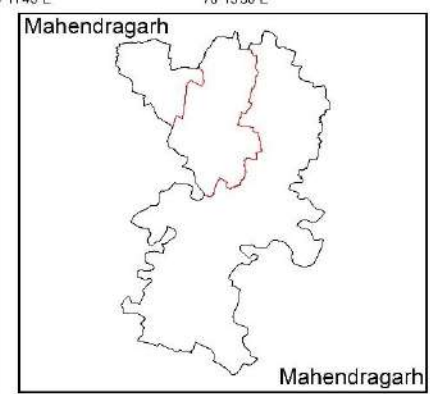
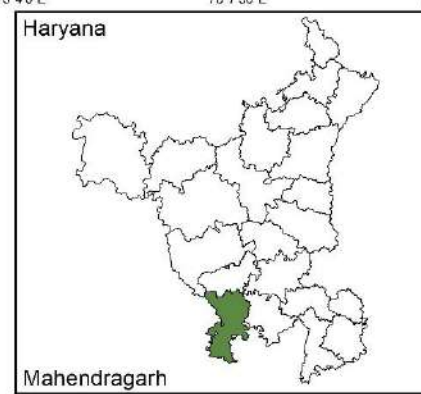
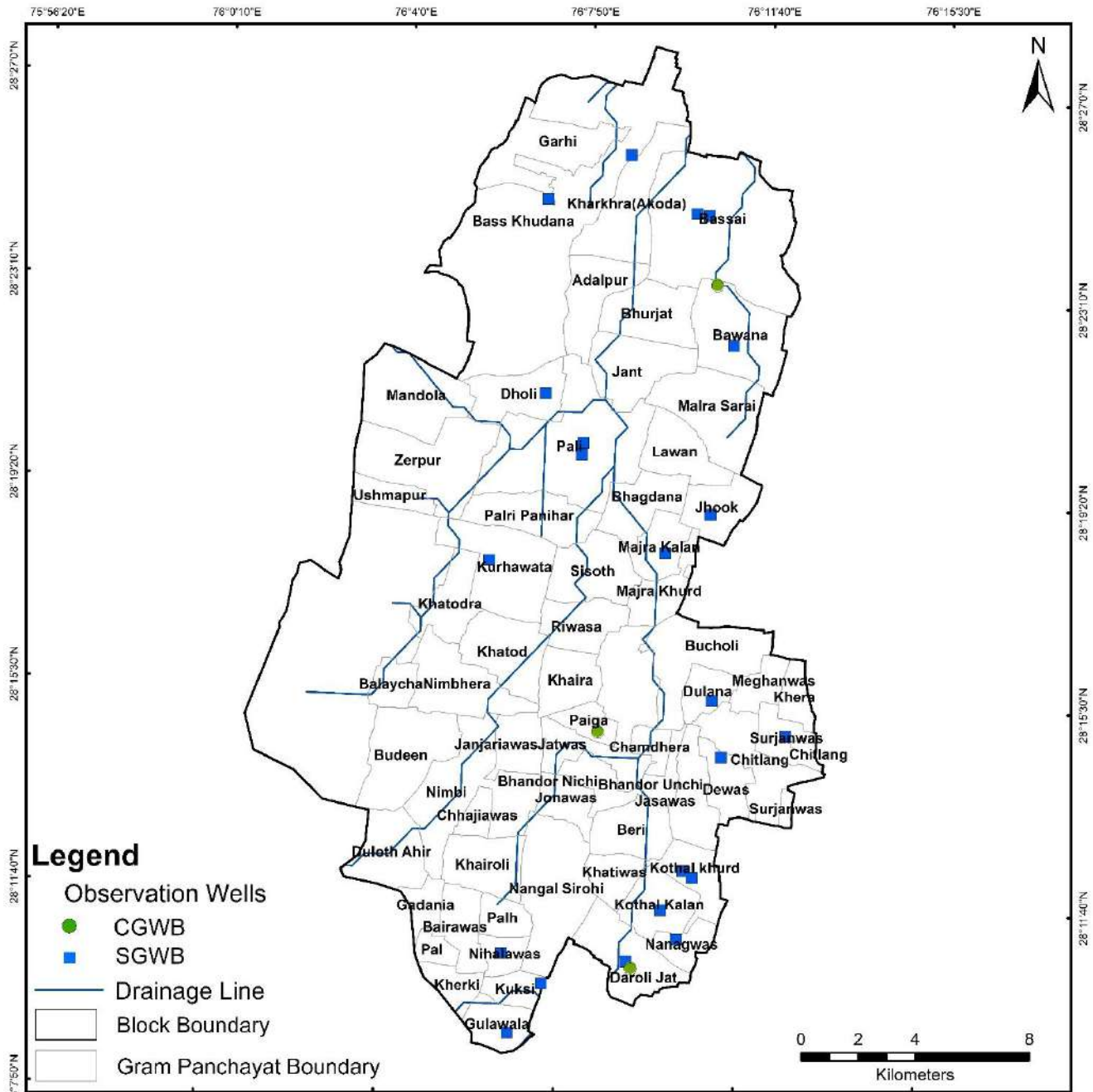
I. Schemes with a bearing on ground water, bearing implemented in the block/taluk		
Centrally Sponsored/Central Sector Scheme	i)	PMKSY
	ii)	MGNREGA
	iii)	RKVY
	iv)	NAQUIM
	v)	JJM
	vi)	NHP
State Scheme	i)	State Plan Scheme for providing assistance on adopting water saving technologies (2402)
	ii)	MPMV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

J- GROUND WATER RELATED ISSUES

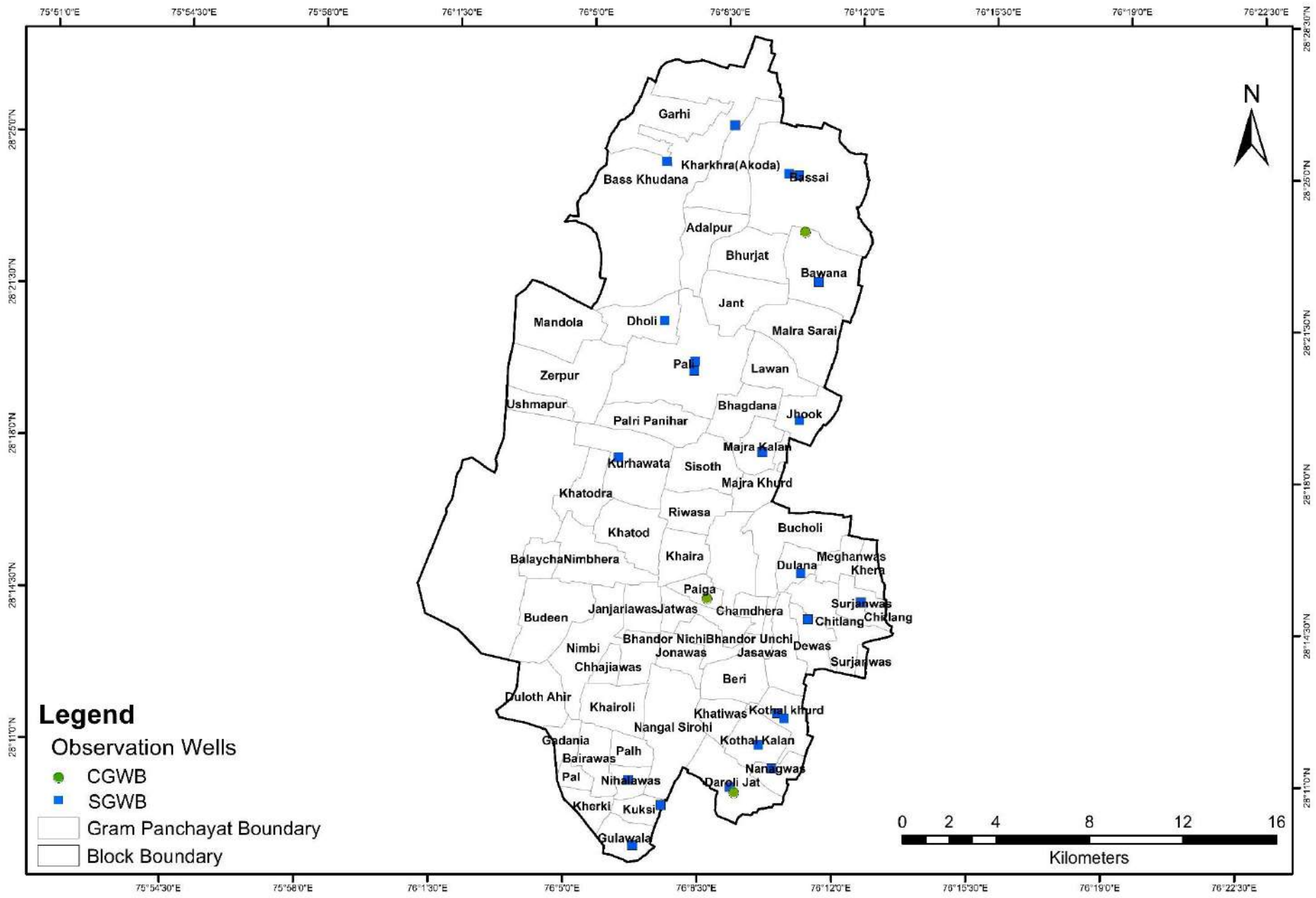
I. GROUND WATER RELATED ISSUES OF THE BLOCK		
i) Issues related to GW Availability		Ground water depletion issues due to over extraction of groundwater for agriculture and other uses
ii) Issues related to GW quality		Groundwater contamination issues in many villages
iii) other issues if any		

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

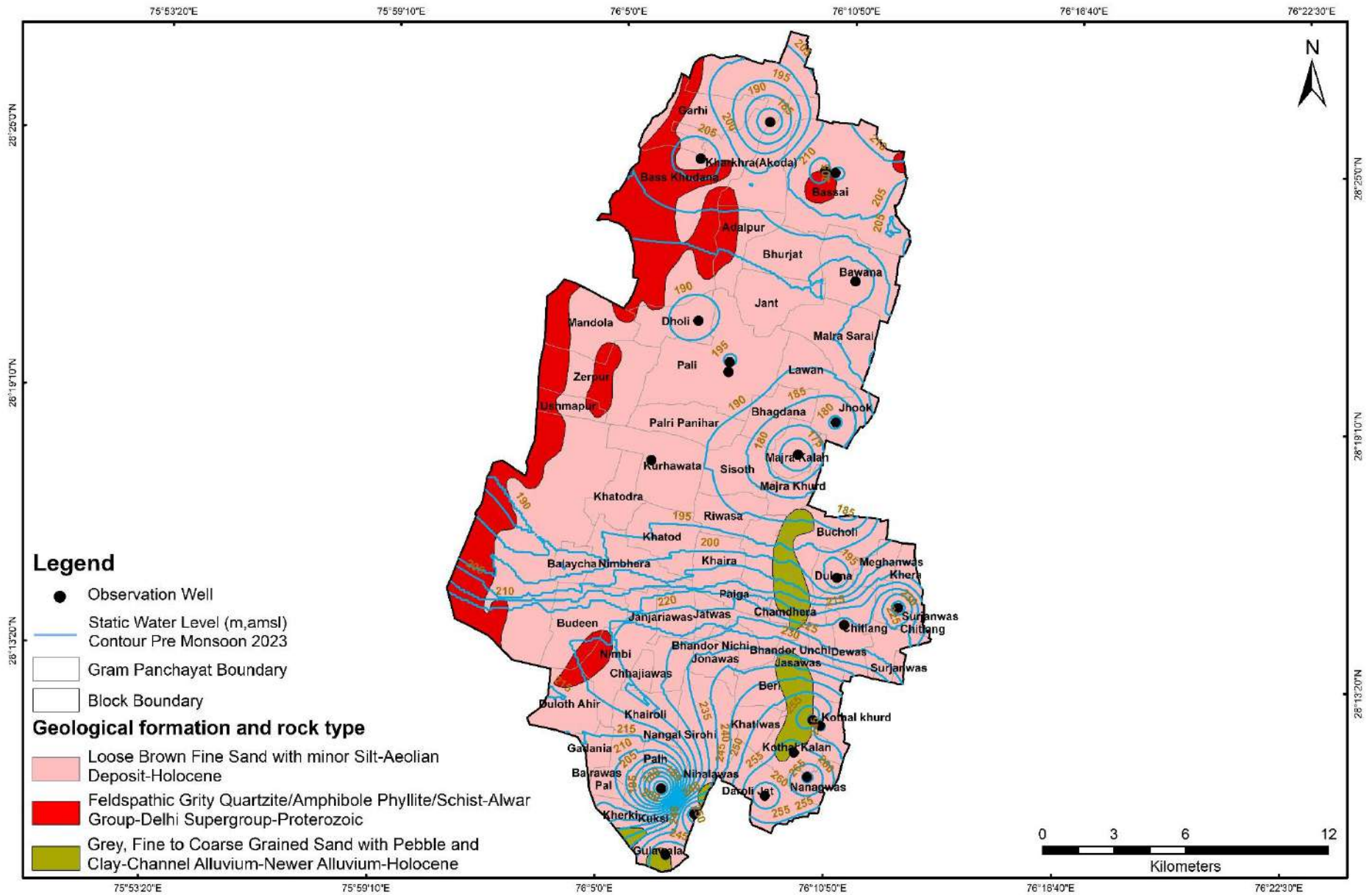
Location Map of Block- Mahendragarh, District- Mahendragarh, Haryana



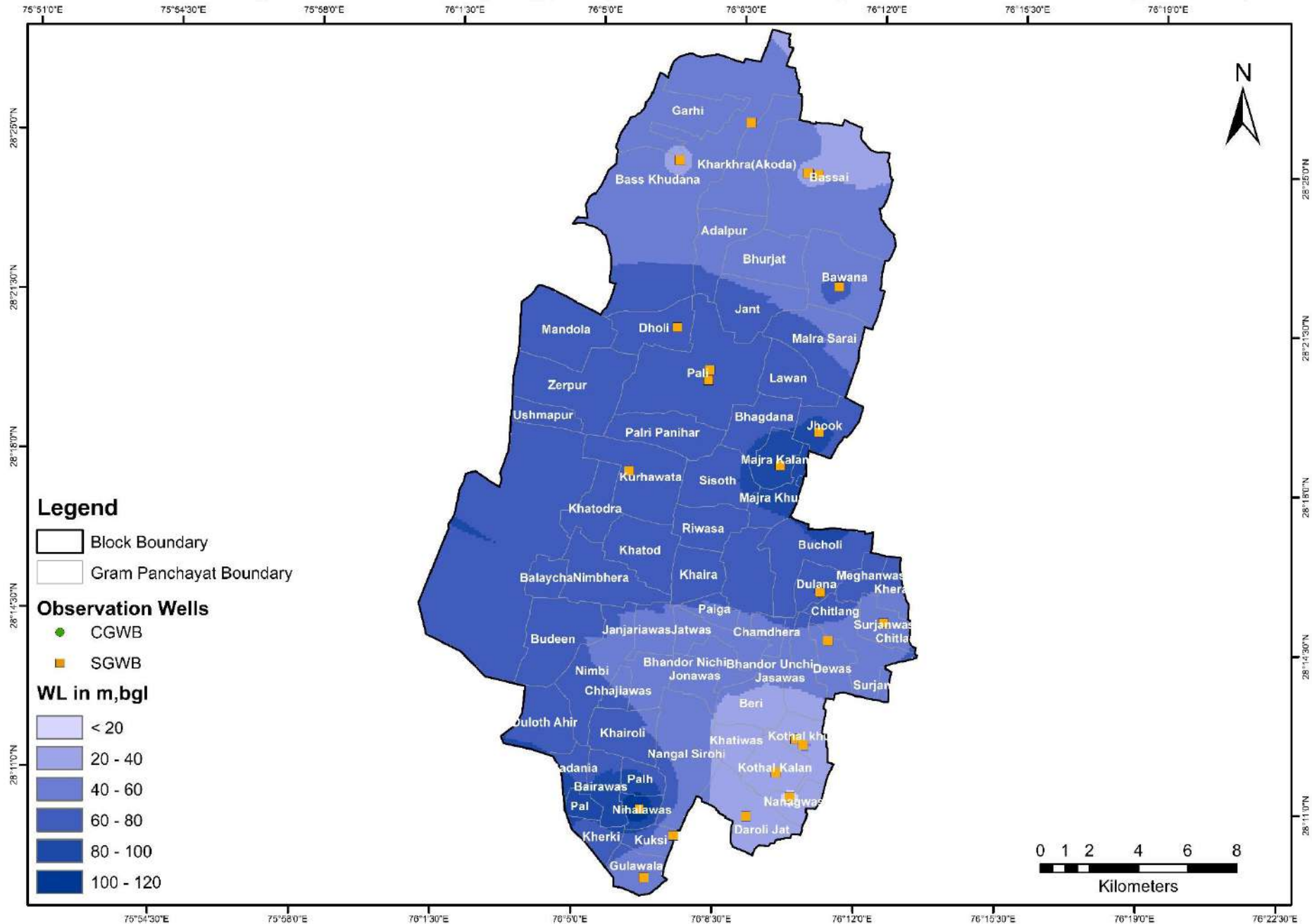
Location of Observation Wells for Monitoring Water Levels and Water Quality, Block-Mahendragarh, District- Mahendragarh, Haryana



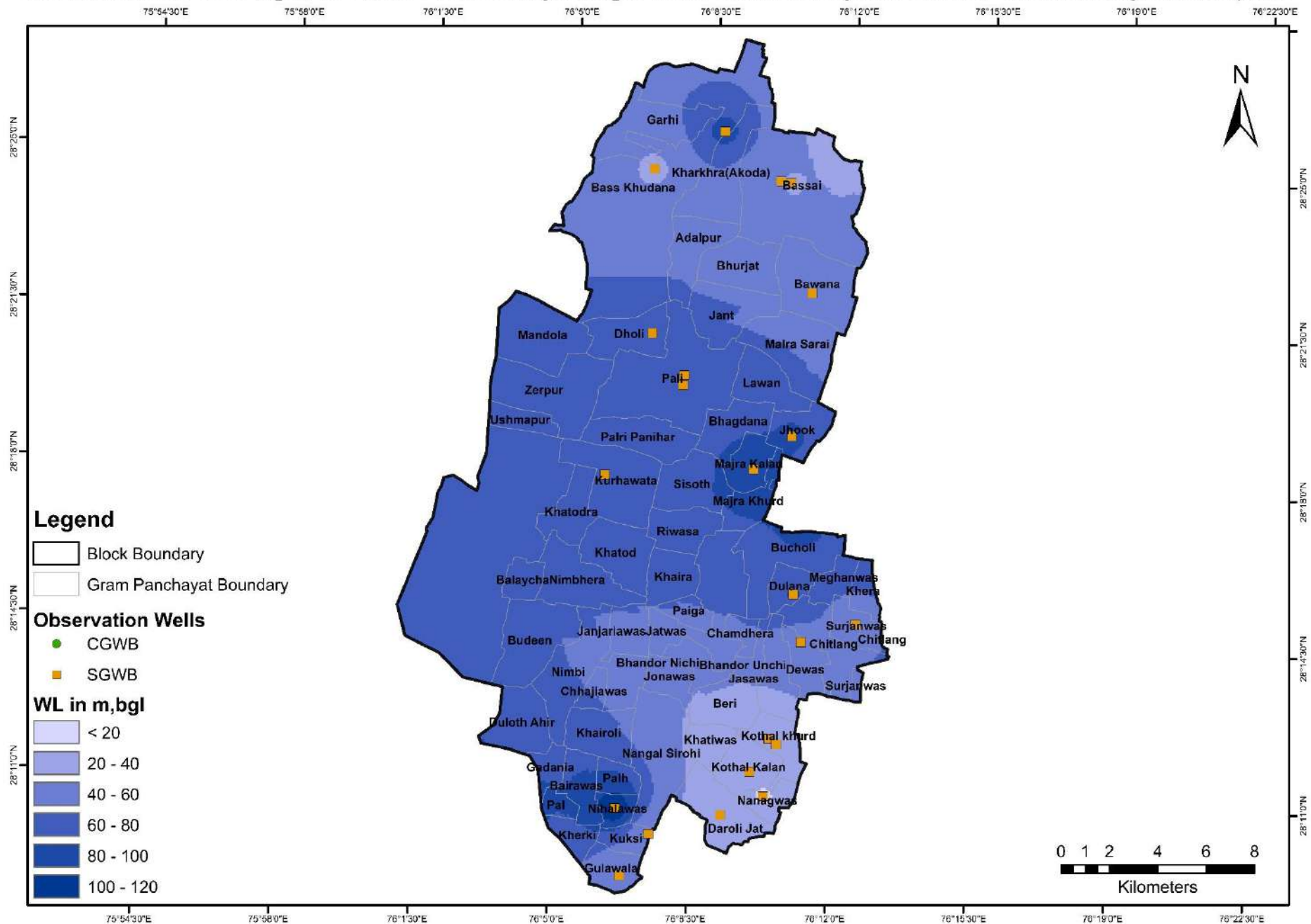
Hydrogeological Map, Block- Mahendragarh, District- Mahendragarh, Haryana



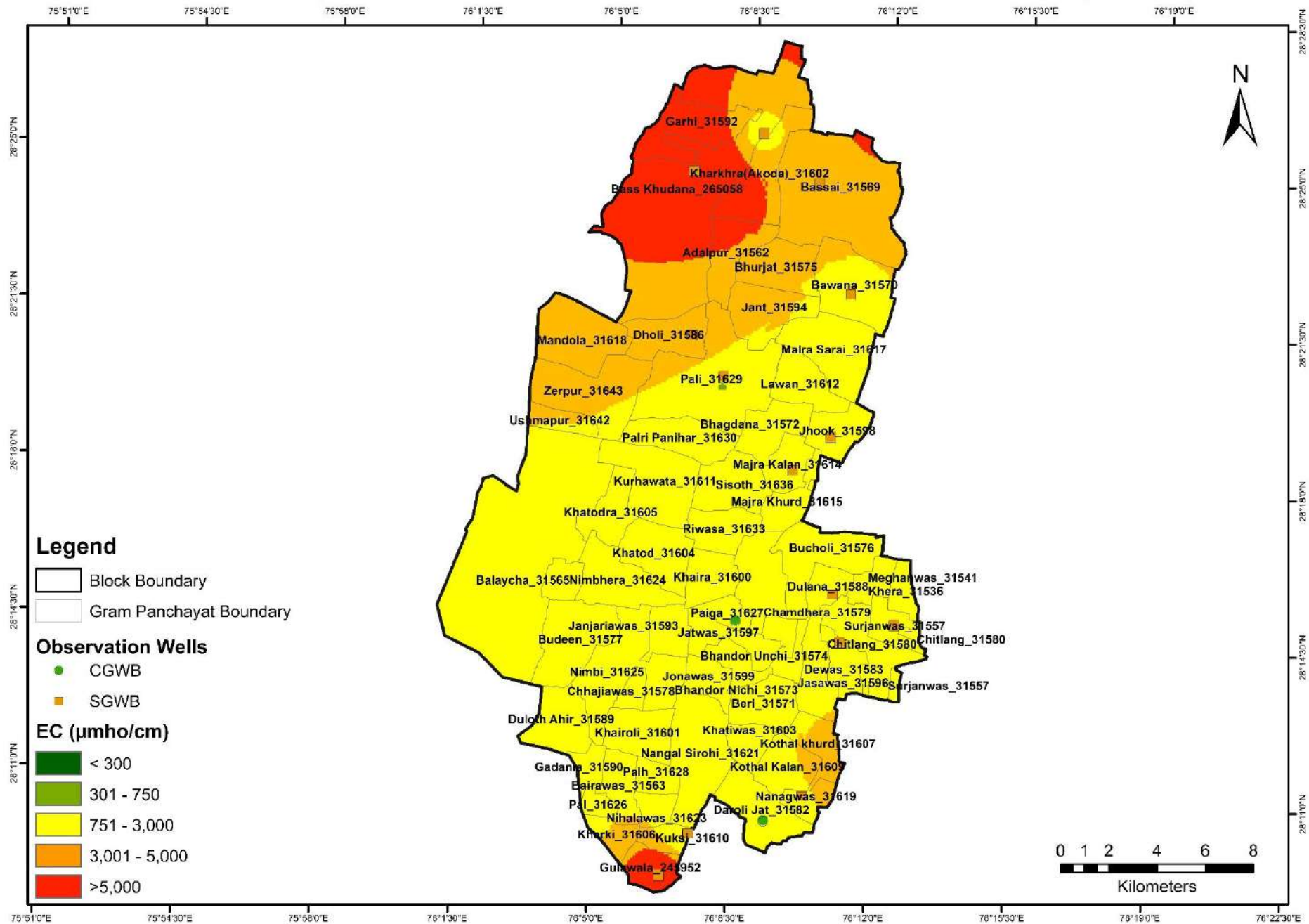
Pre Monsoon 2023 Depth to Water Level (m,bgl) Map, Block- Mahendragarh, District - Mahendragarh, Haryana



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



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



ANNEXURE: I
BASIC DATA OF MONITORING WELLS

State		Haryana			District		Mahendragarh			Block		Mahendragarh			
S. No	Well ID	Gram Panchayat	Name of the village	Site Name	Latitude	Longitude	Type of Well	Reduced Level (m, asl)	Aquifer Type/Lithology	Height of Measuring (m, agl)	Depth (m, bgl)	Diameter (m)	Purpose of Monitoring (WL/WQ)	Monitoring Mechanism	Agency
1	De_28.175_76.155	Daroli Jat_31582	Deroli Jat	Near Shiv Mandir -DW	28.1753	76.1547	DW	284.61	Aeolian Alluvium (Silt/ Sand) & Hard Formation	1.25	30.0	2	Both	Manual	SGWB
2	Ko_28.204_76.174	Kothal khurd_31607	Kothal Khurd	Near of Approach Road -DCB	28.2045	76.1739	DW	278.62	Aeolian Alluvium (Silt/ Sand) & Hard Formation	1.25	30.0	2	Both	Manual	SGWB
3	Ku_28.3_76.101	Kurhawata_31611	Kurahwata	At the end of Road from Mahendergarh to Kurawata-GB	28.3002	76.1006	TW	258.98	Aeolian Alluvium (Silt/ Sand) & Hard Formation	0.7	200.0	0.254	Both	Manual	SGWB
4	Ni_28.1_76.76.11	Nihalawas_31623	Nihalawas	In the Center of Village -GB	28.1764	76.1105	TW	284.82	Aeolian Alluvium (Silt/ Sand) & Hard Formation	0.7	160	0.254	Both	Manual	SGWB
5	Pa_28.335_76.132	Pali_31629	Pali	In the Front of Panchayat Ghar -GB	28.3346	76.1320	TW	255.12	Aeolian Alluvium (Silt/ Sand) & Hard Formation	0.7	76.0	0.254	Both	Manual	SGWB
6	W282310076104001	Bawana_31570	Buwana	Buwana-Pz	28.3897	76.1778	Pz	248	Unconfined to Semi Confined	0.6	118.0	0.152	WL	Manual	CGWB
7	Ba_28.411_76.174	Bassai_31569	Basai	Near Water Supply Office -DCB	28.4114	76.1743	TW	242.18	Aeolian Alluvium (Silt/ Sand) & Hard Formation	0.7	80.0	0.254	Both	Manual	SGWB
8	HR_GW_577	Bass Khudana_265058	Bass khudana	Govt. Middle School bass khudana	28.4295	76.1455	PZ	241	Unconfined to Semi-confined	0.5	90	0.1	Both	Telemetric	SGWB
9	HR_GW_558	Bassai_31569	Bassai	Govt. girls high school bassai	28.4119	76.1698	PZ	254	Confined	0.5	100	0.1	Both	Telemetric	SGWB
10	HR_GW_559	Bawana_31570	Bawana	Govt. senior seacondary school bawana	28.3707	76.1847	PZ	253	Semi-Confined To Confined	0.5	83	0.1	Both	Telemetric	SGWB
11	HR_GW_579	Dewas_31583	Dewas	Govt. high school dewas	28.2409	76.1857	PZ	275	Unconfined To Semi-Confined	0.5	73	0.1	Both	Telemetric	SGWB
12	HR_GW_563	Dholi_31586	Dholi	Govt. Middle School dholi	28.3535	76.1183	PZ	256	Confined	0.5	95	0.1	Both	Telemetric	SGWB

13	HR_GW_580	Dulana_31588	Dulana	Govt. Senior Seacondary School Dulana	28.25 86	76.1818	PZ	273	Unconfined To Semi-Confined	0.5	89	0.1	Both	Telemetric	SGWB
14	HR_GW_566	Garhi_31592	Garhi	Govt. primary school garhi	28.414 7	76.1165	PZ	246	Unconfined To Semi-Confined	0.5	74	0.1	Both	Telemetric	SGWB
15	HR_GW_567	Gulawala_245952	Gulawala	Govt. Middle school Gulawala	28.151 5	76.1135	PZ	293	Semi-Confined To Confined	0.5	130	0.1	Both	Telemetric	SGWB
16	HR_GW_568	Jhook_31598	Jhook	Govt girl middle school jhook	28.317 2	76.1786	PZ	262	Semi-Confined To Confined	0.5	108	0.1	Both	Telemetric	SGWB
17	HR_GW_584	Kothal Kalan_31609	Kothal Kalan	Govt. Senior Seacondary School Kothal Kalan	28.192 0	76.1663	PZ	282	Unconfined To Semi-Confined	0.5	53	0.1	WL	Telemetric	SGWB
18	HR_GW_585	Kothal khurd_31607	Kothal Khurd	Govt. middle school Kothal khurd	28.20 25	76.1771	PZ	287	Unconfined To Semi-Confined	0.5	58	0.1	WL	Telemetric	SGWB
19	HR_GW_586	Kuksi_31610	Kuksi	Govt. primary school Kuksi	28.167 3	76.1250	PZ	291	Unconfined To Semi-Confined	0.5	59.5	0.1	Both	Telemetric	SGWB
20	HR_GW_587	Majra Kalan_31614	Majra kalan	Govt. Middle School	28.30 44	76.1631	PZ	262	Unconfined To Semi-confined	0.5	107	0.1	Both	Telemetric	SGWB
21	HR_GW_589	Nanagwas_31619	Nanagwas	Govt. primary school Nanagwas	28.183 0	76.1724	PZ	284	Unconfined To Semi-Confined	0.5	55	0.1	Both	Telemetric	SGWB
22	HR_GW_590	Pali_31629	Pali	Govt. senior seacondary school pali	28.338 3	76.1323	PZ	259	Semi-Confined To Confined	0.5	92	0.1	Both	Telemetric	SGWB
23	HR_GW_574	Surjanwas_31557	Surjanwas	Govt. senior seacondary school surjanwas	28.24 82	76.208 4	PZ	275	Semi-Confined To Confined	0.5	59	0.1	Both	Manual	SGWB
24	Ban_29.909_76.732	Banana	Banana	Banana	29.90 9	76.7322	Tw	NA	Alluvium	NA	NA	NA	Both	Manual	CGWB
25	W281800076130001	Buchawas_31518	Buchawas	Buchawas	28.3	76.2167	Tw	NA	Alluvium	NA	NA	NA	WQ	Manual	CGWB
26	W281024076092301	Daroli Jat_31582	Deroli Ahir	Deroli Ahir	28.173	76.1564	HP	NA	Alluvium	1	NA	0.102	WQ	Manual	CGWB
27	W281355076101001	Paiga_31627	Jassawas	Jassawas	28.24 8	76.1414	Tw	282	Alluvium	0.95	NA	0.125	WQ	Manual	CGWB
28	Khe_28.376_76.233	Kheri_31537	Kheri Talwana	Kheri Talwana	28.38 2	76.23	STW	247	Alluvium	2.7	NA	1.57	WQ	Manual	CGWB

Note: Well Type: Dw (Dug well); BW (Bore well); TW (Tube well); Pz (Piezometer)

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

State	Haryana	District	Mahendragarh	Block	Mahendragarh
Month of Pre-monsoon Water Level Measurement					May/June

Month of Post-monsoon water Level measurement

October/November

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	Daroli Jat_31582	SGWB	DW	28.1753	76.1547	19.6	20.4	21.3	22.7	24.2	24.2	25.6	23.6	25.1	22.4	22.8	23.2	24.9	25.3	25.4	24.5	25.2	25.4	
2	Kothal khurd_31607	SGWB	DW	28.2045	76.1739	17.8	17.1	18.5	18.0	17.5	17.5	19.0	18.7	18.8	17.3	17.5	17.8	18.9	19.5	19.2	18.9	19.1	19.2	
3	Kurhawata_31611	SGWB	TW	28.3002	76.1006	49.2	49.7	50.5	51.5	52.0	52.0	60.0	59.5	61.5	60.0	60.5	61.0	62.5	63.0	68.0	67.0	68.0	68.5	
4	Nihalawas_31623	SGWB	TW	28.1764	76.1105	96.7	97.1	98.5	100.0	110.5	110.5	112.0	110.0	112.0	111.0	111.2	111.7	112.8	113.0	113.0	112.0	113.0	113.2	
5	Pali_31629	SGWB	TW	28.3346	76.132	34.3	34.3	34.8	35.5	35.8	35.8	37.5	37.2	39.0	38.0	38.5	39.0	39.5	40.0	40.0	39.5	41.0	42.0	
6	Bawana_31570	CGWB	PZ	28.3897	76.1778	48.7	50.0	51.8	51.3	52.7	53.8	55.3	56.1	NA	40.0	NA	NA	NA	NA	NA	Dry	Dry	Abandoned	Abandoned
7	Bassai_31569	SGWB	TW	28.4114	76.1743	26.7	29.1	30.5	29.8	30.3	30.3	32.8	32.5	34.3	33.3	33.7	34.1	35.1	35.3	35.3	34.8	39.9	39.2	
8	Bass Khudana_265058	SGWB	PZ	28.4295	76.1455	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	58.9	85.1	
9	Bassai_31569	SGWB	PZ	28.4119	76.1698	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.7	40.6	
10	Bawana_31570	SGWB	PZ	28.3707	76.1847	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	61.9	59.1	
11	Dewas_31583	SGWB	PZ	28.2409	76.1857	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	54.3	53.8	
12	Dholi_31586	SGWB	PZ	28.3535	76.1183	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	67.8	62.5	
13	Dulana_31588	SGWB	PZ	28.2586	76.1818	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80.9	80.7	
14	Garhi_31592	SGWB	PZ	28.4147	76.1165	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.0	38.2	
15	Gulawala_245952	SGWB	PZ	28.1515	76.1135	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	45.0	44.4	
16	Jhook_31598	SGWB	PZ	28.3172	76.1786	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	82.5	81.9	
17	Kothal Kalan_31609	SGWB	PZ	28.192	76.1663	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26.1	24.7	
18	Kothal khurd_31607	SGWB	PZ	28.2025	76.1771	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	44.5	42.0	
19	Kuksi_31610	SGWB	PZ	28.1673	76.125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	38.6	38.6	

		B																					
20	Majra Kalan 31614	SGWB	PZ	28.3044	76.1631	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	91.5	92.8
21	Nanagwas_31619	SGWB	PZ	28.183	76.1724	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17.9	17.7
22	Pali_31629	SGWB	PZ	28.3383	76.1323	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	62.9	61.7
23	Surjanwas_31557	SGWB	PZ	28.2482	76.2084	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	43.2	43.5

Note: Well Type: Dw (Dug well); BW (Bore well); TW (Tube well); Pz (Piezometer)

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

State	Haryana	District	Mahendragarh										Block	Mahendragarh				
Month of Collection of sample for WQ monitoring*													June					

Village	Source	Type of well	Latitude	Longitude	Year	pH	EC	TDS	TH	Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	F	NO ₃	
Banana	CGWB	Tw	29.90916667	76.73222222	2015	8.25	1667	ND	166.0	35.6	19.0	335.0	6.5	0.0	312.0	207.0	302.0	0.70	47.00	
Banana	CGWB	Tw	29.90916667	76.73222222	2016	7.62	1885	ND	209.0	48.0	21.0	321.0	6.0	0.0	294.0	152.0	328.0	0.50	68.00	
Banana	CGWB	Tw	29.90916667	76.73222222	2017	8.35	901	ND	250.0	42.0	35.0	105.0	3.4	24.0	159.0	212.0	63.0	0.10	1.00	
Banana	CGWB	Tw	29.90916667	76.73222222	2018	Sample not collected from this location														
Banana	CGWB	Tw	29.90916667	76.73222222	2019	8.06	3490	ND	760.0	156.0	90.0	458.0	11.0	0.0	268.0	81.0	982.0	0.30	74.00	
Banana	CGWB	Tw	29.90916667	76.73222222	2020	Sample not collected from this location														
Banana	CGWB	Tw	29.90916667	76.73222222	2021	Sample not collected from this location														
Banana	CGWB	Tw	29.90916667	76.73222222	2022	Sample not collected from this location														
Banana	CGWB	Tw	29.90916667	76.73222222	2023	Sample not collected from this location														
Buchawas	CGWB	Tw	28.3	76.21666667	2015	8.02	4360	ND	644.0	89.0	103.0	800.0	6.5	0.0	351.0	684.0	708.0	0.56	432.00	
Buchawas	CGWB	Tw	28.3	76.21666667	2016	8.13	3487	ND	418.0	35.0	80.0	617.0	4.5	0.0	233.0	353.0	677.0	0.51	298.00	
Buchawas	CGWB	Tw	28.3	76.21666667	2017	8.05	1663	ND	822.0	37.0	177.0	46.0	5.0	0.0	244.0	336.0	253.0	1.49	11.00	
Buchawas	CGWB	Tw	28.3	76.21666667	2018	7.87	5170	ND	1301.0	168.0	214.0	595.0	3.6	0.0	354.0	1201.0	730.0	0.15	29.00	
Buchawas	CGWB	Tw	28.3	76.21666667	2019	Sample not collected from this location														
Buchawas	CGWB	Tw	28.3	76.21666667	2020	8.18	3610	ND	410.3	44.1	73.0	672.0	2.7	0.0	366.1	0.0	836.6	0.00	0.49	
Buchawas	CGWB	Tw	28.3	76.21666667	2021	8.44	3692	ND	443.3	41.3	82.7	660.0	2.5	46.8	174.5	291.0	893.3	0.69	28.00	
Buchawas	CGWB	Tw	28.3	76.21666667	2022	8.32	2951	ND	230.0	32.0	36.0	570.0	7.0	62.0	317.0	1.9	724.0	1.20	110.00	
Buchawas	CGWB	Tw	28.3	76.21666667	2023	8.13	304	ND	120.0	36.0	7.3	24.5	3.7	0.0	146.4	0.0	35.5	0.44	1.55	
Deroli Ahir	CGWB	Hp	28.17333333	76.15638889	2015	8.55	414	ND	144.0	26.7	19.0	45.0	0.6	6.5	215.0	30.0	13.7	0.46	1.09	
Deroli Ahir	CGWB	Hp	28.17333333	76.15638889	2016	8.67	458	ND	209.0	26.0	35.0	30.0	0.5	36.0	159.0	27.0	28.0	0.57	7.00	
Deroli Ahir	CGWB	Hp	28.17333333	76.15638889	2017	7.56	5920	ND	1571.0	104.0	318.0	757.0	7.0	0.0	342.0	790.0	1271.0	0.74	392.00	
Deroli Ahir	CGWB	Hp	28.17333333	76.15638889	2018	8.54	663	ND	258.0	27.0	46.0	64.0	1.0	13.0	341.0	44.0	21.0	1.14	19.00	
Deroli Ahir	CGWB	Hp	28.17333333	76.15638889	2019	8.8	580	ND	220.0	12.0	46.0	70.7	2.7	72.0	183.0	6.7	56.0	1.96	14.00	
Deroli Ahir	CGWB	Hp	28.17333333	76.15638889	2020	8.56	606	ND	220.2	28.1	36.5	44.0	1.0	36.0	256.3	0.0	14.2	1.61	14.00	

Deroli Ahir	CGWB	Hp	28.17333333	76.15638889	2021	8.8	535	ND	185.5	16.5	35.1	61.0	0.8	78.0	206.2	0.0	14.2	2.41	8.50
Deroli Ahir	CGWB	Hp	28.17333333	76.15638889	2022	8.52	606	ND	180.0	20.0	32.0	60.0	2.0	50.0	178.0	12.0	28.0	2.70	21.00
Deroli Ahir	CGWB	Hp	28.17333333	76.15638889	2023	8.44	830	ND	210.0	32.0	31.6	120.0	1.0	48.0	378.2	0.0	35.5	2.20	12.23
Jassawas	CGWB	Tw	28.2475	76.14138889	2015	8.48	877	ND	55.0	13.3	5.0	212.0	2.5	6.5	390.0	72.0	55.0	1.83	19.00
Jassawas	CGWB	Tw	28.2475	76.14138889	2016	8.96	952	ND	66.0	22.0	2.7	185.0	2.2	60.0	344.0	BDL	63.0	0.43	19.00
Jassawas	CGWB	Tw	28.2475	76.14138889	2017	8.27	1991	ND	635.0	79.0	106.0	250.0	2.1	0.0	305.0	356.0	309.0	0.85	143.00
Jassawas	CGWB	Tw	28.2475	76.14138889	2018	8.62	936	ND	86.0	22.0	7.8	189.0	1.9	26.0	420.0	4.0	69.0	1.24	15.00
Jassawas	CGWB	Tw	28.2475	76.14138889	2019	8.45	2340	ND	650.0	44.0	131.0	290.0	9.0	60.0	159.0	218.0	574.0	0.81	0.20
Jassawas	CGWB	Tw	28.2475	76.14138889	2020	8.34	2510	ND	280.2	36.1	46.2	472.0	4.2	24.0	219.7	271.0	538.8	0.90	0.61
Jassawas	CGWB	Tw	28.2475	76.14138889	2021	8.87	1230	ND	113.4	8.3	22.5	245.0	2.1	109.2	317.3	0.0	156.0	2.30	7.20
Jassawas	CGWB	Tw	28.2475	76.14138889	2022	8.26	2140	ND	290.0	28.0	54.0	352.0	12.0	0.0	368.0	127.0	432.0	1.30	0.50
Jassawas	CGWB	Tw	28.2475	76.14138889	2023	8.03	1700	ND	270.0	52.0	34.0	260.0	3.2	0.0	451.4	0.0	319.5	1.40	9.47
Kheri Talwana	CGWB	STW	28.3765	76.2336	2015	8.63	2110	ND	67.0	13.0	8.4	522.0	6.8	48.0	752.0	204.0	165.0	11.50	13.83
Kheri Talwana	CGWB	STW	28.3765	76.2336	2016	8.78	1911	ND	44.0	8.8	5.4	422.0	1.5	97.0	552.0	97.0	147.0	5.43	12.70
Kheri Talwana	CGWB	STW	28.3765	76.2336	2017	8.31	2811	ND	323.0	33.0	58.0	535.0	5.0	60.0	671.0	200.0	400.0	11.61	42.00
Kheri Talwana	CGWB	STW	28.3765	76.2336	2018	8.55	1677	ND	129.0	22.0	18.0	356.0	1.3	52.0	630.0	42.0	167.0	2.09	15.00
Kheri Talwana	CGWB	STW	28.3765	76.2336	2019	8.36	2960	ND	620.0	56.0	117.0	432.0	18.0	36.0	146.0	213.0	822.0	0.47	15.00
Kheri Talwana	CGWB	STW	28.3765	76.2336	2020	Sample not collected from this location													
Kheri Talwana	CGWB	STW	28.3765	76.2336	2021	8.94	1440	ND	82.5	8.3	15.0	315.0	5.2	140.4	507.7	0.0	99.3	4.68	4.80
Kheri Talwana	CGWB	STW	28.3765	76.2336	2022	8.58	792	ND	90.0	8.0	17.0	142.0	2.0	62.0	305.0	4.8	21.0	4.00	6.00
Kheri Talwana	CGWB	STW	28.3765	76.2336	2023	8.39	1502	ND	350.0	40.0	60.0	195.0	2.0	36.0	354.0	84.0	220.0	1.80	1.00
Bawana_31570	SGWB	Pz	28.370696	76.184668	2023	7.56	2250	1350	429.25	128.18	26.51	348.65	38.12	0	273.7	109.93	475.03	2.03	57.15
Pali_31629	SGWB	Pz	28.338314	76.132346	2023	7.56	3270	2270	950	320	38.63	355	180	0	1070	108	580	0.75	40
Kuksi_31610	SGWB	Pz	28.167323	76.12503	2023	7.59	1102	650.18	217.09	74.94	7.28	156.14	17.07	0	172.55	49.22	211.39	1.27	25.59
Dulana_31588	SGWB	Pz	28.258563	76.181809	2023	7.81	942	584.04	197.36	67.05	7.27	137.88	15.08	0	166.6	43.47	187.64	1.36	22.59
Dewas_31583	SGWB	Pz	28.240883	76.185694	2023	7.82	1090	686.7	217.09	70.99	9.67	169.96	18.58	0	166.6	53.56	230.39	1.16	27.86
Surjanwas_31557	SGWB	Pz	28.248196	76.208423	2023	7.85	2230	1404.9	345.38	106.49	19.3	387.4	42.36	0	220.15	122.14	522.53	1.94	63.5
Majra Kalan_31614	SGWB	Pz	28.304447	76.163081	2023	8.18	1250	787.5	207.23	69.02	8.47	214.14	23.41	0	124.95	67.45	285.02	1.48	35.09
Jhook_31598	SGWB	Pz	28.317234	76.178616	2023	8.29	1610	949.9	286.17	90.71	14.49	248.67	27.19	0	178.5	78.42	332.52	1.61	40.76
Nanagwas_31619	SGWB	Pz	28.18296	76.172427	2023	8.55	2990	1794	542.73	197.2	12.22	455.37	49.79	32	345.1	143.56	617.54	2.31	74.65
Dholi_31586	SGWB	Pz	28.353488	76.118301	2023	7.25	4930	3228	1360	450	55.18	505	260	0	1520	152	830	2.45	55

Gulawala_245952	SGWB	Pz	28.151484	76.113459	2023	7.34	7610	4598	660	210	31.67	1950	370	0	520	32	3960	2.27	20
Garhi_31592	SGWB	Pz	28.414703	76.11648	2023	7.42	12460	7026	2940	930	150	1070	200	0	2760	420	1920	1.82	0
Bassai_31569	SGWB	Pz	28.411871	76.169818	2023	7.53	4580	2880	1190	370	60	440	80	0	1110	170	760	2.77	0
Bass Khudana_265058	SGWB	Pz	28.429548	76.145476	2023	7.94	2210	1524	640	210	26.21	240	120	0	720	72	390	1.2	25

Name of District	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
Mahendragarh_69	Mahendragarh_524	SGWB	Bassai	28.37622	76.26533	3000	3000	2800	2700
Mahendragarh_69	Mahendragarh_524	SGWB	Deroli Jat	28.36357	76.31415	1900	1900	2200	2100
Mahendragarh_69	Mahendragarh_524	SGWB	Kothal Khurd	28.33309	76.30099	4900	3900	3500	3300
Mahendragarh_69	Mahendragarh_524	SGWB	Nihalawas	28.35863	76.24836	2300	2500	2400	2700
Mahendragarh_69	Mahendragarh_524	SGWB	Pali	28.33289	76.30548	2700	2700	2800	2800
Mahendragarh_69	Mahendragarh_524	SGWB	Kurahwata	28.29155	76.27995	3000	2900	2600	2600
Mahendragarh_69	Mahendragarh_524	SGWB	Palri	28.2879	76.22135	3100	3000	2800	2800
Mahendragarh_69	Mahendragarh_524	SGWB	Bawana_31570	28.3707	76.18467	NA	NA	NA	2250
Mahendragarh_69	Mahendragarh_524	SGWB	Pali_31629	28.33831	76.13235	NA	NA	NA	3270
Mahendragarh_69	Mahendragarh_524	SGWB	Kuksi_31610	28.16732	76.12503	NA	NA	NA	1102
Mahendragarh_69	Mahendragarh_524	SGWB	Dulana_31588	28.25856	76.18181	NA	NA	NA	942
Mahendragarh_69	Mahendragarh_524	SGWB	Dewas_31583	28.24088	76.18569	NA	NA	NA	1090
Mahendragarh_69	Mahendragarh_524	SGWB	Surjanwas_31557	28.2482	76.20842	NA	NA	NA	2230
Mahendragarh_69	Mahendragarh_524	SGWB	Majra Kalan_31614	28.30445	76.16308	NA	NA	NA	1250
Mahendragarh_69	Mahendragarh_524	SGWB	Jhook_31598	28.31723	76.17862	NA	NA	NA	1610
Mahendragarh_69	Mahendragarh_524	SGWB	Nanagwas_31619	28.18296	76.17243	NA	NA	NA	2990
Mahendragarh_69	Mahendragarh_524	SGWB	Dholi_31586	28.35349	76.1183	NA	NA	NA	4930
Mahendragarh_69	Mahendragarh_524	SGWB	Gulawala_245952	28.15148	76.11346	NA	NA	NA	7610
Mahendragarh_69	Mahendragarh_524	SGWB	Garhi_31592	28.4147	76.11648	NA	NA	NA	12460
Mahendragarh_69	Mahendragarh_524	SGWB	Bassai_31569	28.41187	76.16982	NA	NA	NA	4580
Mahendragarh_69	Mahendragarh_524	SGWB	Bass Khudana_265058	28.42955	76.14548	NA	NA	NA	2210