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MINISTRY OF JAL SHAKTI
DEPARTMENT OF WATER RESOURCES
RIVER DEVELOPMENT & GANGA REJUVENATION
CENTRAL GROUND WATER BOARD

GROUND WATER QUALITY IN SHALLOW AQUIFER OF UTTAR PRADESH

(AAP 2023-24)

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CHEMICAL QUALITY OF GROUND WATER OF U.P.
(Based on NHS data 2023-24)

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1. INTRODUCTION

The availability of fresh water for human consumption, irrigation, agricultural development and other activities is associated with the growing needs of modern living conditions but is decreasing day by day due to increase in population, urbanization, industrialization and erratic behavior of rains. To meet the requirement of fresh water, the dependency on ground water is increasing in comparison to surface water because during summer season most of the surface water bodies do not have sufficient water, while ground water is easily accessible throughout the year.

The quality of groundwater is affected in three ways i.e. physical, chemical and bacteriological, although the procedure is very slow and complex to understand. The quality of ground water in the phreatic aquifer depends on the nature of rocks, contact time, circulation and temperature. It is also dependent on the solubility of the minerals present in the rocks. To some extentthe atmospheric precipitation (rain water) is also contributory factor for affecting the quality of ground water as during the rain fall most of the gases such as CO_2, SO_2 and NO_2 present in the atmosphere gets dissolved in the rain water during the course of downward travel and percolate downthrough the earth surface dissolving mainly calcium and magnesium present in the soil forming calcium bicarbonate. The pH plays an important role in the geochemical reactions as low pH tends to help faster dissolution of the minerals. The quality of ground water is also influenced by the excessive use of fertilizers and pesticides for agricultural production and also industrial activity.

Ground water due to its long standing with minerals and rocks is generally more mineralized than surface water. This was found to be confirmed largely for water in phreatic zones. The chemical quality of ground water in phreatic zones is also affected by anthropogenic sources at the ground surface, whether it is domestic, agriculture or industrial in nature.

2. METHODOLOGY

To evaluate the drinking water quality of ground water, 1386 nos. of ground water samples for basic analysis and 1392 nos. of ground water samples for Heavy Metal analysis were collected from Ground Water Monitoring Stations (GWMS) during the A.A.P. 2023-24. Generally, the monitoring stations are open dug wells tapping phreatic aquifer. Ground water samples were collected from hand pumps where dug wells are not in use. All the samples were analyzed for the determination of pH, EC, CO_3, HCO_3, Cl, F, NO_3, SO_4, PO_4, SiO_2, T.H., Ca, Mg, Na & K. These water samples were analyzed as per standard methods (APHA 2017). Following standard methods (Table-1) have been adopted for the chemical analysis of different constituents in water samples.

Table 1: Methods used for Chemical Analysis of Ground Water Samples (2023-24)

S. No.	Constituents	Method Used
1.	pH	pH Meter
2.	EC	EC Meter
3.	Carbonate	Titrimetric method
4.	Bi-carbonate	-do-
5.	Chloride	Mohr's method
6.	Fluoride	Spectrophotometric method
7.	Nitrate	-do-
8.	Sulphate	-do-
9.	Phosphate	-do-
10.	Silica	-do-
11.	Total Hardness	Titrimetric method
12.	Calcium	-do-
13.	Magnesium	Evaluation from TH and Ca
14.	Sodium	Flame emission photometric method
15.	Potassium	-do-

3. WATER QUALITY NORMS & CRITERIA

Water quality standards and guidelines have been laid down by WHO (1984), Govt. of India, National High Tech Mission (1986) and BIS (2012) and many other organizations. These guidelines are exhaustive and it becomes very difficult to analyse ground water samples for all the constituents. The water quality is judged by a common man mainly by ENT (Eyes, nose and tongue) tests before using it for domestic purposes. They are-

E (Eyes): Appearance - turbidity, particles, oily layer, color etc.

N (Nose): Odor - no smell, rotten egg smell, fishy smell etc.

T (Tongue): Taste - salinity, pH, temperature, soluble iron chloride etc.

The guidelines/standards laid down by BIS (2012) with regard to some constituents for domestic and potable purposes have been tabulated below in the Table 2:

Table 2: Indian Standard for Drinking Water Specifications (BIS 2012)

S. No.	Substance/ Characteristics	Desirable limit	Undesirable effect outsidedesirable limit	Permissible limit in absenceof alternate Source
1	2	3	4	5
1.	Colour (Hazen Units)	5	Above 5, consumer acceptance decreases	25
2.	Turbidity (NTU)	5	Above 5, consumer acceptance decreases	10
3.	pH value	6.5-8.5	Beyond this range water will effect mucous membrane.	No relaxation
4.	Dissolved solids mg/l max	500	Beyond this palatability decreases and may cause gastrointestinal irritation	2000
5.	Alkalinity mg/l max	200	Unpleasant taste	600

S. No.	Substance/ Characteristics	Desirable limit	Undesirable effect outside desirable limit	Permissible limit in absence of alternate source
1	2	3	4	5
6.	Total hardness (as CaCO3) mg/l max	300	Encrustation in water supply, structure and adverse effect on domestic use.	600
7.	Chloride (as CI) mg/l max	250	Beyond this limit taste corrosion and palatability are effected	1000
8.	Calcium (as Ca) mg/l max	75	Encrustation in water supply structure and adverse effect on domestic use.	200
9.	Magnesium (as Mg) mg/l max	30	Encrustation in water supply structure and adverse effect on domestic use.	100
10.	Sulphate (as SO4) mg/l max	200	Beyond this limit gastrointestinal irritation occurs when Magnesium of sodium is present	400
11.	Nitrate (as NO3) mg/l max	45	Beyond this Methaemoglobinaemia takes place	45
12.	Fluoride (as F) mg/l max	1.0	Fluoride may be kept as low as possible. High fluoride may cause fluorosis	1.5

4. CHEMICAL QUALITY OF GROUND WATER IN UTTAR PRADESH

The chemical quality of ground water depends on various factors like source of water such as rainfall,erosion, dry fall out, weathering of rocks and as a result of chemical reactions taking place on and below the surface. Thus, the chemical quality of water is dependent on geological and hydro geological conditions prevailing in the area, climate, topography, nature of soil, physicochemical characteristics of rocks, nature of plantation and finally the activities of man resulting in environmental pollution. The pollution of ground water may lead to abandonment of wells, so inorder to deal with this problem it becomes necessary to assess its suitability for drinking and irrigation purpose before corrective measures are undertaken.

4.1 SUITABILITY OF GROUND WATER FOR POTABLE PURPOSES

The suitability of ground water for drinking purposes has been assessed according to the guidelines laid down by BIS (2012), Table -2 for various analysed parameters. The chemical analysis results for 1386 nos. of samples collected from GW monitoring Stations spread in entire Uttar Pradesh have been tabulated in Annexure A.

The minimum, maximum and average values of various constituents determined during chemical analysis have been summarized in following Table-3 and 4 below:

Table : 3 Minimum, maximum and average values of Ground Water basic parameters in Uttar Pradesh (an overview) Pre – Monsoon and Post-monsoon (2023-24)

S. No.	Parameters	Pre - Monsoon			Post - Monsoon		
		Minimum	Maximum	Average	Minimum	Maximum	Average
1.	pH	6.50	8.96	7.91	7.03	8.68	7.95
2.	EC µS/cm at 25 ºC	148	34180	962	309	36920	1483
3.	CO_3 mg/l	0	132	1.36	0	96	2
4.	HCO_3 mg/l	49	2428	375	134	1147	444
5.	Cl mg/l	3.54	5672	74	7	9536	160
6.	F mg/l	0	8.2	0.64	0.00	7.00	0.67
7.	NO_3 mg/l	0	730	16.3	0	860	29
8.	SO_4 mg/l	0	5981	55	0.00	3200	109
9.	PO_4 mg/l	0	1.86	0.005	0.0	0.5	0.0
10.	TH (as $CaCO_3$) mg/l	20	4400	291	50	4910	407
11.	Ca mg/l	4	524	54.68	8	540	75
12.	Mg mg/l	0	742	37	2	854	53
13.	Na mg/l	0	4240	89.29	0	3911	143
14.	K mg/l	0	2895	7.8	0	2748	17
15	SiO_2 mg/l	8	72	28	5.0	63.0	27.2

Hydrogen Ion Concentration (pH):

Pre-monsoon: The pH value of ground water in the state of U.P. varies from 6.50 to 8.96 and is generally wellwithin the permissible limit and the water is slightly alkaline in nature. The average pH value has been found to be 7.91.

Post-monsoon: The pH value of ground water in the state of U.P. varies from 7.03 to 8.68 and is generally well within the permissible limit and the water is slightly alkaline in nature. The average pH value has been found to be 7.95.

Carbonate & Bicarbonate (CO_3 & HCO_3):

Pre-monsoon: The Carbonate has been observed to be nil in most of the cases however it has been found up to132 mg/l & Bicarbonate has been observed in the range of 49 to 2428

mg/l with average value of 375 mg /l.

Post-monsoon: The Carbonate has been observed to be nil in most of the cases however it has been found upto 96 mg/l & Bicarbonate has been observed in the range of 134 to 1147 mg/l with average value of 444 mg/l.

Electrical Conductivity (EC):

Pre-monsoon

The Electrical Conductivity is a reflection of the concentration of various chemical constituents in ground water and gives the overall quality of ground water for its various uses like drinking, irrigation and other purposes. In the study area EC value varied from 148 to 34180 µSiemens/cm at 25ºC, with an average value of 962 µSiemens/cm at 25ºC. The E.C. value was observed in the range of 0-500 in 228 samples, 501-2000 in 1088 samples and >2000 in 70 samples. In 16.45% of samples E.C. ranges between 0 to 500 µS/cm, 78.50% of samples E.C. ranges between 501 to 2000 µS/cm whereas 5.05% samples are found to have E.C. value more than 2000 µS/cm at 25ºC. The highest value of E.C. 34180 µS/cm at 25ºC was observed in ground water from Nandgaon block of Mathura district. The frequency distribution is shown in the following table:

EC ranges in µS/cm at 25ºC	**0-750**	**750 – 3000**	**> 3000**
No. of samples	9	710	612
%	0.65%	51.23%	44.15%

Table 4: Frequency distribution of Electrical Conductivity (2023-24) (Pre-monsoon)

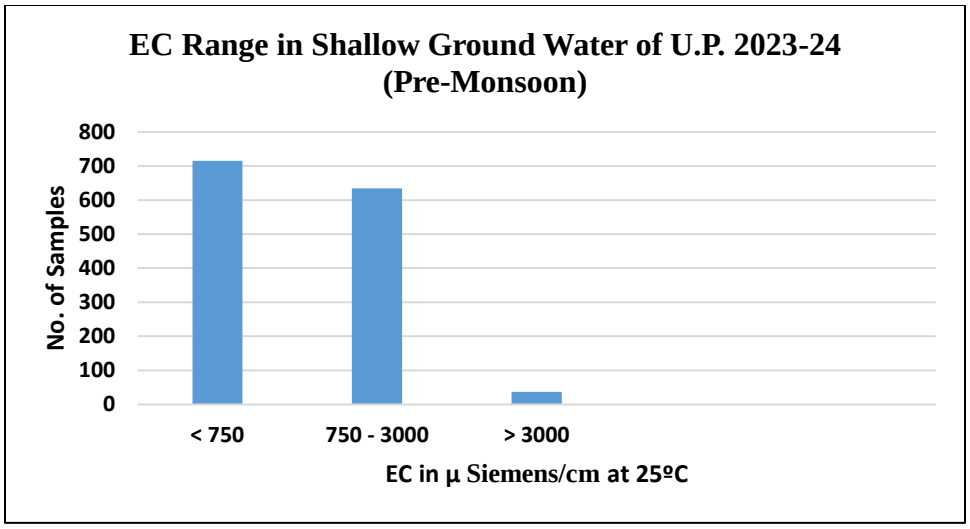


Figure-2 Depicts the range of Electrical Conductivity in shallow ground water of U.P. (2023-24) (Pre- monsoon)

The various partly affected blocks exhibiting high values of E.C. (>2250 µS/cm at 25°C) are tabulated in following table below-

Table 5: The partly affected blocks exhibiting high values of E.C. (>2250 µS/cm at 25°C µS/cm) (2023-24) Pre-monsoon

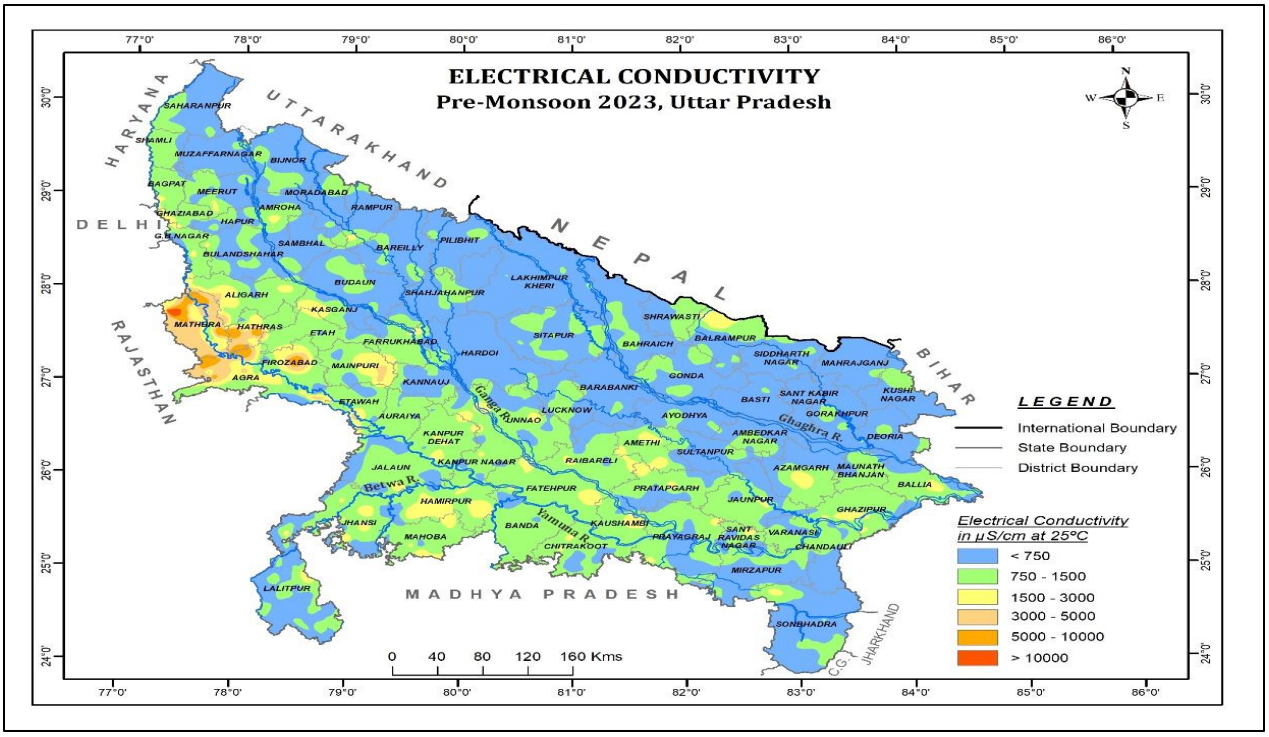
S.No.	District	Block	Location	Latitude	Longitude	EC µS/cm at 25°C
1	Agra	Achhnera	Block office	27.1774416	77.7461833	5850
2	Agra	Achhnera	Raunakata	27.234128	77.873401	4923
3	Agra	Barauli Ahir	Block office	27.1206183	78.0601416	3345
4	Agra	Bichpuri	Block office	27.1726516	77.8918783	3220
5	Agra	Fatehabad	Block office	27.0297416	78.2961783	2568
6	Agra	Fatehpur Sikri	Block office	27.094235	77.6678266	4927
7	Agra	Fatehpur Sikri	Hiraman	27.035043	77.782539	5614
8	Agra	Jaitpur Kalan	Near BDO Office	25.4297	82.8061	3790
9	Agra	Khandauli	Block office	27.316462	78.029605	6881
10	Aligarh	Gonda	Block H.Q.	27.8367	77.8796	3662
11	Aligarh	Khair	Block H.Q.	27.9435	77.8364	2982

S.No.	District	Block	Location	Latitude	Longitude	EC µS/cm at 25°C
12	Aligarh	Gonda	Dayapur	27.647955	77.869034	4094
13	Amethi	Amethi	PWD Dak Bangla	26.156183	81.808595	3083
14	Azamgarh	Mohammadpur	Block Office	25.96242	83.027664	2256
15	Ballia	Bansdeeh	Block Office	25.874385	84.216422	2612
16	Balrampur	Harraya Satgawa	Haraiya Bazar	27.65591	82.27939	2686
17	Etawah	Barhpura	KaneshiGhar	26.62983	79.05615	3397
18	Firozabad	Hathwant	Block Office	27.22911	78.50407	6175
19	Firozabad	Narkhi	Block Office	27.2903566	78.40702	2302
20	G.B. Nagar	Jewar	Bhagwantpur Chhatanga	28.10811958	77.53917407	4416
21	Ghaziabad	Gaziabad Urban	Jal Kal Vibhag	28.68472	77.34354	2976
22	Ghaziabad	Gaziabad Urban		28.65206	77.41092	3032
23	Ghaziabad	Gaziabad Urban		28.62919	77.41376	2490
24	Ghaziabad	Gaziabad Urban		28.63684	77.45571	2720
25	Ghazipur	Ghazipur	Block Office	25.5677	83.560249	3119
26	Hamirpur	Maudaha	Urdana	25.622755	80.175777	2304
27	Hamirpur	Rath	Rath	25.59875	79.576894	3012
28	Hathras	Mursan	Block H.Q.	27.5684	77.9411	3725
29	Hathras	Sadabad	Block H.Q.	27.4466	78.0401	3678
30	Hathras	Sasni	Block H.Q.	27.6911	78.0741	2403
31	Hathras	Mursan	Aharai	27.527505	77.951201	9128
32	Hathras	Hathras	Mohari	27.649441	78.153107	2730
33	Hathras	Hathras	Singhal	27.521711	78.159912	6105
34	Jhansi	Bamaur	Block Campus	25.61314	79.18572	2390
35	Kanshiram Nagar (Kasganj)	Kasganj	Block Office	27.8179033	78.6561483	2631
36	Lalitpur	Bar	Kathwar	24.88333333	78.66166667	2338
37	Mainpuri	Jageer	Block Office	27.61766	77.94871	2265

S.No.	District	Block	Location	Latitude	Longitude	EC µS/cm at 25°C
38	Mainpuri	Kishni	Block office	27.0316016	79.2655516	3252
39	Mainpuri	Bewar	Bara	27.150012	79.297515	3157
40	Mathura	Chaumuhan	Block HQ	27.6208	77.5793	3675
41	Mathura	Chhata	Block HQ	27.7262	77.5008	7482
42	Mathura	Mant	Block HQ	27.6307	77.7161	2977
43	Mathura	Nandgaon	Block HQ	27.7165	77.3848	34180
44	Mathura	Nohjhil	Block HQ	27.84639	77.649933	5541
45	Mathura	Raya	Block HQ	27.5495	77.7848	4677
46	Mathura	Chhata	Ajnokh	27.673405	77.410453	7471
47	Mathura	Raya	Gaiyara	27.589035	77.798904	4581
48	Mathura	Raya	Nagla Karan	27.532469	77.828239	7425
49	Mathura	Chhata	Umaraya	27.665401	77.474174	9220
50	Mathura	Nandgaon	Kamai	27.632364	77.433594	3583
51	Mathura	Nohjhil	Surir	27.76873	77.720688	4805
52	Mathura	Chhata	Jatwari	27.573875	77.573875	4356
53	Mathura	Nohjhil	Nankpur Khader	27.894485	77.579605	6621
54	Unnao	Nawabganj	Block office	26.621054	80.675904	2254
55	Unnao	Fatehpur Chaurasi	Daboli	26.73416667	80.20527778	3230

The map showing Electrical conductivity concentration in the state of Uttar Pradesh is represented in

Figure-3



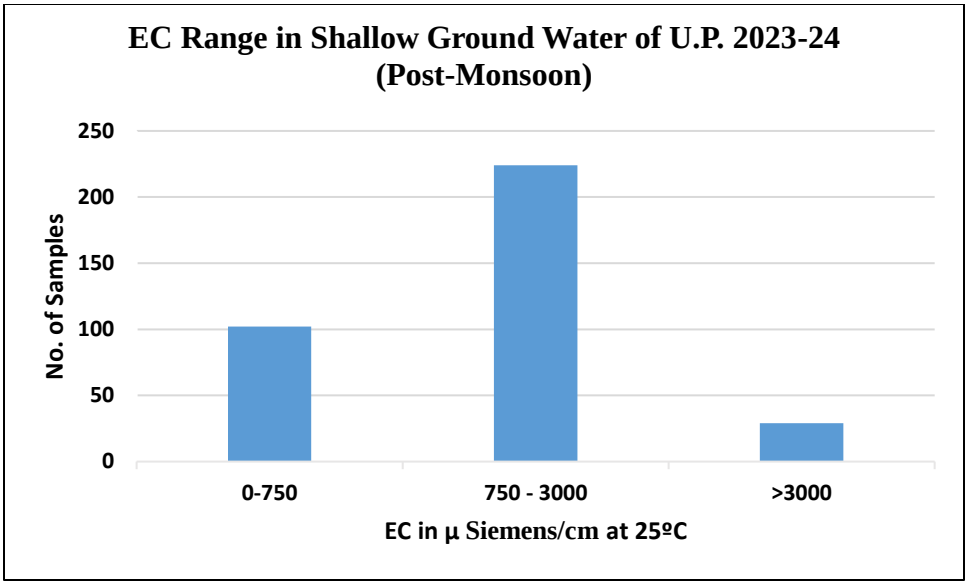
Post-monsoon

Electrical Conductivity is a reflection of the concentration of various chemical constituents in ground water and gives the over all quality of ground water for its various uses like drinking, irrigation and other purposes. In the study area EC value varied from 309 to 36920 µSiemens/cm at 25ºC with an average value of 1483 µSiemens/cm at 25ºC. The E.C. value was observed in the range of 0-500 in 28 samples, 501-2000 in 278 samples and >2000 in 49 samples. In 7.89% of samples E.C. ranges between 0 to 500 µS/cm, 78.32% of samples E.C. ranges between 501 to 2000 µS/cm whereas 13.80% samples are found to have E.C. value more than 2000 µS/cm at 25ºC. The highest value of E.C. 36920 µS/cm at 25ºC was observed in ground water from Nandgaon block of Mathura district.

Table 6: Frequency distribution of Electrical Conductivity (2023-24) (Post-monsoon)

EC ranges in µS/cm at 25ºC	0-750	750 - 3000	>3000
No. of samples	102	224	29
%	28.73%	63.09%	8.16%

Fig. 4 Depicts the range of Electrical Conductivity in shallow ground water of U.P. (2023-24) (Post- monsoon)



The various partly affected blocks exhibiting high values of E.C. (>2250µS/cmat25°C) are tabulated in following table below-

Table 7: The partly affected blocks exhibiting high values of E.C. (>2250 µS/cm at 25°C) (2023-24) Post-monsoon

S. No.	District	Block	Location	Latitude	Longitude	Ec µs/Cm At 25°C
1	Agra	Achhnera	Block H.Q	27.17744	77.74618	6207
2	Agra	Agra	City (Sai Ki Takia Crossing)	27.17066	78.00954	9813
3	Agra	Bichpuri	Block H.Q	27.17265	77.89188	3393
4	Agra	Fatehabad	Block H.Q	27.02974	78.29618	3135
5	Agra	Fatehpur Sikri	Block H.Q	27.09424	77.66783	2855
6	Agra	Jagner	Block H.Q	26.86657	77.60168	6416
7	Agra	Khandauli	Block H.Q	27.31646	78.02961	3910
8	Agra	Kheragarh	Block H.Q	26.95524	77.82219	6429
9	Agra	Saiyan	Block H.Q	26.93603	77.93505	2615
10	Aligarh	Gonda	Block H.Q.	27.83670	77.87960	3597
11	Aligarh	Khair	Block H.Q.	27.94350	77.83640	3104
12	Amethi	Amethi	P.W.D. Dak Bangla	26.15618	81.8086	3129
13	Baghpat	Baghpat	In Block Office	28.94399	77.22007	2904
14	Etah	Jalesar	Block H.Q	27.47980	78.30629	3700
15	Fatehpur	Malwan	Block H.Q	26.03640	80.70700	3009
16	Firozabad	Firozabad	Block H.Q	27.16539	78.37906	3317

S. No.	District	Block	Location	Latitude	Longitude	Ec µs/Cm At 25°C
17	Firozabad	Hathwant	Block H.Q	27.22911	78.50407	3456
18	Firozabad	Narkhi	Block H.Q	27.29036	78.40702	15190
19	Hamirpur	Rath	Block H.Q	25.59875°	79.576894°	2400
20	Hamirpur	Maudaha	Block H.Q	25.687558°	80.096145°	2500
21	Hathras	Hathras	District H.Q.	27.57300	78.05510	3079
22	Hathras	Mursan	Block H.Q.	27.56827	77.94061	3572
23	Hathras	Sadabad	Block H.Q.	27.44660	78.04010	3391
24	Hathras	Sasni	Block H.Q.	27.69110	78.07410	2553
25	Jhansi	Bamaur	Block H.Q.	25.61314	79.18572	2427
26	Jhansi	Gursarai	Block H.Q.	25.61314	79.18572	3482
27	Kanpur Nagar	Shivrajpur	Block H.Q	26.68626	80.14051	2390
28	Kaushambi	Kara	Block H.Q	25.69530	81.35950	2305
29	Kaushambi	Muratganj	Block H.Q	25.55500	81.53850	2827
30	Mahoba	Charkhari	Block H.Q	25.392567°	79.747925°	2396
31	Mainpuri	Kishni	Block H.Q	27.03170	79.26637	2576
32	Mathura	Baldeo	Block H.Q	27.41192	77.82017	2349
33	Mathura	Chaumuhan	Block H.Q	27.62046	77.57940	5087
34	Mathura	Chhata	Block H.Q	27.71440	77.50632	9054
35	Mathura	Mant	Block H.Q	27.63086	77.71633	3330
36	Mathura	Nandgaon	Block H.Q	27.71650	77.38480	36920
37	Mathura	Nohjhil	Block H.Q	27.84649	77.65005	8879
38	Mathura	Raya	Block H.Q	27.54950	77.78480	5198
39	Mathura	Farah	Block H.Q	27.32443	77.75857	9761
40	Mathura	Mathura	Block H.Q	27.47158	77.69429	2496
41	Mathura	Govardhan	Block H.Q	27.49198	77.47517	4344
42	Shamli	Kandhala	In Block Office	29.32300	77.26654	3533
43	Unnao	Asoha	Block H.Q.	26.58735	80.82995	4148

The map showing Electrical conductivity concentration in the state of Uttar Pradesh is represented in Fig.4:

Figure 5

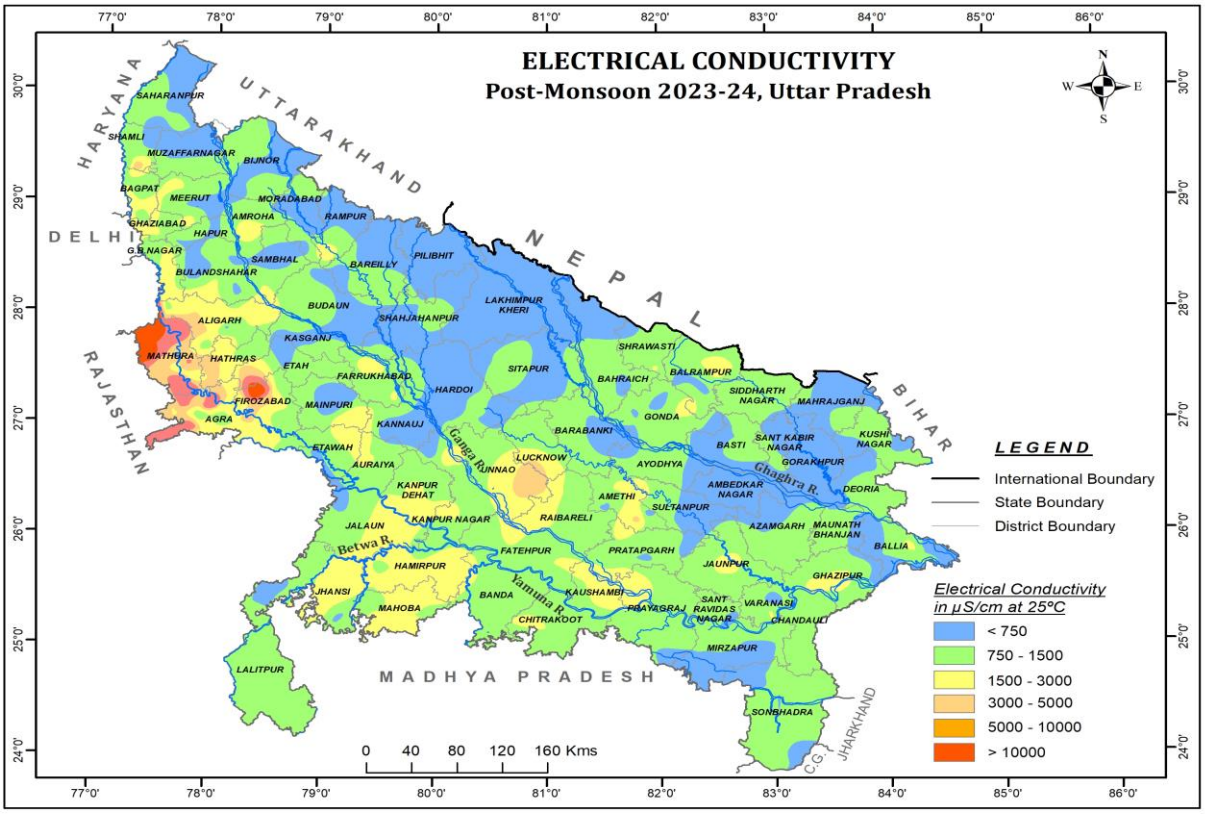


Table 8 : Trend of Periodic Variation in Suitability Classes of EC in GW of Uttar Pradesh

Parameter	Class	2019 (n=817)	2021 (n =840)	2022 (n =919)	2023 (n=1386)	Periodic Variation (2019-2023)
		% of EC Variation				
EC	< 750	71.85	64.40	56.58	51.59	20.26
	750 - 3000	25.83	33.57	39.39	45.74	-19.92
	> 3000	2.33	2.02	4.03	2.67	-0.34

Table 9. Trend of EC in shallow GW of Uttar Pradesh.

Year	No. of districts affected by EC	Total of locations affected by EC	Total Number of samples analysed	%age of locations affected by EC
2019	8	19	817	2.33
2021	5	17	840	2.02
2022	10	37	919	4.03

2023	13	37	1386	2.67

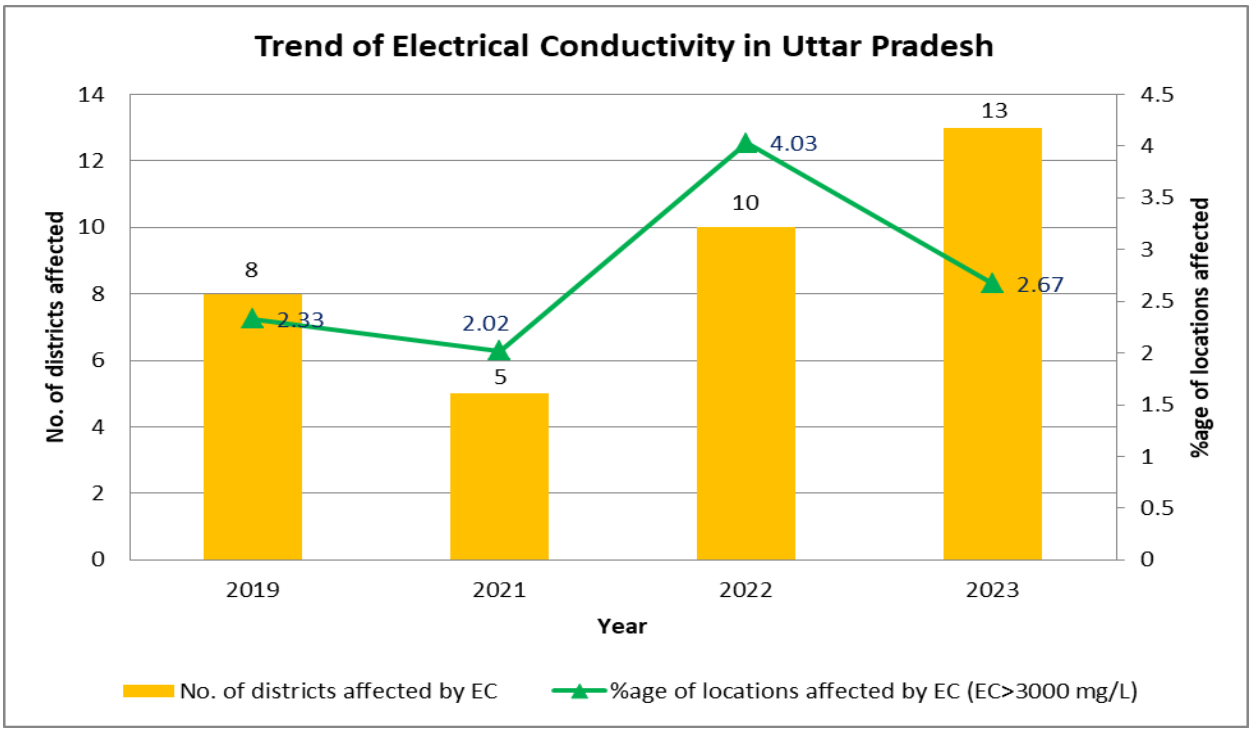


Figure-6. Trend of EC in Uttar Pradesh based on NHS data 2023

Chloride (Cl):

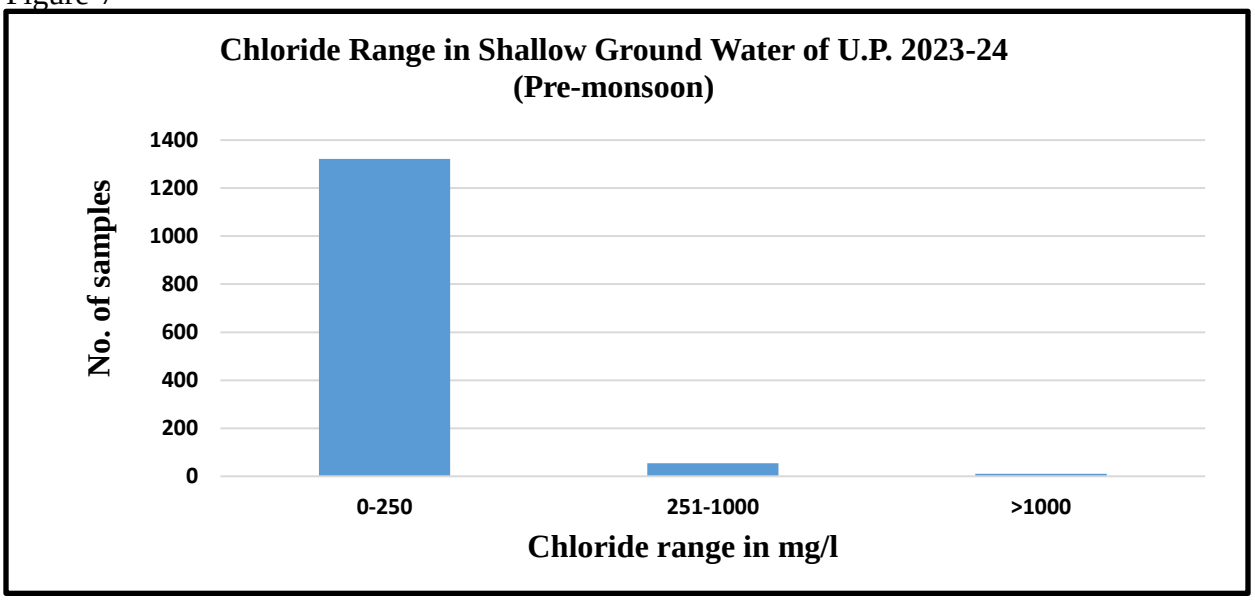
Pre-monsoon

The study reveals that concentration of chloride ion ranges from 3.54 to 5672 mg/l with an average value of 74 mg/l. From Table 6, it is clear that a total of 95.31 % water samples fall within the desirable limit while 99.28% contain chloride within the maximum permissible limit prescribed by BIS (2012). Only 0.72% samples exhibit Chloride values > 1000 mg/l viz.

Table 10: Frequency distribution of Chloride (2023-24) (Pre-monsoon)

Range of Chloride in mg/l	0-250	251-1000	>1000
No. of samples	1321	55	10
%	95.31%	3.97%	0.72%

Fig. 7 Depicts the range of Chloride in shallow ground water of U.P. (2023-24) (Pre- monsoon) Figure-7



The various partly affected blocks exhibiting high values of Cl (>1000 mg/l) are tabulated in following table below-

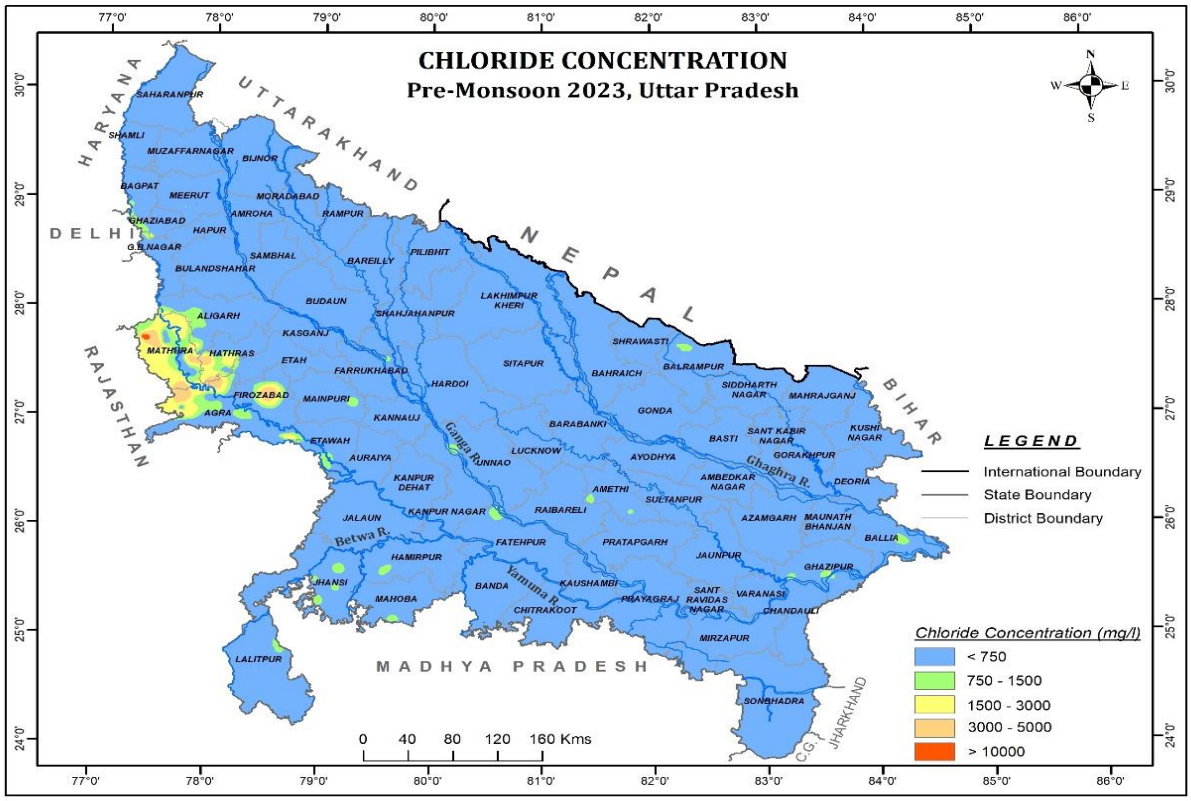
Table 11: The partly affected blocks exhibiting high values of Cl (>1000 mg/l) (2023-24) Pre-monsoon

S. No.	District	Block	Location	Latitude	Longitude	Cl
1	Agra	Achhnera	Block office	27.17744	77.74618	1594
2	Agra	Khandauli	Block office	27.31646	78.02961	1313.5

S. No.	District	Block	Location	Latitude	Longitude	Cl
3	Firozabad	Hathwant	Block Office	27.22911	78.50407	1441.3
4	Hathras	Mursan	Aharai	27.52751	77.95120	1772
5	Mathura	Chhata	Block HQ	27.72620	77.50080	1106
6	Mathura	Nandgaon	Block HQ	27.71650	77.38480	5672
7	Mathura	Raya	Block HQ	27.54950	77.78480	1028
8	Mathura	Chhata	Ajnokh	27.67341	77.41045	1553
9	Mathura	Raya	Nagla Karan	27.53247	77.82824	1354
10	Mathura	Chhata	Umaraya	27.66540	77.47417	2198

The map showing Chloride concentration in the state of Uttar Pradesh is represented in **Fig-8**

Figure-8



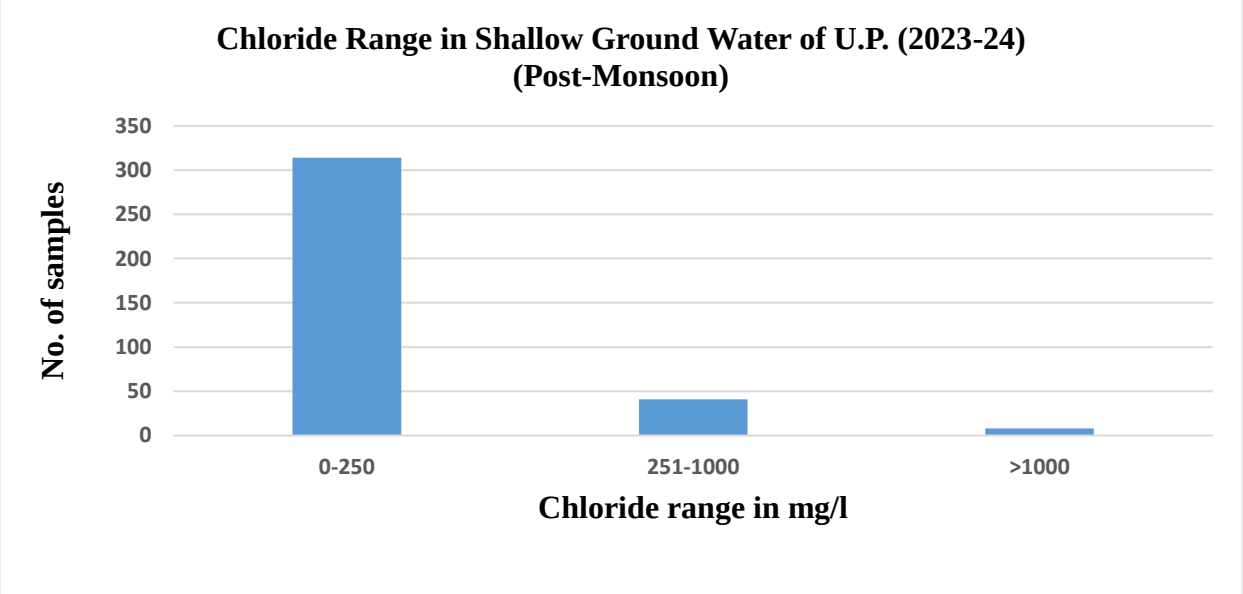
Post-monsoon

The study reveals that concentration of chloride ion ranges from 7.0 to 9536 mg/l with an average value of 160 mg/l. In Uttar Pradesh, in 88.45% water samples fall within the desirable limit while 97.75% contain chloride within the maximum permissible limit prescribed by BIS (2012). Only 2.25% samples exhibit Chloride values >1000 mg/l during post-monsoon viz.

Table 12: Frequency distribution of Chloride (2023-24) (Post-monsoon)

Range of Chloride in mg/l	0-250	251-1000	>1000
No. of samples	314	41	8
%	88.45%	11.54%	2.25%

Fig. 9 Depicts the range of Chloride in shallow ground water of U.P. (2023-24) (Post-monsoon)
Figure 9



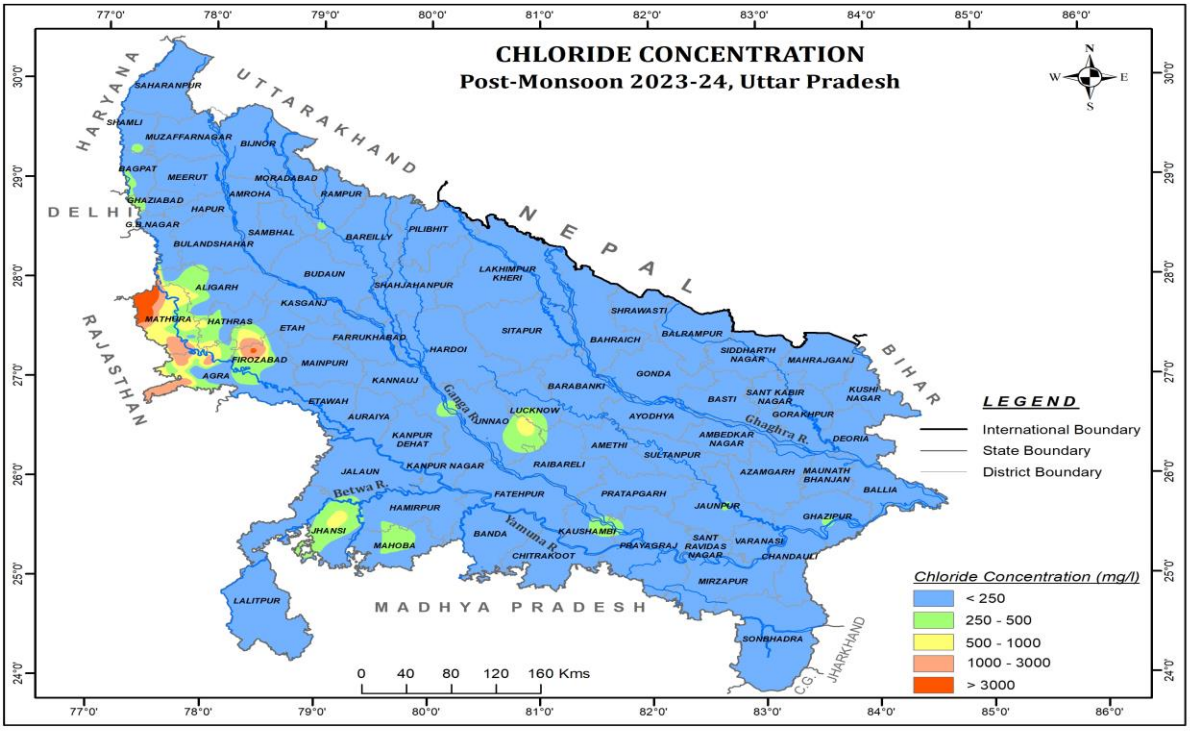
The various partly affected blocks exhibiting high values of Cl (>1000 mg/l) are tabulated in following table below-

Table 13: The partly affected blocks exhibiting high values of Cl (>1000 mg/l) (2023-24) Post-monsoon

S. No.	District	Block	Location	Latitude	Longitude	Cl (>1000 mg/l)
1	Agra	Achhnera	Block H.Q	27.17744	77.74618	1576
2	Agra	Agra	City (Sai Ki Takia Crossing)	27.17066	78.00954	1441
3	Agra	Jagner	Block H.Q	26.86657	77.60168	1243
4	Agra	Kheragarh	Block H.Q	26.95524	77.82219	1235
5	Firozabad	Narkhi	Block H.Q	27.29036	78.40702	3209
6	Mathura	Chhata	Block Hq	27.71440	77.50632	1184
7	Mathura	Nandgaon	Block Hq	27.71650	77.38480	9536
8	Mathura	Farah	Block Hq	27.32443	77.75857	2418

The map showing Chloride concentration in the state of Uttar Pradesh is represented in **Fig-9**

Figure-10



Nitrate (NO3):

Pre-monsoon

The concentration of Nitrate has been found varying widely. It ranges between not detectable to 730 mg/l with an average value of 16.3 mg/l. 90.25% of water samples fall within the permissible limit of 45 mg/l (BIS 2012) and 9.37% samples have higher level of Nitrate concentration with the highest value 730 mg/l recorded at Naujheel block of Mathura district. High Nitrate is found all over the state and does not follow any definite pattern of distribution. The distribution of samples in different concentration ranges are given in following table:

Table 14: Frequency Distribution of Nitrate (2023-24) Pre-monsoon

Range of Nitrate in mg/l	**0-45**	**>45**
No. of Samples	1251	130
%	90.25%	9.37%

Fig. 11 Depicts the range of Nitrate in shallow ground water of U.P. (2023-24) (Pre-

monsoon)

Figure-11

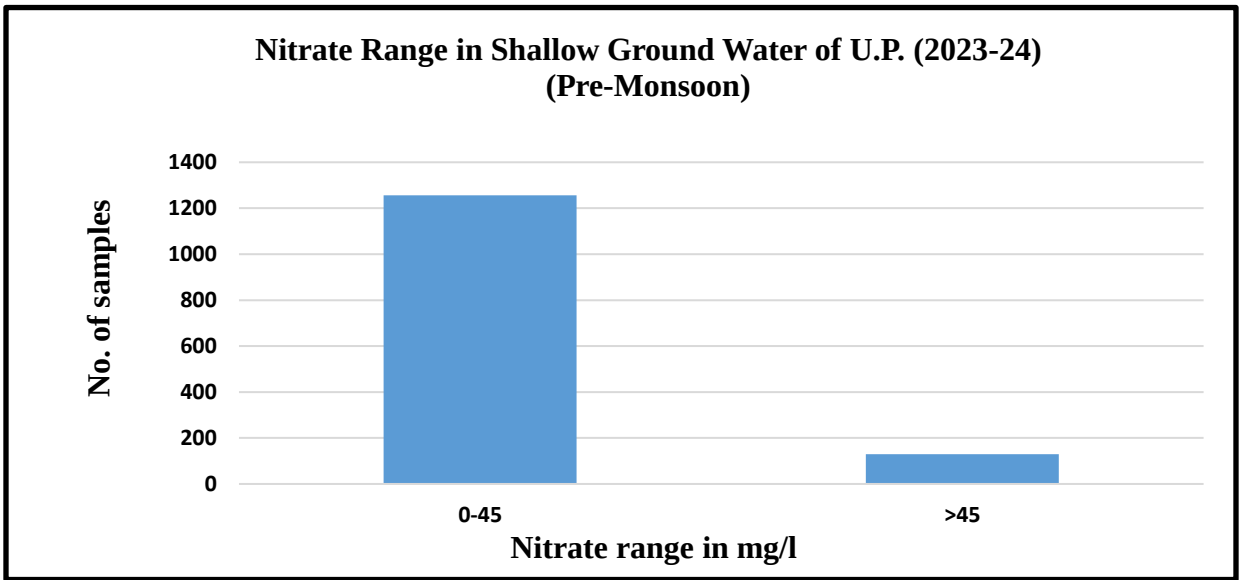


Table 15: Partly affected Blocks associated with high values of nitrate (>45 mg/l) (2023-24) Pre-monsoon

S. No.	District	Block	Location	Latitude	Longitude	NO_3
1	Agra	Bah	Agra-Bah Road	26.90727	78.45653	104.0
2	Agra	Fatehpur Sikri	Block office	27.09424	77.66783	135
3	Aligarh	Akbarabad	Block H.Q.	27.80500	78.27120	71
4	Aligarh	Aligarh	District H.Q.	27.89757	78.07295	64
5	Aligarh	Khair	Block H.Q.	27.94350	77.83640	93
6	Aligarh	Aligarh Urban	Bada Chowk, Sarai Rehman	27.89379	78.07001	57
7	Aligarh	Aligarh Urban	Mahendra Nagar, Aawas Vikas Colony	78.07314	27.86790	51
8	Aligarh	Aligarh Urban	Kela Nagar Market	27.90393	78.09037	51
9	Amethi	Amethi	PWD Dak Bangla	26.15618	81.80860	72
10	Amethi	Musafir Khana	Block HQ	26.37775	81.80047	51
11	Amroha	Joya	Block office	28.83557	78.47319	83
12	Auraiya	Auraiya	Auraiya Block Office	26.46610	79.50392	85
13	Baghpat	Baghpat	In block office	28.94399	77.22007	192

S. No.	District	Block	Location	Latitude	Longitude	NO_3
14	Balrampur	Rehra Bazar HQ	Block Campus	27.18167	82.27861	65
15	Balrampur	Gainsara	Chandarpur	27.66203	82.65529	53
16	Banda	Badokhar Khurd	Banda(HQ)	25.48109	80.33086	79
17	Budaun	Ujhani	adjacent to SBI Bank,Ujhani	28.00273	79.01435	46
18	Budaun	Quadar Chowk	Behta Dambanagar	27.91003	79.16080	46
19	Bulandshahr	Khurja	Dastura	28.27530	77.70320	68
20	Chitrakoot	Manikpur	Kubri	25.00466	81.16523	156
21	Chitrakoot	Manikpur	Tikariya Railway Station	25.00131	80.87560	79
22	Chitrakoot	Pahari	Pahari	25.33351	80.96304	185
23	Etah	Sheetalpur	Block Office	27.56962	78.67305	116
24	Etawah	Barhpura	KaneshiGhar	26.62983	79.05615	500
25	Etawah	Barhpura	Etawah City (Anand Nagar)	26.77019	79.03464	49
26	Etawah	Bharthana	Bharthana Block Office	26.70913	79.31824	56
27	Fatehpur	Khajua	Bindki	26.02976	80.58057	145
28	Fatehpur	Malwan	Chaudgara	26.12301	80.58497	56
29	Fatehpur	Vijayeepur	Rakshpalpur	25.62563	81.13322	75
30	Firozabad	Aron	Block Office	27.15023	78.70482	46.2
31	Firozabad	Firozabad	Block office	27.16539	78.37906	146
32	G.B. Nagar	Dankaur	Bagpur	28.39768	77.58972	66
33	G.B. Nagar	Jewar	Choroli	28.13596	77.60769	160
34	G.B. Nagar	Dadri	Dadri	28.55444	77.55354	72
35	Ghaziabad	Gaziabad Urban	Jal Kal Vibhag	28.68472	77.34354	79
36	Ghaziabad	Gaziabad Urban	Kali Temple Boundary Wall	28.68886	77.36180	68
37	Ghaziabad	Gaziabad Urban	Near Meadows Café	28.72140	77.44736	68
38	Ghaziabad	Gaziabad Urban		28.67577	77.43316	49
39	Ghaziabad	Gaziabad Urban		28.66394	77.46093	108

S. No.	District	Block	Location	Latitude	Longitude	NO_3
40	Ghaziabad	Gaziabad Urban		28.63684	77.45571	73
41	Ghaziabad	Gaziabad Urban		28.68101	77.49727	61
42	Ghaziabad	Gaziabad Urban		28.65573	77.48579	47
43	Ghazipur	Jamania	Block Office	25.41490	83.55890	70
44	Ghazipur	Jakhaniya	Block Office	25.74263	83.37248	56
45	Gorakhpur	Kauriram	Village- Rewradih; Near H/o Sitaram Yadav S/o Dukhran Yadav	26.51180	83.40997	63
46	Hamirpur	Maudaha	Urdana	25.62276	80.17578	101
47	Hamirpur	Muskara	Imaliya	25.65919	79.91122	79
48	Hamirpur	Muskara	Bewar	25.76100	79.92716	86
49	Hamirpur	Rath	Rath	25.59875	79.57689	318
50	Hamirpur	Sarila	Sarila	25.77278	79.67475	73
51	Hapur	Garh	In block office	28.78806	78.08833	100
52	Hapur	Hapur	On Rosd Side	28.78488	77.82690	125
53	Hapur	Hapur	Shiv Mandir Kakar	28.67114	77.82794	53
54	Hathras	Hathras	District H.Q.	27.57300	78.05510	89
55	Hathras	Hathras	Mohari	27.64944	78.15311	94
56	Jalaun	Dakore	Block Campus	25.87501	79.42484	50
57	Jalaun	Konch	Block Campus	26.00174	79.16184	85
58	Jaunpur	Mungra Badshahpur	Block office	25.65630	82.18872	115
59	Jhansi	Babina	Block Campus	25.23391	78.46967	52
60	Jhansi	Bamaur	Block Campus	25.61314	79.18572	105
61	Jhansi	Bangra	Block Campus	25.31156	79.00384	105
62	Jhansi	Gursarai	Block Campus	25.61314	79.18572	105
63	Jhansi	Moth	Block Campus	25.72993	78.95227	70
64	Jhansi	Babina	Chattpur Bachauni	25.42056	78.35917	85
65	Jhansi	Babina	Mathurapora	25.35472	78.48556	155
66	Jhansi	Babina	Ghesoli	25.16556	78.46000	70

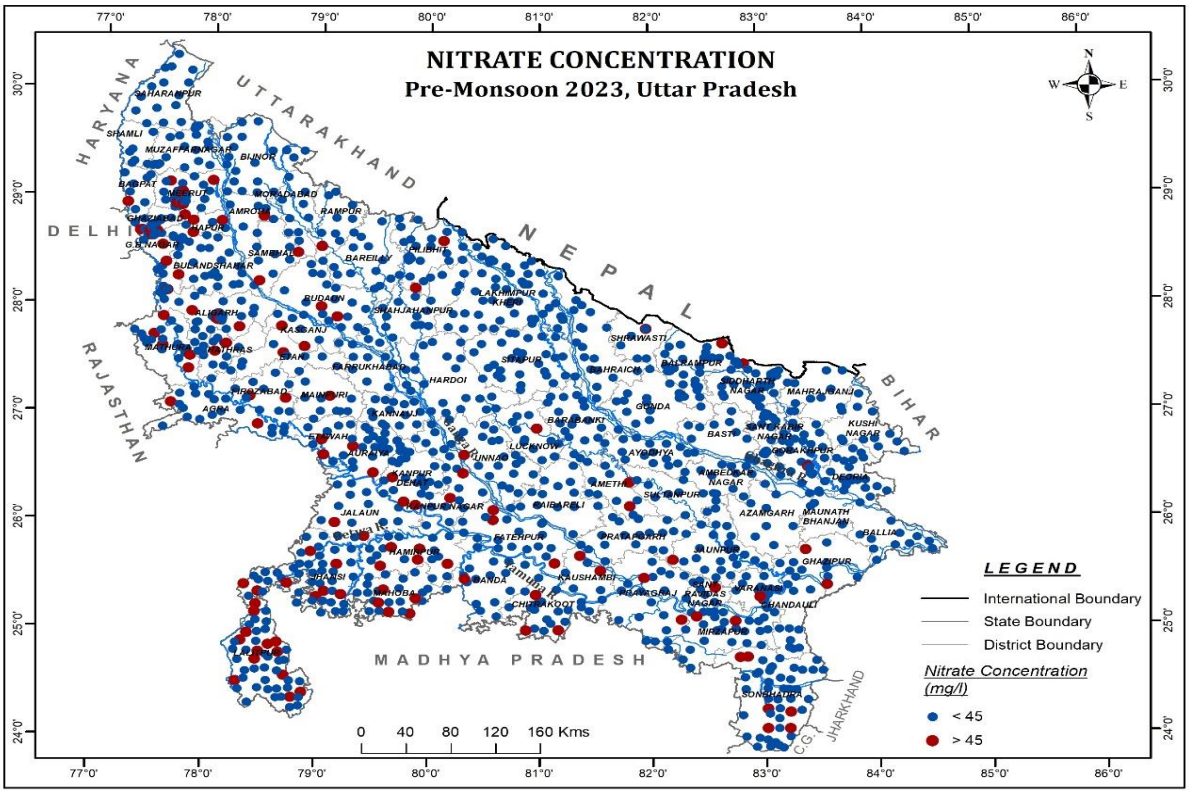
S. No.	District	Block	Location	Latitude	Longitude	NO_3
67	Jhansi	Baragaon	Telheta Kalan	25.43056	78.74444	95
68	Jhansi	Mauranipur	Sinora	25.36000	79.07583	65
69	Jhansi	Mauranipur	Bamhauri	25.33306	79.22583	50
70	Kanpur Dehat	Sandalpur	Sandalpur Block Office	26.42228	79.67447	84
71	Kanpur Dehat	Amraudha	Amraudha Block Office	26.19597	79.77950	396
72	Kanpur Dehat	Amraudha	Sultanpur	26.16746	79.88393	122
73	Kanpur Nagar	Patara	Patara Block Office	26.23330	80.19656	68
74	Kanpur Nagar	Kanpur (HQ)	Fazalganj Police Station, Kanpur City	26.46265	80.31051	88
75	Kanshiram Nagar (Kasganj)	Kasganj	Block Office	27.81790	78.65615	379
76	Kanshiram Nagar (Kasganj)	Sidhpura	Block Office	27.63089	78.86602	143.4
77	Kaushambi	Kara	Inside block office	25.69530	81.35950	300
78	Kaushambi	Muratganj	Inside block office	25.55500	81.53850	400
79	Lalitpur	Bar	Block Campus	24.86233	78.58815	100
80	Lalitpur	Jakhauar	Block Campus	24.89603	78.33887	100
81	Lalitpur	Madaro	Block Campus	24.37258	78.79309	55
82	Lalitpur	Mehrauni	Block Campus	24.57686	78.72659	55
83	Lalitpur	Birdha	Sepura	24.52028	78.30139	140
84	Lalitpur	Talbehat	Bijrotha Para	24.96861	78.39361	60
85	Lalitpur	Bar	Khajra	24.79556	78.49806	110
86	Lalitpur	Birdha	Rajwara	24.72028	78.47250	60
87	Lalitpur	Bar	Kathwar	24.88333	78.66167	65
88	Lalitpur	Bar	Udaipura Bus	24.78778	78.67611	55
89	Lalitpur	Mahroni	Loharra	24.41917	78.88556	50
90	Lucknow	Chinhat	Sarvodaya Nagar , Indra Nagar , Lucknow Adjacent to Vikas Bhawan	26.88000	80.97420	80
91	Mahoba	Kabrai	Bhandra	25.15779	79.84515	174

S. No.	District	Block	Location	Latitude	Longitude	NO_3
92	Mahoba	Jaitpur	Majhgawan Khurd	25.17156	79.65618	109
93	Mahoba	Panwari	Budhi	25.37738	79.60673	74
94	Mahoba	Kabrai	Mahoba	25.29855	79.89442	87
95	Mahoba	Jaitpur	Jaitpur	25.25536	79.56587	57
96	Mainpuri	Jageer	Block Office	27.61766	77.94871	51.8
97	Mathura	Baldeo	Block HQ	27.41400	77.82000	48.7
98	Mathura	Chaumuhan	Block HQ	27.62080	77.57930	110
99	Mathura	Chhata	Block HQ	27.72620	77.50080	54
100	Mathura	Raya	Nagla Karan	27.53247	77.82824	70
101	Mathura	Nohjhil	Nankpur Khader	27.894485	77.579605	730
102	Meerut	Hastinapur	In Block office	29.15734	77.99882	65
103	Meerut	Kharkhoda	In Block office	28.83104	77.74662	67
104	Meerut	Sardhana	In Block office	29.14356	77.60774	114
105	Meerut	Meerut Urban	Shatabdi Nagar	28.94037	77.67149	110
106	Meerut	Meerut Urban	Lalsana Chouraha	29.04728	77.72552	85
107	Meerut	Meerut Urban	Near Azi Hanif In House	28.92788	77.72597	140
108	Meerut	Meerut Urban	New Meenakshi	29.01779	77.73686	50
109	Mirzapur	Pahari	Pahari	25.08460	82.73950	108
110	Mirzapur	Chhanbey	Chhanbey (Gaigpura)	25.12722	82.39389	57
111	Mirzapur	Pahari	Pahari	25.08472	82.73972	51
112	Moradabad	Baniakhera	Block office	28.46179	78.78312	51
113	Pilibhit	Puranpur	Adjacent to GP office, Madho Tanda	28.62009	80.12242	128
114	Prayagraj	Manda	BDO, Office	25.09920	82.26020	55
115	Prayagraj	Soraon	Faizullapur	25.49028	81.93167	97
116	Rampur	Shahbad	Block office	28.56316	79.01111	84
117	Sambhal	Gunnaur	Block HQ	28.23461	78.44272	49
118	Sant Ravidas Nagar	Bhadohi	Block Office	25.39528	82.56417	106.7
119	Shahjahanpur	Nigohi	Chainpura	28.18387	79.87032	51
120	Shravasti	Sirsiya	Ratanpur	27.80311	81.96402	48

S. No.	District	Block	Location	Latitude	Longitude	NO_3
121	Siddharthnagar		Rohnihwa	27.47291	82.84423	80
122	Sonbhadra	Myorpur	Dewri	24.08420	83.01730	92
123	Sonbhadra	Myorpur	Duki Nala	24.26470	83.02020	64
124	Sonbhadra	Myorpur	Nodiya	24.08150	83.21390	102.6
125	Sonbhadra	Dudhi	Birar	24.23450	83.21840	82
126	Sonbhadra	Ghorawal	Gohrawal	24.74840	82.78030	93
127	Sonbhadra	Kakrahi	Block Office	24.74941	82.84436	65
128	Unnao	Safipur	Block office	26.63280	80.31970	66
129	Varanasi	Varanasi Urban	Gopichat Gully	25.28780	82.98790	54
130	Varanasi	Kashi Vidya Peeth	Kashi Vidya Peeth	25.30639	82.96278	55

The map showing Nitrate concentration in the state of Uttar Pradesh is represented in fig 12

Figure-12



Post-monsoon

The concentration of Nitrate has been found varying widely. It ranges between not detectable to 860 mg/l with an average value of 29 mg/l. 83.10% of water samples fall within the permissible limit of 45 mg/l (BIS 2012) and 16.90% samples have nitrate concentration more than permissible limit of 45 mg/l. The highest concentration of nitrate has been observed in Block H.Q of Narki block of Firozabad district i.e. 860 mg/l. High Nitrate is found all over the state and does not follow any definite pattern of distribution.

Table 16: Frequency Distribution of Nitrate (2023-24) Post-monsoon

Range of Nitrate in mg/l	**0-45**	**>45**
No. of Samples	295	60
%	93.10%	16.90%

Fig. 11 Depicts the range of Nitrate in shallow ground water of U.P. (2023-24) (Post-monsoon)
Figure-13

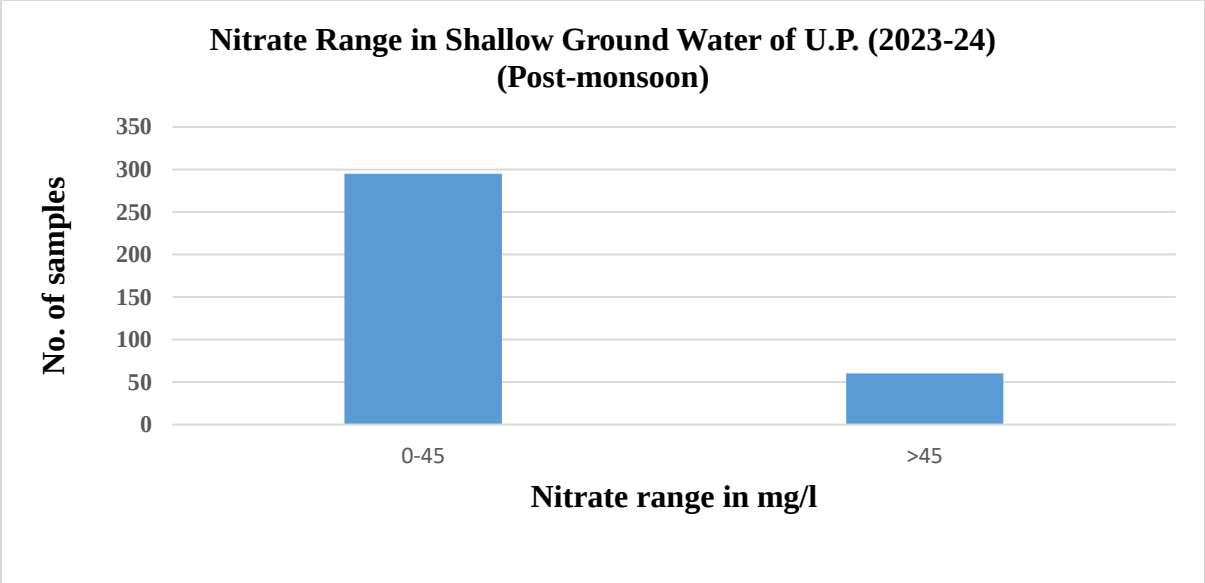


Table 17: Partly affected Blocks associated with high values of nitrate (>45 mg/l) (2023-24) Post-monsoon

S. No.	District	Block	Location	Latitude	Longitude	NO_3 (> 45 mg/l)
1	Agra	Bah	Block H.Q	26.86968	78.58929	107
2	Agra	Jagner	Block H.Q	26.86657	77.60168	176
3	Aligarh	Akrabad	Block H.Q.	27.80500	78.27120	67
4	Aligarh	Aligarh	District H.Q.	27.89692	78.07171	64
5	Aligarh	Khair	Block H.Q.	27.94350	77.83640	61
6	Amethi	Amethi	P.W.D. Dak Bangla	26.15618	81.8086	47
7	Amethi	Musafir Khana	Block H.Q	26.37775	81.80047	52
8	Amroha	Hasanpur	Block Office	28.73175	78.2813	47
9	Amroha	Joya	Block Office	28.83557	78.47319	125
10	Auraiya	Auraiya	Block H.Q	26.46610	79.50392	72
11	Azamgarh	Maharajganj	Block H.Q.	25.26076	83.11155	56
12	Baghpat	Baghpat	In Block Office	28.94399	77.22007	416
13	Banda	Badokhar Khurd	District H.Q	25.481093°	80.330861°	50
14	Budaun	Ujhani	Block H.Q	28.00273	79.01435	50
15	Chitrakoot	Pahari	Block H.Q	25.333062°	80.963863°	108
16	Etah	Jalesar	Block H.Q	27.47980	78.30629	53
17	Farrukhabad	Kamalganj	Block H.Q	27.26176	79.63240	119

S. No.	District	Block	Location	Latitude	Longitude	NO_3 (> 45 mg/l)
18	Farrukhabad	Shamsabad	Block H.Q	27.53622	79.44050	145
19	Firozabad	Hathwant	Block H.Q	27.22911	78.50407	334
20	Firozabad	Narkhi	Block H.Q	27.29036	78.40702	860
21	G.B. Nagar	Dadri	Block H.Q	28.55444	77.55360	79
22	Gonda	Tarabganj H.Q.	Block H.Q	26.95556	81.99000	117
23	Hamirpur	Sarila	Block H.Q	25.772784°	79.674748°	58
24	Hardoi	Sandila	Block H.Q	27.05663	80.51737	47
25	Hathras	Hathras	District H.Q.	27.57300	78.05510	139
26	Hathras	Sasni	Block H.Q.	27.69110	78.07410	47
27	Jalaun	Konch	Block H.Q.	26.00174	79.16184	52
28	Jhansi	Babina	Block H.Q.	25.23391	78.46967	73
29	Jhansi	Bamaur	Block H.Q.	25.61314	79.18572	90
30	Jhansi	Bangra	Block H.Q.	25.31156	79.00384	101
31	Jhansi	Mauranipur	Block H.Q.	25.25540	79.14371	69
32	Kanpur Dehat	Sandalpur	Block H.Q	26.42228	79.67447	64
33	Kanpur Dehat	Amraudha	Block H.Q	26.19597	79.77950	248
34	Kanpur Nagar	Shivrajpur	Block H.Q	26.68626	80.14051	67
35	Kasganj	Patiyali	Block H.Q	27.69128	78.99889	162
36	Kasganj	Soron	Block H.Q	27.88915	78.75138	124
37	Kaushambi	Kara	Block H.Q	25.69530	81.35950	47
38	Kaushambi	Muratganj	Block H.Q	25.55500	81.53850	47
39	Lalitpur	Jakhauar	Block H.Q.	24.89603	78.33887	87
40	Lalitpur	Mehrauni	Block H.Q.	24.57686	78.72659	88
41	Lalitpur	Talbehat	Block H.Q.	25.03971	78.42278	45
42	Lucknow	Chinhat	Sarvodaya Nagar, Indra Nagar, Lucknow. Adjacent To Vikas Bhawan	26.88000	80.97420	92
43	Mahoba	Kabrai	Block H.Q	25.298552°	79.89442°	89
44	Mahoba	Jaitpur	Block H.Q	25.255356°	79.565872°	69
45	Mathura	Baldeo	Block Hq	27.41192	77.82017	49
46	Mathura	Chaumuhan	Block Hq	27.62046	77.57940	381
47	Mathura	Chhata	Block Hq	27.71440	77.50632	65
48	Mathura	Nohjhil	Block Hq	27.84649	77.65005	807

S. No.	District	Block	Location	Latitude	Longitude	NO_3 (> 45 mg/l)
49	Maunath Bhanjan	Badraon	Block H.Q.	26.16703	83.46014	47
50	Meerut	Kharkhoda	In Block Office	28.83104	77.74662	50
51	Meerut	Sardhana	In Block Office	29.14356	77.60774	225
52	Mirzapur	Nagar Mirzapur	Block H.Q.	25.12000	82.55611	47
53	Mirzapur	Narayanpur	Block H.Q.	25.20000	83.02083	95
54	Mirzapur	Kon	Block H.Q.	25.17056	82.55111	88
55	Rampur	Shahbad	Block Office	28.56316	79.01111	112
56	Saharanpur	Nakur	In Block Office	29.91390	77.30273	50
57	Sambhal	Baniakhera	Block Office	28.46179	78.78312	65
58	Sambhal	Gunnaur	Block Office	28.23461	78.44272	65
59	Shamli	Kandhala	In Block Office	29.32300	77.26654	360
60	Unnao	Safipur	Block H.Q.	26.63280	80.31970	115
61	Varanasi	Harhua	Block H.Q.	25.39972	82.97000	75

The map showing Nitrate concentration in the state of Uttar Pradesh is represented in Fig-14

Figure-14

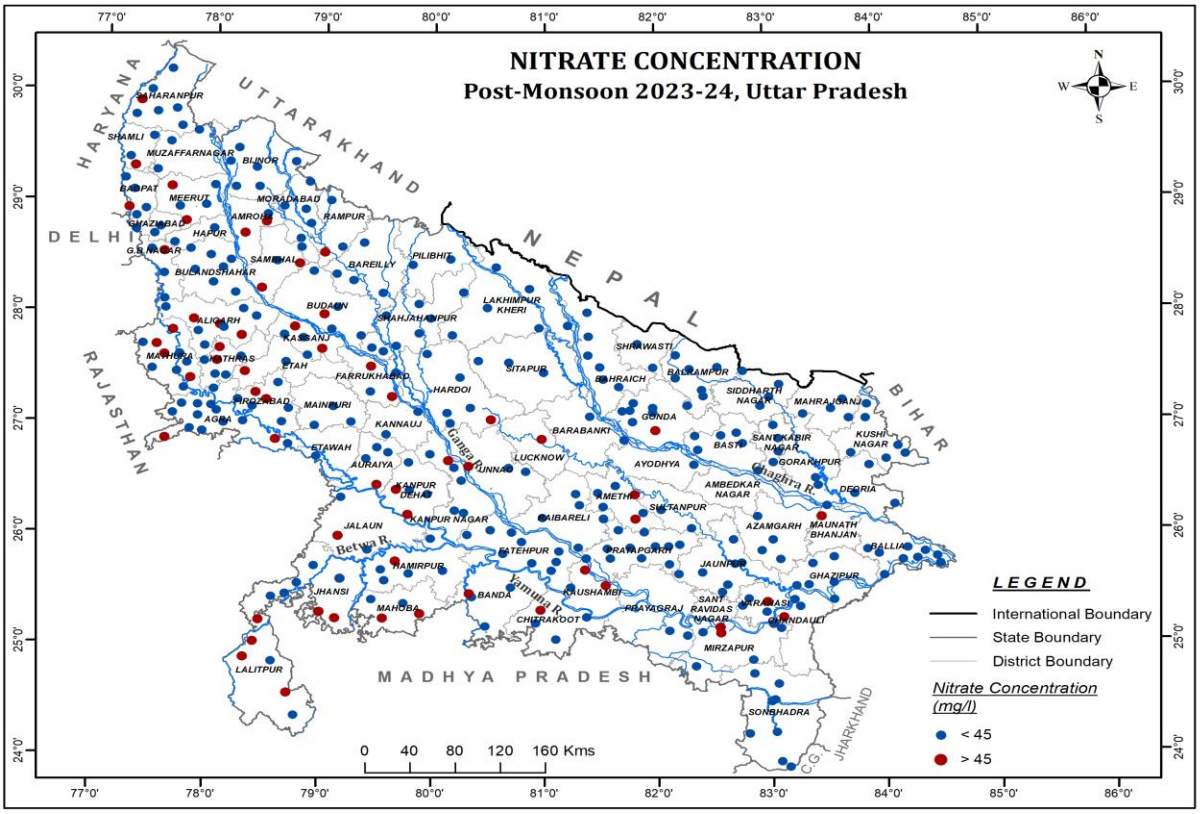


Table 18. Periodic Variation in Suitability Classes of NO_3 in GW of Uttar Pradesh.

Parameter	Class	2019 (n =817)	2021 (n =840)	2022 (n =919)	2023 (n =1386)	Periodic Variation
		% of NO_3 Variation				
NO3	< 45	93.4	91.3	90.9	90.6	2.77
	> 45	6.6	8.7	9.1	9.4	-2.77

Table 19. Trend of NO3 in shallow GW of Uttar Pradesh.

Year	No. of districts affected by NO3	No. of locations affected by NO3	Total Number of samples analysed	% age of locations affected by NO3
2019	36	54	817	6.6
2021	38	73	840	8.7
2022	44	84	919	9.03
2023	46	130	1386	9.38

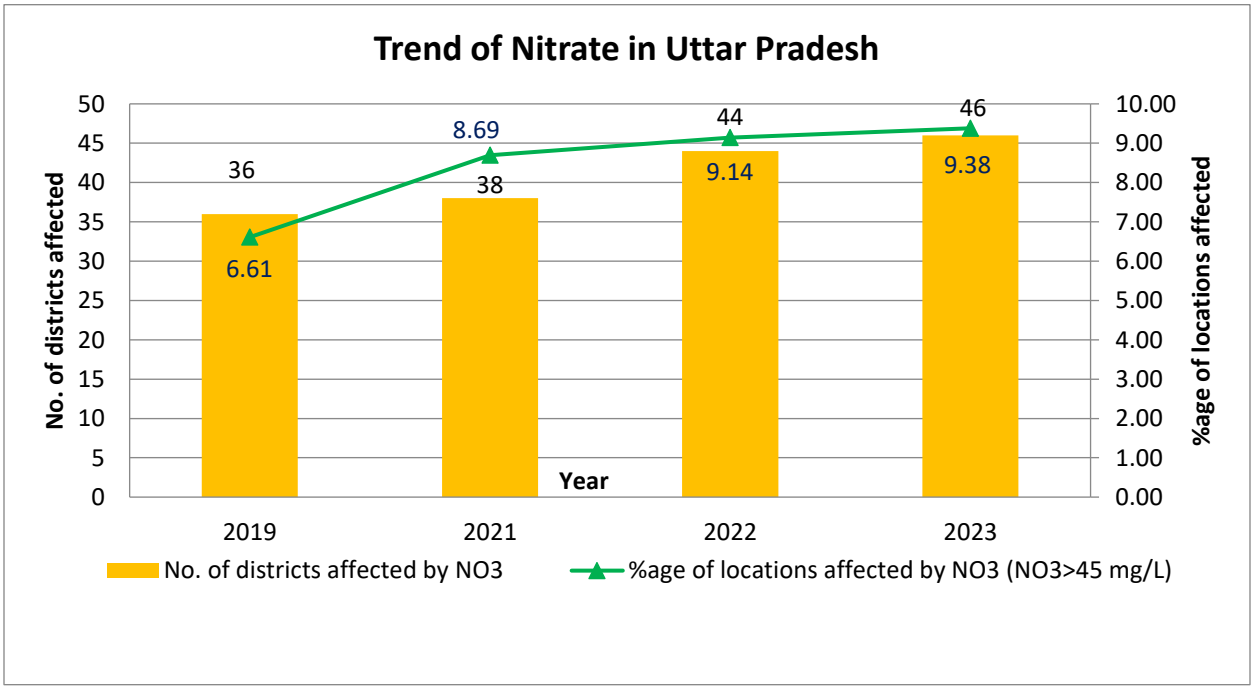


Figure 15 : Trend of NO3 in shallow GW of Uttar Pradesh.

Fluoride (F):

Pre-monsoon

Small quantities of Fluoride are beneficial in reducing tooth decay, whereas excess concentration (>1.5 mg/l) is harmful causing staining of tooth enamel and Fluorosis. The value of Fluoride concentration is found to range between not detectable to 8.2 mg/l with 94.2% samples falling within the permissible limit prescribed by BIS (2012). The highest value of 8.2

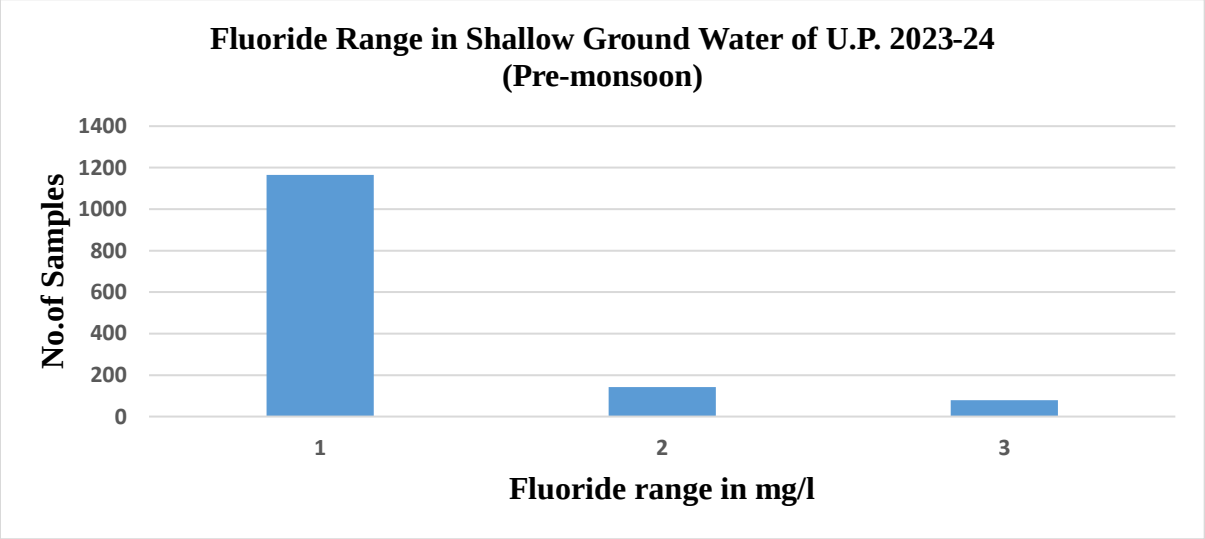
mg/l, has been recorded in Palhana block (distt. Azamgarh). The distribution of samples in different Fluoride ranges has been tabulated in following table below:

Table 20: Frequency Distribution of Fluoride (2023-24) (Pre-monsoon)

Range of Fluoride in mg/l	**0-1.0**	**>1.0-1.5**	**>1.5**
No. of Samples	1165	142	79
%	84%	10.2%	5.69%

Fig. 16 Depicts the range of Fluoride in shallow ground water of U.P. (2023-24) (Pre- monsoon)

Figure-16



The map showing Fluoride concentration in the state of Uttar Pradesh is represented in Fig-16.

Figure-17

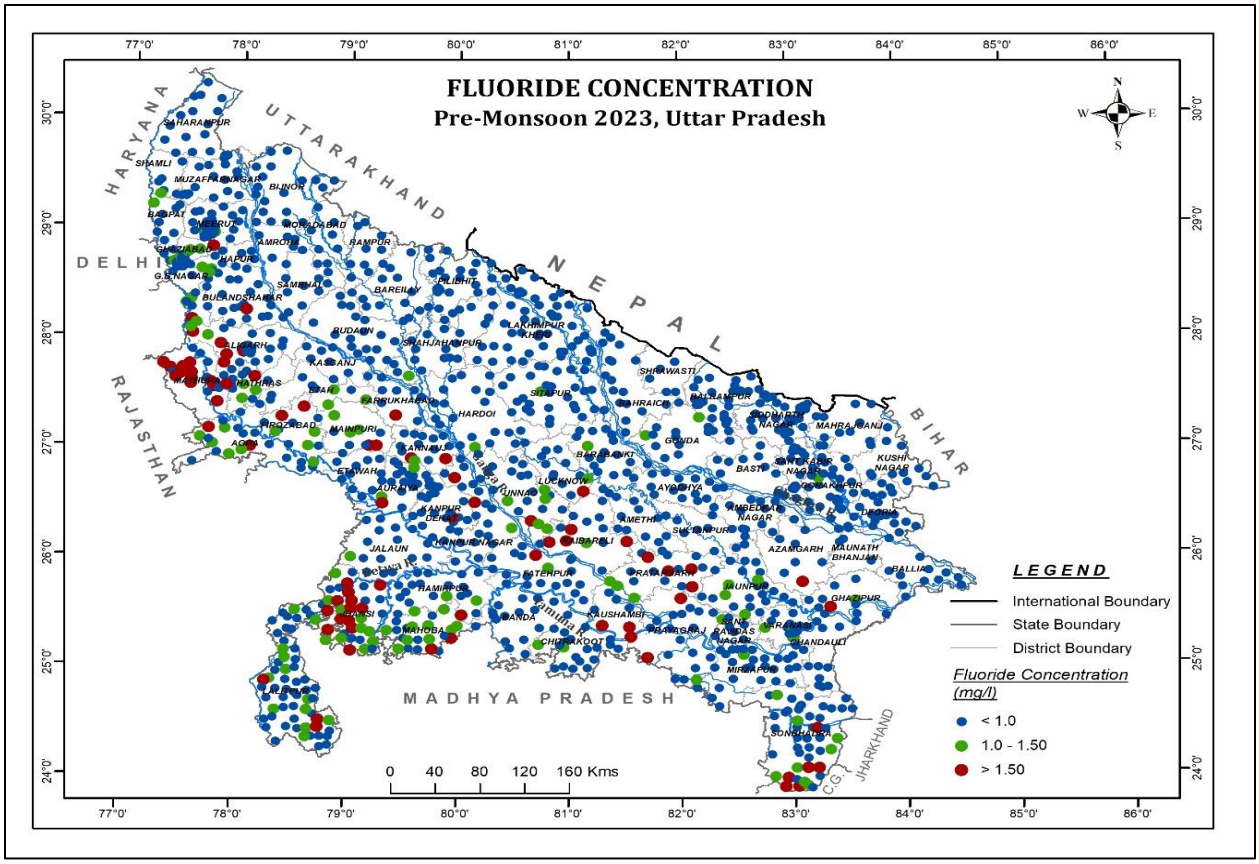


Table 21: Partly affected Blocks associated with high values of Fluoride (>1.5 mg/l) (2023-24) Pre-monsoon

S. No.	District	Block	Location	Latitude	Longitude	F
1	Agra	Achhnera	Block office	27.17744	77.74618	1.72
2	Agra	Shamsabad	SBI near Block Office	27.01357	78.12330	3.1
3	Aligarh	Khair	Block H.Q.	27.94350	77.83640	2.30
4	Aligarh	Tappal	Block H.Q.	28.04280	77.57917	1.90
5	Aligarh	Gonda	Rudyat Urf Tarapur	27.84189	77.89171	3.95
6	Aligarh	Gonda	Kalua	27.76775	77.87020	1.8
7	Aligarh	Aligarh Urban	Roravar	27.87246	78.04612	1.9
8	Auraiya	Ajitmal	Akbarpur	26.50781	79.32634	4.1
9	Azamgarh	Palhana	Block office	25.78446	83.09023	8.2
10	Bulandshahr	Shikarpur	Nawada	28.25947	78.06319	1.8
11	Farrukhabad	Mohammdabad	Block Office	27.30800	79.43679	1.8

S. No.	District	Block	Location	Latitude	Longitude	F
12	Fatehpur	Malwan	Malwan	26.03640	80.70700	1.9
13	Firozabad	Eka	Block office	27.37907	78.60743	1.61
14	Firozabad	Narkhi	Block Office	27.29036	78.40702	1.81
15	G.B. Nagar	Jewar	Block H.Q	28.12500	77.56720	1.7
16	G.B. Nagar	Jewar	Rampur Banger	28.16380	77.56775	2.6
17	Ghazipur	Deokali	Block Office	25.55139	83.33802	3.2
18	Hathras	Hathras	Mohari	27.64944	78.15311	2.95
19	Jhansi	Baragaon	Shakti Bhairu	25.51472	78.85389	2.4
20	Jhansi	Bangra	Jawan	25.34250	78.85528	1.6
21	Jhansi	Chirgaon	Kalyanpura	25.60639	78.94111	2.1
22	Jhansi	Bangra	Ghanghri	25.44028	78.97222	2.6
23	Jhansi	Bamaur	Afarsua	25.61167	79.06611	2.3
24	Jhansi	Bamaur	Samserpura	25.68806	79.03611	1.9
25	Jhansi	Gursarai	Ghuraiya	25.54639	79.05972	1.7
26	Jhansi	Gursarai	Dadpura	25.42583	79.04417	2.3
27	Jhansi	Mauranipur	Sinora	25.36000	79.07583	2.0
28	Jhansi	Bangra	Banda	25.15972	79.05583	1.5
29	Jhansi	Gursarai	Bhasneh	25.54167	79.15917	1.8
30	Jhansi	Moth	Panarri	25.76889	79.02333	1.7
31	Jhansi	Bamaur	Tharo-II	25.75528	79.31806	1.9
32	Kannauj	Umarda	Thathiya	26.91626	79.89128	6.6
33	Kannauj	Haseran	Haseran Block Office	26.91851	79.58062	2.2
34	Kanpur Dehat	Akberpur	Akberpur Block Office	26.38233	79.95612	6.0
35	Kanpur Dehat	Maitha	Matikapur	26.51586	80.15629	4.5
36	Kanpur Nagar	Kakwan	Kakwan Block Office	26.74262	79.97628	2.5
37	Kaushambi	Newada	Bohagara Sarai	25.37806	81.54417	3.0
38	Kaushambi	Sarsawan	Chanderi	25.39444	81.30000	1.7
39	Lalitpur	Jakhora	Baroda Swami	24.87861	78.29611	2.1
40	Lalitpur	kumchri	kumchri	24.52417	78.77694	1.6
41	Lalitpur	Mahroni	Gadoli	24.45639	78.77222	1.5

S. No.	District	Block	Location	Latitude	Longitude	F
42	Lucknow	Mohanlalganj	Nagram	26.61972	81.13333	1.64
43	Mahoba	Kabrai	Ghutbai	25.27283	79.95504	1.5
44	Mahoba	Kabrai	Srinagar	25.17372	79.77889	1.7
45	Mahoba	Kabrai	Barbai	25.48447	80.04352	1.5
46	Mainpuri	Kishni	Near Katra Saman Chauraha, Shiv Temple	27.03046	79.19820	1.65
47	Mainpuri	Kishni	Block office	27.03160	79.26555	1.81
48	Mathura	Baldeo	Block HQ	27.41400	77.82000	4.80
49	Mathura	Chaumuhan	Block HQ	27.62080	77.57930	4.40
50	Mathura	Chhata	Block HQ	27.72620	77.50080	3.50
51	Mathura	Nandgaon	Block HQ	27.71650	77.38480	2.05
52	Mathura	Raya	Block HQ	27.54950	77.78480	2.1
53	Mathura	Chhata	Baroli	27.67452	77.57932	1.85
54	Mathura	Nandgaon	Puthari	27.75752	77.31944	2.65
55	Mathura	Raya	Thok Bindavani	27.57123	77.89800	2.40
56	Mathura	Chhata	Umaraya	27.66540	77.47417	2.4
57	Mathura	Chhata	Karahari	27.76043	77.56152	3.1
58	Mathura	Mant	Panigaon Khader	27.59520	77.75827	1.6
59	Mathura	Nandgaon	Kamai	27.63236	77.43359	2.05
60	Mathura	Chhata	Jatwari	27.57388	77.57388	3.7
61	Meerut	Kharkhoda	In Block office	28.83104	77.74662	1.6
62	Pratapgarh	Baba Belkhar Nath	Inside block office	25.90720	82.09990	2.4
63	Pratapgarh	Gaura	Block Office	29.09583	77.85528	1.6
64	Pratapgarh	Sadar	Tonipur	25.88917	81.89250	5.0
65	Pratapgarh	Sangipur	Bashuapur	26.01583	81.71083	1.7
66	Prayagraj	Baharia	Dunnaiya	25.63778	82.00167	2.0
67	Prayagraj	Shankargarh	Pratappur	25.28778	81.55556	2.9
68	Prayagraj	Shankargarh	Gadaya Lonipara	25.09750	81.70306	1.6
69	Raebareli	Chhatoh	Block HQ	26.15987	81.52105	2.2
70	Raebareli	Lalganj	Block HQ	26.16814	80.97926	1.5

S. No.	District	Block	Location	Latitude	Longitude	F
71	Raebareli	Sareni	Block HQ	26.15500	80.82752	2.0
72	Raebareli	Satawan	Sekhapur, Guru Buxaganj	26.27207	81.02583	2.0
73	Sonbhadra	Babhani	Mohua Dohar	23.90960	82.91680	1.9
74	Sonbhadra	Myorpur	Liladewa	23.99280	82.94020	1.6
75	Sonbhadra	Babhani	Adhoura	23.91110	83.03480	2.0
76	Sonbhadra	Myorpur	Lovuhan	24.08290	83.11560	2.1
77	Sonbhadra	Myorpur	Nodiya	24.08150	83.21390	2.0
78	Sonbhadra	Kone	Rogahi	24.44380	83.20290	1.7
79	Unnao	Bighapur	Bighapur	26.35220	80.66526	1.53

Post-monsoon

The value of **Fluoride** concentration is found to range between 0 to 7.0 mg/l with an average value of 0.67 mg/l. Total 92.68% samples falling within the permissible limit prescribed by BIS (2012). The **highest value of 7.0 mg/**l has been recorded in Akberpur block of Kanpur Dehat district.

Table 22: Frequency Distribution of Fluoride (2023-24) (Post-Monsoon)

Range of Fluoride in mg/l	0-1.0	>1.0-1.5	>1.5
No. of Samples	258	70	27
%	72.67%	19.71%	7.60%

Fig. 18 Depicts the range of Fluoride in shallow ground water of U.P. (2023-24) (Post- monsoon)

Figure-18

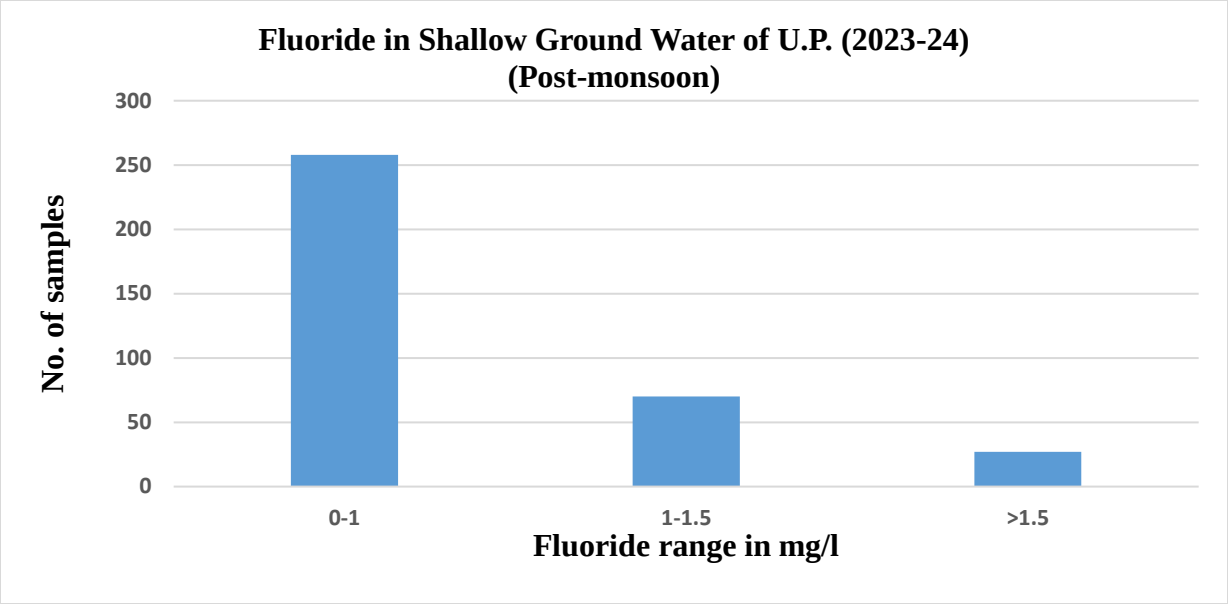


Table 23: Partly affected Blocks associated with high values of fluoride (>1.5 mg/l) (2023-24) Post-monsoon

S. No.	District	Block	Location	Latitude	Longitude	F (>1.5 mg/l)
1	Agra	Achhnera	Block H.Q	27.17744	77.74618	1.67
2	Agra	Agra	City (Sai Ki Takia Crossing)	27.17066	78.00954	1.59
3	Agra	Bichpuri	Block H.Q	27.17265	77.89188	1.56
4	Agra	Akola	Block H.Q	27.07150	77.89188	1.57
5	Aligarh	Khair	Block H.Q.	27.94350	77.83640	2.35
6	Aligarh	Tappal	Block H.Q.	28.04280	77.57917	1.85
7	Azamgarh	Palhana	Block H.Q.	25.78446	83.09023	1.59
8	Farrukhabad	Rajepur	Block H.Q	27.48043	79.66195	1.75
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**F (>1.5 mg/l)**
9	Fatehpur	Malwan	Block H.Q	26.03640	80.70700	1.96
10	Firozabad	Eka	Block H.Q	27.37907	78.60743	2.12
11	Firozabad	Firozabad	Block H.Q	27.16539	78.37906	1.50
12	Firozabad	Madanpur	Block H.Q	27.02716	78.64436	1.73
13	Firozabad	Narkhi	Block H.Q	27.29036	78.40702	2.07
14	Firozabad	Tundla	Block H.Q	27.22545	78.24661	2.65
15	G.B. Nagar	Jewar	Block H.Q	28.12416	77.56682	1.95

S. No.	District	Block	Location	Latitude	Longitude	F (>1.5 mg/l)
16	G.B. Nagar	Dankaur	Dist. H.Q	28.35330	77.55590	4.70
17	Ghazipur	Jakhaniya	Block H.Q.	25.74263	83.37248	1.59
18	Kannauj	Haseran	Block H.Q	26.91851	79.58062	2.55
19	Kanpur Dehat	Akberpur	Block H.Q	26.38223	79.95612	7.00
20	Kanpur Nagar	Kakwan	Block H.Q	26.74262	79.97628	2.50
21	Mainpuri	Kishni	Block H.Q	27.03170	79.26637	1.77
22	Mainpuri	Karhal	Block H.Q	26.99646	78.94073	1.74
23	Mathura	Baldeo	Block Hq	27.41192	77.82017	3.70
24	Mathura	Chhata	Block Hq	27.71440	77.50632	2.90
25	Mathura	Nandgaon	Block Hq	27.71650	77.38480	2.65
26	Mathura	Raya	Block Hq	27.54950	77.78480	1.56
27	Mathura	Govardhan	Block Hq	27.49198	77.47517	2.90

The map showing Fluoride concentration in the state of Uttar Pradesh is represented in **Fig-19**

Figure-19

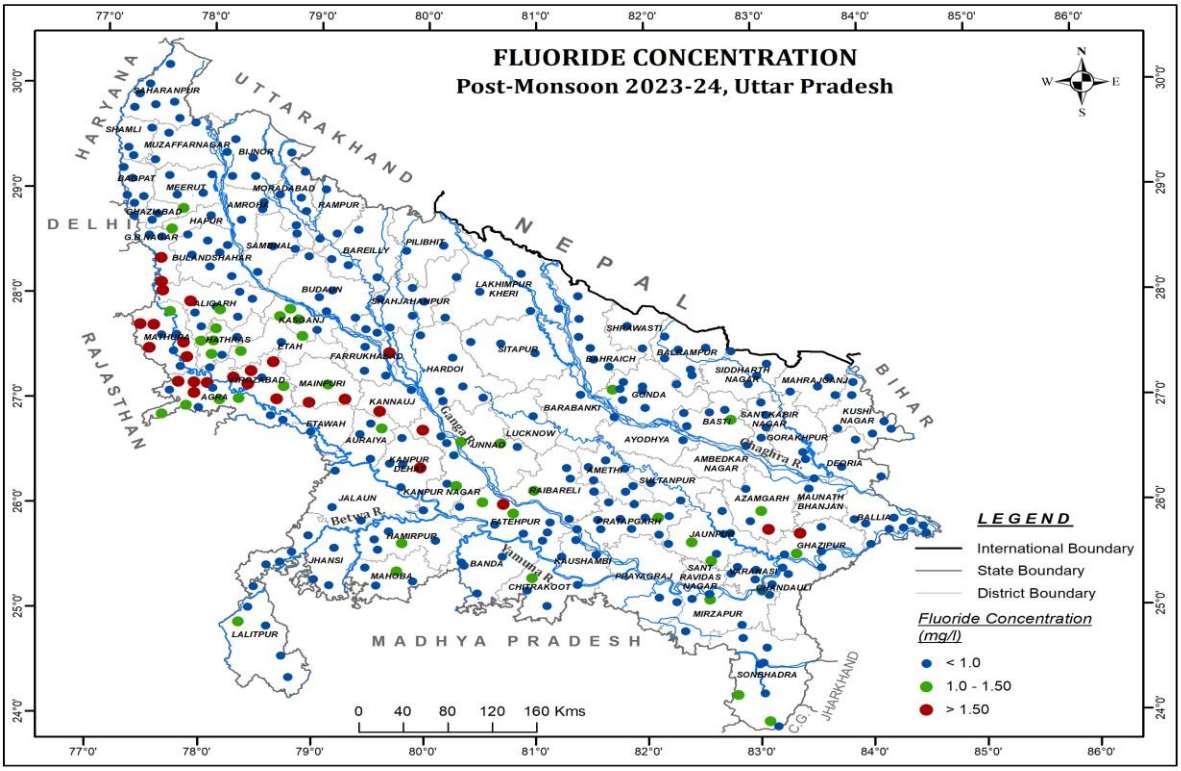


Table: 24 Periodic Variation in Suitability Classes of Fluoride in GW of Uttar Pradesh.

Parameter	Class	2019 (n = 817)	2021 (n =840)	2022 (n =919)	2023 (n=1386)	Periodic Variation
Flouride (mg/l)	< 1	90.45	87.50	88.90	84.05	6.40
	1 - 1.5	6.85	8.33	7.18	10.25	-3.39
	> 1.5	2.69	4.17	3.92	5.70	-3.01

Table : 25 Trend of Fluoride in shallow GW of Uttar Pradesh.

Year	No. of districts affected by Flouride	Total of locations affected by Flouride	Total Number of samples analysed	%age of locations affected by Flouride
2019	14	20	817	2.45
2021	15	34	840	4.05
2022	14	36	919	3.81
2023	27	79	1386	5.70

Figure :20

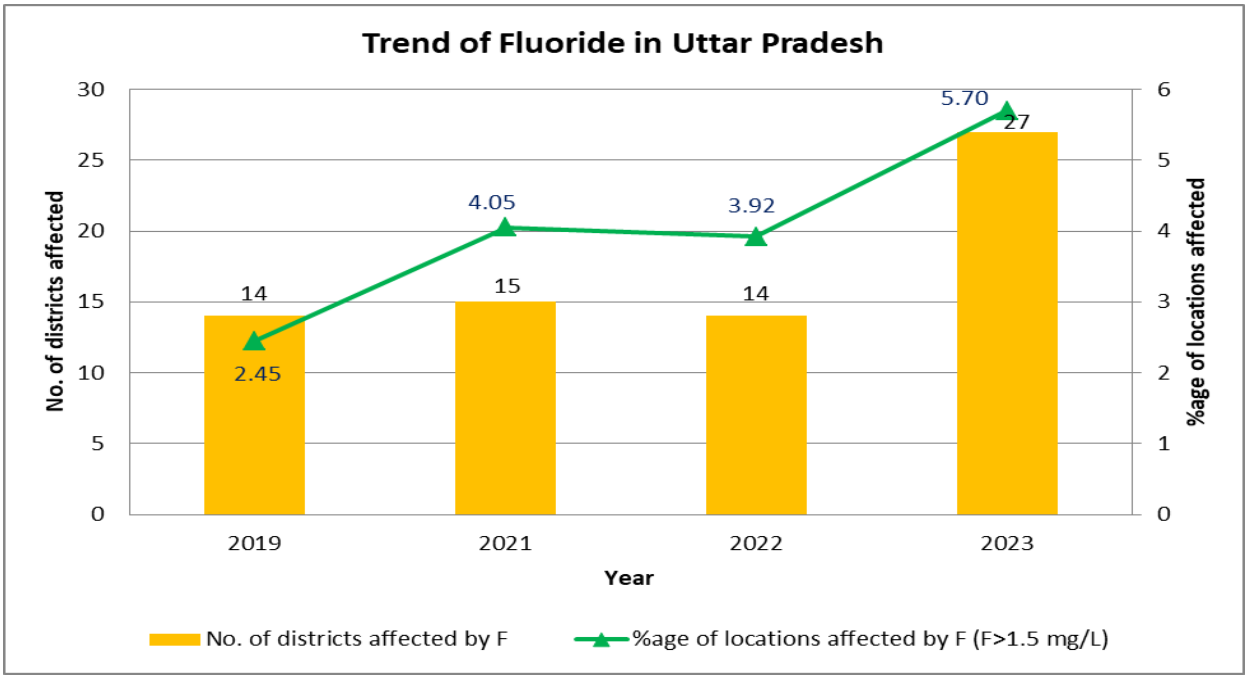


Figure : 20 Trend of Fluoride in shallow GW of Uttar Pradesh

Total Hardness (T.H.):

Pre-monsoon

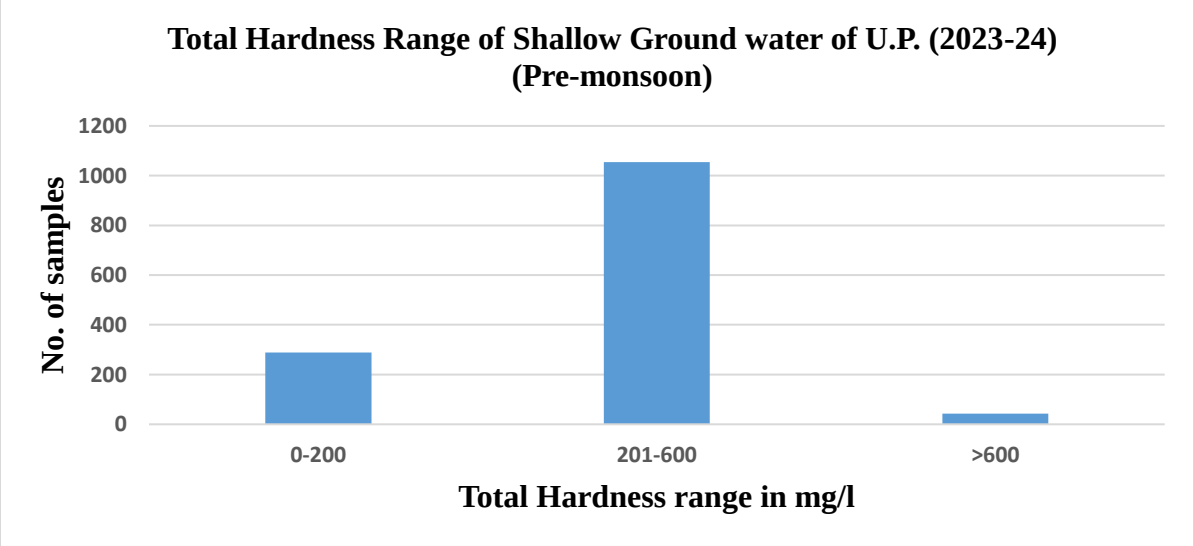
The concentration of total hardness has been found to vary widely. It ranges between 20 to 4400 mg/l with 96.89% of water samples falling within the permissible limit of 600 mg/l (BIS- 2012) and3.10% samples have higher level of Total Hardness concentration with the highest value 4400 mg/l recorded at Nandgaon block (distt. Mathura). The distribution of samples in different concentration ranges are given in following table:

Table 26: Frequency Distribution of Total Hardness (2023-24) (Pre-monsoon)

Range of T.H. in mg/l	**0-200**	**201-600**	**>600**
No. of Samples	289	1054	43
%	20.85%	76.04%	3.10%

Fig. 21 Depicts the T.H. range in shallow ground water of U.P. (2023-24) (Pre-monsoon)

Figure-21



The various Blocks exhibiting high values of T.H. concentration (>600 mg/l) are tabulated in table below-

Table 27: Partly affected Blocks exhibiting high values of total hardness (>600 mg/l)(2023

24) Pre-monsoon

S. No.	District	Block	Location	Latitude	Longitude	TH
1	Agra	Achhnera	Block office	27.17744	77.74618	1390
2	Agra	Achhnera	Raunakata	27.23413	77.87340	790
3	Agra	Fatehpur Sikri	Block office	27.09424	77.66783	615
4	Agra	Fatehpur Sikri	Hiraman	27.03504	77.78254	890
5	Agra	Jaitpur Kalan	Near BDO Office	25.42970	82.80610	780
6	Agra	Khandauli	Block office	27.31646	78.02961	1830
7	Aligarh	Gonda	Dayapur	27.64796	77.86903	870
8	Amethi	Amethi	PWD Dak Bangla	26.15618	81.80860	730
9	Amroha	Hasanpur	Block office	28.73178	78.28194	650
10	Azamgarh	Mohammadpur	Block Office	25.96242	83.02766	640
11	Baghpat	BAGHPAT	In block office	28.94399	77.22007	641
12	Chitrakoot	Karvi	Karvi	25.21476	80.91970	610
13	Etawah	Barhpura	KaneshiGhar	26.62983	79.05615	1061
14	Fatehpur	Malwan	Chaudgara	26.12301	80.58497	790
15	Firozabad	Hathwant	Block Office	27.22911	78.50407	1370
16	G.B. Nagar	Jewar	Bhagwantpur Chhatanga	28.10812	77.53917	610
17	Ghaziabad	Gaziabad Urban	Jal Kal Vibhag	28.68472	77.34354	620
18	Ghaziabad	Gaziabad Urban		28.63684	77.45571	951
19	Ghazipur	Jamania	Block Office	25.41490	83.55890	650
20	Hamirpur	Muskara	Muskara	25.66112	79.79365	660
21	Hathras	Mursan	Block H.Q.	27.56840	77.94110	740
22	Hathras	Mursan	Aharai	27.52751	77.95120	1800
23	Jalaun	Dakore	Block Campus	25.87501	79.42484	850
24	Jhansi	Bamaur	Block Campus	25.61314	79.18572	700
25	Jhansi	Bangra	Block Campus	25.31156	79.00384	820
26	Jhansi	Gursarai	Block Campus	25.61314	79.18572	680
27	Kanpur Dehat	Amraudha	Amraudha Block Office	26.19597	79.77950	791
28	Kanpur Nagar	Ghatampur	Ghatampur Block Office	26.15322	80.15543	651
29	Kanpur Nagar	Shivrajpur	Taktauli	26.66160	80.04165	701
30	Kaushambi	Muratganj	Inside block office	25.55500	81.53850	1010
31	Lalitpur	Madaro	Block Campus	24.37258	78.79309	670

S. No.	District	Block	Location	Latitude	Longitude	TH
32	Lalitpur	Bar	Kathwar	24.88333	78.66167	700
33	Mainpuri	Bewar	Bara	27.15001	79.29752	930
34	Mathura	Chaumuhan	Block HQ	27.62080	77.57930	720
35	Mathura	Chhata	Block HQ	27.72620	77.50080	2030
36	Mathura	Nandgaon	Block HQ	27.71650	77.38480	4400
37	Mathura	Nohjhil	Block HQ	27.84639	77.64993	1040
38	Mathura	Chhata	Ajnokh	27.67341	77.41045	1810
39	Mathura	Raya	Gaiyara	27.58904	77.79890	780
40	Mathura	Raya	Nagla Karan	27.53247	77.82824	1800
41	Mathura	Chhata	Umaraya	27.66540	77.47417	2210
42	Mathura	Nohjhil	Surir	27.76873	77.72069	940
43	Mathura	Nohjhil	Nankpur Khader	27.894485	77.579605	1470

Post-monsoon

Total Hardness value ranges between 50 to 4910 mg/l with an average value of 407 mg/l. Total 89.580% of water samples falling within the permissible limit of 600 mg/l (BIS- 2012) and 10.42% samples have higher value of Total Hardness concentration with the highest value 4400 mg/l recorded at Nandgaon block of Mathura district.

Table 28: Frequency Distribution of Total Hardness (2023-24) (Post-monsoon)

Range of T.H. in mg/l	0-200	201-600	>600
No. of Samples	36	282	37
%	10.14%	79.43%	10.42%

Fig. 22 Depicts the T.H. range in shallow ground water of U.P. (2023-24) (Post-monsoon)

Figure- 22

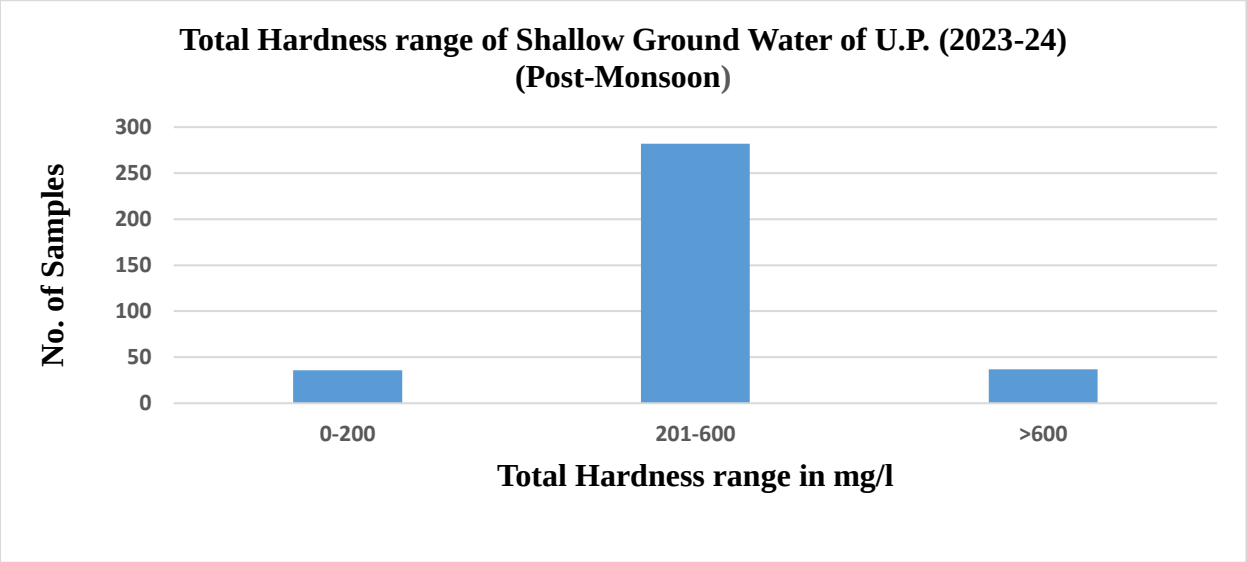


Table 29: Partly affected Blocks associated with high values of Total Hardness (>600 mg/l) (2023-24) Post-monsoon

S. No.	District	Block	Location	Latitude	Longitude	Total Hardness (> 600 mg/l)
1	Agra	Achhnera	Block H.Q	27.17744	77.74618	1500
2	Agra	Agra	City (Sai Ki Takia Crossing)	27.17066	78.00954	1270
3	Agra	Jagner	Block H.Q	26.86657	77.60168	1100
4	Agra	Khandauli	Block H.Q	27.31646	78.02961	870
5	Agra	Kheragarh	Block H.Q	26.95524	77.82219	1900
6	Agra	Saiyan	Block H.Q	26.93603	77.93505	610
7	Aligarh	Atrauli	Block H.Q.	28.04173	78.28127	620
8	Amethi	Amethi	P.W.D. Dak Bangla	26.15618	81.8086	830
9	Amroha	Hasanpur	Block Office	28.73175	78.2813	640
10	Baghpat	Baghpat	In Block Office	28.94399	77.22007	1080
11	Balrampur	Gainsari	Near Railway Station Gainsari, Not From Block Hq	27.52717	82.54719	610

S. No.	District	Block	Location	Latitude	Longitude	Total Hardness (> 600 mg/l)
12	Balrampur	Rehra Bazar	Adjacent To Block Hq. South Side Of Kali Mandir	27.18139	82.27816	610
13	Chitrakoot	Karvi	Block H.Q	25.214761°	80.919702°	710
14	Etah	Jalesar	Block H.Q	27.47980	78.30629	810
15	Fatehpur	Airayan	Block H.Q	25.769762°	81.102821°	720
16	Firozabad	Hathwant	Block H.Q	27.22911	78.50407	1310
17	Firozabad	Narkhi	Block H.Q	27.29036	78.40702	3130
18	Hathras	Mursan	Block H.Q.	27.56827	77.94061	720
19	Jalaun	Dakore	Block H.Q.	25.87501	79.42484	810
20	Jaunpur	Jaunpur	In Jaunpur City	25.74472	82.68444	620
21	Jhansi	Bamaur	Block H.Q.	25.61314	79.18572	690
22	Jhansi	Bangra	Block H.Q.	25.31156	79.00384	750
23	Jhansi	Gursarai	Block H.Q.	25.61314	79.18572	1360
24	Kanpur Dehat	Amraudha	Block H.Q	26.19597	79.77950	890
25	Kanpur Nagar	Shivrajpur	Block H.Q	26.68626	80.14051	840
26	Kaushambi	Muratganj	Block H.Q	25.55500	81.53850	1250
27	Lalitpur	Madwara	Block H.Q./ Tehsil	24.37258	78.79309	620
28	Mahoba	Charkhari	Block H.Q	25.392567°	79.747925°	740
29	Mathura	Chaumuhan	Block H.Q	27.62046	77.57940	1320
30	Mathura	Chhata	Block H.Q	27.71440	77.50632	1170
31	Mathura	Nandgaon	Block H.Q	27.71650	77.38480	4910
32	Mathura	Nohjhil	Block H.Q	27.84649	77.65005	1660
33	Mathura	Raya	Block H.Q	27.54950	77.78480	910
34	Mathura	Farah	Block H.Q	27.32443	77.75857	2640
35	Mathura	Govardhan	Block H.Q	27.49198	77.47517	820
36	Shamli	Kandhala	In Block Office	29.32300	77.26654	1110
37	Unnao	Asoha	Block H.Q.	26.58735	80.82995	960

Calcium (Ca):

Pre-monsoon

The concentration of Calcium has been found varying widely. It ranges between 4 to 524 mg/l with 99.45 % of water samples falling within the desirable limit of 75 mg/l (BIS- 2012) and 13.6% samples have higher level of calcium concentration but within maximum permissible limit of 200 mg/l. Only 0.50% water samples exhibited calcium values >200 mg/l with a maximum value of 524 mg/l recorded at Nandgaon block (distt. Mathura). The distribution of samples in different concentration ranges are given in following table-

Table 30: Frequency Distribution of Calcium (2023-24) (Pre-monsoon)

Range of Calcium in mg/l	**0-75**	**>75-200**	**>200**
No. of Samples	1190	189	7
%	85.85%	13.6%	0.50%

The various partly affected Blocks exhibiting high values of Calcium concentration(>200 mg/l) are tabulated in following table below:

Table 31: Partly affected Blocks exhibiting high values of Calcium (>200 mg/l) (2023-24) Pre-monsoon

S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**Ca**
1	Agra	Khandauli	Block office	27.31646	78.02961	216
2	Ghaziabad	Gaziabad Urban	Jal Kal Vibhag	28.68472	77.34354	202
3	Ghaziabad	Gaziabad Urban		28.63684	77.45571	297
4	Hathras	Mursan	Aharai	27.52751	77.95120	208
5	Jhansi	Bangra	Block Campus	25.31156	79.00384	244
6	Mainpuri	Bewar	Bara	27.15001	79.29752	256
7	Mathura	Nandgaon	Block HQ	27.71650	77.38480	524

Post-monsoon

Calcium ranges between 8.0 mg/l to 540 mg/l with an average value of 75.0 mg/l. Total 67.04% of water samples falling within the acceptable limit of 75 mg/l (BIS- 2012) and 29.58% samples

have higher level of calcium concentration but within permissible limit of 200 mg/l. Only 3.38% water samples exhibited calcium values >200 mg/l with a maximum value of 540 mg/l recorded at Nandgaon block of Mathura district.

Table 32: Frequency Distribution of Calcium (2023-24) (Post-monsoon)

Range of Calcium in mg/l	**0-75**	**75-200**	**>200**
No. of Samples	238	105	12
%	67.04%	29.57%	3.38%

Table 33: Partly affected Blocks associated with high values of Calcium (>200 mg/l) (2023-24) Post-monsoon

S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**Ca (>200 mg/l)**
1	Agra	Achhnera	Block H.Q	27.17744	77.74618	212
2	Agra	Kheragarh	Block H.Q	26.95524	77.82219	260
3	Baghpat	Baghpat	In Block Office	28.94399	77.22007	240
4	Balrampur	Gainsari	Near Railway Station Gainsari, Not From Block Hq	27.52717	82.54719	216
5	Firozabad	Hathwant	Block H.Q	27.22911	78.50407	228
6	Firozabad	Narkhi	Block H.Q	27.29036	78.40702	336
7	Jhansi	Bangra	Block H.Q.	25.31156	79.00384	240
8	Jhansi	Gursarai	Block H.Q.	25.61314	79.18572	400
9	Mathura	Chaumuhan	Block Hq	27.62046	77.57940	224
10	Mathura	Nandgaon	Block Hq	27.71650	77.38480	540
11	Mathura	Farah	Block Hq	27.32443	77.75857	392
12	Shamli	Kandhala	In Block Office	29.32300	77.26654	264

Magnesium (Mg):

Pre-monsoon

The main sources of magnesium in ground water are (i) rain water, (ii) evaporate deposits & (iii) weathering of magnesium silicate minerals. The source of magnesium in igneous rocks are olivine, pyroxenes, amphiboles, dark coloured micas etc. Among the sedimentary rocks, the sources are

chlorite, serpentine biotite, amphiboles, staurolite etc. Mg is one of the constituents responsible forhardness of water. The lower concentration of Mg is not harmful but higher concentration is laxative. The concentration of Magnesium has been found varying widely. It ranges between 0 mg/l to 741.6 mg/l with 49.78% of water samples falling within the desirable limit of 30 mg/l (BIS-2012) and 47.18 % samples have higher level of Mg concentration but within maximum permissible limit of 100 mg/l. Only 3.03% water samples exhibited Mg values >100 mg/l with a maximum value of 741.6 mg/l recorded at Nandgaon block (distt. Mathura). The distribution of samples in different concentration ranges are given in following table:

Table 34: Frequency Distribution of Magnesium (2023-24) (Pre-monsoon)

Range of Magnesium in mg/l	**0-30**	**>30-100**	**>100**
No. of Samples	690	654	42
%	49.78%	47.18%	3.03%

The various partly affected Blocks exhibiting high values of Magnesium concentration(>100 mg/l) are tabulated in following table below:

Table 35: Partly affected Blocks exhibiting high values of Magnesium (>100 mg/l) (2022-23) Pre-monsoon

S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**Mg**
1	Agra	Achhnera	Block office	27.17744	77.74618	228
2	Agra	Achhnera	Raunakata	27.23413	77.87340	115.2
3	Agra	Fatehpur Sikri	Block office	27.09424	77.66783	111.6
4	Agra	Fatehpur Sikri	Hiraman	27.03504	77.78254	146.4
5	Agra	Jaitpur Kalan	Near BDO Office	25.42970	82.80610	141.6
6	Agra	Khandauli	Block office	27.31646	78.02961	309.6
7	Aligarh	Atrauli	Block H.Q.	28.04420	78.28110	101
8	Aligarh	Gonda	Dayapur	27.64796	77.86903	141
9	Amethi	Amethi	PWD Dak	26.15618	81.80860	144

S. No.	District	Block	Location	Latitude	Longitude	Mg
			Bangla			
10	Azamgarh	Mohammadpur	Block Office	25.96242	83.02766	106
11	Etawah	Barhpura	KaneshiGhar	26.62983	79.05615	161
12	Fatehpur	Malwan	Chaudgara	26.12301	80.58497	122
13	Firozabad	Hathwant	Block Office	27.22911	78.50407	208.8
14	Hamirpur	Muskara	Muskara	25.66112	79.79365	106
15	Hathras	Mursan	Block H.Q.	27.56840	77.94110	127
16	Hathras	Mursan	Aharai	27.52751	77.95120	311
17	Hathras	Hathras	Singhal	27.52171	78.15991	119
18	Jalaun	Dakore	Block Campus	25.87501	79.42484	185
19	Jaunpur	Jaunpur	In Jaunpur City	25.74472	82.68444	106
20	Jhansi	Bamaur	Block Campus	25.61314	79.18572	142
21	Jhansi	Gursarai	Block Campus	25.61314	79.18572	142
22	Kanpur Dehat	Amraudha	Amraudha Block Office	26.19597	79.77950	112
23	Kanpur Nagar	Ghatampur	Ghatampur Block Office	26.15322	80.15543	131
24	Kanpur Nagar	Shivrajpur	Taktauli	26.66160	80.04165	142
25	Kaushambi	Muratganj	Inside block office	25.55500	81.53850	168
26	Lalitpur	Madaro	Block Campus	24.37258	78.79309	113
27	Lalitpur	Bar	Kathwar	24.88333	78.66167	115
28	Mathura	Chaumuhan	Block HQ	27.62080	77.57930	122
29	Mathura	Chhata	Block HQ	27.72620	77.50080	442
30	Mathura	Nandgaon	Block HQ	27.71650	77.38480	742
31	Mathura	Nohjhil	Block HQ	27.84639	77.64993	178
32	Mathura	Raya	Block HQ	27.54950	77.78480	103
33	Mathura	Chhata	Ajnokh	27.67341	77.41045	320
34	Mathura	Raya	Gaiyara	27.58904	77.79890	116
35	Mathura	Raya	Nagla Karan	27.53247	77.82824	337
36	Mathura	Chhata	Umaraya	27.66540	77.47417	473
37	Mathura	Nohjhil	Surir	27.76873	77.72069	170
38	Mathura	Chhata	Jatwari	27.57388	77.57388	104

S. No.	District	Block	Location	Latitude	Longitude	Mg
39	Mathura	Nohjhil	Nankpur Khader	27.894485	77.579605	282
40	Moradabad	Dilari	Faridpur Hazi	29.06306	78.84279	107
41	Rampur	Shahbad	Block office	28.56316	79.01111	108
42	Sant Ravidas Nagar	Bhadohi	Block Office	25.39528	82.56417	108

Post-monsoon

Magnesium ranges between 2 to 854 mg/l with an average value of 53 mg/l. Total 34.37% of water samples falling within the acceptable limit of 30 mg/l (BIS- 2012) and 57.46% samples have higher level of Mg concentration but within maximum permissible limit of 100 mg/l. Only 8.173% water samples exhibited Mg values >100 mg/l with a maximum value of 854 mg/l recorded at Nandgaon block of Mathura district.

Table 36: Frequency Distribution of Magnesium (2023-24) (Post-monsoon)

Range of Magnesium in mg/l	0-30	>30-100	>100
No. of Samples	122	204	29
%	34.36%	57.46%	8.16%

Table 37: Partly affected Blocks associated with high values of Magnesium (>100 mg/l) (2023-24) Post-monsoon

S. No.	District	Block	Location	Latitude	Longitude	Mg (>100 mg/l)
1	Agra	Achhnera	Block H.Q	27.17744	77.74618	233
2	Agra	Agra	City (Sai Ki Takia Crossing)	27.17066	78.00954	187
3	Agra	Jagner	Block H.Q	26.86657	77.60168	163
4	Agra	Khandauli	Block H.Q	27.31646	78.02961	130
5	Agra	Kheragarh	Block H.Q	26.95524	77.82219	300
6	Amethi	Amethi	P.W.D. Dak Bangla	26.15618	81.8086	132
7	Baghpat	Baghpat	In Block Office	28.94399	77.22007	115

S. No.	District	Block	Location	Latitude	Longitude	Mg (>100 mg/l)
8	Chitrakoot	Karvi	Block H.Q	25.214761°	80.919702°	108
9	Etah	Jalesar	Block H.Q	27.47980	78.30629	125
10	Fatehpur	Airayan	Block H.Q	25.769762°	81.102821°	110
11	Firozabad	Hathwant	Block H.Q	27.22911	78.50407	178
12	Firozabad	Narkhi	Block H.Q	27.29036	78.40702	550
13	Hathras	Mursan	Block H.Q.	27.56827	77.94061	106
14	Jalaun	Dakore	Block H.Q.	25.87501	79.42484	151
15	Jaunpur	Jaunpur	In Jaunpur City	25.74472	82.68444	115
16	Kanpur Dehat	Amraudha	Block H.Q	26.19597	79.77950	127
17	Kaushambi	Muratganj	Block H.Q	25.55500	81.53850	216
18	Mahoba	Charkhari	Block H.Q	25.392567°	79.747925°	101
19	Mathura	Chaumuhan	Block H.Q	27.62046	77.57940	182
20	Mathura	Chhata	Block H.Q	27.71440	77.50632	221
21	Mathura	Nandgaon	Block H.Q	27.71650	77.38480	854
22	Mathura	Nohjhil	Block H.Q	27.84649	77.65005	302
23	Mathura	Raya	Block H.Q	27.54950	77.78480	185
24	Mathura	Farah	Block H.Q	27.32443	77.75857	398
25	Mathura	Govardhan	Block H.Q	27.49198	77.47517	161
26	Mirzapur	Narayanpur	Block H.Q.	25.20000	83.02083	115
27	Shamli	Kandhala	In Block Office	29.32300	77.26654	108
28	Unnao	Asoha	Block H.Q.	26.58735	80.82995	120
29	Varanasi	Kashi Vidya Peeth	Block H.Q.	25.30639	82.96278	113

Sodium (Na):

Pre-monsoon

It is found in varying concentrations in all natural waters. It is found in evaporates and sea water in high concentration. It occurs among silicate minerals in feldspar, mica, amphiboles and pyroxenes. The main sources of sodium in ground water are (i) rain water, (ii) evaporate deposits, (iii) weathering of rock minerals present in the soil, (iv) disposal of sewage and industrial wastes containing sodium. The higher concentration of Na in drinking water is harmful especially to those suffering from cardiac, renal diseases pertaining to circulatory system of the human body.

The analysis result of shallow ground water indicates that sodium ranges between 0 mg/l to 4240 mg/l. 76.91 % of water samples exhibit sodium concentration up to 100 mg/l, 20.7% of samples shows range of >100 to 500 and 2.45% samples were found to be associated with extremely high levels of Na concentration >500 mg/l with a maximum value of 2122 mg/l recorded at Nandagon block (distt. Mathura). The distribution of samples in different concentration ranges are given in following table:

Table 38: Frequency Distribution of Sodium (2023-24) (Pre-monsoon)

Range of Sodium in mg/l	**0-100**	**>100-200**	**>200-500**	**>500**
No. of Samples	1066	191	96	34
%	76.91%	13.78%	6.92%	2.45%

Table 39: Partly affected Blocks exhibiting high values of Sodium (>500 mg/l) (2023-24) Pre-monsoon

S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**Na**
1	Agra	Achhnera	Block office	27.17744	77.74618	850.5
2	Agra	Achhnera	Raunakata	27.23413	77.87340	890.6
3	Agra	Barauli Ahir	Block office	27.12062	78.06014	614.7
4	Agra	Bichpuri	Block office	27.17265	77.89188	650.5
5	Agra	Fatehpur Sikri	Block office	27.09424	77.66783	943
6	Agra	Fatehpur Sikri	Hiraman	27.03504	77.78254	1002
7	Agra	Jaitpur Kalan	Near BDO Office	25.42970	82.80610	603.9
8	Agra	Khandauli	Block office	27.31646	78.02961	900.1
9	Aligarh	Gonda	Block H.Q.	27.83670	77.87960	609
10	Aligarh	Khair	Block H.Q.	27.94350	77.83640	561
11	Aligarh	Gonda	Dayapur	27.64796	77.86903	520
12	Balrampur	Harraya Satgawa	Haraiya Bazar	27.65591	82.27939	505
13	Firozabad	Hathwant	Block Office	27.22911	78.50407	926
14	Firozabad	Narkhi	Block Office	27.29036	78.40702	519.2
15	G.B. Nagar	Jewar	Bhagwantpur Chhatanga	28.10812	77.53917	760
16	Ghaziabad	Gaziabad Urban		28.65206	77.41092	520
17	Hathras	Sadabad	Block H.Q.	27.44660	78.04010	582
18	Hathras	Mursan	Aharai	27.52751	77.95120	1160

S. No.	District	Block	Location	Latitude	Longitude	Na
19	Hathras	Hathras	Singhal	27.52171	78.15991	1150
20	Mainpuri	Kishni	Block office	27.03160	79.26555	772
21	Mathura	Chaumuhan	Block HQ	27.62080	77.57930	505
22	Mathura	Chhata	Block HQ	27.72620	77.50080	900
23	Mathura	Nandgaon	Block HQ	27.71650	77.38480	4240
24	Mathura	Nohjhil	Block HQ	27.84639	77.64993	545
25	Mathura	Raya	Block HQ	27.54950	77.78480	825
26	Mathura	Chhata	Ajnokh	27.67341	77.41045	860
27	Mathura	Raya	Gaiyara	27.58904	77.79890	700
28	Mathura	Raya	Nagla Karan	27.53247	77.82824	920
29	Mathura	Chhata	Umaraya	27.66540	77.47417	1140
30	Mathura	Nandgaon	Kamai	27.63236	77.43359	590
31	Mathura	Nohjhil	Surir	27.76873	77.72069	700
32	Mathura	Chhata	Jatwari	27.57388	77.57388	780
33	Mathura	Nohjhil	Nankpur Khader	27.894485	77.579605	620
34	Unnao	Fatehpur Chaurasi	Daboli	26.73417	80.20528	566

Post-monsoon

Out of total samples analysed, 67.04% of water samples exhibit **Sodium** concentration up to 100 mg/l, 15.77% of samples exhibit concentration up to 200 mg/l, 11.55% of samples exhibit concentration up to 500 mg/l and 5.63% samples were found to be associated with extremely high levels of Na concentration >500 mg/l with a maximum value of 3911 **mg/l** recorded at Nandgaon block of Mathura district.

Table 40: Frequency Distribution of Sodium (2023-24) (Post-monsoon)

Range of Sodium in mg/l	0-100	100-200	200-500	>500
No. of Samples	238	56	41	20
%	67.04%	15.77%	11.54%	5.63%

Table 41: Partly affected Blocks associated with high values of Sodium (>270 mg/l) (2023-24) Post-monsoon

S. No.	District	Block	Location	Latitude	Longitude	Na (270 mg/l)
1	Agra	Achhnera	Block H.Q	27.17744	77.74618	625
2	Agra	Agra	City (Sai Ki Takia Crossing)	27.17066	78.00954	1766

S. No.	District	Block	Location	Latitude	Longitude	Na (270 mg/l)
3	Agra	Bichpuri	Block H.Q	27.17265	77.89188	555
4	Agra	Fatehabad	Block H.Q	27.02974	78.29618	515
5	Agra	Fatehpur Sikri	Block H.Q	27.09424	77.66783	432
6	Agra	Jagner	Block H.Q	26.86657	77.60168	852
7	Agra	Khandauli	Block H.Q	27.31646	78.02961	510
8	Agra	Kheragarh	Block H.Q	26.95524	77.82219	686
9	Agra	Saiyan	Block H.Q	26.93603	77.93505	331
10	Aligarh	Gonda	Block H.Q.	27.83670	77.87960	561
11	Aligarh	Khair	Block H.Q.	27.94350	77.83640	462
12	Amethi	Amethi	P.W.D. Dak Bangla	26.15618	81.8086	326
13	Etah	Jalesar	Block H.Q	27.47980	78.30629	535
14	Farrukhabad	Rajepur	Block H.Q	27.48043	79.66195	276
15	Fatehpur	Malwan	Block H.Q	26.03640	80.70700	512
16	Firozabad	Firozabad	Block H.Q	27.16539	78.37906	612
17	Firozabad	Narkhi	Block H.Q	27.29036	78.40702	2431
18	Firozabad	Tundla	Block H.Q	27.22545	78.24661	441
19	G.B. Nagar	Dankaur	Dist. H.Q	28.35330	77.55590	370
20	Ghaziabad	Loni	In Block Office	28.74674	77.28976	355
21	Hamirpur	Muskara	Block H.Q	25.66112°	79.793648°	285
22	Hamirpur	Rath	Block H.Q	25.59875°	79.576894°	356
23	Hamirpur	Maudaha	Block H.Q	25.687558°	80.096145°	350
24	Hathras	Hathras	District H.Q.	27.57300	78.05510	413
25	Hathras	Mursan	Block H.Q.	27.56827	77.94061	488
26	Hathras	Sadabad	Block H.Q.	27.44660	78.04010	597
27	Hathras	Sasni	Block H.Q.	27.69110	78.07410	318

S. No.	District	Block	Location	Latitude	Longitude	Na (270 mg/l)
28	Mainpuri	Kishni	Block H.Q	27.03170	79.26637	500
29	Mathura	Baldeo	Block H.Q	27.41192	77.82017	385
30	Mathura	Chaumuhan	Block H.Q	27.62046	77.57940	536
31	Mathura	Chhata	Block H.Q	27.71440	77.50632	1518
32	Mathura	Mant	Block H.Q	27.63086	77.71633	465
33	Mathura	Nandgaon	Block H.Q	27.71650	77.38480	3911
34	Mathura	Nohjhil	Block H.Q	27.84649	77.65005	756
35	Mathura	Raya	Block H.Q	27.54950	77.78480	681
36	Mathura	Farah	Block H.Q	27.32443	77.75857	892
37	Mathura	Mathura	Block H.Q	27.47158	77.69429	283
38	Mathura	Govardhan	Block H.Q	27.49198	77.47517	563
39	Pratapgarh	Baba Belkhar Nath	Block H.Q	25.90720	82.09990	290
40	Pratapgarh	Sangipur	Block H.Q	26.05540	81.65450	400
41	Unnao	Asoha	Block H.Q.	26.58735	80.82995	478

Potassium (K)

Pre-monsoon

Although potassium is more abundant than sodium in sedimentary rocks, its concentration in natural waters is quite low due to greater resistance to weathering of potassium bearing minerals. The main sources of K in natural waters are (i) rain water, (ii) weathering of Potash silicate minerals, (iii) potash fertilizers. K enters into structure of clay and clay bearing minerals during weathering. In illite K ions are incorporated in spaces between crystal layers where these are not removable by further ion exchange reactions (Buckman & Brady, 1960). Usually the concentration of K in water from natural source is small but high concentration of this ion if present, may be attributed to pollution.

Potassium is an essential plant nutrient. It plays an important role in maintenance of cellular organization and in keeping the protoplasm in a proper degree of hydration by stabilizing the emulsions of highly colloidal particles. K deficiency causes water imbalance. The carbohydrate metabolism is also affected by inadequate supplies of potassium.

The analysis result of shallow ground water indicates that Potassium ranges between 0 to 2895mg/l. 94.15 % of water samples exhibit Potassium concentration up to 10 mg/l, 3.74% samples are found within range of 10 – 30 mg/l and 2.09% samples were found to be associated with extremely high levels of K concentration >30 mg/l with a maximum value of 742 mg/l recorded at Nandgaon block (distt. Mathura). The distribution of samples in different concentration ranges are given in following table:

Table 42: Frequency Distribution of Potassium (2023-24) (Pre-Monsoon)

Range of Potassium in mg/l	**0-10**	**>10-20**	**>20-30**	**>30**
No. of Samples	1305	39	13	29
%	94.15%	2.81%	0.93%	2.09%

Various partly affected Blocks exhibiting high values of Potassium concentration (>30 mg/l) are tabulated in following table below:

Table 43: Partly affected Blocks exhibiting high values of Potassium (>30 mg/l) (2023-24) Pre-monsoon

S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**K**
1	Aligarh	Aligarh Urban	Firdaus Nagar	27.92828	78.06708	38
2	Bahraich	Mahasi HQ	Block Campus	27.63972	81.38750	50
3	Bahraich	Shivpur	Baundi	27.82184	81.37150	40
4	Ballia	Belhari	Block Office	25.77881	84.30445	33
5	Balrampur	Harraya Satgawa	Haraiya Bazar	27.65591	82.27939	147
6	Balrampur	Gainsara	Chandarpur	27.66203	82.65529	79
7	Chitrakoot	Manikpur	Tikariya Railway Station	25.00131	80.87560	48.8
8	Farrukhabad	Shamsabad	Block Office	27.53622	79.44050	233.8
9	Fatehpur	Hathgaon	Hathgaon	25.99670	81.01893	33
10	Ghaziabad	Gaziabad Urban	Near Meadows Café	28.72140	77.44736	35
11	Ghaziabad	Muradnagar	Prachin Shiv Mandir Gaonkheda	28.77383	77.52623	50
12	Gonda	Katra Bazar HQ	Block Campus	27.20556	81.79361	45
13	Hamirpur	Sarila	Sarila	25.77278	79.67475	64
14	Hathras	Hathras	District H.Q.	27.57300	78.05510	53.5

S. No.	District	Block	Location	Latitude	Longitude	K
15	Hathras	Sahpau	Block H.Q.	27.43690	78.13740	32.3
16	Hathras	Mursan	Aharai	27.52751	77.95120	180.0
17	Jhansi	Babina	Mathurapora	25.35472	78.48556	170
18	Kanshiram Nagar (Kasganj)	Kasganj	Block Office	27.81790	78.65615	176.5
19	Lalitpur	Jakhora	Baroda Swami	24.87861	78.29611	40
20	Lalitpur	Bar	Kathwar	24.88333	78.66167	60
21	Mathura	Mant	Block HQ	27.63070	77.71610	34.5
22	Mathura	Nandgaon	Block HQ	27.71650	77.38480	2895
23	Mathura	Nandgaon	Kamai	27.63236	77.43359	35
24	Mathura	Nohjhil	Nankpur Khader	27.894485	77.579605	500
25	Pilibhit	Puranpur	Adjacent to GP office, Madho Tanda	28.62009	80.12242	81.7
26	Sambhal	Gunnaur	Block HQ	28.23461	78.44272	41.3
27	Sitapur	Aliya	Block Office	27.67773	80.65304	36
28	Unnao	Fatehpur Chaurasi	Daboli	26.73417	80.20528	39
29	Varanasi	Kashi Vidya Peeth	Kashi Vidya Peeth	25.30639	82.96278	32

Post-monsoon

Potassium ranges between 0 to 2748 mg/l with an average value of 17.35 mg/l. Out of total samples analysed; 89.01% of water samples exhibit Potassium concentration up to 10 mg/l, 3.38% samples were found concentration up to 20 mg/l, 3.38% samples were found concentration up to 30 mg/l and 4.23% samples were found to be associated with extremely high level of K concentration >30 mg/l with a maximum value of 2748 mg/l recorded at Nandgaon block of Mathura district.

Table 44: Frequency Distribution of Potassium (2023-24) (Post-monsoon)

Range of Potassium in mg/l	0-10	10-20	20-30	>30
No. of Samples	316	12	12	15
%	89.01%	3.38%	3.38%	4.23%

Table 45: Partly affected Blocks associated with high values of Potassium (>100 mg/l)

(2023-24) Post-monsoon

S. No.	District	Block	Location	Latitude	Longitude	K (>100 mg/l)
1	Firozabad	Aron	Block H.Q	27.15023	78.70482	164
2	Kaushambi	Kara	Block H.Q	25.69530	81.35950	140.0
3	Mathura	Nandgaon	Block Hq	27.71650	77.38480	2748
4	Mathura	Nohjhil	Block Hq	27.84649	77.65005	535

4.2 SUITABILITY OF GROUND WATER FOR IRRIGATION PURPOSE

The chemical quality of water is an important factor to be considered in evaluating its usefulness for irrigation purposes. Plants grown by irrigation absorb and transpire the water but leave nearly all the salts behind in the soil, where they accumulate and eventually prevent plant growth. Excessive concentrations of solute interfere with the osmotic process by which plant root membranes are able to assimilate water and nutrients. CaCO3 has low solubility, it may precipitate harmlessly but the bulk of residual solutes present a disposal problem that must be solved effectively to maintain productivity of the irrigated soil. In areas where natural drainage is inadequate, the irrigation water infiltrating the root zone will cause water table to rise excessively. The crop productivity depends on the quality of the water used for irrigation. Water suitability for irrigation needs to be evaluated on the basis of hazards it can create in the soil, affecting yield & quality of crops.

In addition to problems caused by excessive concentration of dissolved solids (TDS), certain constituents in irrigation water are especially undesirable and some may be damaging even when present in small concentrations viz. Sodium Adsorption Ratio (SAR) & Residual Sodium Carbonate (RSC) (Annexure-A). The potential hazards to crop growth are salinity, sodicity, alkalinity & toxicity.

Electrical Conductivity (EC):

The Electrical Conductivity is a reflection of the concentration of various chemical constituents in ground water and gives the overall quality of ground water for its various uses like irrigation. The Electrical Conductivity data reveals that the majority of the samples belong to C1, C2 class as per USSL classification.

Table 46: Frequency distribution of Electrical Conductivity (2023-24)

EC ranges in µS/cm at 25ºC	**0-250 (C1)**	**251 – 750 (C2)**	**751-2250 (C3)**	**>2250 (C4)**
No. of samples	8	711	448	219
Percentage	0.57%	51.2%	32.32%	15.8%

Total Dissolved Solids (TDS):

The total load of dissolved solids in water is determined theoretically by taking into account the EC of that particular water body. Thus**, TDS = EC * .65 mg/l** where EC is in µS/cm at 25º C

TDS is responsible for the mineralization of water and gives its degree of salinity. The perusal of the analysis data of U.P. shows that the Total Dissolved Solids in the area ranges from aminimum of 96.2 mg/l to a maximum of 22217 mg/l at Nandgaon block (distt. Mathura).

Table 42: Frequency Distribution of T.D.S. in NHS of U.P. (2023-24)

Salinity as per T.D.S range	**No. of Samples**	**Percentage**
Fresh, non-saline (0-1000 mg/l)	1256	90.62
Slightly saline (1001-3000 mg/l)	113	8.15
Moderately saline (3001-5000 mg/l)	14	1.01
Highly saline (>5000 mg/l)	3	0.21

Alkalinity Hazard or Residual Sodium Carbonate (RSC):

When carbonate or bicarbonate concentration in irrigation water is relatively higher thanthe alkaline earth metals, there is tendency for calcium and magnesium ions to precipitate as carbonates in the soil, thereby reducing the level of calcium and magnesium ions and increasing the relative levels of sodium in the soil. The highly soluble sodium carbonate (black alkali) known as residual sodium carbonate (RSC) is defined as –

$$RSC = (HCO3 + CO3) - (Ca + Mg)$$

Where concentrations are expressed in meq/l.

The perusal of the analyzed data of U.P. shows that the Residual Sodium Carbonate in the area ranges from a minimum of -48.2 meq /l to a maximum of 20.2 meq /l.

Table 47: Frequency Distribution of R.S.C. in NHS Pre & Post monsoon of U.P. (2023-24)

RSC range (meq/l)	No. of samples		Percentage (%)	
	Pre-monsoon	Post-monsoon	Pre-monsoon	Post-monsoon
<1.25 (Very safe water)	998	261	72	73.8
1.25-2.5 (Marginally safe water)	188	43	13.56	12.1
>2.5 (Unsuitable water)	200	51	14.43	14.1

Sodium Adsorption Ratio:

Sodium Adsorption Ratio (SAR) is an estimate of the degree to which Sodium will be absorbed bysoil from water. Sodium in irrigation, waters adversely affects soil structure and permissibility by replacing Ca and Mg ions.

$$SAR = \frac{Na^{+}}{\sqrt{\frac{Ca^{++} + Mg^{++}}{2}}}$$

Where: Na^{+}, Ca^{+2} and Mg^{+2} are expressed in meq/l.

Table 48: Classification of ground water samples for irrigation purposes in Uttar Pradesh (2023-24)

Parameter	*Range*	*Classification*	*Pre-Monsoon*	*Post-Monsoon*
Salinity Hazard(EC)	*<250*	*Excellent*	*0.6*	*0.0*
	250-750	*Good*	*51.0*	*28.7*
	750-2250	*Permissible*	*44.4*	*59.2*
	>2250	*Unsuitable*	*4.0*	*12.1*

Alkalinity Hazard (SAR)	*<10*	*Excellent*	*96.9*	*94.6*
	10-18	*Good*	*2.7*	*5.4*
	18-26	*Doubtful*	*0.2*	*1.4*
	>26	*Unsuitable*	*0.1*	*0.0*
Residual Sodium Carbonate (RSC)	*<1.25*	*Suitable*	*72.0*	*73.8*
	1.25 - 2.5	*Marginal*	*13.56*	*12.1*
	>2.5	*Unsuitable*	*14.43*	*14.1*
Kelly's Index (KI)	*<1*	*Suitable*	*83.3*	*81.7*
	>1	*Unsuitable*	*16.7*	*18.3*
Percentage (% Na)	*<20*	*Excellent*	*72.08*	*5.92*
	20-40	*Good*	*38.04*	*43.43*
	40-60	*Permissible*	*20.9*	*23.2*
	60-80	*Doubtful*	*10.6*	11.11
	>80	*Unsuitable*	*1.15*	2.25

5.0 Heavy Metal

In the context of management of water resources, the identification of heavy metals is one of the most important aspects because of their influence on the quality of groundwater and subsequent health effects on all living creatures as groundwater is the principal natural water resource for both drinking and agricultural purposes. Water functions as a medium of transport for pollutants and they can be damaging to both the environment and human beings. Virtually any activity whereby chemicals or wastes are released to the environment, either intentionally or accidentally, can be a cause to pollute groundwater. Usually in natural environments, the concentration of the metals is very low and is mostly derived from the minerals and the weathering of geological formations and types of soils of that area. Overexploitation of groundwater resources may also lead to degradation of groundwater quality.

Heavy metals enter in groundwater from variety of sources; it can either be natural or anthropogenic (Reza & Singh, 2010). It is widely accepted that anthropogenic activity makes a significant contribution to the total aquatic burden of toxic metals by both point and non-point sources of contamination. Easily identifiable point-sources of metal pollution include mining, landfill leachate, foundries, pharmaceutical industries and smelters, and other metal-based industrial operations, whereas non-point source contamination usually arises from agricultural-runoff, fertilizers, atmospheric deposition industrial, and urban/domestic effluents that reach the sea by way of waterways, surface runoff, and precipitation (Biswas et. al. ,2017). Once ground water gets contaminated, it is difficult and expensive to clean up.

As the concentrations of heavy metals increases in environment and the capacity of soils for retaining decreases, heavy metals start leaching into groundwater through soil solution resultingin contamination of all sources of drinking water e.g. surface waters, ground water and sea water. (Bryan & Langston,1992). Generally, heavy metals cannot be removed from soil solution and when they enter into the soil, they are taken up by plant's roots along with other nutrients through osmosis ensuing poor crop production. When these crops or their products are consumed by animals or humans, they get entry into food chain. Heavy metals can bio-accumulate over a period of time and the concentrations become apparent and unmanageable. At a toxic level on the food chain, bio-accumulation of heavy metal within target organ or tissue of organisms can ultimately threaten health.

The term "Heavy metals" is used to describe more than dozens elements that are metals or

metalloids or transition metals, basic metals, lanthanides, and actinides .Being metals ions, heavy metal cannot be degraded or destroyed, therefore their stability make them as the persistent toxic substances in environment. Examples of heavy metals include mercury (Hg), cadmium (Cd), arsenic (As), chromium (Cr), thallium (Tl), lead (Pb), Copper (Cu), Zinc (Zn), Cobalt (Co), Nickel (Ni), and Iron (Fe) etc. These metals are classified in to three categories: Toxic metals Precious metals (such as Pd, Pt, Ag, Au, Ru etc.) and Radionuclides (such as U, Th, Ra, Am, etc.).

Unlike organic pollutants, heavy metals, being non-biodegradable, pose a different kind of challenge for remediation. The environmental behavior of heavy metals critically depends on their specific chemical forms in which they are present and on their binding state which influences their bioavailability, mobility, and toxicity to organisms. The metal's solubility in water and soil depend on pH, metal concentration, organic carbon, ion exchange and oxidation state of mineral components as well as the redox potential of the system.

As mentioned earlier heavy metals are dangerous because these tend to bioaccumulate. Bioaccumulation means an increase in the concentration of a chemical in an organism over time, compared to its concentration in the environment. Though some of these heavy metals are essential for the growth, development and health of living organisms, whereas others are non-essential as they have been proved toxic and perdurable (Underwood, 1956). Metals like Cu and Zn are essential as micronutrients for the life processes in animals and plants, while many other metals such as Cd and Pb have no known physiological activities (Suthar & Singh 2008). At a trace level, heavy metals like Iron, Manganese, Copper and Zinc play an important role in the metabolism of the human body. However, levels higher than prescribed limit can lead to poisoning. Metals such as Chromium (Cr), Copper (Cu), Zinc (Zn), and Lead (Pb) are generally more persistent than organic contaminants. They can be mobile in soil-solution phase and leach into aquifers.

Because of their high degree of toxicity, Arsenic, Chromium and Lead rank among the priority metals that are of public health significance. These metallic elements are considered systemic toxicants that are known to induce multiple organ damage, even at lower levels of exposure. They are also classified as human carcinogens (known or probable) according to the

U.S. Environmental Protection Agency, and the International Agency for Research on Cancer. Some of the above elements are present naturally (e.g. arsenic) but the major sources of other

elements (e.g. lead) in the environment are from pollution from industries and other human activities. Adverse health effects, such as lung and skin cancer, prostatic proliferative lesions, peripheral neuropathy, kidney dysfunction, dermal lesions, and peripheral vascular disease, have been attributed to trace metal pollution. Metals like Lead, Cadmium, Arsenic, Silver, Mercury etc. cause conditions such as heart diseases, liver injury, hypophosphatemia, neurological and cardiovascular disease and sensory disturbances. However, metal toxicity mainly depends on the metal speciation, dose and bioavailability, as well as on the rout of exposure (food, drinking water and air), accumulation, age, gender, genetics and nutritional status of exposed individuals or organisms.

5.1 EFFECT OF WATER POLLUTION ON HUMAN HEALTH

Water pollution directly impacts human health. The effects can be short term or long term. Sometimes the use of contaminated water can also be fatal. In addition to this many diseases occur when drinking water comes in contact with contaminated water: which in turn may be life threatening. The contaminated water discharged from various industrial units such as various metal processing units, paper mills, Chlor- alkali units, galvanizing or electroplating units, metal extraction units, utensil manufacturing, battery manufacturing or recycling, chemical industries etc contains large quantities of metals in dissolved form, semi soluble or as insoluble chemical compounds or mixtures as effluents. These effluents reach the river and ground water when the water from drains is discharged in the river water. From there it reaches our body through food chain or directly through drinking water. They then adversely affect different parts of our body. Sometimes they accumulate in the body and slowly show their adverse effects.

5.2 COLLECTION OF SAMPLES AND ANALYSIS

Central Ground Water Board, as a part of its national programme, has established Groundwater monitoring network stations in the state of Uttar Pradesh for periodic monitoring of groundwater levels and to study its quality variation in time and space. A total number of 937 water samples from Groundwater monitoring network stations in 2022 were collected for Heavy metal analysis after 1:1Ultrapure Nitric acid treatment. The analysis for heavy metals was carried out on ICP-MS (Thermo Fischer model i cap Q) for 8 heavy metals viz. Chromium, Manganese, Iron, Copper, Zinc, Lead, Arsenic and Uranium. Monitoring of groundwater quality is an effort to obtain

information on chemical quality through representative sampling in different hydro geological units. Groundwater is commonly tapped from phreatic aquifers through Hand pumps in major part of the state.

5.3 RESULTS AND DISCUSSION

In the present investigations an attempt has been made to evaluate the Uranium and other trace metal concentrations in drinking water samples collected from Uttar Pradesh, India. The purpose of the study was mainly to investigate the Uranium and other trace metal concentrations in drinking water samples being utilized by inhabitants of the study region and their health risk assessment from health hazard point of view. The concentration of the metals given in Annexure I have been interpreted as per the standards prescribed for drinking water (Bureau of Indian Standards (BIS) IS10500:2012. The general description of various metal concentration in ground water and their effect on Human health is described as under: -

IRON

Pre-monsoon

Iron is the most abundant element in the earth's crust and the most abundant heavy metal; it is present in the environment mainly as Fe^{2+} or Fe^{3+}.It is a common constituent of rocks and soil. It is derived from the weathering of igneous rocks and sulphide ores of sedimentary and metamorphic rocks. Iron ores like haematite, magnetite, and hydroxides may be leached from ferruginous sandstone and other rocks containing these constituents. Chemically, the most common oxidation states of iron are iron (II) and iron (III). Iron forms compounds in a wide range of oxidation states, −2 to +7. Iron also forms many coordination compounds; some of them, such as ferrocene, ferrioxalate, and Prussian blue, have substantial industrial, medical, or research applications.

Iron deficiency is the most common nutritional deficiency in the world. Most cases of iron-deficiency anaemia are mild, but if not treated can cause problems like fast or irregular heartbeat, complications during pregnancy, and delayed growth in infants and children. The behaviour of Iron in aqueous solution is controlled by redox reactions, complex formation, metabolism of organisms, exchange of iron between solution and solid phases. In ground water Fe^{++} is the dominant species which is oxidised to Fe^{+++} when water is under aerobic conditions. Iron is required for life. The average adult human contains about 0.005% body weight of iron.

Iron an essential element in human nutrition, is an integral component of cytochromes, porphyrins and metalloenzymes. Estimates of the minimum daily requirement for iron depend on age, sex, physiological status, and iron bioavailability and range from about 10 to 50 mg/day. Iron-containing proteins participate in transport, storage and use of oxygen. Examples of iron-containing proteins in higher organisms include haemoglobin, cytochrome and catalase. The ingestion of large quantities of iron results in haemochromatosis. It is a condition in which normal regulatory mechanisms do not operate effectively which leads to tissue damage as a result of the accumulation of iron. Humans experience iron toxicity when the iron exceeds 20 milligrams for every kilogram of body mass; 60 milligrams per kilogram is considered a lethal dose.

Iron is an objectionable constituent in water supplies domestic or industrial purposes. Iron in higher concentration above 1.0mg/l, appreciably affects the taste of water and stains laundered clothes and plumbing fixtures and in the presence of Aluminium causes dirty water problems. Higher concentration of iron in drinking water may affect the metabolic system of human beings.It becomes toxic when administered parentally and the affected persons frequently develop pigmentation of skin, enlargement of liver, diabetes mellitus and heart failure. These effects are caused by a toxic accumulation of Iron in the body tissues.

1392 water samples from Groundwater monitoring network stations in 2023-24 were analysed for Iron. Iron was found to be in the range of nd – 58.62 mg/l. High values above thepermissible limit of 1.0mg/l were observed at 266 locations (Table 28). The high concentration of Iron in these areas may be geogenic. The highest concentration of 58.63mg/l Iron was observed at BDO office, Naugarh Block, Chandauli district.

The frequency distribution is of Iron is shown in the following table:

Table 49: Frequency distribution is of Iron (2023-24) (Pre-monsoon)

Range of Iron in ppm	< .01	>.01 - .30	>0.3 - 1.0	>1.0
No. of Samples	253	406	358	375
%	18.17%	29.16%	25.71%	26.93%

Fig. 23 Depicts the Iron range in shallow ground water of U.P. (2023-24) (Pre-monsoon)

Figure 23:

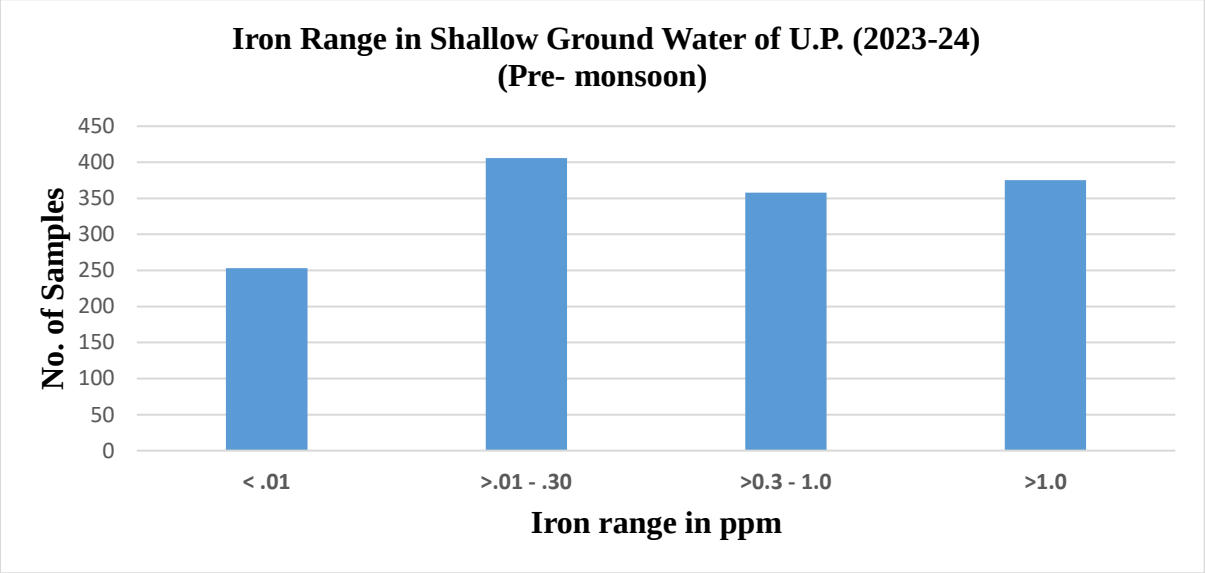


Table 50: Hotspot with respect to Iron (Fe >1.0mg/l) (2023-24) Pre-monsoon

S. No.	District	Block	Location	Latitude	Longitude	Fe (mg/L)
1	Ambedkar Nagar	Bhiti	Block HQ	26.47154	82.30549	1.657
2	Ambedkar Nagar	Tanda	Block HQ	26.53864	82.64000	2.719
3	Amethi	Bahadurpur	Block HQ	26.26678	81.51818	1.110

S. No.	District	Block	Location	Latitude	Longitude	Fe (mg/L)
4	Amethi	Bhetya	Block HQ	26.21066	81.87518	1.858
5	Amethi	Gauriganj	PWD Entrance, Near Bike Stand	26.20681	81.68707	7.891
6	Amethi	Sangrampur	Block HQ	26.07751	81.83804	1.687
7	Amethi	Shukul Bazar	Mahona West, Kuraishi Mohalla	26.53346	81.58725	2.868
8	Amroha	Hasanpur	Sabadarpur SARKI	28.67512	78.41279	2.757
9	Amroha	Joya	Patai	28.80624	78.55628	7.171
10	Ayodhya	Bikapur	Block HQ , Near Peepal Tree	26.59490	82.13880	1.348
11	Ayodhya	Mayabazar	Near Thana Maharajganj	26.64514	82.33258	2.834
12	Ayodhya	Mawai	Block HQ	26.74435	81.58564	5.683
13	Ayodhya	Rudauli	Block HQ	26.78081	81.75506	1.012
14	Ayodhya	Bikapur	Shukl ka Purwa	26.52895	82.15828	3.256
15	Azamgarh	Haraiya	Sahbadiya Sultanpur	25.25075	83.41022	1.392
16	Azamgarh	Mohammadpur	Block Office	25.96242	83.02766	11.565
17	Bahraich	Tejawapur HQ	Block Campus	27.53139	81.49583	5.365
18	Bahraich	Huzurpur	Block Campus	27.35278	81.66583	4.719
19	Bahraich	Mahasi HQ	Block Campus	27.63972	81.38750	4.513
20	Bahraich	Mihipurwa	Mote Baba	28.29610	81.17030	1.624
21	Bahraich	Mahasi	Godmar khurd	27.54422	81.40649	3.474
22	Bahraich	Mahasi	Mahua Chauraha	27.68271	81.33429	1.582
23	Bahraich	Shivpur	Baundi	27.82184	81.37150	2.274
24	Bahraich	Fakharpur	Kodahi	27.43009	81.46252	4.730
25	Bahraich	Jarwal	Nasirganj, Barauli Ghat	27.16010	81.51392	1.613
26	Ballia	Sohaon	Chitbaragoan	25.73440	83.98120	1.554
27	Ballia	Maniyar	Pilui Fattepur	25.99024	84.14443	5.973
28	Ballia	Bansdeeh	Block Office	25.87439	84.21642	5.176
29	Ballia	Belhari	Block Office	25.77881	84.30445	8.989
30	Ballia	Murali Chhapara	Block Office	25.72846	84.50528	1.716
31	Ballia	Rasara	Block Office	25.86830	83.86164	3.393
32	Ballia	Bairya	Block Office	25.79578	84.47864	5.084

S. No.	District	Block	Location	Latitude	Longitude	Fe (mg/L)
33	Ballia	Dubahar	Block Office	25.77011	84.17503	1.710
34	Ballia	Reoti	Block Office	25.84180	84.37180	1.200
35	Ballia	Sohaon	Block Office	25.62909	84.00429	4.155
36	Balrampur	Balrampur	Ganga Didba, 5 km from Balrampur towards Tulsipur	27.43410	82.21549	11.919
37	Balrampur	Balrampur	Near house of Kaji Gausulwara, on Utraula Balrampur road and 200 m from bipass of Bahrich.	27.40944	82.18301	2.250
38	Balrampur	Gaidas Buzurg	Dubra Autarpur	27.26114	82.43733	5.246
39	Balrampur	Harraiya Satgharwa	Block Office	27.63611	82.17444	1.494
40	Balrampur	Harraya Satgawa	Laliya Village	27.57126	82.13757	1.374
41	Balrampur	Gainsara	Sonepur More	27.52978	82.48769	2.101
42	Balrampur	Pachpherwa	Shivpur More	27.45114	82.45114	2.368
43	Balrampur	Pachperva	Block Campus	27.53188	82.60090	2.453
44	Banda	Baberu	Baberu	25.53828	80.69601	1.124
45	Banda	Badokhar Khurd	Banda(HQ)	25.48109	80.33086	1.300
46	Barabanki	Bani Kodar	Block Office	26.79300	81.52400	1.669
47	Barabanki	Dewa	Block Office	27.03570	81.17060	1.395
48	Barabanki	Harak	Block Office	26.85530	81.22850	2.740
49	Barabanki	Masauli	Block Office	26.98090	81.32210	1.101
50	Barabanki	Nindura	Block Office	27.12140	81.07270	1.562
51	Barabanki	Ramnagar	Block Office	27.08520	81.40530	3.613
52	Barabanki	Suratganj	Block Office	27.19320	81.33440	3.274
53	Barabanki	Harak	Bhanmau	26.80139	81.26444	1.208
54	Barabanki	Suratganj	Purwa Amarsingh	27.13900	81.39140	3.385
55	Bareilly	Bhutah	Block HQ(in premises of block)	28.26866	79.64135	1.300
56	Bareilly	Bithri Chainpur	Block HQ(in premises of block)	28.33749	79.50435	3.310
57	Bareilly	Shergarh	Bunchi	28.69346	79.29672	2.867

S. No.	District	Block	Location	Latitude	Longitude	Fe (mg/L)
58	Bareilly	Bhojpura	Samshapur	28.56578	79.43141	1.233
59	Basti	Parasurampur HQ	Block Campus	26.90500	82.34000	1.389
60	Basti	Saltaua	Block Office	26.93000	82.71389	1.500
61	Bijnor	Haldaur (Khari Jhalu)	Rohniya	28.17720	78.25399	7.487
62	Bijnor	Afzalgarh	Rasulpur Abad	29.44594	78.66545	1.535
63	Bijnor	Jaleelpur	Block office	29.14748	78.18623	4.072
64	Bijnor	Mohammadpur Deomal	Chakrani/ Gidarpura	29.37647	78.13236	2.290
65	Budaun	Miaon	Allahpur Kasba	27.90825	79.25171	2.370
66	Budaun	Wajirganj	Block HQ(in premises of Block office)	28.20450	79.05810	2.058
67	Budaun	Asafpur	Block HQ	28.39401	78.91132	2.342
68	Budaun	Sahaswan	Sagrai	28.03705	78.86970	1.389
69	Budaun	Ujhani	Laxminagra	27.92245	78.85284	1.177
70	Bulandshahr	B.B. Nagar	Block H.Q.	28.64360	77.95150	2.935
71	Bulandshahr	Debai	Block H.Q.	28.19950	78.25670	3.668
72	Bulandshahr	Guloatho	Block H.Q.	28.58050	77.79060	2.024
73	Bulandshahr	Shikarpur	Amarpur	28.25991	78.06117	3.449
74	Chandauli	Naugarh	Kauwada ghat	24.81680	83.25000	2.157
75	Chandauli	Naugarh	Magrahi	24.82680	83.29930	1.022
76	Chandauli	Naugarh	Munuwat	83.32640	24.89220	3.801
77	Chandauli	Chahniya	Sirkalpur	25.48630	83.28000	3.348
78	Chitrakoot	Mau	Bargarh Mod (Kalchiha)	25.18293	81.43980	13.363
79	Chitrakoot	Manikpur	Karouha	24.99960	81.03784	13.536
80	Chitrakoot	Manikpur	Manikpur	25.06847	81.09852	1.055
81	Deoria	Bankata	In the premises of Block Office	26.27152	84.11324	3.529
82	Deoria	Barhaj	In the premises of Block Office	26.27843	83.72640	4.771
83	Deoria	Bhaluwani	In the premises of Gyan Prakash Inter College on the LHS of the gate, Opposite	26.37074	83.76155	7.098

S. No.	District	Block	Location	Latitude	Longitude	Fe (mg/L)
			Block Office			
84	Deoria	Bhatani	In the premises of Block Office	26.37953	83.92421	2.198
85	Deoria	Deoria Sadar	At the District Collectorate	26.49610	83.77830	1.188
86	Deoria	Pather Dewa	RHS of the gate in the premises of Block Office	26.58220	83.91065	1.774
87	Deoria	Rudrapur	In the premises of Block Office	26.45640	83.61360	1.592
88	Deoria	Bhaluwani	Garer chak, near house of Shivnath Chaurasia	26.39895	83.78762	1.304
89	Etah	Jaithara	Nagla Bali	27.53544	79.02711	3.262
90	Etawah	Barhpura	Kaneshi Ghar	26.62983	79.05615	1.507
91	Etawah	Saifai	Saifai Block Office	26.95650	78.96037	2.486
92	Etawah	Bharthana	Dhakpura	26.77705	79.31101	1.667
93	Farrukhabad	Kamalganj	Block Office	27.26053	79.63224	1.867
94	Farrukhabad	Kaimganj	Kampil Road Siwara	27.66268	79.17746	4.387
95	Farrukhabad	Kaimganj	Rutaul	27.53608	79.30849	3.572
96	Fatehpur	Amauli	Dhana	25.91145	80.32082	20.327
97	Ghaziabad	Bhojpur	In block office	28.79954	77.62035	3.066
98	Ghaziabad	Gaziabad Urban		28.67595	77.46766	1.089
99	Ghaziabad	Gaziabad Urban		28.71438	77.47710	5.326
100	Ghazipur	Bhadaura	Bhagauta Singha	25.47363	83.83139	3.074
101	Ghazipur	Deokali	Block Office	25.55139	83.33802	4.723
102	Ghazipur	Ghazipur	Block Office	25.56770	83.56025	2.810
103	Gonda	Haldharmau HQ	Block Campus	27.13917	81.76111	1.226
104	Gonda	Katra Bazar HQ	Block Campus	27.20556	81.79361	9.171
105	Gonda	Paraspur HQ	Block Campus	27.03472	81.78639	2.289
106	Gonda	Tarabganj HQ	Block Campus	26.95556	81.99000	2.985

S. No.	District	Block	Location	Latitude	Longitude	Fe (mg/L)
107	Gonda	Wazirganj	Suklainpurwa	27.04484	81.99686	1.222
108	Gonda	Bhabhanjot	Block Campus	27.07781	82.45446	3.685
109	Gorakhpur	Bansgaon	In the Block Office Premises	26.55294	83.35293	5.173
110	Gorakhpur	Barahalganj	In the Block Office Premises	26.28360	83.50230	2.654
111	Gorakhpur	Campierganj	In the Block Office Premises	27.02354	83.26740	1.311
112	Gorakhpur	Chargawan	In the Block Office Premises; Next to water filter	27.20150	83.26780	2.035
113	Gorakhpur	Jangal Kuriya	In the Block Office Premises	26.86680	83.31040	1.590
114	Gorakhpur	Kauriram	In the Block Office Premises	26.51610	83.41520	1.899
115	Gorakhpur	Khajani	In the Block Office Premises; LHS of the Gate	26.66460	83.24900	2.722
116	Gorakhpur	Pali	In the Block Office Premises; RHS of the gate	26.82122	83.19906	1.364
117	Gorakhpur	Sahjanwa	Block Office; In front of BDO residence	26.75130	83.18560	2.571
118	Gorakhpur	Sardar Nagar	In the Block Office Premises	26.68710	83.54700	1.706
119	Gorakhpur	Uruwa	In the Block Office Premises	26.46498	83.25694	1.069
120	Gorakhpur	Gorakhpur District HQ	Adjacent to e-district, e-gov staff parking and e-district Jan Suvidha Kendra in the Collectorate premises	26.74803	83.36970	1.713
121	Gorakhpur	Campierganj	Rajpur Pasitola	27.02530	83.30133	1.112
122	Gorakhpur	Khorabar	Sonviya Aghar Bazar	26.63409	83.43620	1.480
123	Gorakhpur	Barahalganj	Bairiyadih/Babu Bariya	26.36790	83.55932	3.557
124	Gorakhpur	Kauriram	Village- Mahopar; At the back of H/o Amarnath Maurya S/o Shivnarayan Maurya	26.51001	83.43082	1.422
125	Hamirpur	Sarila	Sarila	25.77278	79.67475	1.073

S. No.	District	Block	Location	Latitude	Longitude	Fe (mg/L)
126	Hapur	Hapur	In block office	28.73661	77.75685	2.606
127	Hapur	Hapur	Shiv Mandir Kakar	28.67114	77.82794	6.666
128	Hardoi	Shahabad	Block HQ(in premises of block)	27.64863	79.94333	2.470
129	Hardoi	Kachhauna	In compound of BDO office	27.16329	80.33552	8.372
130	Hardoi	Pihani	Arua	27.54793	80.16069	2.274
131	Hardoi	Shahabad	Dariyapur balbhadora	27.54792	79.86620	1.197
132	Hardoi	Harpalpur	Kirtiyarpur	27.28125	79.79636	4.828
133	Hardoi	Sandi	Kuliya	27.22670	79.83503	2.953
134	Hardoi	Madhavganj	Dhaniganj	27.03859	80.01935	1.966
135	Hardoi	Bhender Kalan	Gangakheda	27.05893	80.28643	1.322
136	Hardoi	Sandila	Atwadanda	27.06613	80.60442	3.461
137	Hathras	Mursan	Block H.Q.	27.56840	77.94110	5.046
138	Hathras	Sadabad	Block H.Q.	27.44660	78.04010	2.211
139	Hathras	Mursan	Aharai	27.52751	77.95120	1.142
140	Jalaun	Rampura	Husepura Surai	26.36417	79.30861	2.681
141	Jaunpur	Mungra Badshahpur	Block office	25.65630	82.18872	1.094
142	Jaunpur	Jaunpur	In Jaunpur City	25.74472	82.68444	1.831
143	Jaunpur	Dharampur	Jamaitha Village	25.73240	82.72450	2.187
144	Jaunpur	Sirkoni	Block Office	25.67167	82.72778	8.091
145	Jhansi	Baragaon	Block Campus	25.47376	78.70009	1.448
146	Jhansi	Chirgaon	Block Campus	25.57110	78.80584	2.009
147	Jhansi	District HQ	Vikas Bhawan Jhansi	25.44363	78.57753	4.072
148	Jhansi	Gursarai	Block Campus	25.61314	79.18572	2.356
149	Jhansi	Babina	Pali Pahari	25.45806	78.49306	1.444
150	Jhansi	Bangra	kanaura	25.24694	78.83972	1.099
151	Jhansi	Chirgaon	Kalyanpura	25.60639	78.94111	2.461
152	Jhansi	Bangra	Ghanghri	25.44028	78.97222	1.626
153	Jhansi	Mauranipur	Sinora	25.36000	79.07583	1.201
154	Jhansi	Bangra	Kanipur	25.26806	79.07028	2.325

S. No.	District	Block	Location	Latitude	Longitude	Fe (mg/L)
155	Jhansi	Bangra	Banda	25.15972	79.05583	1.072
156	Jhansi	Gursarai	Bhasneh	25.54167	79.15917	2.098
157	Jhansi	Mauranipur	Churaha	25.17306	79.18528	1.128
158	Jhansi	Mauranipur	Bamhauri	25.33306	79.22583	1.437
159	Jhansi	Mauranipur	Dhaypur	25.24139	79.25806	1.575
160	Jhansi	Bamaur	Bhadarwar	25.74333	79.16917	1.077
161	Jhansi	Bamaur	Domurai	25.62639	79.31806	1.782
162	Jhansi	Gursarai	Pura	25.49583	79.34000	2.854
163	Kanpur Dehat	Malasa	Malasa Block Office	26.27046	79.93851	1.110
164	Kanpur Dehat	SarvanKhera	Sarvan Khera Block Office	26.35930	80.09120	7.873
165	Kanpur Dehat	Rasoolabad	Gadhewa Bahadurpur	26.65757	79.83141	1.304
166	Kanpur Nagar	Kalyanpur	Kalyanpur Block Office	26.50420	80.25477	1.106
167	Kanpur Nagar	Ghatampur	Ghatampur Block Office	26.15322	80.15543	1.746
168	Kanpur Nagar	Shivrajpur	Shivrajpur Block Office	26.68626	80.14051	1.264
169	Kanpur Nagar	Kakwan	Gadaipur	26.78154	79.88151	1.616
170	Kanshiram Nagar (Kasganj)	Patiyali	Block Office	27.69128	78.99889	2.443
171	Kushinagar	Dudhai	In the premises of Block Office	26.79790	84.15601	3.304
172	Kushinagar	Hata	In the premises of Block Office	26.73953	83.73170	1.946
173	Kushinagar	Khadda	In the premises of Block Office	27.17891	83.88130	2.293
174	Kushinagar	Nebuwa Naurangia	In the premises of Block Office	27.05420	83.86880	3.045
175	Kushinagar	Sewarhi	In the premises of Block Office	26.72440	84.21640	1.516
176	Kushinagar	Tamkuhi	Basdila Pandey	26.75912	84.01316	1.832
177	Kushinagar	Vishunpurwa	Hiranai	27.00803	84.00466	2.057
178	Kushinagar	Sewarhi	Habirpur	26.63340	84.28095	7.699
179	Lakhimpur Kheri	Nakaha	Block HQ(in premises of block)	28.15563	80.41387	3.491
180	Lakhimpur Kheri	Ishanagasr	Block HQ(in premises of block)	27.90759	81.20733	3.805

S. No.	District	Block	Location	Latitude	Longitude	Fe (mg/L)
181	Lakhimpur Kheri	Dhaurahra	Block HQ(in premises of block)	28.00146	81.08507	2.355
182	Lakhimpur Kheri	Ramaiya Behar	Block HQ(in premises of block)	28.13528	81.03268	3.101
183	Lakhimpur Kheri	Nighasan	Block HQ(in premises of block)	28.39606	80.86365	3.269
184	Lakhimpur Kheri	Palia Kalan	Block HQ(in premises of block)	28.43721	80.56035	6.576
185	Lakhimpur Kheri	Behjam	Block HQ(in premises of block)	27.88302	80.63760	1.232
186	Lakhimpur Kheri	Mitauli	Block HQ(in premises of block)	27.81769	80.47653	3.990
187	Lakhimpur Kheri	Mohammadi	Block HQ(in premises of block)	27.94256	80.21307	1.733
188	Lakhimpur Kheri	Phoolbehar	Block HQ(in premises of block)	28.06526	80.80620	2.840
189	Lakhimpur Kheri	Ishanagar	Palia	27.92416	81.19408	1.574
190	Lakhimpur Kheri	Ishanagar	Ishangar Bypass	27.89208	81.20668	1.045
191	Lakhimpur Kheri	Ishanagar	Shivpur	27.89327	81.21541	2.186
192	Lakhimpur Kheri	Nakaha	Katkusuma	21.86418	80.93050	1.001
193	Lakhimpur Kheri	Nakaha	Jodhapurwa	27.89871	80.92569	9.799
194	Lakhimpur Kheri	Nakaha	Jhandi	27.89827	80.95592	5.448
195	Lakhimpur Kheri	Nakaha	Ramwapur	27.87146	80.96304	5.715
196	Lakhimpur Kheri	Nighasan	Rakheti	28.21900	80.89733	3.184
197	Lakhimpur Kheri	Nighasan	Bhajanpurwa	28.21880	80.86071	3.263
198	Lakhimpur Kheri	Nighasan	Baglaha Kutti	28.23429	80.85352	2.301
199	Lakhimpur Kheri	Nighasan	forest officer south range	28.24795	80.83845	1.103
200	Lakhimpur Kheri	Palia Kalan	Nemuabojh	28.44409	80.54217	1.158
201	Lakhimpur Kheri	Palia Kalan	Aithpur	28.45199	80.55785	6.523
202	Lakhimpur Kheri	Palia Kalan	Palia	28.43734	80.57762	2.270
203	Lakhimpur Kheri	Isanagar	Midaniya	27.81406	81.16249	2.349
204	Lakhimpur Kheri	Dhaurahara	khagipur	27.94884	81.03210	6.786

S. No.	District	Block	Location	Latitude	Longitude	Fe (mg/L)
205	Lakhimpur Kheri	Ramiabehar	Bhutpurwa	28.04565	81.14550	1.414
206	Lakhimpur Kheri	Palia	Digiyanai Chauraha	28.63972	80.57313	3.160
207	Lakhimpur Kheri	Palia	Massankambh	28.57604	80.68861	5.634
208	Lakhimpur Kheri	Nighasan	Ramupur	28.32829	81.00460	7.094
209	Lakhimpur Kheri	Palia	Kadeya	28.43647	80.92549	7.242
210	Lakhimpur Kheri	Nighasan	Singahi Bhiraura	28.31730	80.89225	6.110
211	Lakhimpur Kheri	Palia	Gahra farm	28.32202	80.73144	2.879
212	Lakhimpur Kheri	Palia	Bhagawant Nagar	28.38561	80.69248	4.707
213	Lakhimpur Kheri	Nighasan	Mallpur	28.17713	80.69587	2.367
214	Lakhimpur Kheri	Mitauli	Pipra Jhala	27.81003	80.58587	2.915
215	Lakhimpur Kheri	Phulbehar	Sunderwal	28.06223	80.73556	1.021
216	Lakhimpur Kheri	Lakhimpur	Bakkhari	28.07213	80.56911	2.909
217	Lakhimpur Kheri	Bijua	Gogawan	28.19462	80.59700	1.377
218	Lakhimpur Kheri	Palia	Murar Kheda	28.56630	80.42454	1.365
219	Lakhimpur Kheri	Palia	Gadaniya	28.47912	80.47140	8.530
220	Lalitpur	Bar	Block Campus	24.86233	78.58815	4.577
221	Lalitpur	Madaro	Block Campus	24.37258	78.79309	6.873
222	Lalitpur	Birdha	Sepura	24.52028	78.30139	1.538
223	Lalitpur	Birdha	Dhora	24.44361	78.32500	1.095
224	Lalitpur	Jakhora	Genchwara	24.80417	78.39806	1.586
225	Lalitpur	Birdha	Baroda Bijlon	24.54333	78.37472	1.315
226	Lalitpur	Talbehat	Bansi	24.88000	78.48000	1.741
227	Lalitpur	Birdha	Rajwara	24.72028	78.47250	8.694
228	Lalitpur	Talbehat	Katila	25.16528	78.56611	3.468
229	Lalitpur	Bar	Purapachauri	24.76472	78.56806	2.351
230	Lalitpur	Birdha	Tikra Tiwari	24.74194	78.59167	1.361
231	Lalitpur	Birdha	Kalothara	24.52556	78.57222	1.205

S. No.	District	Block	Location	Latitude	Longitude	Fe (mg/L)
232	Lalitpur	Bar	Udaipura Bus	24.78778	78.67611	1.097
233	Lalitpur	Bar	Ajnoura	24.70778	78.69167	2.641
234	Lalitpur	Mahroni	Bhaira	24.61500	78.67250	3.889
235	Lalitpur	Mandwara	Guryana	24.36667	78.66389	1.402
236	Lalitpur	Bar	Banpur	24.71222	78.73444	2.299
237	Lalitpur	Mahroni	jamunjhir	24.51667	78.87917	1.384
238	Lalitpur	Mandwara	Gidhwaha	24.37056	78.86667	1.142
239	Lucknow	Bakshi Ka talab	On Bakshi ka Talab-Indura bagh road, at Indurabagh	27.00680	80.90170	2.037
240	Lucknow	Malihabad	On Lucknow-Hardoi road, near Malihabd Railway Station	26.94220	80.75440	3.891
241	Lucknow	Mohanlalganj	On Raebareili road, at Mohanlalganj	26.61940	81.13310	1.969
242	Lucknow	Sarojni Nagar	Sarojini Nagar	26.77833	80.86528	2.061
243	Lucknow	Mohanlalganj	Nagram	26.61972	81.13333	1.333
244	Maharajganj	Ghughuli	In the premises of Block Office	27.05659	83.71882	2.508
245	Maharajganj	Maharajganj	In the premises of Block Office	27.14560	83.54210	1.197
246	Maharajganj	Ghughuli	Biraichi	27.01978	83.72928	1.360
247	Mahoba	Kabrai	Ghutbai	25.27283	79.95504	11.037
248	Mahoba	Charkhari	Rivai	25.48042	79.78386	18.260
249	Mahoba	Charkhari	Charkhari	25.39257	79.74793	5.060
250	Mainpuri	Mainpuri	Nagla Ramsingh	27.15106	78.87658	1.150
251	Maunath Bhanjan	Dohari Ghat	Block Office	26.26521	83.51091	4.169
252	Maunath Bhanjan	Badraon	Hanumanganj	26.14140	83.42536	3.942
253	Meerut	Machhra	In Block office	28.89487	77.89328	5.567
254	Meerut	Parichhat garh	In Block office	28.97823	77.92097	4.999
255	Meerut	Rajpura	In Block office	28.95580	77.75002	1.167
256	Meerut	Meerut Urban	Near Mazar	29.04880	77.67153	3.561
257	Meerut	Meerut Urban	Mangalpuri	29.02216	77.67403	2.479

S. No.	District	Block	Location	Latitude	Longitude	Fe (mg/L)
258	Meerut	Meerut Urban	Choudary Niwash	28.99393	77.66836	1.064
259	Meerut	Meerut Urban	Near Swach Community Toilet	28.98660	77.69907	2.239
260	Meerut	Meerut Urban	Near Shish Mahal	28.94211	77.69843	6.134
261	Meerut	Meerut Urban	Shiv Nageswar Temple	29.07289	77.71594	1.581
262	Meerut	Meerut Urban	New Meenakshi	29.01779	77.73686	3.058
263	Mirzapur	Chanbey	Akorhi	25.17130	82.45510	1.822
264	Mirzapur	Pahari	Pateha Kala	25.01150	82.61190	3.844
265	Mirzapur	Rajgarh	Sagaha	24.98770	82.95700	1.030
266	Mirzapur	Marihan	Hardi Bowthi	24.99870	82.57500	1.219
267	Mirzapur	Kon	Block Office	25.17056	82.55111	5.017
268	Moradabad	Kundarki (Dengapur)	Naronda	28.68211	78.70017	3.981
269	Moradabad	Dilari	Faridpur Hazi	29.06306	78.84279	10.024
270	Moradabad	Bhagatpur Tanda	Bhagatpur Tanda Block	28.95141	78.82683	2.102
271	Moradabad	Chhajlet	Chhajlet Block	28.98670	78.63330	1.774
272	Moradabad	Deengarpur	Deengarpur Block	28.68661	78.78786	9.372
273	Moradabad	Moondha Pandey	Moondha Pandey Block	28.82314	78.87967	2.756
274	Muzaffarnagar	Charthawal	In block office	29.54593	77.58590	3.366
275	Muzaffarnagar	Jansath	In block office	29.32874	77.85360	1.561
276	Muzaffarnagar	Khatauli	In block office	29.26756	77.72951	2.257
277	Muzaffarnagar	Purqaji	On Rosd Side	29.57123	77.82531	1.101
278	Muzaffarnagar	Morna	Dhara Singh House	29.43162	77.82585	1.556
279	Muzaffarnagar	Budhana	In Road Side Engineering Work Shope	29.28572	77.47882	2.689
280	Pilibhit	Barkhera	Mohammad Jamkhadia	28.43702	79.80510	1.451
281	Pilibhit	Barkhera	Ghazipur kunda	28.46734	79.79303	1.547
282	Pilibhit	Amaria	Balliya	28.82629	79.71394	2.938
283	Pilibhit	Marauri	Sarai Sunderpur	28.57351	79.86978	1.529
284	Pilibhit	Puranpur	Raipur	28.57321	80.00338	1.286
285	Pilibhit	Puranpur	Babanpur ,Tila	28.70289	80.28970	2.626

S. No.	District	Block	Location	Latitude	Longitude	Fe (mg/L)
			no.4			
286	Pilibhit	Barkhera	Paint Bojhi	28.43467	79.90601	2.302
287	Pratapgarh	Kalakankar	Block Office	25.80170	81.36920	2.414
288	Pratapgarh	Sandwa Chandrika	Block Office	26.03770	81.88380	1.238
289	Pratapgarh	Patti	Bhogipur Katar	25.89361	82.30389	1.343
290	Prayagraj	Meja	BDO, Office	25.14390	82.10170	13.961
291	Prayagraj	Koraon	Badokhar Korao	24.90417	81.94500	1.140
292	Prayagraj	Meja	Kachara	25.12528	81.88556	16.633
293	Prayagraj	Shankargarh	Gadaya Lonipara	25.09750	81.70306	1.364
294	Raebareli	Amawan	Block HQ	26.28287	81.30803	2.351
295	Raebareli	Kheron	Block HQ	26.29174	80.92767	17.849
296	Raebareli	Harchandpur	Majare Tera, Baraula	26.39792	81.04207	2.647
297	Raebareli	Shivgarh	Chandi Singh ka Purwa	26.53345	81.30264	1.284
298	Rampur	Chamrauwa	Kajarhai	28.82769	79.14050	3.379
299	Rampur	Milak	Brijpur	28.67988	79.12907	6.631
300	Rampur	Milak	Hand pump of CHC.	28.61294	79.16812	4.509
301	Saharanpur	Nagal		29.84271	77.62907	2.658
302	Saharanpur	Sarsawa		30.01166	77.39926	7.034
303	Saharanpur	Sadhauli Kadeem	Manjhali Village, Satish House	30.18926	77.51715	2.276
304	Saharanpur	Muzaffarabad	Primary School Maurangpur	30.17519	77.77448	2.541
305	Sambhal	Sambhal	Ibrahimpur Mirza	28.54930	78.71327	2.466
306	Sambhal	Baniakhera	Narsai	28.43220	78.71327	2.900
307	Sant Kabir Nagar	Khalilabad	Inside the PWD Inspection Bunglow right in front of the gate	26.75960	83.08360	3.254

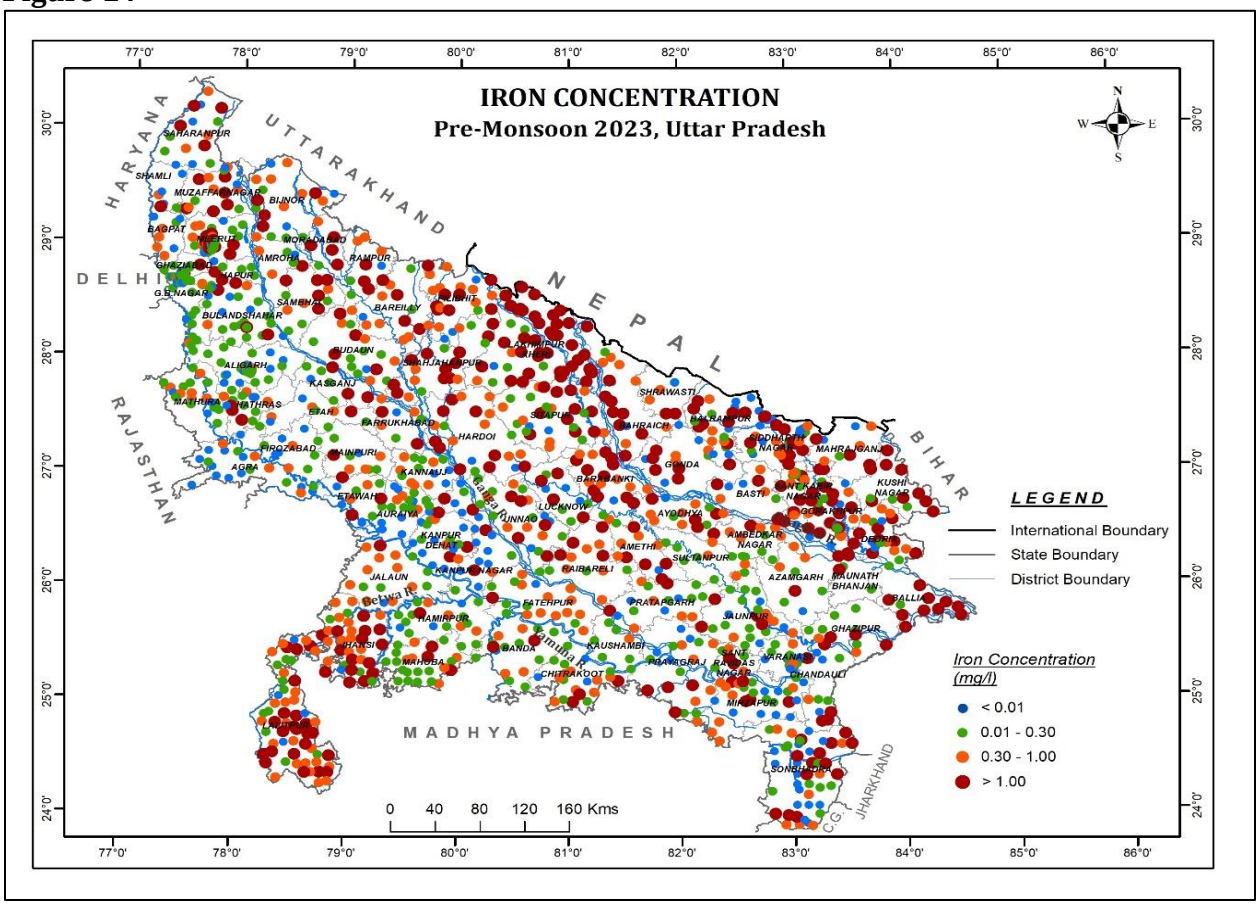
S. No.	District	Block	Location	Latitude	Longitude	Fe (mg/L)
308	Sant Kabir Nagar	Mehndawal	In the Block Office Premises in front of ADO Samaj Kalyan Office	26.96784	83.10205	1.993
309	Sant Kabir Nagar	Semariyawan	In the Block Office Premises	26.88346	82.91747	1.644
310	Sant Kabir Nagar	Haisar Bazar	Shukul Mundera	26.51016	83.15375	2.011
311	Sant Kabir Nagar	Nath Nagar	On Mushkilpur road towards Nathnagar Block, nearly 70m from Indian Oil Petrol Pump (Village-Jasovar)	26.65126	83.02617	1.750
312	Sant Kabir Nagar	Pauli	Village-Para Hargovind; In front of house of Shri Ramhit near Shivji Temple on Ram Janki Marg	26.57030	82.94340	1.261
313	Sant Kabir Nagar	Pauli	Village- Kharcha; In front of house of Shri Hanuman Prasad Mishra	26.59222	82.88590	1.259
314	Sant Kabir Nagar	Pauli	Village- Parsa; Near Raj Traders	26.59105	82.88232	3.788
315	Sant Kabir Nagar	Pauli	Village-Kheswasiyan; Adjacent to H/o Ram Bharat Yadav S/o Tanku	26.59563	82.88788	3.417
316	Sant Ravidas Nagar	Suriyawan	Bhidua	25.37680	82.43160	1.709
317	Sant Ravidas Nagar	Gyanpur	Block Office	26.33440	82.47080	1.432
318	Shahjahanpur	Sindhauli	Block HQ	27.97037	79.97421	2.241
319	Shahjahanpur	Kalan	Block HQ	27.70331	79.44550	5.738
320	Shahjahanpur	Dadraul	Block HQ(in premises of block)	27.83672	79.87013	1.718
321	Shahjahanpur	Jaitipur	Block HQ(in premises of block)	27.99392	79.57051	1.054
322	Shahjahanpur	Khutar	Block HQ(in premises of block)	28.20825	80.26980	3.835

S. No.	District	Block	Location	Latitude	Longitude	Fe (mg/L)
323	Shahjahanpur	Bhawal Khera	Block HQ(in premises of block)	27.83940	79.91986	1.444
324	Shahjahanpur	Khutar	Chandpur	28.31849	80.30901	1.262
325	Shahjahanpur	Khutar	Haripur	28.44850	80.29425	2.727
326	Shahjahanpur	Katra	Rampur	28.05237	79.71287	1.153
327	Shahjahanpur	Dadrol	Sahbajnagar	27.91733	79.88350	6.717
328	Shahjahanpur	Sindhauli	Kaluwapur	28.06562	80.00828	1.919
329	Shahjahanpur	Kalan	Dewada	27.77766	79.41330	2.235
330	Shamli	Kandhala	Islampur Ghasauli	29.29731	77.24368	5.961
331	Shravasti	Ikauna	Block Office	27.52750	81.96778	3.353
332	Shravasti	Ikauna	Jai Chandpur Khatghara	27.52916	81.88530	1.675
333	Siddharthnagar	Barhni HQ	Block Campus	27.48917	82.77694	2.772
334	Siddharthnagar	Barhni	Campus of PWD Barhni	27.49720	82.78400	1.535
335	Siddharthnagar	Bansi	Shonkhar Chauraha near Aara mil.	27.20191	82.94893	1.507
336	Siddharthnagar	Bansi	Dearia, near house of Shri Girdhari	27.12745	82.95504	1.546
337	Siddharthnagar	Birdpur HQ	300 m from Block campus, near house of Shri Shove Nath	27.34222	83.11000	1.234
338	Siddharthnagar	Jogiya	Karaudha, on Bansi to Naugarh road	27.26829	83.03031	1.039
339	Siddharthnagar	Jogiya	Sajni village	27.25175	83.04087	3.765
340	Siddharthnagar	Barhani	Jhulnipur Chauraha	27.41769	82.88544	1.177
341	Siddharthnagar	Khesrha	Sishoniya	27.15113	82.99745	1.161
342	Siddharthnagar	Uska bazar	Block Campus	27.19546	83.11530	19.401
343	Siddharthnagar	Lotan	Block Campus	27.29000	83.24170	1.226
344	Siddharthnagar	Khesraha	Block Campus	27.07385	82.98809	9.384
345	Siddharthnagar	Bhanwapur	Block Campus	27.26494	82.64655	2.680
346	Siddharthnagar	Shoharatgarh	Block Campus	27.38172	82.95561	1.751
347	Sitapur	Bisawan	Block Office	27.48430	80.99154	1.013
348	Sitapur	Godalamau	Block Office	27.34864	80.65263	1.558

S. No.	District	Block	Location	Latitude	Longitude	Fe (mg/L)
349	Sitapur	Khairabad	Block Office	27.53327	80.74748	1.596
350	Sitapur	Laharpur	Block Office	27.72013	80.89399	3.693
351	Sitapur	Pahla	Block Office	27.37316	81.06177	2.014
352	Sitapur	Rewsa	Block Office	27.54864	81.21063	1.679
353	Sitapur	Sakaran	Block Office	27.57312	81.06009	1.496
354	Sitapur	Hargaon	Sekhwapur	27.76389	80.77833	1.097
355	Sitapur	Behta	Erapur	27.73639	81.02222	1.340
356	Sitapur	Mahmudabad	Bahoranpur	27.37167	81.23250	4.868
357	Sonbhadra	Kone	Harvaria	24.34830	83.37440	1.012
358	Sonbhadra	Myorpur	Nakkhu	24.00550	82.82650	1.851
359	Sonbhadra	Myorpur	Liladewa	23.99280	82.94020	7.678
360	Sonbhadra	Myorpur	Chak Chapki	23.97860	83.01090	7.667
361	Sonbhadra	Chopan	Chikradhawd	24.34920	83.10390	2.610
362	Sonbhadra	Kone	Padrach	24.44790	83.15430	13.263
363	Sonbhadra	Nagawa	Kodai	24.53270	83.22170	4.900
364	Sonbhadra	Kone	Naudiha	24.44140	83.27090	1.137
365	Sonbhadra	Nagawa	Keotam	24.62120	83.32610	5.172
366	Sonbhadra	Nagawa	Dhobi	24.70980	83.45370	2.862
367	Sonbhadra	Nagawa	Madpa	24.61860	83.50960	2.612
368	Sonbhadra	Chopan	Chopan	24.51333	83.02306	8.428
369	Sonbhadra	Robertganj	Robertganj	24.65639	83.05861	10.042
370	Unnao	Miyaganj	Block office	26.80220	80.48440	1.210
371	Unnao	Sikanderpur Karan	Block Office	26.44074	80.54853	4.955
372	Unnao	Sumerpur	Block Office	26.28174	80.80725	2.618
373	Unnao	Hasanganj	Hasewan	26.76333	80.57028	4.966
374	Unnao	Asoha	Darsawa	26.55417	80.78944	1.214
375	Varanasi	Chiraigaon	Chhitouna	25.36840	83.12350	4.784

The map showing Iron concentration in the state of Uttar Pradesh is represented in **Fig. 24**

Figure-24



Post-monsoon

Iron concentration was found more than 0.3 mg/l in 194 samples (54.65%). Iron was found more than 0.3 mg/l at 193 block locations (H/P IM-II) of 75 districts of Uttar Pradesh. The maximum concentration of iron is found to be 17.694 mg/l at Belhari block of Ballia district.

Table 51: Frequency distribution is of Iron (2023-24) (Post-monsoon)

Range of Iron in ppm	**< .01**	**>.01 - .30**	**>0.3 - 1.0**	**>1.0**
No. of Samples	50	112	81	112
%	14.08%	31.54%	22.81%	31.54%

Fig. 25 Depicts the Iron range in shallow ground water of U.P. (2023-24) (Post-monsoon)
Figure- 25

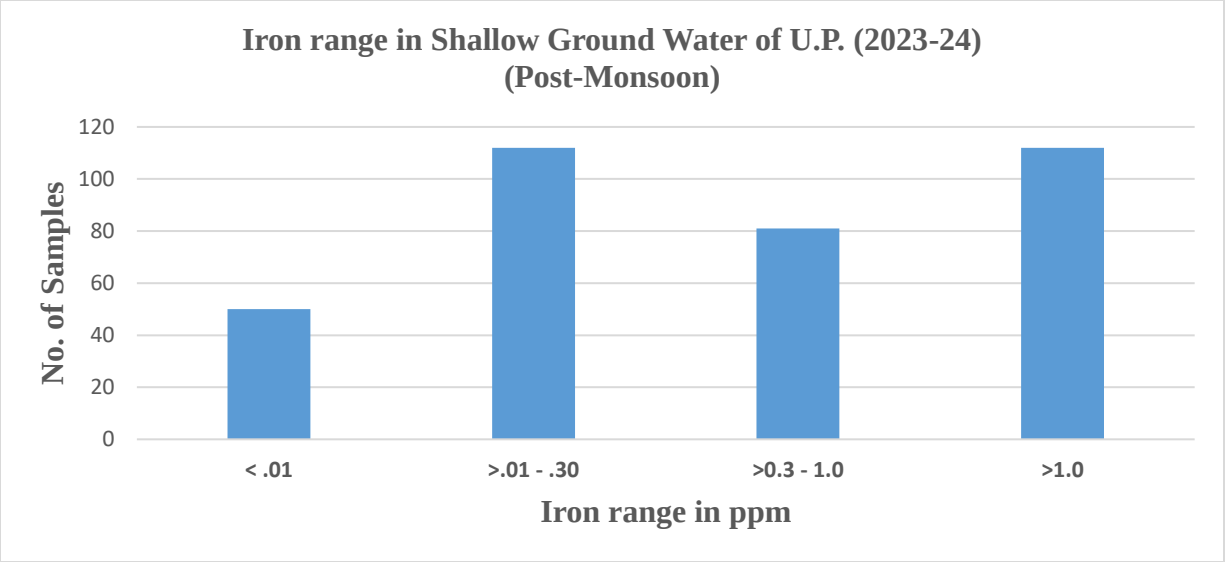


Table 52: The partly affected blocks exhibiting high values Iron (>0.3mg/l) (2023-24) Post-monsoon

S. No.	District	Block	Location	Latitude	Longitude	Fe (> 0.3 mg/l)
1	Agra	Fatehpur Sikri	Block H.Q	27.09424	77.66783	0.559
2	Aligarh	Akrabad	Block H.Q.	27.80500	78.27120	0.483
3	Aligarh	Aligarh	District H.Q.	27.89692	78.07171	0.360
4	Aligarh	Atrauli	Block H.Q.	28.04173	78.28127	0.329
5	Aligarh	Gonda	Block H.Q.	27.83670	77.87960	3.015
6	Aligarh	Khair	Block H.Q.	27.94350	77.83640	0.307
7	Aligarh	Dhanipur	Block H.Q.	27.87206	78.10761	0.776
8	Amethi	Bahadupur	Block H.Q	26.26678	81.51818	0.602
9	Amethi	Tiloee	Block H.Q	26.3928	81.47084	2.210
10	Amethi	Jagdishpur	Block H.Q	26.45599	81.62883	0.353
11	Amroha	Hasanpur	Block Office	28.73175	78.2813	0.694
12	Ayodhya	Maya Bazar	Block H.Q	26.64514	82.33258	1.674
13	Azamgarh	Mohammadpur	Block H.Q.	25.96242	83.02766	1.715
14	Baghpat	Baghpat	In Block Office	28.94399	77.22007	0.879
15	Baghpat	Chaprauli	In Block Office	29.20812	77.17869	4.778
16	Bahraich	Tejawapur	Block H.Q	27.53139	81.49583	10.657
17	Bahraich	Huzurpur	Block H.Q	27.35376	81.66348	1.201
18	Bahraich	Mahasi	Block H.Q	27.63972	81.38750	11.475

S. No.	District	Block	Location	Latitude	Longitude	Fe (> 0.3 mg/l)
19	Bahraich	Shivpur	Block H.Q	27.81083	81.39333	2.772
20	Bahraich	Fakharpur	Block H.Q	27.41944	81.52639	9.651
21	Bahraich	Mihipurwa	Block H.Q	28.02556	81.38361	6.299
22	Ballia	Bansdeeh	Block H.Q.	25.87439	84.21642	1.124
23	Ballia	Belhari	Block H.Q.	25.77881	84.30445	17.694
24	Ballia	Murali Chhapara	Block H.Q.	25.72846	84.50528	1.321
25	Ballia	Rasara	Block H.Q.	25.86830	83.86164	6.950
26	Ballia	Bairya	Block H.Q.	25.79578	84.47864	4.154
27	Ballia	Dubahar	Block H.Q.	25.77011	84.17503	2.289
28	Ballia	Reoti	Block H.Q.	25.84180	84.37180	0.948
29	Ballia	Sohaon	Block H.Q.	25.62909	84.00429	2.586
30	Balrampur	Balrampur	Block H.Q	27.42861	82.17111	1.020
31	Balrampur	Gaidas Buzurg	Block H.Q	27.26413	82.42056	1.129
32	Balrampur	Rehra Bazar	Adjacent To Block Hq. South Side Of Kali Mandir	27.18139	82.27816	1.226
33	Balrampur	Harraiya Satgharwa	Block H.Q	27.63611	82.17444	4.953
34	Balrampur	Tulsipur	Block H.Q	27.51168	82.29617	7.889
35	Barabanki	Ramnagar	Block H.Q.	27.08520	81.40530	1.023
36	Bareilly	Majhgawa	Block H.Q	28.31174	79.27350	0.561
37	Bareilly	Faridpur	Block H.Q	28.20066	79.53943	1.736
38	Bareilly	Shergarh	Block H.Q	28.65410	79.36506	1.063
39	Basti	Paras Rampur	Block H.Q	26.90552	82.34041	1.950
40	Basti	Vikramjot	Block H.Q	26.77972	82.36611	1.161
41	Basti	Saltaua	Block H.Q	26.92996	82.71361	10.020
42	Bijnor	Jaleelpur	Block Office	29.14748	78.18623	7.158
43	Bijnor	Kiratpur	Block Office	29.4995	78.20778	13.060
44	Bijnor	Mohammadpur Deomal	Block Office	29.37647	78.13236	2.907
45	Bijnor	Noorpur	Block Office	29.15163	78.40309	0.734
46	Bijnor	Afzalgarh	Block Office	29.3794	78.73179	0.650
47	Bijnor	Aku (Nehtaur)	Block Office	29.32546	78.37433	1.887
48	Budaun	Ujhani	Block H.Q	28.00273	79.01435	0.571
49	Budaun	Asafpur	Block H.Q	28.39401	78.91132	6.167
50	Budaun	Salarpur	Block H.Q	28.07057	79.13302	2.251

S. No.	District	Block	Location	Latitude	Longitude	Fe (> 0.3 mg/l)
51	Bulandshahr	Danpur	Block H.Q.	28.19255	78.20604	0.538
52	Chandauli	Chahniya	Block H.Q.	25.41778	83.20944	0.334
53	Chitrakoot	Karvi	Block H.Q	25.214761°	80.919702°	1.402
54	Chitrakoot	Pahari	Block H.Q	25.333062°	80.963863°	0.404
55	Deoria	Bankata	Block H.Q	26.27152	84.11324	0.559
56	Deoria	Tarkulwa	Block H.Q	26.62769	83.89101	1.521
57	Deoria	Bhaluwani	Opposite Block H.Q	26.37074	83.76155	3.714
58	Etah	Sheetalpur	Block H.Q	27.56962	78.67305	0.327
59	Farrukhabad	Kamalganj	Block H.Q	27.26176	79.63240	0.348
60	Farrukhabad	Mohammdabad	Block H.Q	27.30744	79.43646	12.168
61	Farrukhabad	Shamsabad	Block H.Q	27.53622	79.44050	1.045
62	Fatehpur	Amauli	Block H.Q	26.014233°	80.31044°	1.185
63	Fatehpur	Teliyani	Block H.Q	25.952118°	80.795862°	0.559
64	Fatehpur	Hathgaon	Block H.Q	25.86513	81.12705	0.697
65	Fatehpur	Asother	Block H.Q	25.75891°	80.886164°	2.235
66	Fatehpur	Bahua	Block H.Q	25.843611°	80.629875°	0.490
67	Fatehpur	Airayan	Block H.Q	25.769762°	81.102821°	1.855
68	Firozabad	Madanpur	Block H.Q	27.02716	78.64436	0.620
69	G.B. Nagar	Bisrakh	Block H.Q.	28.57148	77.43895	0.340
70	Ghaziabad	Muradnagar	In Block Office	28.77284	77.51128	4.291
71	Ghazipur	Deokali	Block H.Q.	25.55139	83.33802	4.126
72	Ghazipur	Jamania	Block H.Q.	25.41490	83.55890	2.035
73	Ghazipur	Mardah	Block H.Q.	25.80020	83.56374	0.579
74	Ghazipur	Saidpur	Block H.Q.	25.54231	83.22726	2.677
75	Gonda	Haldharmau Hq	Block H.Q	27.13900	81.76130	8.893
76	Gonda	Katra Bazar Hq	Block H.Q	27.20629	81.79379	14.219
77	Gonda	Padri Kripal Hq	Block H.Q	27.16278	81.96833	0.621
78	Gonda	Paraspur Hq	Block H.Q	27.03472	81.78639	2.644
79	Gonda	Jhanjhari	Block H.Q	27.11887	81.96722	0.897
80	Gorakhpur	Gagaha	Block H.Q	26.44930	83.43760	0.526
81	Gorakhpur	Kauriram	Block H.Q	26.51610	83.41520	1.516
82	Hamirpur	Rath	Block H.Q	25.59875°	79.576894°	0.713
83	Hamirpur	Maudaha	Block H.Q	25.687558°	80.096145°	0.456

S. No.	District	Block	Location	Latitude	Longitude	Fe (> 0.3 mg/l)
84	Hapur	Dhaualana	In Block Office	28.63297	77.64412	0.531
85	Hapur	Simbholi	In Block Office	28.76730	78.00006	0.489
86	Hardoi	Kachhauna	Block H.Q	27.16329	80.33552	6.789
87	Hardoi	Sandila	Block H.Q	27.05663	80.51737	0.323
88	Hardoi	Shahabad	Block H.Q	27.64863	79.94333	2.575
89	Hardoi	Tadiyawan	Block H.Q	27.43792	80.24056	6.133
90	Hathras	Mursan	Block H.Q.	27.56827	77.94061	1.238
91	Hathras	Sadabad	Block H.Q.	27.44660	78.04010	1.241
92	Hathras	Sasni	Block H.Q.	27.69110	78.07410	0.364
93	Jalaun	Dakore	Block H.Q.	25.87501	79.42484	0.496
94	Jaunpur	Mungra Badshahpur	Block H.Q	25.65630	82.18872	0.711
95	Jaunpur	Machchli Sahar	Block H.Q	25.66820	82.39920	0.536
96	Jaunpur	Jaunpur	In Jaunpur City	25.74472	82.68444	0.971
97	Jaunpur	Ram Nagar	Block H.Q	25.55528	82.62000	3.319
98	Jaunpur	Rampur	Block H.Q	25.49028	82.57083	1.071
99	Jaunpur	Shahganj	Block H.Q	25.96611	82.67500	0.419
100	Jhansi	Babina	Block H.Q.	25.23391	78.46967	0.341
101	Jhansi	Gursarai	Block H.Q.	25.61314	79.18572	0.425
102	Jhansi	Mauranipur	Block H.Q.	25.25540	79.14371	0.893
103	Kannauj	Gugrapur	Block H.Q	27.12548	79.86535	3.208
104	Kanpur Dehat	Rasoolabad	Block H.Q	26.66804	79.78387	0.779
105	Kanpur Nagar	Shivrajpur	Block H.Q	26.68626	80.14051	0.699
106	Kanpur Nagar	Chaubepur	Block H.Q	26.62149	80.19182	1.285
107	Kanpur Nagar	Kakwan	Block H.Q	26.74262	79.97628	0.648
108	Kasganj	Patiyali	Block H.Q	27.69128	78.99889	0.418
109	Kasganj	Sahawar	Block H.Q	27.79010	78.82921	2.755
110	Kaushambi	Kara	Block H.Q	25.69530	81.35950	0.492
111	Kaushambi	Muratganj	Block H.Q	25.55500	81.53850	0.889
112	Kushinagar	Dudhai	Block H.Q	26.79790	84.15601	4.761
113	Kushinagar	Nebuwa Naurangia	Block H.Q	27.05420	83.86880	4.503

S. No.	District	Block	Location	Latitude	Longitude	Fe (> 0.3 mg/l)
114	Kushinagar	Sewarhi	Block H.Q	26.72440	84.21640	4.304
115	Kushinagar	Hata	Block H.Q	26.73953	83.73170	1.123
116	Kushinagar	Khadda	Block H.Q	27.17891	83.88130	4.344
117	Lakhimpur	Gola	Block H.Q	28.06955	80.48283	1.983
118	Lakhimpur	Pasgawan	Block H.Q	27.82056	80.16778	0.350
119	Lakhimpur Kheri	Nakaha	Block H.Q	27.88518	80.94799	1.407
120	Lakhimpur Kheri	Isanagar	Block H.Q	27.90759	81.20733	7.555
121	Lakhimpur Kheri	Palia Kalan	Block H.Q	28.43721	80.56035	4.807
122	Lalitpur	Bar	Block H.Q.	24.86233	78.58815	0.560
123	Lalitpur	Jakhauar	Block H.Q.	24.89603	78.33887	0.333
124	Lalitpur	Mehrauni	Block H.Q.	24.57686	78.72659	0.343
125	Maharajganj	Ghughuli	Block H.Q	27.05659	83.71882	7.182
126	Maharajganj	Maharajganj	Block H.Q	27.14299	83.55867	8.330
127	Maharajganj	Pharenda	Block H.Q	27.09620	83.31020	2.631
128	Mahoba	Kabrai	Block H.Q	25.298552°	79.89442°	1.604
129	Mahoba	Charkhari	Block H.Q	25.392567°	79.747925°	1.945
130	Mathura	Chaumuhan	Block H.Q	27.62046	77.57940	0.604
131	Mathura	Nandgaon	Block H.Q	27.71650	77.38480	1.542
132	Mathura	Nohjhil	Block H.Q	27.84649	77.65005	1.220
133	Maunath Bhanjan	Dohari Ghat	Block H.Q.	26.26521	83.51091	1.945
134	Meerut	Meerut	In Block Office	28.95943	77.68291	7.729
135	Meerut	Parichhat Garh	In Block Office	28.97823	77.92097	1.482
136	Meerut	Sardhana	In Block Office	29.14356	77.60774	0.445
137	Mirzapur	Halia	Block H.Q.	24.82056	82.33500	4.217
138	Mirzapur	Narayanpur	Block H.Q.	25.20000	83.02083	0.431
139	Mirzapur	Kon	Block H.Q.	25.17056	82.55111	0.958
140	Moradabad	Bilari	Block Office	28.60986	78.79769	1.545
141	Moradabad	Bhagatpurtanda	Block Office	28.95141	78.82683	1.307
142	Moradabad	Chhajlet	Block Office	28.97761	78.63385	1.459
143	Moradabad	Deengarpur	Block Office	28.68661	78.78786	3.372
144	Moradabad	Moondha Pandey	Block Office	28.82314	78.87967	1.928

S. No.	District	Block	Location	Latitude	Longitude	Fe (> 0.3 mg/l)
145	Muzaffarnagar	Charthawal	In Block Office	29.54593	77.58590	3.136
146	Muzaffarnagar	Purkaji	In Block Office	29.64902	77.83397	0.452
147	Pilibhit	Puranpur	Block H.Q	28.50852	80.15064	0.787
148	Pilibhit	Barkhera	Block H.Q	28.45512	79.80675	0.387
149	Pratapgarh	Mandhata	Block H.Q	25.80160	81.85710	0.535
150	Pratapgarh	Sadar	Block H.Q	25.90780	81.98000	7.495
151	Pratapgarh	Lakshmanpur	Block H.Q	25.89581	81.75892	2.349
152	Prayagraj	Meja	Block H.Q	25.14390	82.10170	1.742
153	Prayagraj	Phoolpur	Block H.Q	26.15940	81.52190	0.340
154	Prayagraj	Saidabad	Block H.Q	26.15952	81.52078	0.709
155	Prayagraj	Pratappur	Block H.Q	29.20000	78.86220	0.684
156	Raebareli	Lalganj	Block H.Q	26.16814	80.97926	0.476
157	Raebareli	Maharajganj	Block H.Q	26.38476	81.27438	0.474
158	Raebareli	Unchahar	Block H.Q	25.89885	81.29802	3.491
159	Rampur	Milak	Chc, Milak	28.61294	79.16812	3.052
160	Rampur	Swar	Block Office	29.0328	79.05935	3.020
161	Saharanpur	Rampur	In Block Office	29.81354	77.45332	0.778
162	Saharanpur	Sarsawa	In Block Office	30.01166	77.39926	1.911
163	Sambhal	Baniakhera	Block Office	28.46179	78.78312	0.311
164	Sambhal	Panwasa	Block Office	28.4835	78.57948	0.747
165	Sambhal	Gunnaur	Block Office	28.23461	78.44272	0.310
166	Sant Kabir Nagar	Baghauli	Block H.Q	26.87640	83.08525	1.526
167	Sant Kabir Nagar	Khalilabad	Block H.Q	26.75960	83.08360	2.158
168	Sant Kabir Nagar	Nath Nagar	Block H.Q	26.66120	83.03830	0.816
169	Sant Kabir Nagar	Pauli	Block H.Q	26.58580	82.90190	0.717
170	Shahjahanpur	Dadraul	Block H.Q	27.83672	79.87013	1.415
171	Shahjahanpur	Jaitipur	Block H.Q	27.99392	79.57051	2.047
172	Shahjahanpur	Mirzapur	Block H.Q	27.67052	79.54801	0.977
173	Shahjahanpur	Sindhauli	Block H.Q	27.97037	79.97421	1.163
174	Shahjahanpur	Jalalabad	Block H.Q	27.72222	79.66490	0.425
175	Shahjahanpur	Kalan	Block H.Q	27.70331	79.44550	2.941

S. No.	District	Block	Location	Latitude	Longitude	Fe (> 0.3 mg/l)
176	Shahjahanpur	Khutar	Block H.Q	28.20825	80.26980	3.070
177	Shamli	Kairana	In Block Office	29.39971	77.21693	3.113
178	Shamli	Thana Bhawan	In Block Office	29.59136	77.42609	1.463
179	Shravasti	Hariharpur Rani	Block H.Q	27.74000	81.83222	1.536
180	Shravasti	Ikauna	Block H.Q	27.52564	81.96968	4.783
181	Siddharthnagar	Barhni	Block H.Q	27.48917	82.77694	3.494
182	Siddharthnagar	Bansi	Block H.Q	27.17167	82.92917	1.291
183	Siddharthnagar	Birdpur	300 M From Block Campus, Near House Of Sh. Shobh Nath	27.36617	83.10131	0.986
184	Sitapur	Biswan	Block H.Q.	27.48430	80.99154	1.747
185	Sitapur	Sitapur	Block H.Q.	27.57357	80.67948	0.430
186	Sitapur	Pisawan	Block H.Q.	27.58860	80.40257	0.345
187	Sonbhadra	Asandih	Block H.Q.	23.90080	83.15017	1.734
188	Sonbhadra	Chopan	Block H.Q.	24.51333	83.02306	0.972
189	Sonbhadra	Robertsganj	Block H.Q.	24.65639	83.05861	1.997
190	Unnao	Asoha	Block H.Q.	26.58735	80.82995	0.536
191	Unnao	Nawabganj	Block H.Q.	26.62105	80.67590	3.365
192	Unnao	Safipur	Block H.Q.	26.63280	80.31970	0.335
193	Varanasi	Cholapur	Block H.Q.	24.49667	82.99722	1.652

The map showing Iron concentration in the state of Uttar Pradesh is represented in Figure-23

Figure-23

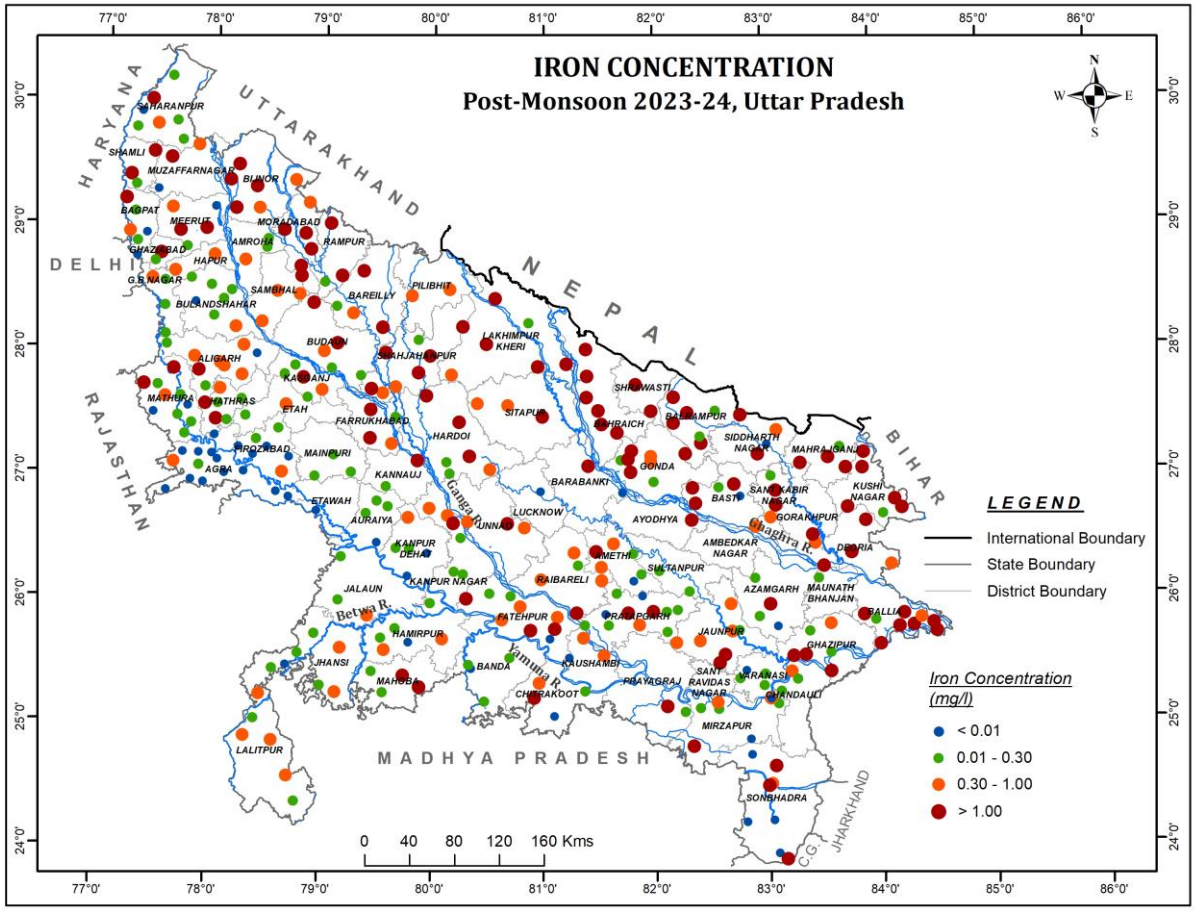


Table : 53 Periodic Variation in Suitability Classes of Fe in GW of Uttar Pradesh.

Parameter	Class	2019 (n=824)	2021 (n=912)	2022 (n=937)	2023 (n=1392)	Periodic Variation
Fe (mg/l)	< 1	73	68	72	73	-0.49
	> 1	27	32	28	27	0.49

Table 54. Trend of Iron in shallow GW of Uttar Pradesh.

Year	No. of districts affected by Iron	Total of locations affected by Iron	Total Number of samples Analysed	%age of locations affected by Iron
2019	55	227	824	27.6
2021	63	293	912	32.1
2022	66	266	937	28.4
2023	66	375	1392	26.9

Figure 24:

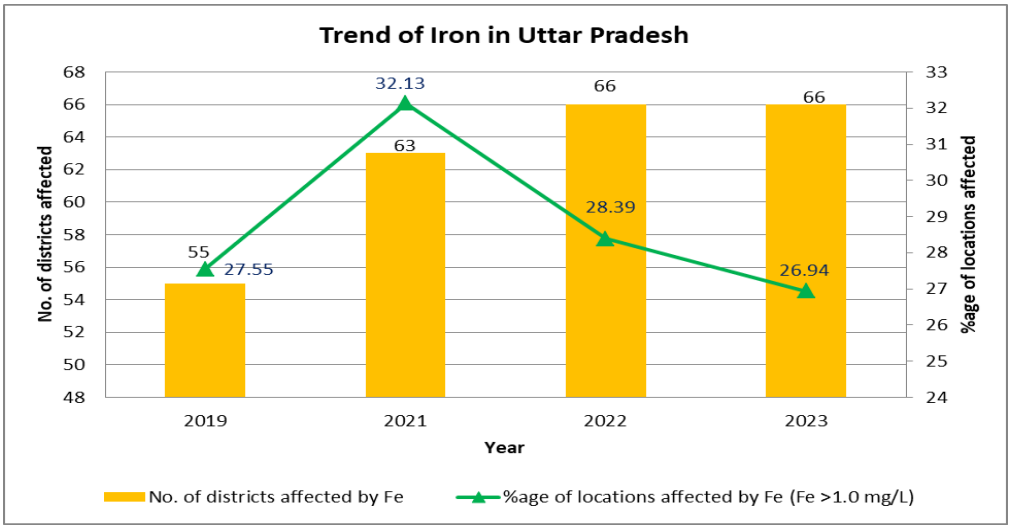


Figure 24 : Trend of Iron in shallow GW of Uttar Pradesh

MANGANESE

Pre-monsoon

Manganese is a mineral that naturally occurs in rocks and soil and may also be present due to underground pollution sources. Naturally occurring manganese is composed of one stable isotope, ^{55}Mn. The most common oxidation states of manganese are +2, +3, +4, +6, and +7, though all oxidation states from −3 to +7 have been observed. The most stable oxidation state for manganese is +2, which has a pale pink color, Manganese comprises about 0.1% of the Earth's crust, the 12th most abundant of the crust's elements.

Manganese is one out of three toxic essential trace elements, which means that it is not only necessary for humans to survive, but it is also toxic when too high concentrations are present in a human body. Manganese is an essential human dietary element. It is present as a coenzyme in several biological processes, which include macronutrient metabolism, bone formation, and free radical defense systems. It is a critical component in dozens of proteins and enzymes. The human body contains about12 mg of manganese, mostly in the bones.

Manganese is seldom found alone in a water supply. It is frequently found in iron- bearing waters but is more rare than iron. Chemically it can be considered a close relative of iron since it occurs in much the same forms as iron. When manganese is present in water, it is as annoying as iron, perhaps even more so. In low concentrations it produces extremely objectionable stains on everything with which it comes in contact. Deposits collect in pipelines, and tap water may contain black sediment and turbidity due to precipitated manganese. When fabrics are washed in manganese-bearing water, dark brown or black stains are formed due to the oxidation of the manganese.

Manganese can be consumed from our diet and in our drinking water. High exposure to manganese has been associated with toxicity to the nervous system, producing a syndrome that resembles Parkinsonism. Manganese can also cause lung embolism and bronchitis. A syndrome that is caused by manganese has symptoms such as schizophrenia, dullness, weak muscles, headaches and insomnia. Excessive exposure or intake may lead to a condition known as manganism, a neurodegenerative disorder that causes dopaminergic neuronal death and symptoms similar to Parkinson's disease. Manganese is unlikely to produce other types of toxicity such as cancer or reproductive damage. Young children appear to absorb more manganese than older age groups but excrete less. This makes it particularly important for pregnant women and children to

have clean drinking water.

Due to the fact that dissolved manganese oxidizes slower than iron, it is generally more difficult to be removed from water. Pure elemental manganese metal is grey tinged with pink, brittle and somewhat harder than iron which it resembles. The pure metal is not found in nature. Manganese is present most frequently as a Manganous ion (Mn++) in water. Salts of Manganese are generally more soluble in acid than in alkaline water. In this way they are similar to iron. The Manganous ion is usually introduced to water through the solubility of Manganous bicarbonate. Manganese was found to be high i.e above the permissible limit of 0.3mg/l in 67 samples collected from Groundwater monitoring network stations (Table XXVIII). Very high values i.e above 1 mg/l were observed at Manikpur Block, Chitrakoot district, (1.156mg/l) and Bar Block office, Lalitpur district (1.023 mg/l) ; Birdha block office, Lalitpur district(1.037mg/l);Nandgaon block office, Mathura district (1.241mg/l); Diradi block, Moradabad district in HP of inspection Bungalow (1.115 mg/l).

Table 55: Frequency distribution of Manganese **(**2023-24) (Pre-monsoon)

Range of Manganese in ppm	**< .01**	**>.01 - .10**	**>0.10 - 0.30**	**>0.30**
No. of Samples	719	272	334	67
%	51.65%	19.54%	23.99%	4.81%

The high concentration of Manganese in these areas may be geogenic. The frequency distribution is of Manganese is shown in the following table:

Table 56:

S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**Mn (mg/l)**
1	Agra	Bah	Agra-Bah Road	26.90727	78.45653	0.831
2	Aligarh	Aligarh Urban	Beema Nagar	27.90594	78.04660	0.774
3	Amroha	Hasanpur	Block office	28.73178	78.28194	0.473
4	Amroha	Joya	Block office	28.83557	78.47319	0.366
5	Azamgarh	Mohammadpur	Block Office	25.96242	83.02766	0.334
6	Bahraich	Tejawapur HQ	Block Campus	27.53139	81.49583	0.323
7	Bahraich	Fakharpur	Block Office	27.41944	81.52639	0.571

S. No.	District	Block	Location	Latitude	Longitude	Mn (mg/l)
8	Bahraich	Jarwal	Nasirganj, Barauli Ghat	27.16010	81.51392	0.533
9	Ballia	Bansdeeh	Block Office	25.87439	84.21642	0.335
10	Ballia	Murali Chhapara	Block Office	25.72846	84.50528	0.521
11	Balrampur	Gaidas Buzurg	Salapur village	27.23128	82.42429	0.407
12	Balrampur	Gainsadi	Bakauli	27.53300	82.56448	0.929
13	Balrampur	Gainsadi	Near Railway station Gaisadi	27.52758	82.54710	0.566
14	Balrampur	Tulsipur	Block Office	27.52222	82.29556	0.307
15	Balrampur	Gainsara	Chandarpur	27.66203	82.65529	0.353
16	Bareilly	Bithri Chainpur	Block HQ(in premises of block)	28.33749	79.50435	0.370
17	Bijnor	Haldaur (Khari Jhalu)	Rohniya	28.17720	78.25399	0.317
18	Bijnor	Kotwali	Khushalpur	29.44075	78.53892	0.331
19	Budaun	Bisouli	Block HQ(in premises of Block office)	28.31260	78.92970	0.362
20	Budaun	Wajirganj	Block HQ(in premises of Block office)	28.20450	79.05810	0.319
21	Budaun	Dataganj	Diyori	27.98439	79.41793	0.337
22	Chandauli	Chahniya	Sirkalpur	25.48630	83.28000	0.613
23	Chitrakoot	Manikpur	Karouha	24.99960	81.03784	1.156
24	Farrukhabad	Kamalganj	Block Office	27.26053	79.63224	0.699
25	Firozabad	Hathwant	Block Office	27.22911	78.50407	0.316
26	G.B. Nagar	Dankaur	Parsaul	28.31500	77.51062	0.466
27	Ghaziabad	Gaziabad Urban		28.70443	77.45367	0.318
28	Ghazipur	Zamania	Jeevpur	25.48345	83.56817	0.320
29	Gonda	Katra Bazar HQ	Block Campus	27.20556	81.79361	0.469
30	Hapur	Garh		28.71402	78.11892	0.336
31	Hardoi	Sandi	Block HQ(in premises of block)	28.58056	77.79056	0.338
32	Hardoi	Kachhauna	In compound of BDO office	27.16329	80.33552	0.707
33	Hardoi	Sandi	Kuliya	27.22670	79.83503	0.446
34	Hathras	Mursan	Block H.Q.	27.56840	77.94110	0.451
35	Kushinagar	Nebuwa	In the premises of	27.05420	83.86880	0.385

S. No.	District	Block	Location	Latitude	Longitude	Mn (mg/l)
		Naurangia	Block Office			
36	Lakhimpur Kheri	Ishanagar	Ishangar Bypass	27.89208	81.20668	0.370
37	Lakhimpur Kheri	Nakaha	Jhandi	27.89827	80.95592	0.593
38	Lakhimpur Kheri	Nakaha	Ramwapur	27.87146	80.96304	0.336
39	Lakhimpur Kheri	Palia	Gadaniya	28.47912	80.47140	0.337
40	Lalitpur	Bar	Block Campus	24.86233	78.58815	1.023
41	Lalitpur	Birdha	Sepura	24.52028	78.30139	0.516
42	Lalitpur	Birdha	Rajwara	24.72028	78.47250	1.037
43	Mahoba	Charkhari	Rivai	25.48042	79.78386	0.503
44	Mainpuri	Mainpuri	Nagla Ramsingh	27.15106	78.87658	0.615
45	Mainpuri	Bewar	Bara	27.15001	79.29752	0.404
46	Mathura	Nandgaon	Block HQ	27.71650	77.38480	1.241
47	Meerut	Meerut Urban	Near Shish Mahal	28.94211	77.69843	0.309
48	Meerut	Meerut Urban	Lalsana Chouraha	29.04728	77.72552	0.382
49	Mirzapur	Kon	Block Office	25.17056	82.55111	0.516
50	Moradabad	Dilari	Faridpur Hazi	29.06306	78.84279	1.115
51	Moradabad	Deengarpur	Deengarpur Block	28.68661	78.78786	0.323
52	Pilibhit	Amaria	Balliya	28.82629	79.71394	0.474
53	Prayagraj	Meja	Kachara	25.12528	81.88556	0.455
54	Raebareli	Kheron	Block HQ	26.29174	80.92767	0.558
55	Saharanpur	Nagal		29.84271	77.62907	0.323
56	Saharanpur	Nakur		29.91390	77.30273	0.421
57	Shahjahanpur	Sindhauli	Block HQ	27.97037	79.97421	0.373
58	Shahjahanpur	Nigohi	Chainpura	28.18387	79.87032	0.467
59	Siddharthnagar	Barhni	Campus of PWD Barhni	27.49720	82.78400	0.608
60	Siddharthnagar	Jogiya	Sajni village	27.25175	83.04087	0.375
61	Siddharthnagar	Naugarh	Block Campus	27.27060	83.08449	0.357
62	Sitapur	Hargaon	Block Office	27.76667	80.72820	0.336
63	Sonbhadra	Myorpur	Dewri	24.08420	83.01730	0.354
64	Sonbhadra	Nagawa	Kodai	24.53270	83.22170	0.414

S. No.	District	Block	Location	Latitude	Longitude	Mn (mg/l)
65	Sonbhadra	Ghorawal	Gohrawal	24.74840	82.78030	0.340
66	Sonbhadra	Babhani	Babhani	23.95028	83.07694	0.478
67	Sonbhadra	Sdhartidand	Block Office	24.64669	83.04952	0.404

Post-monsoon

The concentration of **Manganese** was found more than 0.3 mg/l at 33 water quality stations and its maximum concentration was found 1.400 mg/l at Murali Chhapara block of Ballia district.

Table 57: Frequency distribution of Manganese (2023-24) (Post-monsoon)

Range of Manganese in ppm	< .01	>.01 - .10	>0.10 - 0.30	>0.30
No. of Samples	152	66	104	33
%	42.81%	18.59%	29.29%	9.29%

COPPER

Pre-monsoon

Copper is an element commonly found in the nature and widely used by humans. Copper is one of the few metals that can occur in nature in a directly usable metallic form (native metal). There are 29 isotopes of copper. 63Cu and 65Cu are stable, with 63Cu comprising approximately 69% of naturally occurring copper. Because copper is released both naturally and through human activity it is very widespread in the environment. Copper is often found near mines, industrial settings, landfills and waste disposals. Most copper compounds will settle and be bound to either water sediment or soil particles. Soluble copper compounds form the largest threat to human health. Usually water-soluble copper compounds occur in the environment after release through application in agriculture.

Copper is an essential trace element for all organisms and can be used in metabolic pathways.

Copper is essential to all living organisms as a trace dietary mineral because it is a key constituent of the respiratory enzyme complex cytochrome c oxidase. Copper is also required for the proper functioning of many other important enzyme systems. Copper-containing enzymes include ceruloplasmin, SOD, tyrosinase, monoamine oxidase, lysyl oxidase and phenylalanine hydroxylase (Linder & Hazegh- Azam, 1996). Adult humans can tolerate up to 12 mg/day, young children are easily toxicated by copper. In human, copper is found mainly in the liver, muscle, and bone. Because of its role in facilitating iron uptake, copper deficiency can produce anaemia-like symptoms, neutropenia, bone abnormalities, hypopigmentation, impaired growth, increased incidence of infections, osteoporosis, hyperthyroidism, and abnormalities in glucose and cholesterol metabolism. Conversely, Wilson's disease causes an accumulation of copper in body tissues. Ingesting high levels of the metal can cause abdominal pain, vomiting and jaundice (a yellowish tinge to the skin and white of the eyes that may indicate the liver is not functioning correctly) in the short term. Long- term exposure to copper can cause irritation of the nose, mouth and eyes and it causes headaches, stomachaches, dizziness, vomiting and diarrhoea. Intentionally high uptakes of copper may cause liver and kidney damage and even death.

The sources of copper in watercourse are copper mining and smelting, chemical weathering, steel production, electrical industry, agriculture and sewer sludge. Occasionally, increased levels of copper are found in the water supply due to old copper pipes. BIS 10500 (2012) has recommended an acceptable limit of 0.05 mg/l of copper in drinking water; this concentration limit can be extended to 1.5 mg /l of copper in case no alternative source of water with desirable concentration is available. Copper can be removed up to 97-98% with a reverse osmosis water filter. Cartridges using activated carbon can also remove copper from water by using adsorption.

Copper was found to be within the permissible limit of .05 mg/l in 1390 the samples collected from Groundwater monitoring network stations except at two location Madaro Block, Lalitpur district (0.093mg/l) and Bhanwapur Block, Sidhdharthnagar district (0.13 mg/l). Copper was found to be in the range of 0 to 0.13mg/l.

The frequency distribution is of Copper is shown in the following table:

Table 58: Frequency distribution of Copper (2023-24) (Pre-monsoon)

Range of Copper in ppm	**< .01**	**>.01-.05**	**>0.05**
No. of Samples	1383	7	2
%	99.35%	0.50%	0.14%

Post-monsoon

Copper concentration was found within the permissible limit of 1.5 mg/l.

Table 59: Frequency distribution of Copper (2023-24) (Post-monsoon)

Range of Copper in ppm	**< .01**	**>.01-.05**	**>0.05**
No. of Samples	352	3	0
%	99.15%	0.84%	0%

CHROMIUM

Chromium is the 21st most abundant element in Earth's crust. Chromium compounds are found in the environment from the erosion of chromium-containing rocks, and can be redistributedby volcanic eruptions. Naturally occurring chromium is composed of three stable isotopes; ^{52}Cr, ^{53}Cr and ^{54}Cr, with ^{52}Cr being the most abundant (83.789% natural abundance).

Chromium is called as metal with two faces, that it can be either beneficial or toxic to humansand animals depending on its concentrations and oxidation state (Zayed et al. 1998). Cr (III) is considered to be a trace element essential for the proper functioning of living organisms. Nutritionally, at lower concentrations, Cr(III) is an essential component of a balanced human and animal diet for preventing adverse effects in the metabolism of glucose and lipids, e.g., impaired glucose tolerance, increased fasting insulin, increased cholesterol and triglycerides, and hypoglycemic symptoms. Cr (III) at increased concentrations can interfere with several metabolic processes because of its high capability to coordinate various organic compounds

resulting in inhibition of some metalloenzyme systems (Zayed et al. 1998).

Hexavalent chromium is highly toxic, mutagenic, and carcinogenic (Lee et al. 2008). In addition, Cr(VI) is highly mobile in most environments, mainly due to its soluble nature. Adverse effects of the hexavalent form on the skin may include ulcerations, dermatitis, and allergic skin reactions. Inhalation of hexavalent chromium compounds can result in ulceration and perforation of the mucous membranes of the nasal septum, irritation of the pharynx and larynx, asthmatic bronchitis, bronchospasms and edema. Respiratory symptoms may include coughing and wheezing, shortness of breath, and nasal itch.

Chromium is widely used in industries, such as electroplating, paint and pigment manufacturing, textile, fertilizer and leather tanning (Ganguli and Tripathi 2002). These industries discharge trivalent and hexavalent chromium with waste effluent to the soil and surface water. Chromium generated by various industries, occurs in different oxidation states but Cr(III) and Cr(VI) are the most significant. The metal industry mainly discharges trivalent chromium. Hexavalent chromium in industrial wastewaters mainly originates from tanning and painting industry. Chromiummay be present in domestic waste from various synthetic materials. The element and its compounds can be discharged in surface water through various industries. The level of chromium in air and wateris generally low. In drinking water, the level of chromium is usually low as well, but at times contaminated well water may contain the dangerous concentration of Chromium(VI); hexavalent Chromium.

Chromium was found to be in the permissible limit of .05mg/l in all the 1390 samples collected from Groundwater monitoring network stations wells except two sample collected in Rath and Muskara block, Hamirpur district (0.107 and 0.055 mg/l). Chromium was found to be in the range of 0 to 0.107mg/l.

The frequency distribution is of Chromium is shown in the following table:

Table 60: Frequency Distribution of Chromium (2023-24) (Pre-Monsoon)

Range of Chromium in ppm	**< .01**	**>.01-.05**	**>.05**
No. of Samples	1384	6	2
%	99.42%	0.43%	0.14%

ZINC

Pre-monsoon

Zinc is the 24th most abundant element in Earth's crust and has five stable isotopes with 64Zn being the most abundant isotope (49.17% natural abundance). The other isotopes found in nature are 66Zn (27.73%), 67Zn (4.04%), 68Zn (18.45%), and 70Zn (0.61%). The most common zinc ore is sphalerite (zinc blende), a zinc sulfide mineral. Zinc is a necessary element for all living things as well as for human beings. Zinc is needed for the proper growth and maintenance of the human body. It is found in several systems and biological reactions, and it is needed for immune function, wound healing, blood clotting, thyroid function, and much more. Zinc containing proteins and enzymes are involved in replication and translation of genetic material. Zinc is an essential element for human diet .4 to 10 mg/day is required depending on age and pregnant women require up to 16 mg/day. Zinc is an essential mineral for prenatal and postnatal development. Food constitutes the most important source of zinc.

It is the second most abundant trace metal in humans after iron and it is the only metal which appears in all enzyme classes. In human, the biological roles of zinc are ubiquitous. It interacts with "a wide range of organic ligands", and has roles in the metabolism of RNA and DNA, signal transduction, and gene expression. It also regulates apoptosis. Zinc is an efficient Lewis acid, making it a useful catalytic agentin hydroxylation and other enzymatic reactions. Two examples of zinc-containing enzymes are carbonic anhydrase and carboxypeptidase, which are vital to the processes of carbon dioxide (CO2) regulation and digestion of proteins, respectively. Symptoms of mild zinc deficiency are diverse. Clinical outcomes include depressed growth, diarrhoea, impotence and delayed sexual maturation, alopecia, eye and skin lesions, impaired appetite, altered cognition, impaired immune functions, defects in carbohydrate utilization, and reproductive teratogenesis. Zinc deficiency depresses immunity, but excessive zinc also does the same.

Although zinc is an essential requirement for good health, excess zinc can be harmful. Consumption of excess zinc may cause ataxia, lethargy, and copper deficiency. Excessive absorption of zinc suppresses copper and iron absorption. Zinc is considered to be comparatively non-toxic if taken orally but excess amount can cause system dysfunctions that result in impairment of growth and reproduction (Institute of Environmental Conservation and Research INECAR 2000; Nolan 2003). The clinical signs of zinc toxicosis have been reported as vomiting,

diarrhoea, bloody urine, icterus (yellow mucus membrane), liver failure, kidney failure and anaemia.

Zinc was found to be within the acceptable limit of 5mg/l in all the samples collected from Groundwater monitoring network stations except 15 samples (Table 32). Zinc was found to be in the range of 0 to 42.08mg/l.

The frequency distribution is of Zinc is shown in the following table:

Table 61: Frequency Distribution of Zinc (2023-24) (Pre-monsoon)

Range of Zinc in ppm	**< .01**	**>.01-5.0**	**>5.0**
No. of Samples	365	1012	15
%	26.22%	72.70%	1.07%

Table 62 - Locations having Zinc above 5mg/l (2023-24) Pre-monsoon

S. No.	District	Block	Location	Latitude	Longitude	Zn (mg/l)
1	Azamgarh	Mohammadpur	Block Office	25.96242	83.02766	5.784
2	Chitrakoot	Mau	Bargarh Mod (Kalchiha)	25.18293	81.43980	11.925
3	Fatehpur	Airayan	Khaga	25.76976	81.10282	5.361
4	Ghaziabad	Razapur	In The Compound Of Shiv Temple	28.65636	77.53757	9.761
5	Hamirpur	Gohand	Rihunta	25.75546	79.48028	7.055
6	Hamirpur	Muskara	Muskara	25.66112	79.79365	8.403
7	Hamirpur	Gohand	Gohand	25.69545	79.54656	8.219
8	Kaushambi	Muratganj	Inside block office	25.55500	81.53850	7.063
9	Lalitpur	Mahroni	Bhaira	24.61500	78.67250	42.085
10	Lalitpur	Bar	Mogan	24.80778	78.75528	8.235
11	Mahoba	Panwari	Shergarh	25.49429	79.47758	9.391
12	Mathura	Nandgaon	Block HQ	27.71650	77.38480	14.148
13	Prayagraj	Meja	Kachara	25.12528	81.88556	5.545

S. No.	District	Block	Location	Latitude	Longitude	Zn (mg/l)
14	Sonbhadra	Kone	Padrach	24.44790	83.15430	7.413
15	Sonbhadra	Nagawa	Keotam	24.62120	83.32610	5.316

Post-monsoon

Zinc concentration is found above permissible limit 15 mg/l in one location with value 21.243 mg/l in Kandhala block of Shamli district.

Table 63: Frequency Distribution of Zinc (2023-24) (Post-monsoon)

Range of Zinc in ppm	< .01	>.01-5.0	>5.0
No. of Samples	84	266	5
%	23.66%	74.92%	1.40%

LEAD

Pre-monsoon

Lead is a most common heavy metal and commonly distributed throughout the environment. Lead is the most toxic heavy metal, and the inorganic forms are absorbed through food and water, and inhalation. Lead poisoning causes teratogenic effect, inhibition of the synthesis of haemoglobin, dysfunctions in the kidneys, joints, reproductive systems, cardiovascular system, chronic damage to the central nervous system and peripheral nervous system. And some other effects such as damage to the gastrointestinal tract, urinary tract resulting in bloody urine, neurological disorder and permanent brain damage. Inorganic forms of lead affect central nervous system, peripheral nervous system, gastrointestinal tract and organic forms, mostly affect the central nervous system; Ferner 2001; lead affects children on the brain and results in poor intelligence quotient. Its absorption in the body is increased by calcium and zinc deficiencies. Lead was found to be within the permissible limit of .01mg/l in all the samples collected from Groundwater monitoring network stations except 09 samples (Table 34). Lead was found to be in the range of nd to .034 mg/l.

The frequency distribution is of Lead is shown in the following table:

Table 64: Frequency distribution of Lead (2023-24) (Pre-monsoon)

Range of Lead in ppm	< .001	>.001-.01	>.01
No. of Samples	736	647	9
%	52.87%	46.47%	0.64%

Table 59: Hotspot with respect to Lead (Pb >0.01mg/l) (2023-24) Pre-monsoon

S. No.	District	Block	Location	Latitude	Longitude	Pb (mg/l)
1	Chitrakoot	Karvi	Roli (pataundha mod)	25.21999	80.72762	0.021
2	Jalaun	Konch	Swami	26.01694	79.04500	0.016
3	Jhansi	District HQ	Vikas Bhawan Jhansi	25.44363	78.57753	0.034
4	Lalitpur	Bar	Block Campus	24.86233	78.58815	0.015
5	Lalitpur	Madaro	Block Campus	24.37258	78.79309	0.013
6	Lalitpur	Mahroni	Bhaira	24.61500	78.67250	0.024
7	Lalitpur	Bar	Banpur	24.71222	78.73444	0.014
8	Sitapur	Hargaon	Sekhwapur	27.76389	80.77833	0.012
9	Sonbhadra	Robertsganj	Jigna	24.73200	83.12660	0.022

Post-monsoon

The concentration of **Lead** was found more than 0.01 mg/l in only one ground water sample. The value of maximum concentration of lead was found to be 0.012 mg/l at Chahniya block head quarter of Chandauli District.

Table 65: Frequency distribution of Lead (2023-24) (Post-monsoon)

Range of Lead in ppm	< .001	>.001-.01	>.01
No. of Samples	106	248	1
%	29.85%	69.85%	0.28%

Arsenic

Pre-monsoon

Arsenic is a naturally occurring element that is widely distributed in the Earth's crust. It is found in water, air, food, and soil. There are two general forms of arsenic: Organic& Inorganic. It is present in many different minerals. About one third of the arsenic in the atmosphere comes from natural sources, such as volcanoes, and the rest comes from man-made sources. It is released in the environment through a combination of natural processes such as biological activities, weathering reactions and volcanic emissions as well as through a range of anthropogenic activities. Most environmental arsenic problems are due to natural conditions, but man has a significant impact through mining activity, combustion of fossil fuels, the use of arsenical pesticides, herbicides and crop desiccants and the use of arsenic as an additive in livestock feed, particularly for poultry. In the last few decades, although the use of arsenical products such as pesticides and herbicides hasdecreased significantly but their use for wood preservation is still common. Arsenic was found to be above the permissible limit of .01mg/l in 95 samples collected from National Groundwater monitoring stations Table (38). Arsenic was found to be in the range of 0 to 0.130 mg/l.

The frequency distribution is of Arsenic is shown in the following table:

Table 66: Frequency distribution of Arsenic (2023-24) (Pre-monsoon)

Range of Arsenic in ppm	**0 - 0.001**	**>.001 - 0.01**	**> 0.01**
No. of Samples	950	347	95
%	68.24%	24.92%	6.82%

Fig. 25. Depicts the range of Arsenic in shallow ground water of Uttar Pradesh (2023-24) Pre-monsoon

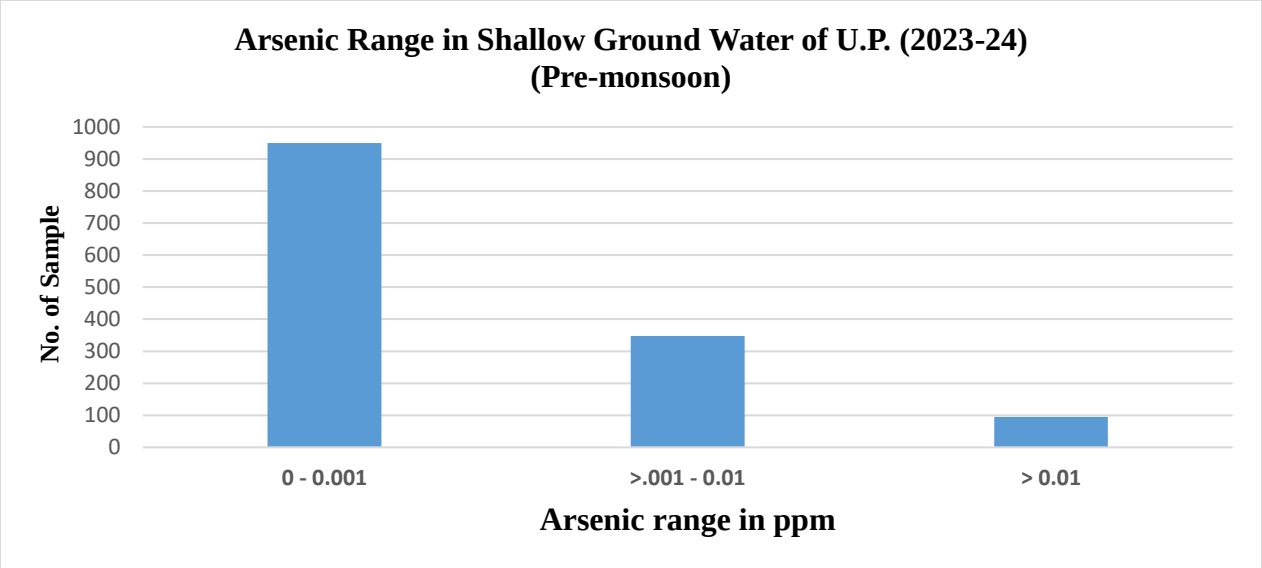


Table 67: Hotspot with respect to Arsenic (As >0.01mg/l) (2023-24) Pre-monsoon

S. No.	District	Block	Location	Latitude	Longitude	As (mg/l)
1	Aligarh	Gonda	Rudyat Urf Tarapur	27.84189	77.89171	0.013
2	Ayodhya	Bikapur	Block HQ , Near Peepal Tree	26.59490	82.13880	0.018
3	Azamgarh	Haraiya	Sahbadiya Sultanpur	25.25075	83.41022	0.022
4	Azamgarh	Maharajganj	Block Office	25.26076	83.11155	0.027
5	Baghpat	Baraut	Garhi Kangran	29.19737	77.42204	0.028
6	Bahraich	Tejawapur HQ	Block Campus	27.53139	81.49583	0.068
7	Bahraich	Huzurpur	Block Campus	27.35278	81.66583	0.103
8	Bahraich	Mahasi HQ	Block Campus	27.63972	81.38750	0.031
9	Bahraich	Fakharpur	Block Office	27.41944	81.52639	0.012
10	Bahraich	Mihipurwa	Block Office	28.02556	81.38361	0.016
11	Bahraich	Mahasi	Godmar khurd	27.54422	81.40649	0.024
12	Bahraich	Mahasi	Mahua Chauraha	27.68271	81.33429	0.013

S. No.	District	Block	Location	Latitude	Longitude	As (mg/l)
13	Bahraich	Shivpur	Baundi	27.82184	81.37150	0.040
14	Bahraich	Fakharpur	Kodahi	27.43009	81.46252	0.022
15	Bahraich	Balha	New Basti Chairaha	27.96084	81.46243	0.014
16	Bahraich	Jarwal	Nasirganj, Barauli Ghat	27.16010	81.51392	0.035
17	Ballia	Belhari	Block Office	25.77881	84.30445	0.015
18	Ballia	Murali Chhapara	Block Office	25.72846	84.50528	0.052
19	Ballia	Dubahar	Block Office	25.77011	84.17503	0.024
20	Ballia	Reoti	Block Office	25.84180	84.37180	0.093
21	Ballia	Sohaon	Block Office	25.62909	84.00429	0.085
22	Balrampur	Balrampur	Near house of Kaji Gausulwara, on Utraula Balrampur road and 200 m from bipass of Bahrich.	27.40944	82.18301	0.012
23	Balrampur	Gaidas Buzurg HQ	Block Campus	27.26361	82.42083	0.025
24	Balrampur	Harraya Satgawa	Laliya Village	27.57126	82.13757	0.019
25	Balrampur	Gainsara	Sonepur More	27.52978	82.48769	0.117
26	Balrampur	Pachpherwa	Shivpur More	27.45114	82.45114	0.107
27	Barabanki	Nindaura	Baba Ki Kuti	27.17820	81.10070	0.012
28	Bareilly	Fatehganj	Mirzapur	28.55598	79.29460	0.011
29	Bareilly	Bitheri chainpur	sawarkhera	28.43827	79.56603	0.010
30	Basti	Parasurampur HQ	Block Campus	26.90500	82.34000	0.011
31	Bijnor	Noorpur	Block office	29.15190	78.40275	0.015
32	Bijnor	Afzalgarh	Afzalgarh Block	29.37940	78.73179	0.028
33	Bijnor	Aku (Nehtaur)	Aku (Nehtaur) Block	29.32546	78.37433	0.011
34	Bulandshahr	Shikarpur	Kaisawan	28.30387	78.03463	0.012
35	Deoria	Bhaluwani	Garer chak, near house of Shivnath Chaurasia	26.39895	83.78762	0.030
36	Gonda	Haldharmau HQ	Block Campus	27.13917	81.76111	0.023
37	Gonda	Katra Bazar HQ	Block Campus	27.20556	81.79361	0.130
38	Gonda	Padri Kripal HQ	Block Campus	27.16278	81.96833	0.014
39	Gonda	Paraspur HQ	Block Campus	27.03472	81.78639	0.018

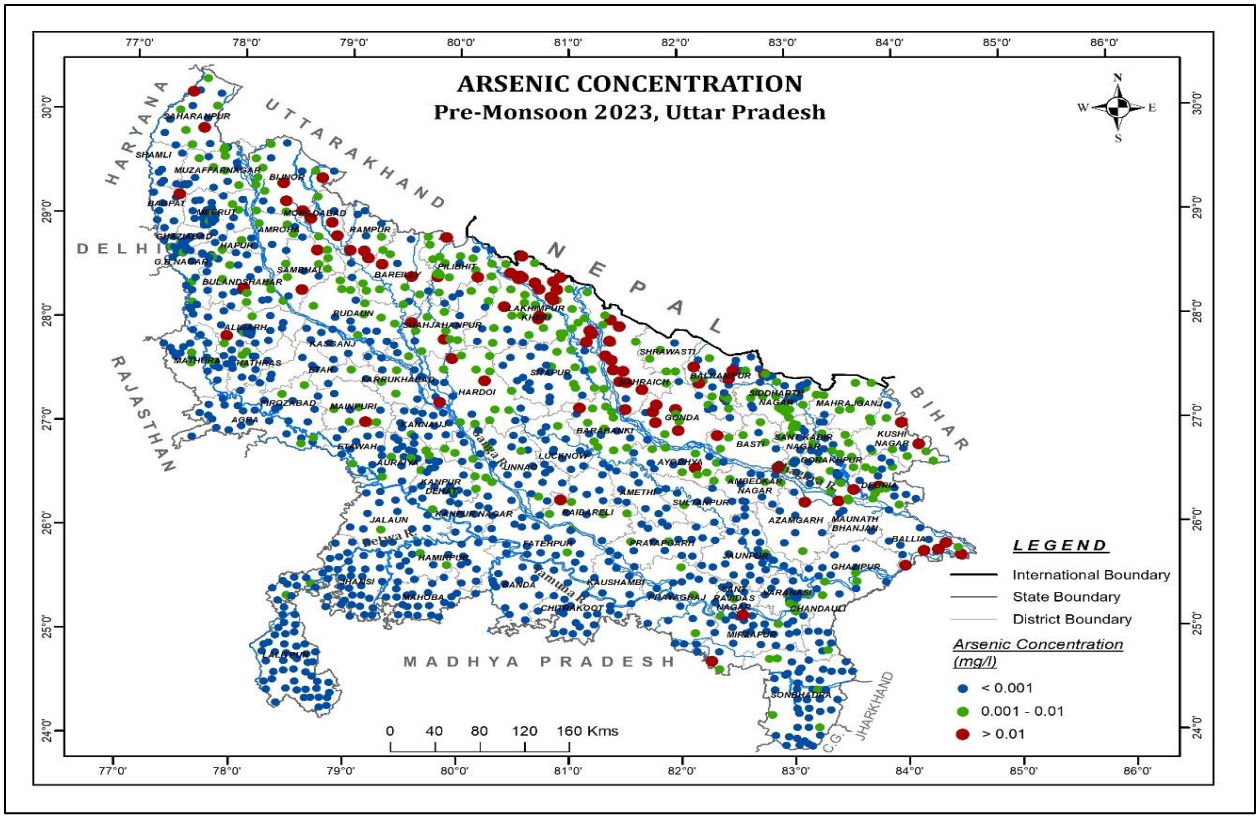
S. No.	District	Block	Location	Latitude	Longitude	As (mg/l)
40	Gonda	Tarabganj HQ	Block Campus	26.95556	81.99000	0.034
41	Gorakhpur	Barahalganj	Bairiyadih/Babu Bariya	26.36790	83.55932	0.022
42	Hardoi	Shahabad	Block HQ(in premises of block)	27.64863	79.94333	0.019
43	Hardoi	Tadiyawan	Block HQ(in premises of block)	27.43792	80.24056	0.020
44	Hardoi	Sandi	Kuliya	27.22670	79.83503	0.012
45	Kushinagar	Dudhai	In the premises of Block Office	26.79790	84.15601	0.023
46	Kushinagar	Vishunpurwa	Hiranai	27.00803	84.00466	0.015
47	Lakhimpur Kheri	Nakaha	Block HQ(in premises of block)	28.15563	80.41387	0.047
48	Lakhimpur Kheri	Ishanagasr	Block HQ(in premises of block)	27.90759	81.20733	0.027
49	Lakhimpur Kheri	Nighasan	Block HQ(in premises of block)	28.39606	80.86365	0.049
50	Lakhimpur Kheri	Palia Kalan	Block HQ(in premises of block)	28.43721	80.56035	0.039
51	Lakhimpur Kheri	Ishanagar	Palia	27.92416	81.19408	0.049
52	Lakhimpur Kheri	Ishanagar	Ishangar Bypass	27.89208	81.20668	0.015
53	Lakhimpur Kheri	Ishanagar	Shivpur	27.89327	81.21541	0.029
54	Lakhimpur Kheri	Nakaha	Ramwapur	27.87146	80.96304	0.018
55	Lakhimpur Kheri	Nighasan	Bhajanpurwa	28.21880	80.86071	0.047
56	Lakhimpur Kheri	Nighasan	Baglaha Kutti	28.23429	80.85352	0.041
57	Lakhimpur Kheri	Nighasan	forest officer south range	28.24795	80.83845	0.015
58	Lakhimpur Kheri	Palia Kalan	Nagla	28.42512	80.54517	0.029
59	Lakhimpur Kheri	Palia Kalan	Nemuabojh	28.44409	80.54217	0.017

S. No.	District	Block	Location	Latitude	Longitude	As (mg/l)
60	Lakhimpur Kheri	Palia Kalan	Aithpur	28.45199	80.55785	0.033
61	Lakhimpur Kheri	Palia Kalan	Palia	28.43734	80.57762	0.052
62	Lakhimpur Kheri	Isanagar	Midaniya	27.81406	81.16249	0.015
63	Lakhimpur Kheri	Palia	Digiyanai Chauraha	28.63972	80.57313	0.031
64	Lakhimpur Kheri	Palia	Kadeya	28.43647	80.92549	0.013
65	Lakhimpur Kheri	Nighasan	Singahi Bhiraura	28.31730	80.89225	0.019
66	Lakhimpur Kheri	Palia	Gahra farm	28.32202	80.73144	0.020
67	Lakhimpur Kheri	Palia	Bhagawant Nagar	28.38561	80.69248	0.087
68	Lakhimpur Kheri	Phulbehar	Sunderwal	28.06223	80.73556	0.010
69	Lakhimpur Kheri	Palia	Gadaniya	28.47912	80.47140	0.046
70	Mainpuri	Kishni	Bamnipur	27.03297	79.16860	0.045
71	Mirzapur	Hallia	Songarha	24.72870	82.27060	0.024
72	Mirzapur	Kon	Block Office	25.17056	82.55111	0.035
73	Moradabad	Chhajlet	Pathanagi	29.05947	78.55367	0.018
74	Moradabad	Kundarki (Dengapur)	Naronda	28.68211	78.70017	0.013
75	Moradabad	Bhagatpur Tanda	Bhagatpur Tanda Block	28.95141	78.82683	0.012
76	Moradabad	Chhajlet	Chhajlet Block	28.98670	78.63330	0.018
77	Moradabad	Moondha Pandey	Moondha Pandey Block	28.82314	78.87967	0.023
78	Pilibhit	Bar khera	Block HQ(in premises of block)	28.45512	79.80675	0.016
79	Pilibhit	Barkhera	Mohammad Jamkhadia	28.43702	79.80510	0.016
80	Pilibhit	Amaria	Majhola	28.81599	79.88126	0.011
81	Pilibhit	Puranpur	sabalpur khas	28.43746	80.16879	0.036
82	Raebareli	Kheron	Block HQ	26.29174	80.92767	0.072
83	Rampur	Chamrauwa	Majra ladauri	28.68569	78.99998	0.011
84	Rampur	Milak	Brijpur	28.67988	79.12907	0.015

S. No.	District	Block	Location	Latitude	Longitude	As (mg/l)
85	Rampur	Milak	Hand pump of CHC.	28.61294	79.16812	0.010
86	Saharanpur	Nagal		29.84271	77.62907	0.011
87	Saharanpur	Sadhauli Kadeem	Manjhali Village, Satish House	30.18926	77.51715	0.016
88	Sambhal	Gunnaur	Sonwasarai	28.29780	78.56730	0.012
89	Sant Kabir Nagar	Pauli	In the Block Office Premises	26.58580	82.90190	0.018
90	Sant Kabir Nagar	Pauli	Village- Parsa; Near Raj Traders	26.59105	82.88232	0.017
91	Sant Kabir Nagar	Pauli	Village- Kheswasiyan; Adjacent to H/o Ram Bharat Yadav S/o Tanku	26.59563	82.88788	0.033
92	Shahjahanpur	Dadraul	Block HQ(in premises of block)	27.83672	79.87013	0.013
93	Shahjahanpur	Jaitipur	Block HQ(in premises of block)	27.99392	79.57051	0.012
94	Siddharthnagar	Barhni HQ	Block Campus	27.48917	82.77694	0.014
95	Siddharthnagar	Jogiya HQ	Block Campus	27.25278	83.00806	0.026

The map showing Arsenic concentration in the state of Uttar Pradesh is represented in **Fig. 26**.

Figure-26



Post-monsoon

The concentration of **Arsenic** was found above the permissible limit of BIS 2012 at 34 water quality stations in 16 districts. The maximum concentration of Arsenic 0.129 mg/l is found in Katra Bazar block of Gonda district.

Table 68: Frequency distribution of Arsenic (2023-24) (Post-monsoon)

Range of Arsenic in ppm	**0 - 0.001**	**>.001 - 0.01**	**> 0.01**
No. of Samples	246	76	33
%	69.29%	21.40%	9.29%

Fig. 27. Depicts the range of Arsenic in shallow ground water of Uttar Pradesh (2023-24) Post-monsoon

Figure- 27

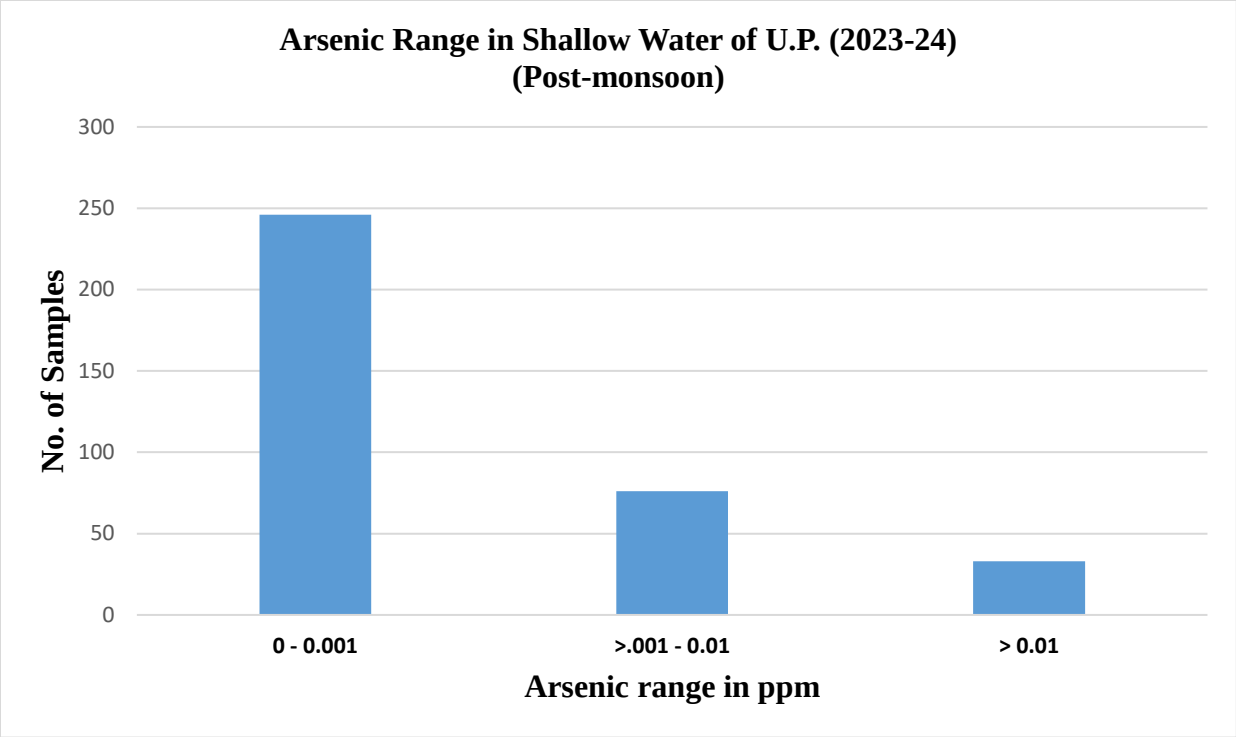


Table 69: The partly affected blocks exhibiting high values of Arsenic (>0.01mg/l) (2023-24) Post-monsoon

S. No.	District	Block	Location	Latitude	Longitude	As (>0.01mg/l)
1	Azamgarh	Palhana	Block H.Q.	25.78446	83.09023	0.024
2	Bahraich	Tejawapur	Block H.Q	27.53139	81.49583	0.041
3	Bahraich	Huzurpur	Block H.Q	27.35376	81.66348	0.129
4	Bahraich	Mahasi	Block H.Q	27.63972	81.38750	0.034
5	Bahraich	Shivpur	Block H.Q	27.81083	81.39333	0.037
6	Bahraich	Mihipurwa	Block H.Q	28.02556	81.38361	0.014
7	Ballia	Belhari	Block H.Q.	25.77881	84.30445	0.019
8	Ballia	Murali Chhapara	Block H.Q.	25.72846	84.50528	0.038
9	Ballia	Bairya	Block H.Q.	25.79578	84.47864	0.018
10	Ballia	Dubahar	Block H.Q.	25.77011	84.17503	0.035
11	Ballia	Reoti	Block H.Q.	25.84180	84.37180	0.023
12	Ballia	Sohaon	Block H.Q.	25.62909	84.00429	0.037

S. No.	District	Block	Location	Latitude	Longitude	As (>0.01mg/l)
13	Balrampur	Balrampur	Block H.Q	27.42861	82.17111	0.017
14	Balrampur	Tulsipur	Block H.Q	27.51168	82.29617	0.014
15	Bijnor	Noorpur	Block Office	29.15163	78.40309	0.036
16	Bijnor	Afzalgarh	Block Office	29.3794	78.73179	0.029
17	Gonda	Haldharmau Hq	Block H.Q	27.13900	81.76130	0.026
18	Gonda	Katra Bazar Hq	Block H.Q	27.20629	81.79379	0.115
19	Gonda	Paraspur Hq	Block H.Q	27.03472	81.78639	0.017
20	Gorakhpur	Gagaha	Block H.Q	26.44930	83.43760	0.011
21	Hardoi	Tadiyawan	Block H.Q	27.43792	80.24056	0.016
22	Kushinagar	Dudhai	Block H.Q	26.79790	84.15601	0.017
23	Lakhimpur Kheri	Isanagar	Block H.Q	27.90759	81.20733	0.019
24	Lakhimpur Kheri	Nighasan	Block H.Q	28.23961	80.86365	0.016
25	Lakhimpur Kheri	Palia Kalan	Block H.Q	28.43721	80.56035	0.042
26	Maharajganj	Pharenda	Block H.Q	27.09620	83.31020	0.011
27	Moradabad	Chhajlet	Block Office	28.97761	78.63385	0.013
28	Moradabad	Moondha Pandey	Block Office	28.82314	78.87967	0.018
29	Pilibhit	Barkhera	Block H.Q	28.45512	79.80675	0.013
30	Rampur	Milak	Chc, Milak	28.61294	79.16812	0.011
31	Sant Kabir Nagar	Pauli	Block H.Q	26.58580	82.90190	0.030
32	Sant Kabir Nagar	Santha	Block H.Q	26.99843	83.04270	0.011
33	Shahjahanpur	Jaitipur	Block H.Q	27.99392	79.57051	0.010

The map showing Arsenic concentration in the state of Uttar Pradesh is represented in Fig. 28

Figure-28

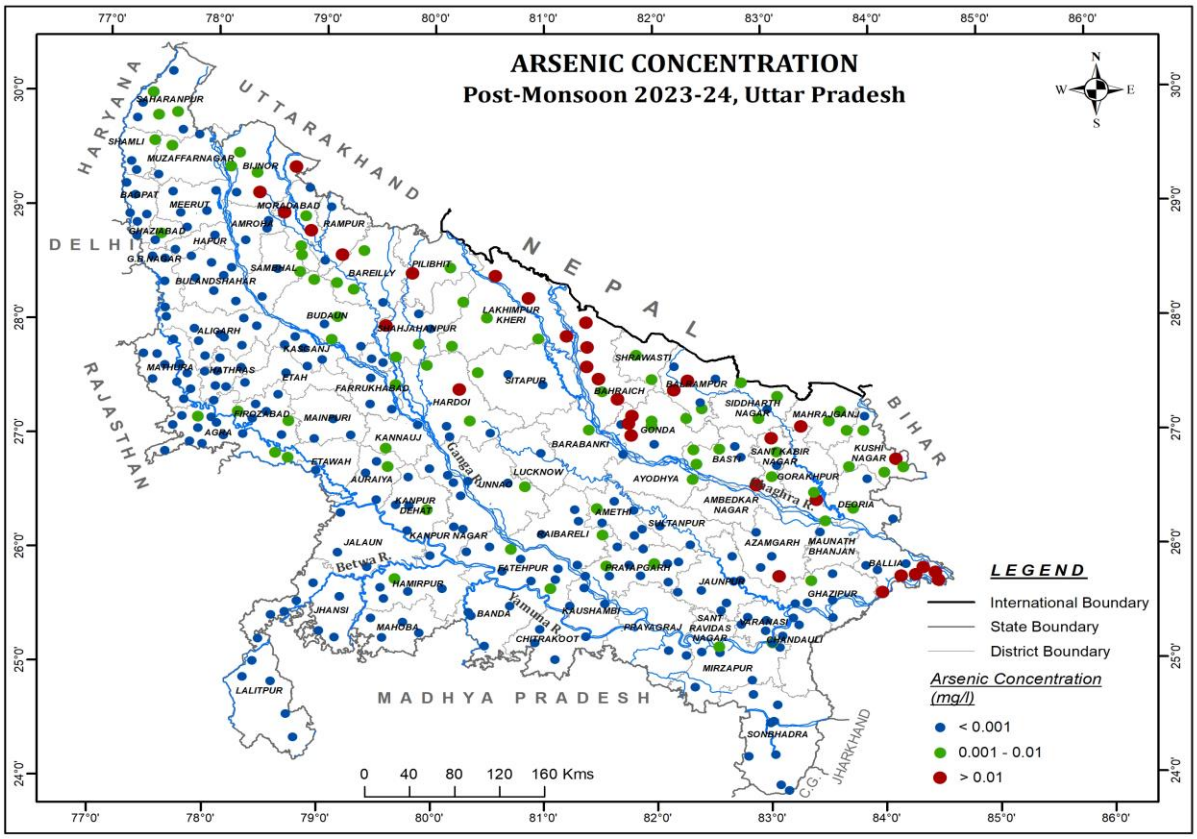


Table : 70 Periodic Variation in Suitability Classes of Arsenic in GW of Uttar Pradesh.

Parameter	Class	2019 (n=824)	2021 (n=912)	2022 (n=937)	2023 (n=1392)	Periodic Variation
As (mg/l)	< 0.01	94.78	93.86	93.28	93.18	1.61
	> 0.01	5.22	6.14	6.72	6.82	-1.61

Table :71 Trend of As in shallow GW of Uttar Pradesh.

Year	No. of districts affected by As	Total of locations affected by As	Total Number of samples Analysed	%age of locations affected by As
2019	21	47	824	5.70
2021	26	52	912	5.70
2022	30	61	937	6.51
2023	29	95	1392	6.82

Figure 29

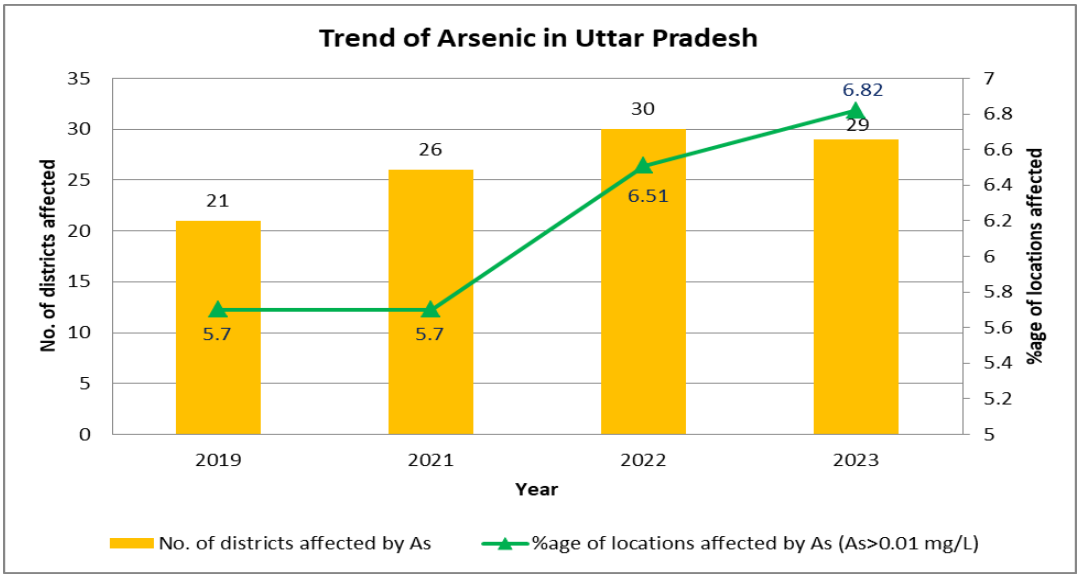


Figure 29 : Trend of As in shallow GW of Uttar Pradesh.

URANIUM

Pre-monsoon

Uranium is a naturally occurring element that can be found in low levels within all rock, soil, and water. Uranium is the 51st element in order of abundance in the Earth's crust. Uranium occurs naturally in low concentrations of a few parts per million in soil, rock and water, and is commercially extracted from uranium-bearing minerals such as uraninite. In nature, uranium is found as uranium-238 (99.2739–99.2752%), uranium-235 (0.7198–0.7202%), and a very small amount of uranium-234 (0.0050– 0.0059%). Salts of many oxidation states of uranium are water-soluble and may be studied in aqueous solutions. The most common ionic forms are U3+ (brown-red), U4+(green), UO+2 (unstable), and UO22+ (yellow), for U(III), U(IV), U(V), and U(VI), respectively.

Uranium is present in the environment as a result of leaching from natural deposits, release in mill tailings, emissions from the nuclear industry, the combustion of coal and other fuels and the use of phosphate fertilizers that contain uranium. Uranium- 235 is the only naturally occurring fissile isotope, which makes it widely used in nuclear power plants and nuclear weapons. Uranium is used mainly as fuel in nuclear power stations, although some uranium compounds are also used as catalysts and staining pigments.

Intake through drinking-water is normally low; however, in circumstances in which uranium in present in a drinking-water source, the majority of intake can be through drinking-water. The direct evidence of impact of uranium exposure to human health is present as it has been proved that consumption of drinking water contaminated with uranium can cause chronic kidney disease, deformity of bones and liver. Normal functioning of the kidney, brain, liver, heart, and other systems can be affected by uranium exposure, because, besides being weakly radioactive, uranium is a toxic metal. Uranium is also a reproductive toxicant. Radiological effects are generally local because alpha radiation, the primary form of 238U decay, has a very short range, and will not penetrate skin. Alpha radiation from inhaled Uranium has been demonstrated to cause lung cancer in exposed nuclear workers.

Chronic exposure of Uranium radionuclide in drinking water is a potential health risk (Blantz, Pelayo, Gushwa, Myers, & Evan, 1985). Although ubiquitous in the environment, Uranium has no known metabolic function in animals and is currently regarded as non-essential. Uranium accumulated in human results in chemical and radioactive effects. The principal sites of Uranium deposition in the body are the kidneys, the liver and the bones. The toxicity of Uranium is a

function of the route of exposure, particle solubility, contact time, and route of elimination (ATSDR, 1999). The concentrations of radiotoxic elements like Uranium in drinking water are hence kept under vigil by different health organizations. The World Health Organization (WHO, 2004) had earlier recommended a reference level 15 µg/l but now the permissible limit of U in drinking water by WHO is 30 µg/l (WHO, 2011). The reference level is derived from epidemiological studies, based on the assumption of a 60 kg adult consuming 2 litres of drinking water per day and 80% allocation of the Tolerable Daily Intake (TDI) to drinking water. Maximum acceptable level of U in drinking water as per guidelines of India's Atomic Energy Regulatory Board, Department of Atomic Energy, is 60 µg/l (AERB, 2004).

The following techniques may be used for the removal of Uranium: -

1. Combined removal of Uranium and Radium can be achieved using a mixed bed containing 10% strong base anion resin (for removal of Uranium) and strong acid cation resin (for removal of Radium) (Clifford & Zhang, 1994).
2. A domestic-scale reverse osmosis unit removed greater than 99.9% of Uranium from initial concentrations of 69 and 183 µg/litre (Fox & Sorg, 1987).
3. Five nanofiltration membranes were tested for the removal of Uranium (1 mg/litre) from synthetic solutions. In test waters containing bicarbonate and around neutral pH, all the membranes gave removals of 95% or more (Raff & Wilken, 1999).
4. Other techniques that can be used for removal of Uranium include adsorption onto modified GAC (Coleman et al., 2003), bone charcoal and apatite (Bostick et al., 2000) and chitosan (Gerente et al., 1999). Zero valent iron can also be used for Uranium removal (Abdelouas et al., 1999; Farrell et al., 1999; Morrison et al., 2003).

Uranium was found to be above the permissible limit of 30 ppb in115 samples collected from Groundwater monitoring network stations (Table-66) of 44 districts. Uranium was found to be in the range of 0 to 0.403 mg/l. It seems that the plausible source of high Uranium observed in this region may be of geogenic in nature.

The frequency distribution is of Uranium is shown in the following table:

Table 72: Frequency distribution of Uranium (2023-24) (Pre-monsoon)

Range of Uranium in ppm	**0-0.001**	**>.001-.03**	**>.03**

No. of Samples	452	825	115
%	32.47%	59.26%	8.26%

Fig. 30. D

epicts the range of Uranium in shallow ground water of Uttar Pradesh (2023-24)

Figure-30

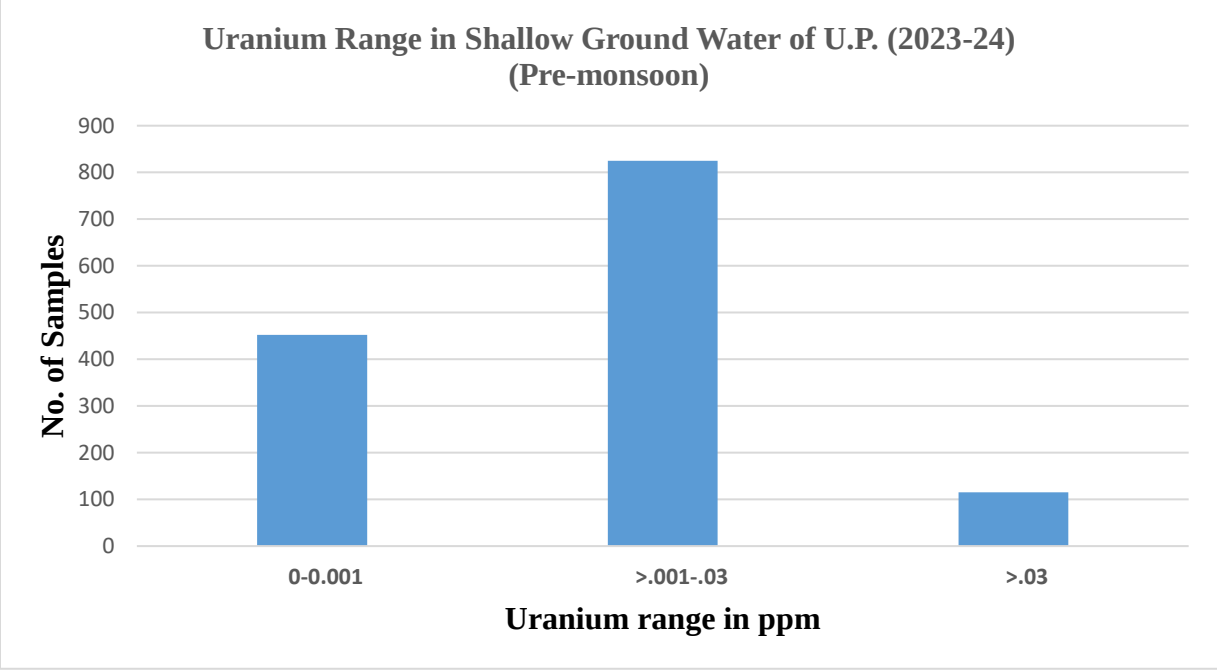


Table 73: Hotspot with respect to Uranium (U >30ppb) (2023-24) Pre-monsoon

S. No.	District	Block	Location	Latitude	Longitude	U (mg/L)
1	Agra	Jaitpur Kalan	Near BDO Office	25.42970	82.80610	0.037
2	Aligarh	Bijauli	Block H.Q.	27.97890	78.39970	0.052
3	Aligarh	Gonda	Block H.Q.	27.83670	77.87960	0.062
4	Aligarh	Khair	Block H.Q.	27.94350	77.83640	0.146
5	Aligarh	Gonda	Rudyat Urf Tarapur	27.84189	77.89171	0.035
6	Aligarh	Iglas	Makhdampur	27.77229	78.00962	0.037
7	Aligarh	Dhanipur	Shahwazpur	27.77820	78.15044	0.043
8	Aligarh	Aligarh Urban	Beema Nagar	27.90594	78.04660	0.073
9	Aligarh	Aligarh Urban	Bada Chowk, Sarai Rehman	27.89379	78.07001	0.041

S. No.	District	Block	Location	Latitude	Longitude	U (mg/L)
10	Aligarh	Aligarh Urban	Dohra Maffi	27.92827	78.08977	0.033
11	Aligarh	Aligarh Urban	Kela Nagar Market	27.90393	78.09037	0.034
12	Amethi	Amethi	PWD Dak Bangla	26.15618	81.80860	0.052
13	Amethi	Musafir Khana	Block HQ	26.37775	81.80047	0.043
14	Amroha	Joya	Block office	28.83557	78.47319	0.064
15	Auraiya	Ajitmal	Akbarpur	26.50781	79.32634	0.031
16	Auraiya	Sahar	Sahar Block Office	26.75847	79.60017	0.044
17	Auraiya	Sahar	Bholapur	26.73674	79.68923	0.048
18	Auraiya	Sahar	Yakubpur	26.76409	79.71491	0.035
19	Azamgarh	Thekma	Block Office	25.86340	82.92628	0.104
20	Azamgarh	Palhana	Block office	25.78446	83.09023	0.074
21	Bareilly	Faridpur	Block HQ	28.20066	79.53943	0.068
22	Bijnor	Jaleelpur	Bhiriya Khera	29.05997	78.26331	0.060
23	Bijnor	Mohammadpur Deomal	Chakrani/ Gidarpura	29.37647	78.13236	0.136
24	Budaun	Wajirganj	Block HQ(in premises of Block office)	28.20450	79.05810	0.049
25	Bulandshahr	Danpur	Block H.Q.	28.19230	78.20600	0.036
26	Bulandshahr	Jahangirabad	Block H.Q.	28.41390	78.08850	0.106
27	Bulandshahr	Shikarpur	Block H.Q.	28.27910	78.00420	0.035
28	Deoria	Bhaluwani	In the premises of Gyan Prakash Inter College on the LHS of the gate, Opposite Block Office	26.37074	83.76155	0.031
29	Etah	Jalesar	Block Office	27.47980	78.30629	0.030
30	Etawah	Bharthana	Bharthana Block Office	26.70913	79.31824	0.043
31	Fatehpur	Khajua	Bindki	26.02976	80.58057	0.032
32	Fatehpur	Malwan	Malwan	26.03640	80.70700	0.084
33	Fatehpur	Teliyani	Fatehpur	25.92389	80.81466	0.044
34	G.B. Nagar	Dadri	Block H.Q	28.55450	77.55350	0.042
35	G.B. Nagar	Jewar	Block H.Q	28.12500	77.56720	0.032
36	G.B. Nagar	Dankaur	Dist. H.Q	28.35330	77.55590	0.055

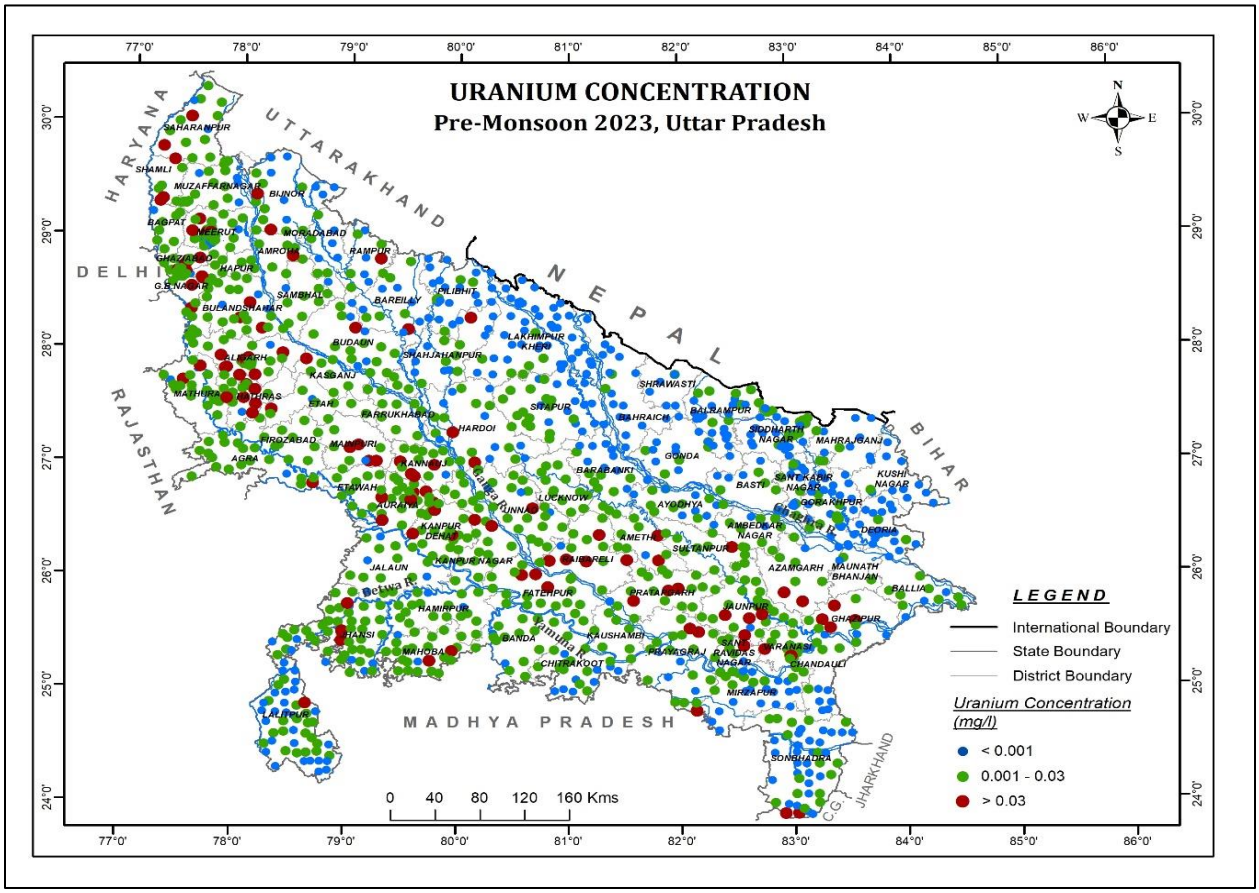
S. No.	District	Block	Location	Latitude	Longitude	U (mg/L)
37	G.B. Nagar	Dadri	Dadri	28.55444	77.55354	0.050
38	Ghaziabad	Bhojpur	In block office	28.79954	77.62035	0.044
39	Ghaziabad	Muradnagar	In block office	28.77284	77.51128	0.070
40	Ghaziabad	Gaziabad Urban	Mother Care Public School	28.69273	77.42260	0.031
41	Ghaziabad	Gaziabad Urban	Madhuvan Village	28.70263	77.48043	0.053
42	Ghaziabad	Gaziabad Urban		28.68101	77.49727	0.031
43	Ghaziabad	Muradnagar	Sumitra Sadan House, Gobind Kumar	28.74982	77.49079	0.033
44	Ghaziabad	Dhaulana	Dhaulana	28.62052	77.65175	0.032
45	Ghazipur	Sadat	Kaneri	25.62240	83.26525	0.041
46	Ghazipur	Ghazipur	Biraich	25.61171	83.55851	0.037
47	Ghazipur	Deokali	Block Office	25.55139	83.33802	0.052
48	Ghazipur	Jakhaniya	Block Office	25.74263	83.37248	0.042
49	Hapur	Dholana	In block office	28.63306	77.64389	0.063
50	Hardoi	Sandi	Block HQ(in premises of block)	28.58056	77.79056	0.049
51	Hardoi	Mallawan	Block HQ(in premises of block)	27.02580	80.15470	0.035
52	Hathras	Hathras	District H.Q.	27.57300	78.05510	0.044
53	Hathras	Sahpau	Block H.Q.	27.43690	78.13740	0.034
54	Hathras	Sasni	Block H.Q.	27.69110	78.07410	0.041
55	Hathras	Hathras	Mohari	27.64944	78.15311	0.043
56	Hathras	Hathras	Singhal	27.52171	78.15991	0.119
57	Jaunpur	Machchli Sahar	BDO Office	25.66820	82.39920	0.030
58	Jaunpur	Rampur	Block office	25.49028	82.57083	0.031
59	Jaunpur	Dharampur	Block Office	25.75250	82.74750	0.034
60	Jaunpur	Dharampur	Jamaitha Village	25.73240	82.72450	0.040
61	Jaunpur	Madiyayahun	Block Office	25.64000	82.61417	0.032
62	Jaunpur	Sirkoni	Block Office	25.67167	82.72778	0.036

S. No.	District	Block	Location	Latitude	Longitude	U (mg/L)
63	Jhansi	Bamanua	Bamanua	25.52833	78.97694	0.035
64	Jhansi	Bangra	Ghanghri	25.44028	78.97222	0.151
65	Jhansi	Moth	Panarri	25.76889	79.02333	0.032
66	Kannauj	Umarda	Umarda Block Office	26.99976	79.78909	0.039
67	Kannauj	Saurikh	Saurikh	27.02791	79.48094	0.035
68	Kannauj	Haseran	Haseran Block Office	26.91851	79.58062	0.044
69	Kannauj	Haseran	Baikpurwa	26.89796	79.61080	0.037
70	Kanpur Dehat	Rajpur	Pitampur	26.39056	79.60149	0.047
71	Kanpur Dehat	Akberpur	Akberpur Block Office	26.38233	79.95612	0.084
72	Kanpur Dehat	Jhinjhak	Gaupur	26.59961	79.79670	0.051
73	Kanpur Dehat	Rasoolabad	Rasoolabad Block Office	26.66804	79.78387	0.034
74	Kanpur Dehat	Maitha	Matikapur	26.51586	80.15629	0.171
75	Kanpur Nagar	Kanpur (HQ)	Fazalganj Police Station, Kanpur City	26.46265	80.31051	0.031
76	Kanshiram Nagar (Kasganj)	Soron	Nagla Ulfat Chauraha	27.92744	78.61373	0.030
77	Lalitpur	Bar	Kathwar	24.88333	78.66167	0.068
78	Mahoba	Kabrai	Gugaura	25.35254	79.95751	0.035
79	Mahoba	Kabrai	Pawa	25.26533	79.76000	0.038
80	Mainpuri	Jageer	Block Office	27.61766	77.94871	0.057
81	Mainpuri	Kishni	Near Katra Saman Chauraha, Shiv Temple	27.03046	79.19820	0.042
82	Mainpuri	Kishni	Block office	27.03160	79.26555	0.057
83	Mainpuri	Mainpuri	Nagariya	27.14665	79.02391	0.035
84	Mathura	Chhata	Block HQ	27.72620	77.50080	0.100
85	Mathura	Nohjhil	Block HQ	27.84639	77.64993	0.032
86	Mathura	Raya	Thok Bindavani	27.57123	77.89800	0.076
87	Meerut	Rohta	In Block office	29.03780	77.54304	0.068
88	Meerut	Sardhana	In Block office	29.14356	77.60774	0.039
89	Meerut	Meerut Urban	Mangalpuri	29.02216	77.67403	0.036

S. No.	District	Block	Location	Latitude	Longitude	U (mg/L)
90	Meerut	Meerut Urban	SOFIPUR	29.02842	77.71375	0.042
91	Mirzapur	Hallia	Baskop	24.82260	82.13890	0.038
92	Pratapgarh	Sadar	Block Office	25.90780	81.98000	0.030
93	Pratapgarh	Babaganj	Jilla Panchayat Office	25.79917	81.58222	0.034
94	Pratapgarh	Sadar	Tonipur	25.88917	81.89250	0.084
95	Prayagraj	Phoolpur	Munciple Office	28.59260	78.56520	0.041
96	Prayagraj	Pratappur	BDO Office	29.20000	78.86220	0.031
97	Raebareli	Chhatoh	Block HQ	26.15987	81.52105	0.066
98	Raebareli	Lalganj	Block HQ	26.16814	80.97926	0.068
99	Raebareli	Maharajganj	Block HQ	26.38476	81.27438	0.038
100	Raebareli	Sareni	Block HQ	26.15500	80.82752	0.032
101	Raebareli	Dalmau	Pakra Girifta, Pure Baisanpurwa	26.14849	81.15824	0.039
102	Rampur	Bilaspur	Faiznagar	28.82154	79.28136	0.037
103	Saharanpur	Gangoh		29.78406	77.26013	0.051
104	Saharanpur	Nanauta	Near Nausad Chicken Shope	29.66734	77.36622	0.059
105	Saharanpur	Sarsawa	Near Eidgah	30.04951	77.50912	0.040
106	Sant Ravidas Nagar	Bhadohi	Block Office	25.39528	82.56417	0.047
107	Shahjahanpur	Banda	Mouddinpur	28.30645	80.10815	0.058
108	Shamli	Kandhala		29.32300	77.26654	0.049
109	Shamli	Kandhala	Islampur Ghasauli	29.29731	77.24368	0.037
110	Sonbhadra	Babhani	Mohua Dohar	23.90960	82.91680	0.044
111	Sonbhadra	Babhani	Adhoura	23.91110	83.03480	0.403
112	Sultanpur	Dostpur	Block HQ	26.27015	82.46609	0.045
113	Unnao	Nawabganj	Block office	26.62105	80.67590	0.036
114	Varanasi	Sewapuri	Sewapuri	25.36611	82.74806	0.034
115	Varanasi	Kashi Vidya Peeth	Mahmoorganj	25.30530	82.98090	0.035

The map showing Uranium concentration in the state of Uttar Pradesh is represented in **Fig 31.**

Figure-31



Post-monsoon

The concentration of **Uranium** in 47 **samples (13.24%)** was found more than 30 µg/l (>0.03 mg/l) in ground water samples of 29 districts. The **maximum** concentration of **Uranium (0.595 mg/L)** was found in Malwan block of Fatehpur district.

Table 74: Frequency distribution of Uranium (2023-24) (Post-monsoon)

Range of Uranium in ppm	**0-0.001**	**>.001-.03**	**>.03**
No. of Samples	106	202	47
%	29.85%	56.90%	13.23%

Fig. 32. Depicts the range of Uranium in shallow ground water of Uttar Pradesh (2023-24)

Figure- 32

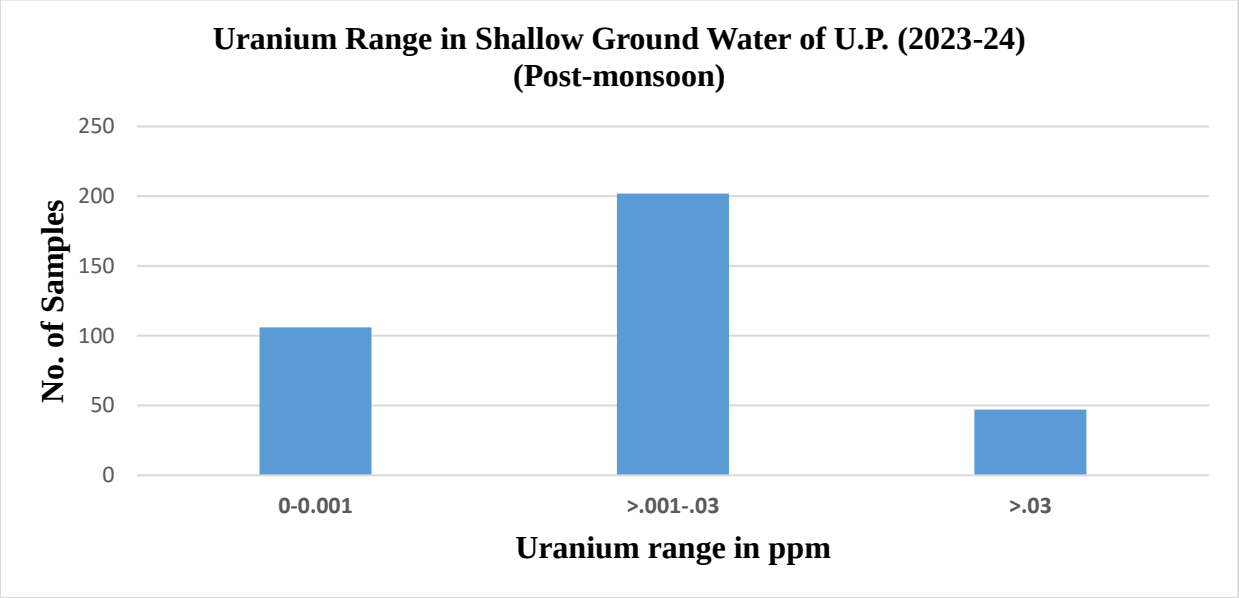


Table 75: The partly affected blocks exhibiting high values of Uranium (>0.03mg/l) (2023-24) Post-monsoon

S. No.	District	Block	Location	Latitude	Longitude	U (> 0.03 mg/l)
1	Agra	Bichpuri	Block H.Q	27.17265	77.89188	0.040
2	Agra	Khandauli	Block H.Q	27.31646	78.02961	0.050
3	Aligarh	Aligarh	District H.Q.	27.89692	78.07171	0.039
4	Aligarh	Khair	Block H.Q.	27.94350	77.83640	0.084
5	Aligarh	Bijauli	Block H.Q.	27.97872	78.40003	0.032
6	Amethi	Amethi	P.W.D. Dak Bangla	26.15618	81.8086	0.046
7	Amethi	Musafir Khana	Block H.Q	26.37775	81.80047	0.034
8	Amroha	Joya	Block Office	28.83557	78.47319	0.046
9	Auraiya	Sahar	Block H.Q	26.75847	79.60017	0.035
10	Auraiya	Bidhuna	Block H.Q	26.80250	79.50242	0.048
11	Azamgarh	Palhana	Block H.Q.	25.78446	83.09023	0.051

S. No.	District	Block	Location	Latitude	Longitude	U (> 0.03 mg/l)
12	Balrampur	Rehra Bazar	Adjacent To Block Hq. South Side Of Kali Mandir	27.18139	82.27816	0.033
13	Bijnor	Mohammadpur Deomal	Block Office	29.37647	78.13236	0.090
14	Bulandshahr	Jahangirabad	Block H.Q.	28.41397	78.08843	0.085
15	Bulandshahr	Danpur	Block H.Q.	28.19255	78.20604	0.036
16	Deoria	Bhaluwani	Opposite Block H.Q	26.37074	83.76155	0.032
17	Etah	Jalesar	Block H.Q	27.47980	78.30629	0.048
18	Farrukhabad	Rajepur	Block H.Q	27.48043	79.66195	0.041
19	Fatehpur	Malwan	Block H.Q	26.03640	80.70700	0.595
20	Fatehpur	Teliyani	Block H.Q	25.952118	80.795862	0.046
21	Fatehpur	Airayan	Block H.Q	25.769762	81.102821	0.042
22	Firozabad	Tundla	Block H.Q	27.22545	78.24661	0.031
23	G.B. Nagar	Dadri	Block H.Q	28.55444	77.55360	0.040
24	G.B. Nagar	Dankaur	Dist. H.Q	28.35330	77.55590	0.041
25	Ghaziabad	Muradnagar	In Block Office	28.77284	77.51128	0.071
26	Ghaziabad	Razapur	In Block Office	28.71016	77.45626	0.032
27	Ghazipur	Jakhaniya	Block H.Q.	25.74263	83.37248	0.077
28	Ghazipur	Ghazipur	Block H.Q.	25.56770	83.56025	0.078
29	Hapur	Dhaualana	In Block Office	28.63297	77.64412	0.055
30	Hardoi	Sandi	Block H.Q	28.58056	77.79056	0.046
31	Hardoi	Mallawan	Block H.Q	27.02580	80.15470	0.034
32	Hathras	Hathras	District H.Q.	27.57300	78.05510	0.045
33	Hathras	Sasni	Block H.Q.	27.69110	78.07410	0.042
34	Jaunpur	Machchli Sahar	Block H.Q	25.66820	82.39920	0.033
35	Kanpur Dehat	Akberpur	Block H.Q	26.38223	79.95612	0.108
36	Kanpur Dehat	Rasoolabad	Block H.Q	26.66804	79.78387	0.038
37	Mathura	Chhata	Block Hq	27.71440	77.50632	0.062
38	Mathura	Govardhan	Block Hq	27.49198	77.47517	0.054
39	Pratapgarh	Baba Belkhar Nath	Block H.Q	25.90720	82.09990	0.031

S. No.	District	Block	Location	Latitude	Longitude	U (> 0.03 mg/l)
40	Pratapgarh	Sandwa Chandrika	Block H.Q	26.03770	81.88380	0.032
41	Pratapgarh	Babaganj	Jilla Panchayat Office	25.79917	81.58222	0.037
42	Pratapgarh	Rampur-Sangramgarh	Block H.Q	25.88870	81.55390	0.031
43	Prayagraj	Phoolpur	Block H.Q	26.15940	81.52190	0.040
44	Raebareli	Lalganj	Block H.Q	26.16814	80.97926	0.051
45	Saharanpur	Gangoh	In Block Office	29.78406	77.26013	0.042
46	Unnao	Nawabganj	Block H.Q.	26.62105	80.67590	0.037
47	Varanasi	Kashi Vidya Peeth	Block H.Q.	25.30639	82.96278	0.034

The map showing Uranium concentration in the state of Uttar Pradesh is represented in **Fig 33.**

Figure-33

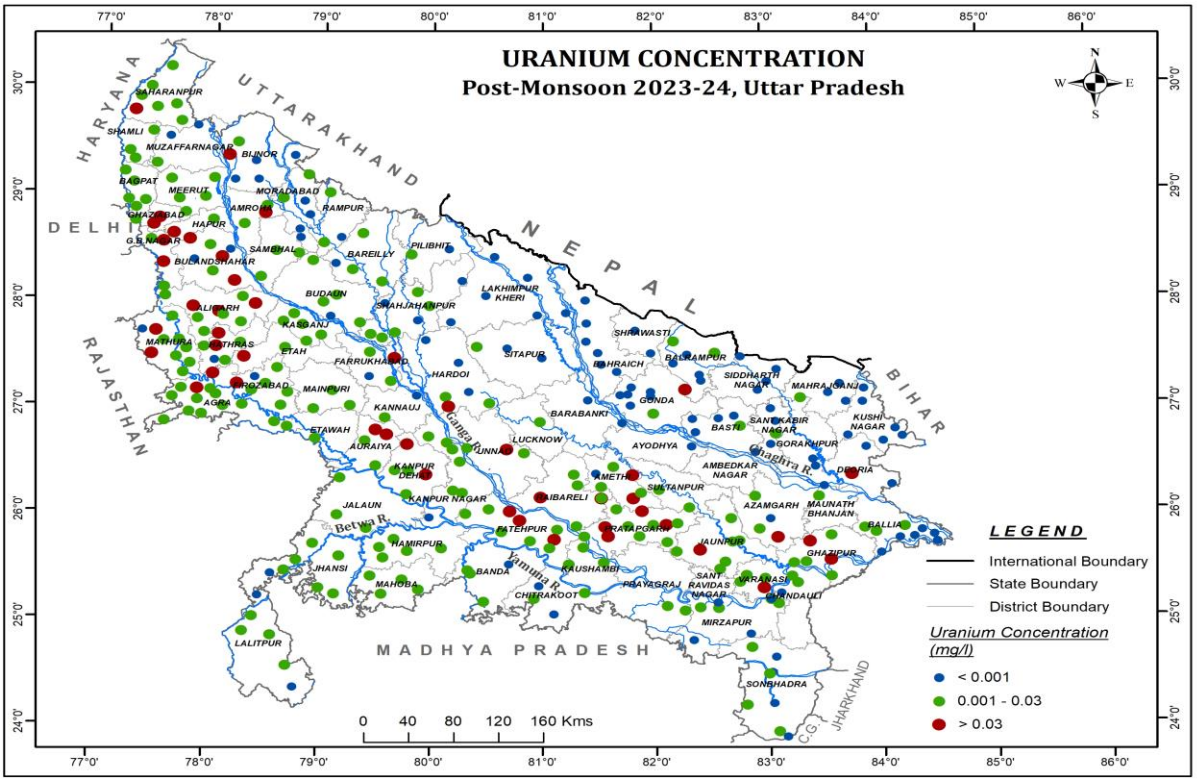


Table : 76 Periodic Variation in Suitability Classes of Uranium in GW of Uttar Pradesh.

Parameter	Class	2019 (n=824)	2021 (n=912)	2022 (n=937)	2023 (n=1392)	Periodic Variation
U (mg/l)	< 0.03	95.75	90.79	87.19	91.74	4.01
	> 0.03	4.25	9.21	12.81	8.26	-4.01

Table : 77 Trend of Uranium in shallow GW of Uttar Pradesh.

Year	No. of districts affected by U	Total of locations affected by U	Total Number of samples Analysed	%age of locations affected by U
2019	22	36	824	4.37
2021	32	81	912	8.88
2022	35	118	937	12.59
2023	43	115	1392	8.26

Figure 34:

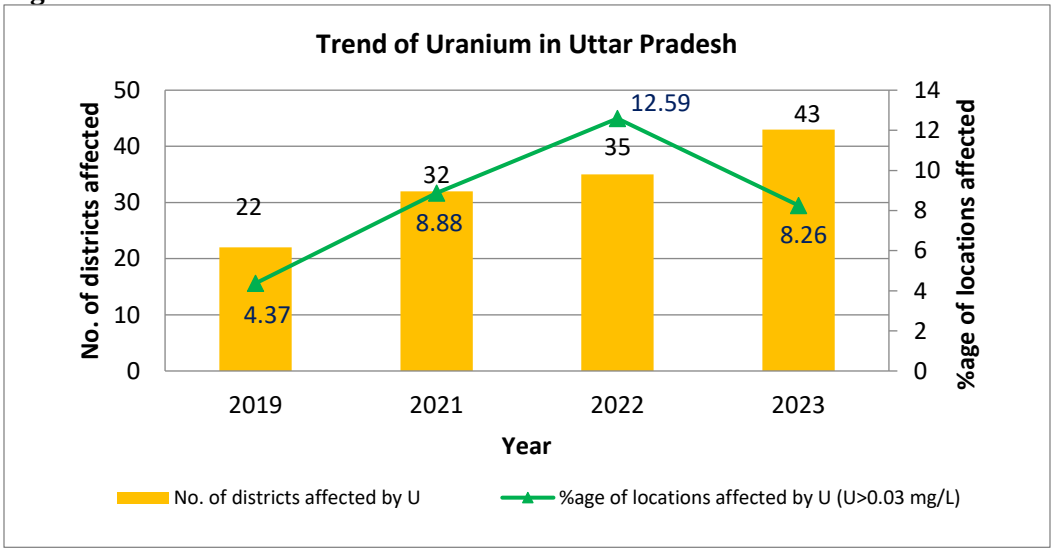


Figure 34 : Trend of Uranium in shallow GW of Uttar Pradesh.

Table 78: Statistical distribution of Heavy Metals in Uttar Pradesh (2023-24) Pre-Monsoon

Heavy Metal	Minimum (mg/l)	Maximum (mg/l)	Average (mg/l)	Districts affected partly
Chromium	0	0.107	0.000	1
Iron	0	20.327	1.068	65
Manganese	0	1.241	0.077	38
Copper	0	0.133	0.000	Nil
Zinc	0	42.085	0.492	1
Arsenic	0	0.130	0.003	29
Lead	0	0.034	0.001	6
Uranium	0	0.403	0.011	44

Table 79: Statistical distribution of Heavy Metals in Uttar Pradesh (2023-24) Post-Monsoon

Heavy Metal	Minimum (mg/l)	Maximum (mg/l)	Average (mg/l)	Districts affected partly
Chromium	0	0.028	0.000	Nil
Iron	0	17.694	1.324	72
Manganese	0	1.400	0.109	20
Copper	0	0.026	0.000	Nil
Zinc	0	21.243	0.632	1
Arsenic	0	0.129	0.003	16
Lead	0	0.012	0.001	1
Uranium	0	0.595	0.015	29

USSL diagram:

EC and SAR are very important in classifying irrigation water. The Wilcox diagram (Wilcox 1948)

relating EC and SAR shows (Fig. 35 & Fig. 36).

The samples collected from the monitoring wells in Uttar Pradesh fall in to 9 classes as described below.

C1S1: Low salinity and low sodium waters are good for irrigation.

C2S1: Medium salinity and low sodium water can be used for irrigation on almost all soils.

C3S1: The high salinity and low sodium waters require good drainage.

C3S2: The high salinity and medium sodium waters require good drainage and can be used on coarse textured or organic soils having good permeability.

C3S3: These high salinity and high sodium waters require special soil management, good drainage/ high leaching and organic matter additions. Gypsum amendments make feasible the use of these waters.

C4S1: Very high salinity and low sodium waters are not suitable for irrigation unless the soil must be permeable and drainage must be adequate. Irrigation water must be applied in excess to provide considerable leaching.

C4S2: Very high salinity and medium sodium waters are not suitable for irrigation on fine textured soils and low leaching conditions and can be used for irrigation on coarse textured or organic soils having good permeability.

C4S3: Very high salinity and high sodium waters produce harmful levels of exchangeable sodium in most soils and will require special soil management, good drainage, high leaching and organic matter additions. Gypsum amendment makes feasible the use of these waters.

C4S4: Very high salinity and very high sodium waters are generally unsuitable for irrigation purpose. These are sodium chloride type of waters and can cause sodium hazard. It can be used on coarse textured soils with very good drainage for very high salt tolerant crops. Gypsum amendments make feasible the use of these waters.

Pre-Monsoon: The figure 35 shows US Salinity Laboratory diagram of NHS Pre-monsoon water samples of the state. It is observed that maximum nos. of water samples falls in C2S1 and C3S1 class, 50.87% in C2S1 class, 39.54% in C3S1 class, 3.82% in C3S2 class, 1.01% in C4S2 and 1.30% in C4S3 and about 0.58%, 0.79%, 0.22% samples are falling in C1S1, C3S3, C4S1 classes respectively.

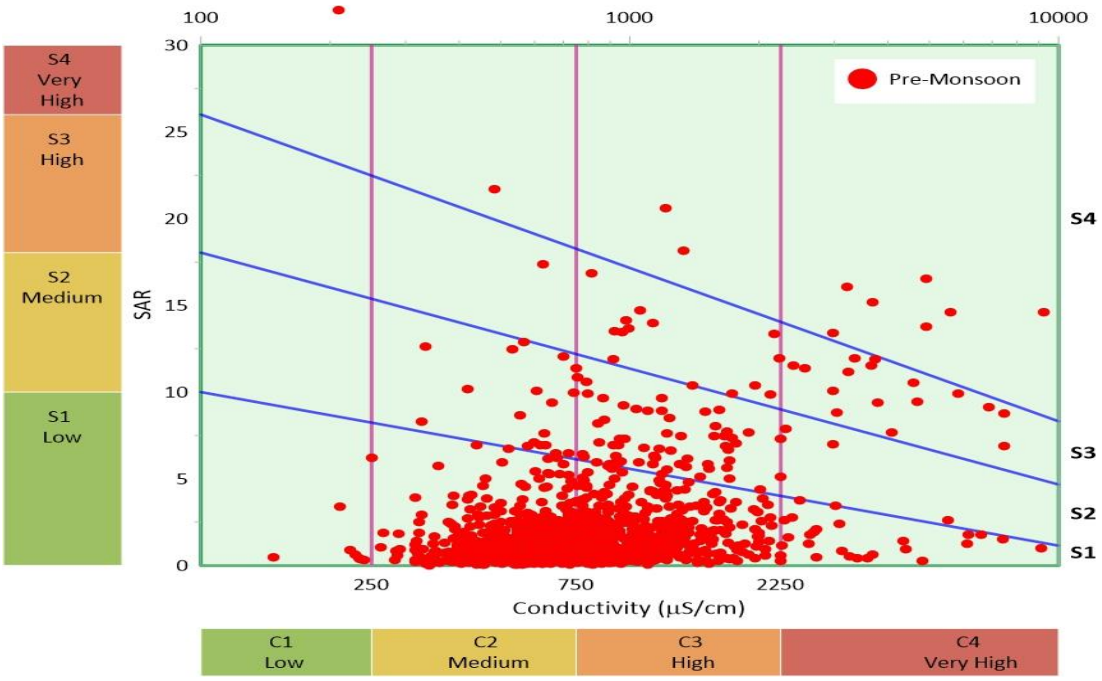


Fig: 35 USSL of NHS (Pre-Monsoon) 2023-24 of Uttar Pradesh

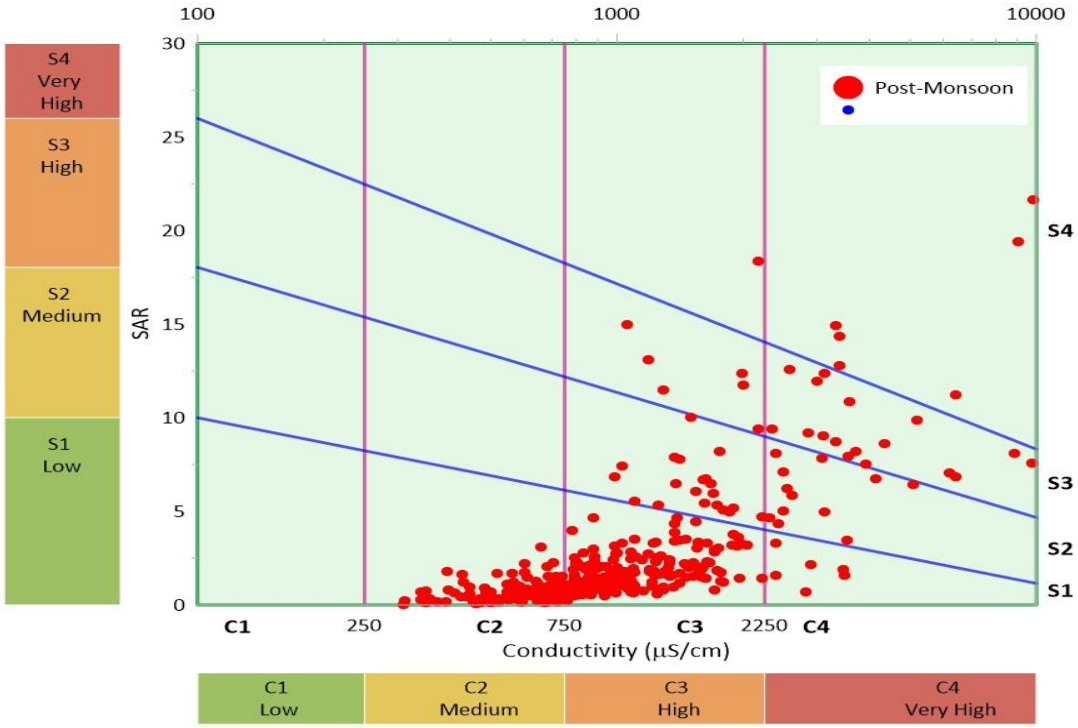


Fig: 36 USSL of NHS (Post-Monsoon) 2023-24 of Uttar Pradesh

Post-Monsoon: The figure 36 shows US Salinity Laboratory diagram of deeper aquifer water samples of the state during post monsoon. It is observed that 54.08% of water samples are falling in C3S1 class, 28.73% in C2S1 class, 3.94 % in C3S2 class, 4.23% in C4S2, 2.25 % in C4S3, 3.66% in C4S4 Class and about 1.13%, 1.97% samples falling in C3S3, C4S1 classes respectively.

Piper diagram:

Piper diagram (Piper 1944) describes the process responsible for the evolution of hydro geochemical parameter in groundwater. Based on the major cation and major anion content in the water samples and plotting them in the Trilinear diagram, hydro chemical facies could be identified. Hydro-chemical facies are very useful in investigating diagnostic chemical character of water in hydrologic systems. Different types of facies within the same group formations are due to characteristic Groundwater flow through the aquifer system and effect of local recharge.

The types of facies are inter-linked with the geology of the area and distribution of facies with the hydro geological controls. Hydro chemical facies are delineated by plotting percentage reacting value of major ions on tri-linear diagrams know as Piper Diagram.

For identification of different water faecies of groundwater, Piper diagram is widely used as it gives best graphical representation (Hill, 1940; Piper 1944) for finding out type of water.

Groundwater can be grouped broadly into 5 types (Fig: 37 & Fig 38).

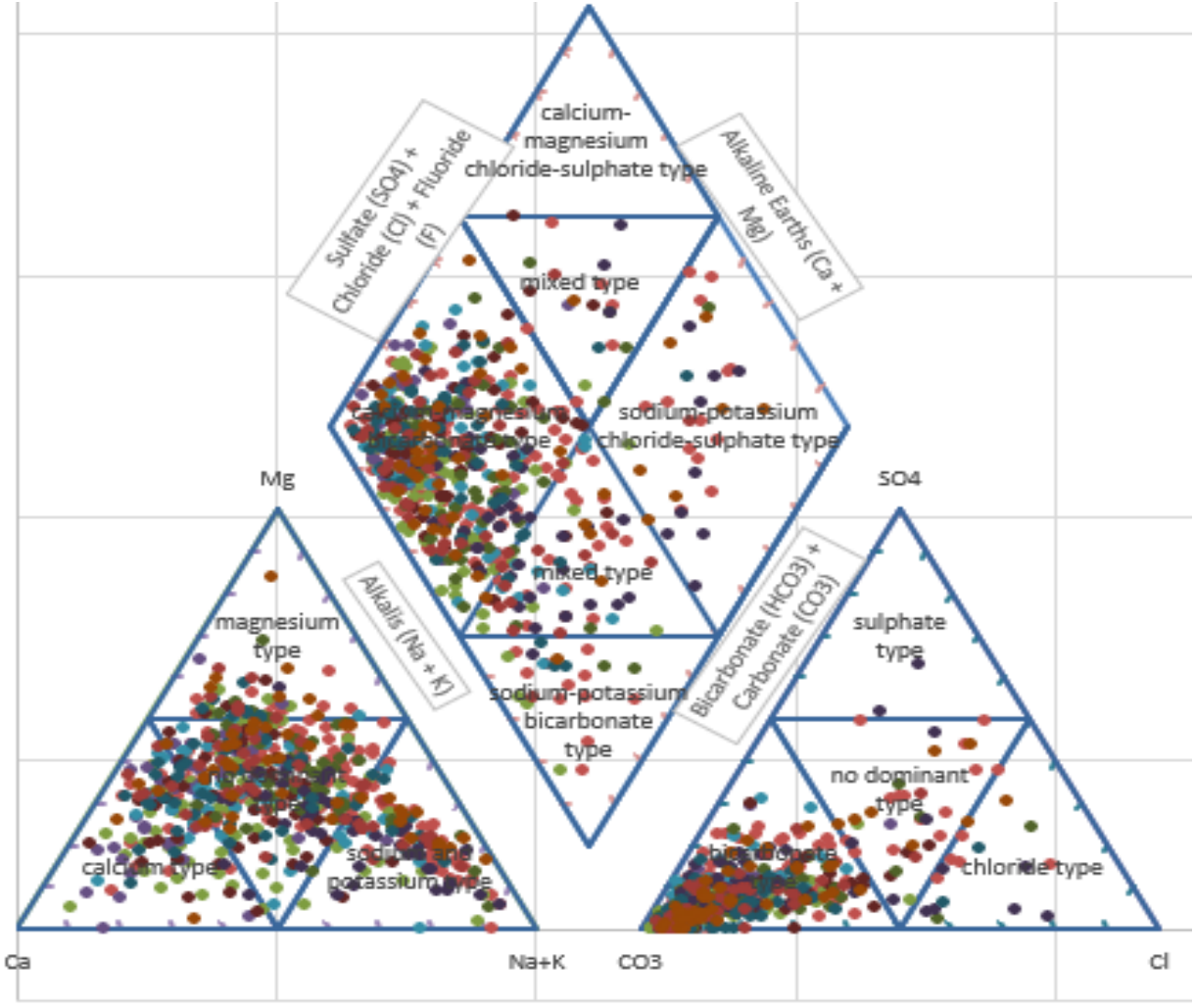


Fig: 37 Piper diagram of NHS (Pre-Monsoon) 2023-24 of Uttar Pradesh

Pre-Monsoon: Groundwater from the state is mainly of Ca-Mg- HCO3 type followed by Na-K- HCO3 and Na-K-Cl type and mixed type.

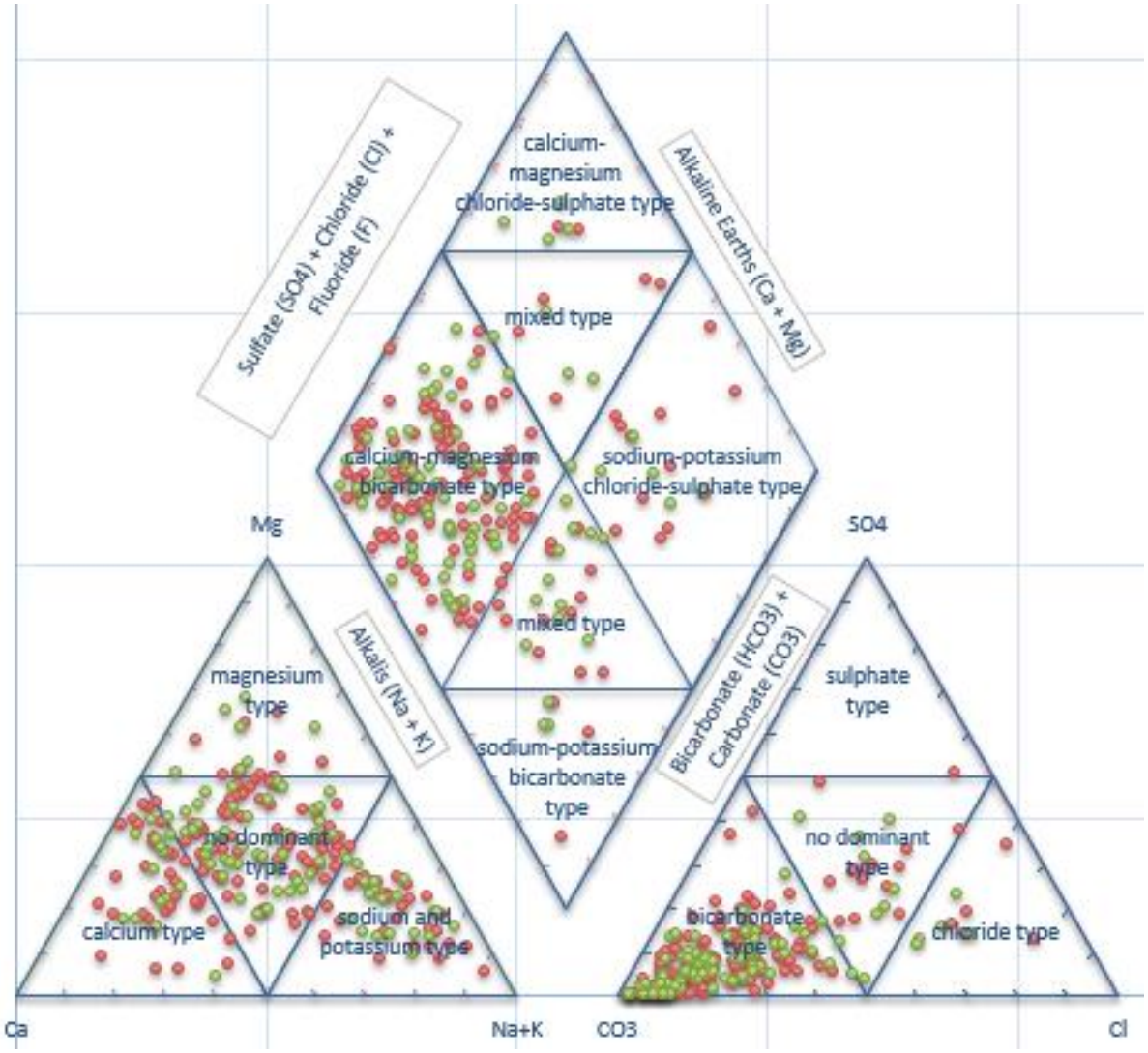


Fig: 38 Piper diagram of NHS (Post-Monsoon) 2023-24 of Uttar Pradesh

Post-Monsoon: During post monsoon Groundwater of is mainly of Ca-Mg-HCO3 type followed by Mixed Types like Ca-Mg-Cl and Na-K- HCO3 types.

Wilcox diagram:

EC and sodium concentration are very important in classifying irrigation water. The Wilcox diagram (Wilcox 1948) relating EC and %Na shows (fig.39) suitability for irrigation.

NHS Pre-monsoon samples are plotted in Wilcox diagram and 85.28% of samples fall in good to excellent category, 2.16% of samples in good to permissible category, 0.86% of samples doubtful to unsuitable category, 11.25% of samples in permissible to doubtful category and 0.43% of samples fall in unsuitable category that is not suitable for irrigation purpose.

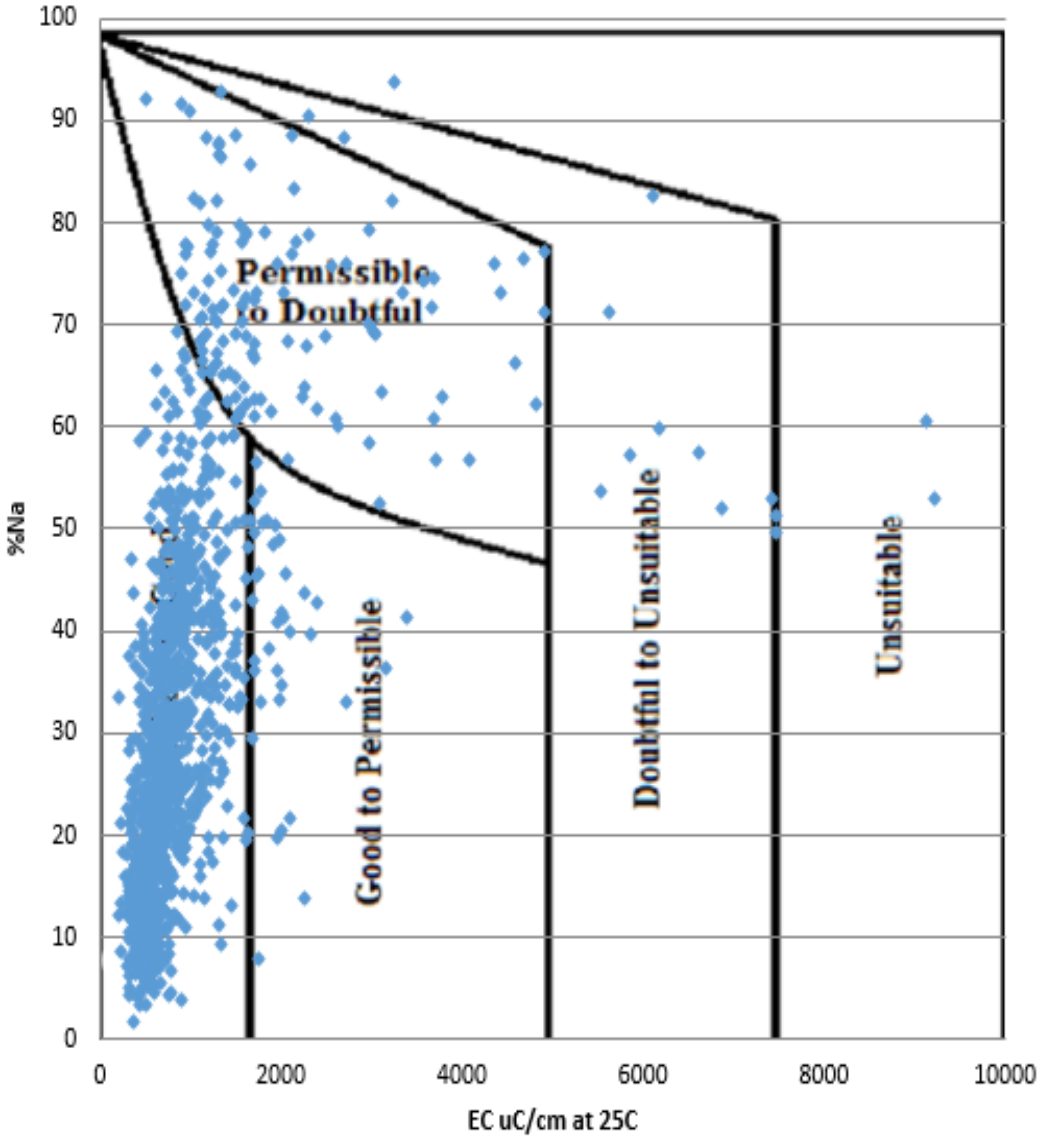


Fig: 39 Wilcox diagram of NHS (Pre-Monsoon) 2023-24 of Uttar Pradesh

During NHS Post-monsoon 2023-24, 71.27% of samples fall in good to excellent category, 10.7% of samples in good to permissible category, 1.69% of samples doubtful to unsuitable category, 14.93% of samples in permissible to doubtful category and 1.41% of samples fall in unsuitable category that is not suitable for irrigation purpose.

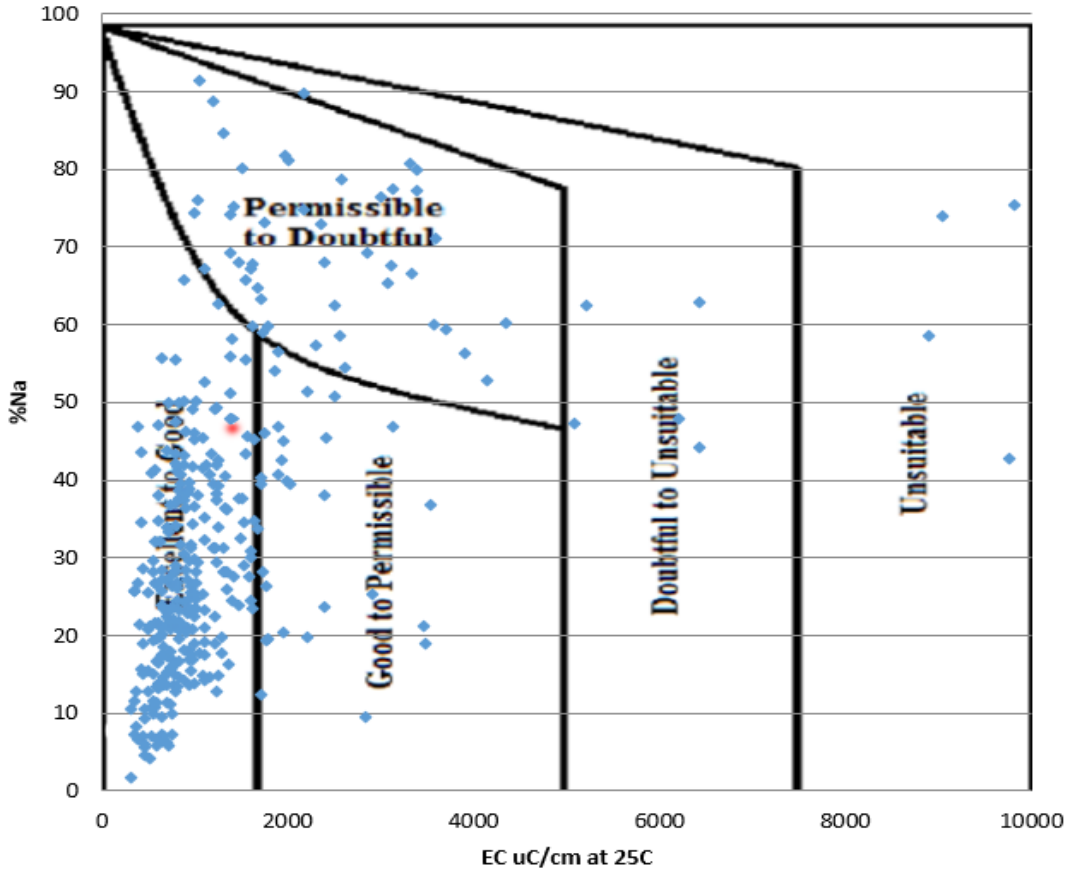


Fig: 40 Wilcox diagram of NHS (Post-Monsoon) 2023-24 of Uttar Pradesh

6. CONCLUSION

In general, the evaluation of the ground water quality of the study area for drinking purposes with respect to standards prescribed by BIS (2012) reveals that-

1. Considering the parameters responsible for suitability of ground water of Uttar Pradesh it is observed that it is generally fit for drinking purposes as per analysed chemical parameters viz. Electrical conductivity, Nitrate & Fluoride and is also suitable for irrigation purposes as per Electricalconductivity, Residual Sodium Carbonate, Sodium Adsorption Ratio except at few places where corrective measures are to be taken before drinking and agricultural usage.
2. Iron concentration has been found to be above the acceptable limit of 1.0 mg/l in 27.05% locations. The high concentration of Iron in these areas may be geogenic.
3. Manganese concentration has been found to be above the acceptable limit of 0.3mg/l in 4.81% in the samples under study. The high concentration of Manganese in these areas may be geogenic.
4. Uranium concentration has been found to be above the acceptable limit of 30ppb at 115(8.26%) locations including Uranium hotspots. It seems that the plausible source of high Uranium observedin this region may be of geogenic in nature.
5. Arsenic in the study area was found to be above the permissible limit at 95 locations (6.82%)in 29 districts.
6. In general no toxicity has been observed due to metals Copper, Chromium, Zinc and lead.

Thus from the analytical results it has been observed that majority of water samples collected from observation wells of Central Ground Water Board in a major part of the state fall under desirable or permissible category as per available analysed chemical parameter data (as per BIS 2012) and hence are suitable for drinking purposes. However, a small percentage of well waters are found to have concentrations of some constituents beyond the permissible limits with respect to few Heavy metals, Electrical conductivity, Nitrate & Fluoride. Such waters are not fit for human consumption and are likely to be harmful to health on continuous use.

7. REFERENCES

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Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
1	Agra	Achhnera	Block office	27.17744	77.74618	8.14	5850	0	500	1594	1.72	17.6	454	1390	176	228	850.5	5.8	20	0
2	Agra	Achhnera	Raunakata	27.23413	77.87340	8.00	4923	0	488	759.7	0.704	37.0	1091	790	124	115.2	890.6	3.2	27	0
3	Agra	Agra	City (Sai ki Takia Crossing)	27.17066	78.00954	8.20	1520	0	805	50	0.48	12.7	38	310	40	50	237	2.7	27	0
4	Agra	Akola	Block Office	27.07150	77.74620	8.15	1051	0	537	56.8	1.00	10.6	43.2	420	56	67.2	66.54	4.93	26	0
5	Agra	Bah	Agra-Bah Road	26.90727	78.45653	7.72	972	0	268	99.4	0.919	104.0	42.1	295	68	30	99.3	4.07	34	0
6	Agra	Bah	Block office	26.86968	78.58929	8.16	1705	0	586	156	0.76	11.9	162	350	44	58	261	11.0	16	0.568
7	Agra	Bah	Poora Guman Singh	27.81774	78.58951	8.30	470	0	238	21.3	0.705	0.0	0.0	175	40	18	29.52	3.49	29	0
8	Agra	Barauli Ahir	Block office	27.12062	78.06014	8.22	3345	0	695	440.2	0.83	17.4	516	500	84	69.6	614.7	6.5	29	0
9	Agra	Barauli Ahir	Sayed (Kundol)	27.13127	78.16612	8.30	1215	60	500	42.6	0.976	6.0	48.8	275	60	30	177.6	4.44	28	0
10	Agra	Bichpuri	Block office	27.17265	77.89188	8.36	3220	12	647	397.6	1.42	9.2	489	310	44	48	650.5	2.24	23	0
11	Agra	Etmadpur	Amanabad (Kanarau Chauraha)	27.39408	78.20177	8.17	1464	0	329	269.8	0.732	0.0	84.2	320	40	52.8	209.76	4.1	8	0
12	Agra	Fatehabad	Block office	27.02974	78.29618	7.86	2568	0	512	379.85	0.178	29.3	320	340	60	45.6	483.16	2.08	39	0
13	Agra	Fatehpur Sikri	Block office	27.09424	77.66783	7.94	4927	0	793	887.5	1.25	135	501	615	60	111.6	943	2.8	25	0
14	Agra	Fatehpur Sikri	Hiraman	27.03504	77.78254	8.22	5614	0	573	965.6	1.37	24.3	1051.5	890	112	146.4	1001.8	5.08	23	0
15	Agra	Jagner	Block office	26.86657	77.60168	7.92	890	0	439	42.6	0.915	0.0	48.6	325	52	46.8	57.67	2.16	25	0
16	Agra	Jaitpur Kalan	Gadhwar	26.87417	78.69784	8.36	454	0	262	14.2	1.03	0.0	0.0	185	32	25.2	28.93	2.72	45	0
17	Agra	Jaitpur Kalan	Near BDO Office	25.42970	82.80610	7.86	3790	0	756	724.2	0.587	27.8	304	780	76	141.6	603.9	6.48	30	0
18	Agra	Khandauli	Block office	27.31646	78.02961	7.82	6881	0	512	1313.5	0.938	14.3	1321	1830	216	309.6	900.1	3.73	31	0

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19	Agra	Kheragarh	Block office	26.95524	77.82219	8.30	1674	18	586	99.4	0.67	7.2	164	290	44	43.2	270.4	1.24	22	0
20	Agra	Saiyan	Block office	26.93603	77.93505	8.16	1027	0	525	56.8	1.1	16.2	35.8	290	40	45.6	111	2.0	25	0
21	Agra	Shamsabad	Lohaita	26.97949	78.04510	8.21	1223	0	537	60.35	1.15	0.0	67.3	220	40	28.8	188.8	3.1	26	0
22	Agra	Shamsabad	SBI near Block Office	27.01357	78.12330	8.40	1693	18	592	149.1	3.1	30.5	148	295	32	51.6	265	6.2	20	0
23	Aligarh	Akbarabad	Block H.Q.	27.80500	78.27120	8.36	1215	18	366	85	0.4	71	86	280	36	46	149	17.6	28	0
24	Aligarh	Aligarh	District H.Q.	27.89757	78.07295	8.19	1625	0	573	177	0.40	64	120.9	450	36	86	184	11.9	30	0
25	Aligarh	Atrauli	Block H.Q.	28.04420	78.28110	8.21	1332	0	488	170	0.40	17	39	480	24	101	88	10.0	32	0
26	Aligarh	Bijauli	Block H.Q.	27.97890	78.39970	8.09	1766	0	488	191	0.22	35	136.9	490	52	86	185	4.4	36	0
27	Aligarh	Chandaus	Block H.Q.	28.08052	77.85811	8.14	917	0	439	35	0.52	7	27	250	44	34	75	6.2	27	0
28	Aligarh	Dhanipur	Block H.Q.	27.87427	78.11378	8.45	904	18	317	14	0.92	0	21	200	24	34	64	4.8	25	0
29	Aligarh	Gangiri	Block H.Q.	27.92540	78.39120	8.35	1147	30	683	28	0.87	8	18	220	20	41	211	11.5	29	0
30	Aligarh	Gonda	Block H.Q.	27.83670	77.87960	8.18	3662	0	622	603	0.83	16.1	491.3	530	56	94	609	13.2	30	0
31	Aligarh	Iglas	Block H.Q.	27.70620	77.93940	8.10	1200	0	427	177	0.70	37	55	300	56	38	171	3.2	30	0
32	Aligarh	Jawan	Block H.Q.	28.03330	78.11620	8.37	745	36	305	21	0.66	0.0	40	240	28	41	70	6.2	28	0
33	Aligarh	Khair	Block H.Q.	27.94350	77.83640	8.31	2982	24	659	390	2.30	93	244	330	40	55	561	14.6	28	0
34	Aligarh	Lodha	Block H.Q.	27.89330	78.02070	7.81	1104	0	561	50	0.49	13	38	260	20	50	126	9.5	34	0
35	Aligarh	Tappal	Block H.Q.	28.04280	77.57917	8.07	977	0	403	64	1.90	8	110	220	28	36	132	3.7	27	0
36	Aligarh	Iglas	Nama	27.61766	77.94871	8.03	893	0	293	106	0.2	0	29	250	48	31	89	4.9	25	0

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37	Aligarh	Dhanipur	Alinagar	27.85379	78.10709	8.43	1217	36	415	28	0.39	24	80	130	16	22	200	5.1	31	0
38	Aligarh	Gonda	Rudyat Urf Tarapur	27.84189	77.89171	8.34	1192	48	512	35	3.95	19	60	130	24	17	234	3.4	24	0.66
39	Aligarh	Tappal	Langotgarhi	28.01968	77.71377	8.60	1034	36	476	14	1.14	6	70	100	16	14	208	3.6	27	0
40	Aligarh	Gonda	Kalua	27.76775	77.87020	8.37	1240	18	610	35	1.8	32	42	150	28	19	240	3.1	26	0
41	Aligarh	Gonda	Dayapur	27.64796	77.86903	8.06	4094	0	195	581	0.67	9.0	920	870	116	141	520	9.4	15	0
42	Aligarh	Iglas	Makhdampur	27.77229	78.00962	8.37	1360	12	476	92	1.0	26	76	210	20	39	205	5.7	27	0
43	Aligarh	Dhanipur	Shahwazpur	27.77820	78.15044	8.06	1138	0	610	28	0.76	16	36	180	32	24	195	5.9	21	0
44	Aligarh	Gangiri	Sunhara	27.89941	78.28548	8.04	887	0	281	57	0.19	40	86	280	44	41	70	21.3	35	0
45	Aligarh	Aligarh Urban	Beema Nagar	27.90594	78.04660	8.05	1244	0	573	92	0.45	17.0	48	400	36	75	124	9.9	26	0
46	Aligarh	Aligarh Urban	Arya Nagar, Nagla Masani	27.88380	78.05480	8.54	1245	18	378	170	1.4	14	18	180	24	29	205	4.6	17	0
47	Aligarh	Aligarh Urban	Roravar	27.87246	78.04612	8.63	994	42	500	14	1.9	0	17	50	8	7	222	1.5	17	0
48	Aligarh	Aligarh Urban	Firdaus Nagar	27.92828	78.06708	7.92	798	0	403	35	0.62	15	22	210	36	29	78	38	29	0
49	Aligarh	Aligarh Urban	Bada Chowk, Sarai Rehman	27.89379	78.07001	8.13	1380	0	500	113	0.59	57	80	370	28	73	150	10.8	28	0
50	Aligarh	Aligarh Urban	Mahendra Nagar, Aawas Vikas Colony	78.07314	27.86790	7.92	2043	0	427	233	0.31	51	289	580	84	90	215	15.0	26	0
51	Aligarh	Aligarh Urban	Dohra Maffi	27.92827	78.08977	8.31	720	12	366	21	0.61	0	29	220	28	36	78	7.6	24	0
52	Aligarh	Aligarh Urban	Kela Nagar Market	27.90393	78.09037	8.38	1328	18	525	63	0.46	51	73	360	12	80	140	11.5	29	0
53	Aligarh	Aligarh Urban	Gyan Sarovar, Ramesh Vihar Colony	27.89111	78.08943	8.07	1080	0	427	85	0.29	0	77	320	40	53	110	7.9	18	0
54	Aligarh	Aligarh Urban	Kailash Nagar	27.87711	78.09718	8.44	720	12	403	21	0.61	0	28	200	36	27	98	6.06	27	0

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55	Aligarh	Aligarh Urban	Shankar Vihar Colony, Quarsi	78.1155	27.90404	8.15	650	0	342	28	0.43	6	22	220	40	29	63	4.63	27	0
56	Aligarh	Aligarh Urban	Asadpur Kayam,Kyampur	27.8861	78.11438	8.21	654	0	378	21	0.8	0	17	240	36	36	57	6.38	27	0
57	Ambedkar Nagar	Akberpur	Block HQ	26.43624	82.54440	7.87	868	0	464	28	0.38	0.0	13	320	84	26	51	2.6	30	0
58	Ambedkar Nagar	Baskhari	Block HQ	26.45477	82.76523	8.20	555	0	268	14	0.32	24	15	240	44	31	16	2.2	29	0
59	Ambedkar Nagar	Bhiti	Block HQ	26.47154	82.30549	8.16	778	0	427	21	0.55	0.0	5.5	290	56	36	43	3.7	29	0
60	Ambedkar Nagar	Bhiyaon	Block HQ	26.23815	82.82727	7.86	735	0	390	14	0.55	10	14	295	48	42	30	2.9	26	0
61	Ambedkar Nagar	Jahangirganj	Block HQ	26.35308	83.02287	8.19	631	0	366	7.1	0.59	0.0	0	270	60	29	19	2.8	28	0
62	Ambedkar Nagar	Jalalpur	Block HQ	26.30987	82.73370	7.74	991	0	488	43	0.11	23	19	370	56	55	55	4.3	31	0
63	Ambedkar Nagar	Katehari	Block HQ	26.48789	82.44964	8.02	596	0	329	14	0.30	0.0	7.3	260	56	29	15	4.4	27	0
64	Ambedkar Nagar	Ramnagar	Block HQ	26.44633	82.90453	8.24	456	0	232	7.1	0.70	0.0	21	190	44	19	15	2.2	24	0
65	Ambedkar Nagar	Tanda	Block HQ	26.53864	82.64000	7.83	665	0	354	14	0.19	0.0	22	290	64	31	18	3.2	28	0
66	Ambedkar Nagar	Baskhari	Parsaye, Ekdalla Dihawar	26.52284	82.72306	7.62	701	0	329	36	0.36	0.0	22	320	52	46	11	1.8	27	0
67	Ambedkar Nagar	Baskhari	Shadipur	26.51905	82.85793	7.74	576	0	268	7.1	0.48	6.1	48	220	40	29	30	2.4	25	0
68	Ambedkar Nagar	Jalalpur	Dhaurua (Pendiya)	26.26686	82.58388	8.07	764	0	433	7.1	0.65	5.3	8.2	250	40	36	58	2.4	25	0
69	Amethi	Bahadurpur	Block HQ	26.26678	81.51818	7.97	992	0	543	21	0.95	0.0	14	180	28	26	141	3.6	22	0
70	Amethi	Tiloee	Block HQ	26.39280	81.47084	7.93	967	0	439	50	0.86	0.0	46	285	36	47	87	5.0	25	0
71	Amethi	Amethi	PWD Dak Bangla	26.15618	81.80860	7.57	3083	0	964	284	0.34	72	273	730	52	144	362	8.8	28	0
72	Amethi	Bhetya	Block HQ	26.21066	81.87518	8.05	636	0	317	7.1	0.54	0.0	35	230	40	31	37	3.4	27	0

Analytical results of Pre Monsoon and Post Monsoon Data:

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
73	Amethi	Gauriganj	PWD Entrance, Near Bike Stand	26.20681	81.68707	7.86	1075	0	415	128	0.31	0.0	12	400	48	67	60	6.3	22	0
74	Amethi	Jagdishpur	Block HQ	26.45599	81.62883	8.01	1647	0	598	135	0.49	18	111	400	56	62	187	4.9	27	0
75	Amethi	Sangrampur	Block HQ	26.07751	81.83804	8.08	946	0	366	36	0.89	0.0	108	320	40	53	64	7.5	26	0
76	Amethi	Musafir Khana	Block HQ	26.37775	81.80047	7.59	1517	0	525	156	0.58	51	52	480	48	86	121	6.9	28	0
77	Amethi	Bahadurpur	Kesariya Salimpur	26.28083	81.44259	7.64	1966	0	354	320	0.41	23	197	570	88	84	171	15	25	0
78	Amethi	Shukul Bazar	Mahona West, Kuraishi Mohalla	26.53346	81.58725	7.85	674	0	342	21	0.71	21	7.2	260	36	41	33	4.7	27	0
79	Amethi	Musafir Khana	Musafirkhana, Rasoolabad	26.39883	81.87271	8.08	1225	0	488	50	0.58	5.3	128	350	56	50	115	4.0	27	0
80	Amroha	Dhanaura	Papsari Khadar	29.30401	78.11760	7.71	320	0	183	14	0.35	0	0	125	30	12	21	3.2	25	0
81	Amroha	Dhanaura	Sultanpur	28.93184	78.15407	7.70	404	0	237.9	14	0.37	0	6.3	170	56	7.2	21	4.2	24	0
82	Amroha	Amroha	Shaikhpura Imma	28.92669	78.41705	7.62	746	0	402.6	28	0.20	11	24	350	108	19	19	6.9	29	0
83	Amroha	Hasanpur	Sabadarpur SARKI	28.67512	78.41279	7.84	673	0	305	14	0.35	0	74	290	96	12	23	4.0	28	0
84	Amroha	Gangeshwari	Sikandarpur Shebu	28.54739	78.41133	7.60	323	0	158.6	14	0.38	18	0	145	52	3.6	9.4	2.6	25	0
85	Amroha	Joya	Patai	28.80624	78.55628	7.94	630	0	366	14	0.50	0	22	280	80	19	26	5.0	27	0
86	Amroha	Amroha	Block office	28.90419	78.48593	7.82	744	0	341.6	50	0.39	13	29	300	40	48	39	5.5	25	0
87	Amroha	Hasanpur	Block office	28.73178	78.28194	7.73	1607	0	305	99	0.22	40	367	650	108	91	69	4.6	31	0
88	Amroha	Joya	Block office	28.83557	78.47319	7.76	1427	0	488	99	0.40	83	92	475	40	90	89	28	24	0
89	Auraiya	Airwa Katra	AirwaKatra Block Office	26.88848	79.42835	7.82	1233	0	390	135	0.59	5.4	127	490	92	63	82	4.9	29	0
90	Auraiya	Airwa Katra	Kaba	26.85928	79.46146	7.86	610	0	354	7	0.49	0	22	160	36	17	80	2.2	27	0

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91	Auraiya	Achalda	Achalda Block Office	26.69954	79.40270	7.72	798	0	390	43	0.78	9.9	35	340	48	54	45	4.2	27	0
92	Auraiya	Ajitmal	Ajitmal Block Office	26.56578	79.31875	7.79	888	0	500	35	1.1	0	22	280	44	41	96	2.8	25	0
93	Auraiya	Ajitmal	Akbarpur	26.50781	79.32634	8.13	975	0	573	21	4.1	0	23	120	16	19	192	2.7	19	0
94	Auraiya	Auraiya	Auraiya Block Office	26.46610	79.50392	7.39	1175	0	403	113	0.54	85	45	400	56	63	83	2.5	34	0
95	Auraiya	Bhagyanagar	Bhagyanagar Block Office	26.61164	79.49781	7.81	878	0	488	28	0.61	9.1	21	330	36	58	70	3.3	29	0
96	Auraiya	Sahar	Ramgarh	26.70243	79.51726	7.87	836	0	464	28	0.94	6.9	33	230	36	34	104	2.9	27	0
97	Auraiya	Sahar	Piluaa	26.65560	79.60234	7.70	625	0	378	14	0.68	0	9.5	220	32	34	50	2.9	24	0
98	Auraiya	Sahar	Sahar Block Office	26.75847	79.60017	7.79	958	0	512	35	0.95	0	23	270	36	44	111	4.7	27	0
99	Auraiya	Sahar	Gapariyapur	26.72113	79.59094	7.87	965	0	512	28	0.48	0	51	330	36	58	91	5.5	32	0
100	Auraiya	Sahar	Asu	26.68334	79.63808	7.98	1262	0	512	35	0.76	0	123	360	36	66	118	7.6	20	0
101	Auraiya	Sahar	Bholapur	26.73674	79.68923	8.10	994	0	561	21	0.77	0	31	300	28	56	112	5.5	25	0
102	Auraiya	Sahar	Yakubpur	26.76409	79.71491	7.80	1293	0	500	149	0.81	7.7	43	340	36	61	155	18	28	0
103	Auraiya	Sahar	PurwaUdai	26.76686	79.56154	7.80	980	0	476	50	1.0	15	30	300	36	51	98	5.4	29	0
104	Auraiya	Bidhuna	Bidhuna Block Office	26.80250	79.50242	7.92	1188	0	647	43	0.89	8.5	30	400	24	83	112	8.0	25	0
105	Auraiya	Bidhuna	Kashari	26.82945	79.60814	8.06	822	0	464	21	1.2	0	18	270	36	44	80	5.0	27	0
106	Auraiya	Bidhuna	RuruGanj	26.76930	79.45427	7.88	732	0	427	28	0.74	0	12	280	36	46	53	5.5	31	0
107	Ayodhya	Amaniganj	Block HQ	26.58989	81.76909	7.91	597	0	329	14	0.97	0.0	8.1	240	36	36	24	4.3	27	0
108	Ayodhya	Bikapur	Block HQ , Near Peepal Tree	26.59490	82.13880	8.02	672	0	354	14	0.64	0.0	18	255	60	25	32	3.9	30	0

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109	Ayodhya	Haringtonganj	Left to the entrance of Block HQ gate	26.55450	82.02040	8.03	378	0	195	14	0.47	0.0	6.3	160	40	14	12	2.3	25	0
110	Ayodhya	Masodha	Block HQ	26.73384	82.14017	8.07	315	0	159	7.1	0.69	0.0	20	150	40	12	2.1	2.6	22	0
111	Ayodhya	Mayabazar	Near Thana Maharajganj	26.64514	82.33258	7.78	490	0	256	7.1	0.53	0.0	21	220	52	22	9.0	3.6	23	0
112	Ayodhya	Milkipur	Block HQ, Near Prerna Canteen	26.62771	81.94320	7.67	995	0	488	36	0.31	20	25	380	46	64	50	4.3	30	0
113	Ayodhya	Purabazar	Block HQ	26.70232	82.26667	7.86	671	0	354	14	0.29	18	10	280	56	34	24	1.9	30	0
114	Ayodhya	Sohawal	Block HQ	26.73582	81.99082	7.74	664	0	342	21	0.46	0.0	12	300	52	41	12	4.1	27	0
115	Ayodhya	Tarun	Block HQ	26.55024	82.24201	7.73	799	0	384	21	0.20	6.5	44	290	72	26	48	3.2	31	0
116	Ayodhya	Mawai	Block HQ	26.74435	81.58564	7.93	685	0	390	7.1	0.56	0.0	6.1	280	48	38	26	2.6	26	0
117	Ayodhya	Rudauli	Block HQ	26.78081	81.75506	7.88	640	0	329	21	0.55	0.0	16	280	56	34	15	3.6	28	0
118	Ayodhya	Rudauli	Jakhwa, Amaniganj	26.64688	81.73922	7.59	564	0	293	7.1	0.39	7.8	24	200	44	22	34	4.3	28	0
119	Ayodhya	Sohawal	Ramnagar, Dhaurhara	26.79363	81.87408	7.78	678	0	305	14	0.37	17	46	310	72	31	10	2.1	32	0
120	Ayodhya	Milkipur	Vijay Pathak ka Purwa	26.65556	82.02008	7.75	627	0	329	7.1	0.55	16	14	230	40	31	36	3.1	32	0
121	Ayodhya	Bikapur	Shukl ka Purwa	26.52895	82.15828	7.74	635	0	366	7.1	0.65	0.0	0	240	36	36	33	4.3	28	0
122	Ayodhya	Maya Bazar	Dilasiganj	26.64980	82.39198	7.79	619	0	354	7.1	0.55	0.0	5.7	270	56	31	16	2.7	26	0
123	Azamgarh	Tahbarpur	Basai Bande Daspur	26.12834	83.02992	7.65	567	0	292.8	7	0.86	14	8.2	230	52	24	23	2.9	20	0
124	Azamgarh	Jahanganj	Block Office	25.95909	83.26673	7.83	917	0	512.4	21	0.38	6.1	0	380	48	62	35	2.8	29	0
125	Azamgarh	Haraiya	Sahbadiya Sultanpur	25.25075	83.41022	7.69	464	0	268.4	7	0.24	0	0	220	56	19	3.7	2.9	16	0
126	Azamgarh	Ahiraula	Block Office	26.17514	82.89244	7.78	718	0	402.6	14	0.48	0	0	300	44	46	24	2.5	26	0

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127	Azamgarh	Thekma	Block Office	25.86340	82.92628	7.84	720	0	402.6	7	0.60	0	8.7	280	48	38	32	3.4	28	0
128	Azamgarh	Palhana	Block office	25.78446	83.09023	8.31	1318	30	610	14	8.2	0	35	80	12	12	265	1.2	19	0
129	Azamgarh	Maharajganj	Block Office	25.26076	83.11155	7.62	435	0	244	7	0.00	0	0	140	44	7.2	32	2.3	27	0
130	Azamgarh	Mohammadpur	Block Office	25.96242	83.02766	7.70	2256	0	707.6	199	0.39	0	225	640	80	106	225	3.4	24	0
131	Baghpat	BAGHPAT	In block office	28.94399	77.22007	7.46	1964	0	305	319	0.78	192	123	641	154	62	162	8.1	27	0
132	Baghpat	BARAUT	In block office	29.10699	77.26438	7.97	760	0	415	14	1	20	41	265	43	38	65	5.7	26	0
133	Baghpat	CHAPRAULI	In block office	29.20812	77.17869	8.02	1206	0	549	85	1.3	17	50	170	32	22	224	5.0	30	0
134	Baghpat	KHEKRA	In block office	28.86913	77.28847	7.95	713	0	366	28	0.76	0	47	280	54	36	43	4.7	29	0
135	Baghpat	PILANA	In block office	28.93623	77.37222	8.02	1459	0	696	50	0.75	12	132	330	50	50	215	9.1	29	0
136	Baghpat	baraut	GARHI KANGRAN	29.1974	77.42204	8.18	489	0	219.636	7.1	0.10	0	52	20	8.0	0.00	107	0	17	0
137	Baghpat	Baghpat	NEAR JAI PAL SINGH HOUSE	29.03267	77.23539	7.71	875	0	476	28	0.6	9.6	41	250	46	33	104	6.6	27	0
138	Baghpat	Binauli	PUSAR VILLAGE	29.16523	77.38683	7.68	1081	0	525	85	0.48	0	19	390	52	63	90	6.8	24	0
139	Baghpat	Khekra	ENTRANCE OF DHARIMPUR	28.77600	77.37603	8.01	1184	0	439	128	0.72	30	34	260	36	41	165	4.6	30	0
140	Bahraich	Tejawapur HQ	Block Campus	27.53139	81.49583	7.22	785	0	427	35	0	0	5.0	290	86	18	56	7.5	23	0
141	Bahraich	Huzurpur	Block Campus	27.35278	81.66583	7.33	494	0	293	7.1	0.28	0	5.0	210	54	18	18	4.4	22	0
142	Bahraich	Mahasi HQ	Block Campus	27.63972	81.38750	7.49	882	0	427	78	0	0	24	285	50	38	63	50	14	0
143	Bahraich	Shivpur HQ	Block Campus	27.81083	81.39333	7.51	649	0	390	7.1	0	0	5.0	300	74	28	18	5.5	25	0
144	Bahraich	Fakharpur	Block Office	27.41944	81.52639	7.62	993	0	390	99	0.21	28	30	290	96	12	100	20	25	1.25

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145	Bahraich	Mihipurwa	Block Office	28.02556	81.38361	7.74	555	0	342	14	0	0	0	260	64	24	15	2.4	27	0
146	Bahraich	Mihipurwa	Mote Baba	28.29610	81.17030	7.37	670	0	403	14	0	0	5.0	320	52	46	15	4.7	33	0
147	Bahraich	Balha	Shiyapura	27.98114	81.31029	7.21	561	0	342	7.1	0.28	0	5.0	190	64	7.2	48	5.4	27	0
148	Bahraich	Mihipurwa	Saryou link canal	28.07334	81.33086	7.88	398	0	220	14	0.47	0	19	200	52	17	8.48	1.7	30	0
149	Bahraich	Mahasi	Godmar khurd	27.54422	81.40649	7.69	624	0	366	14	0.29	0	19	250	84	10	36	5.2	27	0
150	Bahraich	Mahasi	Mahua Chauraha	27.68271	81.33429	7.59	653	0	354	28	0	5.0	24	250	68	19	45	9.8	15	0
151	Bahraich	Shivpur	Baundi	27.82184	81.37150	7.52	968	0	476	50	0.22	0	50	350	68	43	49	40	14	0
152	Bahraich	Fakharpur	Kodahi	27.43009	81.46252	7.69	971	0	500	43	0.27	0	31	380	80	43	60	5.0	28	0
153	Bahraich	Balha	New Basti Chairaha	27.96084	81.46243	7.65	684	0	403	14	0.51	0	6.4	290	60	34	34	4.2	34	0
154	Bahraich	Kaisarganj	Jodhiya Nim	27.26894	81.51593	7.84	400	0	244	7.1	0.33	0	6.6	165	52	8.4	24	3.3	30	0
155	Bahraich	Jarwal	Nasirganj, Barauli Ghat	27.16010	81.51392	7.67	580	0	305	28	0.27	0	24	290	88	17	6.5	4.9	22	0.68
156	Bahraich	Risiya	Darjinpurwa	27.81928	81.60981	7.89	474	0	268	14	0.53	0	5.0	220	56	19	14	2.8	29	0
157	Bahraich	Bisheshwarganj	Loharipurwa	27.41145	81.88291	8.02	285	0	153	14	0	0	5.0	120	40	4.8	11	2.2	26	0
158	Ballia	Sohaon	Chitbaragoan	25.73440	83.98120	7.80	757	0	402.6	21	0.56	0	8.5	280	40	43	42	2.3	28	0
159	Ballia	Maniyar	Pilui Fattepur	25.99024	84.14443	7.54	764	0	402.6	14	0.35	0	17	290	56	36	36	7.2	26	0
160	Ballia	Bansdeeh	Block Office	25.87439	84.21642	7.51	2612	0	658.8	425	0.45	40	76	500	132	41	354	2.9	29	0
161	Ballia	Belhari	Block Office	25.77881	84.30445	7.64	1316	0	536.8	99	0.42	0	64	390	80	46	104	33	22	0
162	Ballia	Chilkahar	Block Office	25.82529	83.96436	7.74	899	0	524.6	7	0.73	0	0	360	60	50	37	3.4	28	0

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163	Ballia	Murali Chhapara	Block Office	25.72846	84.50528	7.78	715	0	414.8	7	0.00	0	0	260	64	24	43	2.9	23	0
164	Ballia	Rasara	Block Office	25.86830	83.86164	7.90	849	0	500.2	7	0.35	0	0	310	40	50	50	3.7	26	0
165	Ballia	Bairya	Block Office	25.79578	84.47864	7.48	776	0	378.2	28	0.11	0	23	270	56	31	48	2.6	27	0
166	Ballia	Dubahar	Block Office	25.77011	84.17503	7.69	1012	0	536.8	35	0.42	0	5.6	340	48	53	71	4.3	28	0
167	Ballia	Reoti	Block Office	25.84180	84.37180	8.06	599	0	329.4	14	0.34	0	0	230	32	36	29	1.5	26	0
168	Ballia	Sohaon	Block Office	25.62909	84.00429	7.63	676	0	390.4	7	0.20	0	0	240	48	29	43	3.2	23	0
169	Balrampur	Balrampur HQ	Block Campus	27.42861	82.17111	7.53	782	0	403	50	0.37	0	26	250	78	13	80	1.0	20	0
170	Balrampur		Ganga Didba, 5 km from Balrampur towards Tulsipur	27.43410	82.21549	7.66	624	0	354	21	0.38	0	10	270	54	32	31	3.3	25	0
171	Balrampur		Infront of Mishra Auto Sales, near Balrampur chini mil	27.40928	82.15749	7.74	880	0	488	28	1.00	0	29	380	62	54	37	2.0	35	0
172	Balrampur		Near house of Kaji Gausulwara, on Utraula Balrampur road and 200 m from bipass of Bahrich.	27.40944	82.18301	7.59	949	0	500	43	0	0	43	395	98	36	58	3.8	27	0
173	Balrampur		Near Indian Oil Petrol Pump, and 5 km from Balrampur block on Balrampur to Bahraich Road.	27.45983	82.14262	7.72	335	0	195	7.1	0.38	0	0	150	48	7.2	8.7	1.88	27	0
174	Balrampur	Gaidas Buzurg HQ	Block Campus	27.26361	82.42083	7.42	700	0	378	35	0.42	0	10	280	66	28	45	4.6	20	0
175	Balrampur		Salapur village	27.23128	82.42429	7.41	749	0	329	50	0.29	23	35	360	92	31	20	0	36	0

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176	Balrampur		Dubra Autarpur	27.26114	82.43733	7.66	847	0	403	71	0.63	0	24	360	92	31	46	3.1	29	0
177	Balrampur		Raza jot village, near Durga Mandir	27.28370	82.40702	7.82	481	0	305	7.1	0.37	0	5.0	220	64	14	17	3.2	26	0
178	Balrampur	Gainsadi HQ	Block Campus	27.52944	82.54750	8.03	1343	0	866	14	1.20	0	5.3	100	18	13	290	0	16	0
179	Balrampur		Bakauli	27.53300	82.56448	7.11	1191	0	573	71	0.43	0	46	510	80	74	55	3.5	16	0
180	Balrampur		Near Railway station Gaisadi	27.52758	82.54710	7.18	1743	0	476	184	0.29	32	200	500	184	10	190	1.8	16	0
181	Balrampur		Durgapur village,back side of durgapur Police Station and 6km from sonepur more	27.58126	82.50569	7.51	730	0	366	35	0.30	5.0	7.4	315	80	28	17	1.0	17	0
182	Balrampur	Rehra Bazar HQ	Block Campus	27.18167	82.27861	7.31	1120	0	390	121	0	65	46	420	96	43	84	2.6	30	0
183	Balrampur		Patel chauraha	27.21450	82.29920	7.63	672	0	403	21	0.34	0	7.9	235	60	20	57	2.2	28	0
184	Balrampur		4.2 km from rehar bazar towards mankapur, adjusent to durga ji mandir.	27.15866	82.26063	7.81	418	0	244	14	0.28	0	0	190	58	11	14	2.5	30	0
185	Balrampur		near house of Shri Ram plash, 3.4 km from rehar bazar, near patel chauraha	27.20572	82.26076	7.74	588	0	342	14	0.54	0	5.0	270	74	20	16	2.7	27	0
186	Balrampur		Sugauwa more, 4 km from rehar bazar towards Bhalihanjot.	27.17223	83.30737	7.49	474	0	244	28	0.31	0	8.9	225	68	13	12	3.0	23	0
187	Balrampur	Harraiya Satgharwa	Block Office	27.63611	82.17444	7.81	813	0	500	14	0.79	0	9.0	170	40	17	128	2.4	20	0
188	Balrampur	Tulsipur	Block Office	27.52222	82.29556	7.39	490	0	281	14	0.57	0	8.6	210	64	12	24	1.1	22	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
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189	Balrampur	Utraula	Block Office	27.32139	82.40750	7.91	678	0	366	35	0.36	11	15	310	72	31	25	5.5	27	0
190	Balrampur	Harraya Satgawa	Laliya Village	27.57126	82.13757	7.65	713	0	403	14	0.42	0	5.0	170	60	4.8	87	1.3	27	0
191	Balrampur	Shri Datt Ganj	Nauradih	27.28467	82.29640	8.08	584	0	366	7.1	0.35	0	5.0	210	68	10	45	3.8	33	0
192	Balrampur	Harraya Satgawa	Haraiya Bazar	27.65591	82.27939	7.74	2686	0	1098	291	0.28	14	160	170	60	4.8	505	147	22	0
193	Balrampur	Gainsara	Tharunia	27.39198	82.44914	7.74	439	0	207	21	0.33	0	17	200	76	2.4	7.9	0.94	30	0
194	Balrampur	Gainsara	Sonepur More	27.52978	82.48769	8.11	961	0	610	14	0.74	0	5.0	150	32	17	175	1.32	28	0
195	Balrampur	Gainsara	Kushahwa	27.62993	82.51902	7.63	944	0	427	78	0.64	14	32	440	64	67	24	1.0	16	0
196	Balrampur	Pachpherwa	Shivpur More	27.45114	82.45114	7.84	687	0	427	7.1	0.24	0	5.0	280	76	22	35	1.2	19	0.62
197	Balrampur	Gainsara	Chandarpur	27.66203	82.65529	7.31	1264	0	476	78	0.21	53	53	340	76	36	83	79	20	0
198	Balrampur	Pachperwa	Barhni Mai Mandir	27.41855	82.73506	7.63	644	0	378	14	0	5.0	7.4	310	52	43	19	1.1	31	0
199	Balrampur	Pachperwa	Majigwa Khurd	27.54511	82.72581	8.12	853	0	537	7.1	0.93	0	6.7	140	36	12	146	0	20	0
200	Balrampur	Sriduttganj	Block Campus	27.37444	82.30250	7.93	564	0	305	7.1	0.34	0	0	200	60	12	24	3.2	32	0
201	Balrampur	Pachperva	Block Campus	27.52722	82.63028	7.96	865	0	537	7.1	0.55	0	0	270	48	36	90	1.0	20	0
202	Banda	Bisanda	Oran	25.37147	80.73852	8.02	999	0	439	78	0.47	7.8	21	340	92	26	71	2.8	32	0
203	Banda	Naraini	Manohar purwa (Turra)	25.26437	80.60071	7.87	800	0	415	28	0.53	0	12	240	36	36	73	1.3	32	0
204	Banda	Naraini	Prashidhhapur	25.13505	80.61434	7.62	1249	0	427	135	0.81	37	48	400	88	43	101	0.0	52	0
205	Banda	Badokhar Khurd	Kanwara	25.51321	80.32261	8.07	882	0	439	28	0.44	21	24	250	64	22	86	0.0	27	0
206	Banda	Badokhar Khurd	Kahriya	25.57874	80.37490	8.18	845	0	476	14	0.52	9.6	0	330	40	55	41	1.0	31	0

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207	Banda	Jaspura	Sindhan Kalan	25.77942	80.44207	7.69	500	0	268	7.1	0.48	11	9.2	200	60	12	22	1.1	27	0
208	Banda	Jaspura	Narauli	25.86037	80.44357	7.84	1555	0	769	71	0.64	8.7	34	300	36	50	214	4.1	28	0
209	Banda	Tindwari	Bhujrakh	25.64415	80.58788	8.10	891	0	488	21	0.49	9.8	7.7	250	48	31	89	1.5	25	0
210	Banda	Baberu	Kaji Tola	25.64555	80.72434	7.79	888	0	500	14	0.77	5.5	7.6	270	48	36	78	1.6	24	0
211	Banda	Kamasin	Mau	25.61522	80.86930	8.07	1284	0	622	50	0.49	7.1	15	350	32	65	115	0.0	30	0
212	Banda	Kamasin	Itarra Badhauni	25.49063	80.99112	7.64	841	0	403	50	0.52	8.4	9.6	200	48	19	102	0.0	33	0
213	Banda	Baberu	Murwal	25.51695	80.56042	7.67	777	0	415	21	0.38	8.0	9.9	280	52	36	49	2.1	29	0
214	Banda	Badokhar Khurd	Jaurahi	25.48114	80.43166	8.02	1012	0	512	36	0.61	0	23	250	48	31	113	1.6	29	0
215	Banda	Mahuwa	Kacchi Sadak	25.25037	80.43445	7.82	870	0	451	21	0.22	0	31	330	116	10	46	1.1	31	0
216	Banda	Badokhar Khurd	Chamraha	25.38574	80.17366	7.99	986	0	561	14	0.78	5.5	0	270	40	41	101	1.7	31	0
217	Banda	Naraini	Naraini	25.18482	80.47166	7.87	1371	0	580	121	0.7262	12	21	500	56	86	81	1.3	31	0
218	Banda	Badokhar Khurd	Badokhar Khurd	25.45147	80.35328	8.08	1149	0	659	7.1	0.70	0	22	260	44	36	142	1.8	26	0
219	Banda	Baberu	Baberu	25.53828	80.69601	7.84	730	0	390	21	0.4078	0	13	190	32	26	79	1.3	23	0
220	Banda	Badokhar Khurd	Banda(HQ)	25.48109	80.33086	7.61	1795	0	586	142	0.6864	79	131	440	48	77	204	1.1	29	0
221	Barabanki	Bani Kodar	Block Office	26.79300	81.52400	7.78	633	0	317.2	14	0.35	0.0	15	240	64	19	21	3.9	31	0
222	Barabanki	Banki	Block Office	26.93040	81.18410	7.93	684	0	414.8	14	0.45	0.0	0	210	56	17	74	4.9	30	0
223	Barabanki	Dariyabad	Block Office	26.88850	81.55690	7.91	646	0	347.7	14	0.63	0.0	9.0	255	44	35	35	3.3	30	0
224	Barabanki	Dewa	Block Office	27.03570	81.17060	7.96	388	0	195.2	14	1.43	0.0	20	189	44	19	4.6	3.9	21	0

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S. No.	District	Block	Location	Latitude	Longitude	pH	EC µS/cm at 25° C	CO_3	HCO_3	Cl	F	NO_3	SO_4	TH	Ca	Mg	Na	K	SiO_2	PO_4
225	Barabanki	Fatehpur	Block Office	27.17430	81.21580	8.04	550	0	268.4	21	0.34	0.0	19	180	64	4.8	36	7.0	19	0
226	Barabanki	Haidergarh	Block Office	26.60460	81.36330	7.94	700	0	427	14	0.51	0.0	0	288	56	36	29	4.8	30	0
227	Barabanki	Harak	Block Office	26.85530	81.22850	7.92	652	0	341.6	21	0.69	0.0	12	270	48	36	22	6.0	26	0
228	Barabanki	Masauli	Block Office	26.98090	81.32210	7.97	501	0	292.8	14	0.70	0.0	10	252	52	29	9.2	3.6	21	0
229	Barabanki	Nindura	Block Office	27.12140	81.07270	7.96	582	0	311.1	7.1	0.63	0.0	18	235	48	28	26	4.9	28	0
230	Barabanki	Puredalal	Block Office	26.86860	81.71030	7.92	423	0	250.1	7.1	0.63	0.0	0	180	44	17	12	2.5	28	0
231	Barabanki	Ramnagar	Block Office	27.08520	81.40530	7.96	642	0	292.8	43	0.23	0.0	17	252	60	24	29	4.4	19	0
232	Barabanki	Siddhaur	Block Office	27.30050	83.09450	7.81	780	0	366	43	0.19	0.0	29	324	60	42	39	4.1	28	0
233	Barabanki	Sirauli Gauspur	Block Office	26.95760	81.43650	7.78	397	0	225.7	7.1	0.31	0.0	19	200	64	10	4.9	2.4	34	0
234	Barabanki	Suratganj	Block Office	27.19320	81.33440	7.59	564	0	298.9	28	0.37	0.0	17	216	68	11	30	4.8	27	0
235	Barabanki	Trivediganj	Block Office	26.64190	81.30890	7.90	744	0	433.1	14	0.70	11	15	320	48	48	26	3.7	31	0
236	Barabanki	Nindaura	Baba Ki Kutti	27.17820	81.10070	8.06	389	0	195.2	11	0.99	0.0	21	170	48	12	7.3	3.0	22	0
237	Barabanki	Harak	Bhanmau	26.80139	81.26444	8.37	525	18	244	14	0.48	0.0	15	195	28	30	37	5.0	31	0
238	Barabanki	Masauli	Lakshvar Vajaha	26.91778	81.29083	7.93	591	0	353.8	11	0.27	0.0	20	260	60	26	24	4.7	26	0
239	Barabanki	Suratganj	Purwa Amarsingh	27.13900	81.39140	8.02	561	0	341.6	14	0.11	0.0	5.4	230	64	17	29	4.5	29	0
240	Barabanki	Haidergarh	Chaubisi	26.57222	81.42944	7.87	551	0	347.7	11	0.14	0.0	0	240	72	14	24	4.8	27	0
241	Bareilly	Bhutah	Block HQ(in premises of block)	28.26866	79.64135	7.99	510	0	281	7.1	0.22	0	14	230	60	19	10	3.1	25	0
242	Bareilly	Bithri Chainpur	Block HQ(in premises of block)	28.33749	79.50435	7.92	599	0	256	36	0.26	0	35	230	36	34	23	15.6	24	0

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
243	Bareilly	Shergarh	Block HQ(in premises of block)	28.65410	79.36506	8.25	589	0	293	14	0.23	0	19	250	72	17	15	3.6	25	0
244	Bareilly	Majhgawa	Block HQ	28.31174	79.27350	8.34	775	6	353.8	36	0.23	0	34	150	28	19	107	2.0	23	0
245	Bareilly	Ram Nagar	Block HQ	28.36955	79.12004	8.04	469	0	189.1	21	0.20	20	21	220	52	22	6	2.1	42	0
246	Bareilly	Faridpur	Block HQ	28.20066	79.53943	7.92	1534	0	329.4	178	0.16	38	164	490	84	67	104	7.3	17	0
247	Bareilly	Fatehganj	Mirzapur	28.55598	79.29460	7.85	796	0	341.6	43	0.00	0	45	210	52	19	73	7.1	27	0
248	Bareilly	Shergarh	Bunchi	28.69346	79.29672	7.94	630	0	305	21	0.19	0	12	220	44	26	39	2.7	22	0
249	Bareilly	Baheri	Garibpurwa	28.80053	79.55485	8.22	430	0	201.3	11	0.35	0	20	160	28	22	23	1.4	28	0
250	Bareilly	Ramnagar	Nurpur	28.29944	79.15209	7.92	712	0	359.9	25	0.29	0	0	280	48	38	32	4.6	34	0
251	Bareilly	Ramnagar	Budhanpur Bujurg	28.42541	79.02085	7.97	378	0	195.2	14	0.00	0	6.4	100	38	1	34	2.9	32	0
252	Bareilly	Bhojpura	Samshapur	28.56578	79.43141	7.90	514	0	274.5	14	0.13	0	0	220	48	24	15	3.1	25	0
253	Bareilly	Bitheri chainpur	Sawarkhera	28.43827	79.56603	8.12	492	0	268.4	7.1	0.29	0	0	200	48	19	18	2.7	26	0
254	Bareilly	Alampur Jafarabad	Nawada	28.17045	79.49354	8.39	467	6	201.3	7.1	0.14	0	28	210	44	24	7	2.7	26	0
255	Basti	Gaur HQ	Block Campus	26.90764	82.57372	7.81	440	0	244	14	0.45	0	5.0	205	50	19	10	2.1	25	0
256	Basti	Parasurampur HQ	Block Campus	26.90500	82.34000	7.69	589	0	329	21	0.47	0	5.0	245	72	16	29	2.4	26	0
257	Basti	Saunghat HQ	Block Campus	26.83630	82.76820	7.83	702	0	427	21	0.59	0	8.0	305	66	34	37	3.1	22	0
258	Basti	Vikramjot HQ	Block Campus	26.77972	82.36611	7.71	461	0	256	7.1	0.51	0	0	195	50	17	12	3.1	28	0
259	Basti	Saltaua	Block Office	26.93000	82.71389	7.71	796	0	500	14	0.29	0	5.0	270	52	34	74	3.5	33	0
260	Basti	Parasrampur	Bedipur Chauraha	26.88642	82.44144	7.79	691	0	354	35	0	7.3	27	300	76	26	36	1.2	44	0

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261	Basti	Ramnagar	Bardhar	27.03280	82.73278	7.89	484	0	281	14	0	5.0	0	220	64	14	14	2.85	29	0
262	Basti	Saughat	Jiwdhara Village	26.77415	82.86622	7.99	490	0	256	21	0.35	17	7.1	220	48	24	19	2.7	26	0
263	Bijnor	Mohammadpur Deomal	Hakeempur	29.55849	78.11278	7.50	725	0	390	14	0.38	30	29	345	112	16	20	5.3	30	0
264	Bijnor	Haldaur (Khari Jhalu)		29.30401	78.11760	7.70	284	0	158.6	7.1	0.34	0	11	130	44	4.8	8.8	4.5	25	0
265	Bijnor	Najibabad	Ramdas Wali	29.69700	78.24690	7.70	758	0	323.3	78	0.37	8	27	340	124	7.2	28	6.0	21	0
266	Bijnor	Najibabad	Jagdishpur	78.24787	28.56272	7.90	380	0	225.7	7.1	0.51	0	18	190	60	9.6	7.0	4.3	23	0
267	Bijnor	Haldaur (Khari Jhalu)	Rohniya	28.17720	78.25399	7.40	829	0	439.2	14	0.19	0	45	380	100	31	19	8.0	27	0
268	Bijnor	Jaleelpur	Bhiriya Khera	29.05997	78.26331	7.60	863	0	451.4	35	0.23	0	52	420	92	46	22	5.8	17	0
269	Bijnor	Najibabad	Medduwalla	29.70942	78.39746	7.20	647	0	353.8	21	0.30	14	20	320	116	7.2	14	2.0	23	0
270	Bijnor	Noorpur	Murahat	29.04971	78.40111	7.90	548	0	244	35	0.21	0	29	225	68	13	23	4.6	30	0
271	Bijnor	Kotwali	Khushalpur	29.44075	78.53892	7.80	740	0	390.4	43	0.40	0	13	330	88	26	28	3.1	20	0
272	Bijnor	Afzalgarh	Rasulpur Abad	29.44594	78.66545	7.82	438	0	244	7.1	0.39	0	19	190	76	0	17	1.3	24	0
273	Bijnor	Afzalgarh	Fathepur Dhara	29.44597	78.83715	7.60	529	0	305	14	0.35	8.0	7.5	280	68	26	3.9	1.0	17	0
274	Bijnor	Jaleelpur	Block office	29.14748	78.18623	7.98	614	0	231.8	14	0.42	0	82	300	60	36	16	5.1	25	0
275	Bijnor	Kiratpur	Suwaheri Khurd	29.46750	78.17556	7.74	890	0	439.2	35	0.25	0	51	450	60	72	2.8	8.6	23	0
276	Bijnor	Mohammadpur Deomal	Chakrani/ Gidarpura	29.37647	78.13236	8.00	842	0	402.6	57	0.27	0	50	350	40	60	47	10	14	0
277	Bijnor	Noorpur	Block office	29.15190	78.40275	7.73	1175	0	549	92	0.29	0	25	450	72	65	70	7.3	35	0
278	Bijnor	Afzalgarh	Afzalgarh Block	29.37940	78.73179	7.61	322	0	195.2	14	0.47	0	0	160	56	4.8	8.0	1.2	24	0.51

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279	Bijnor	Aku (Nehtaur)	Aku (Nehtaur) Block	29.32546	78.37433	7.92	423	0	256.2	14	0.30	0	6.2	200	52	17	14	4.0	30	0
280	Budaun	Miaon	Allahpur Kasba	27.90825	79.25171	7.82	684	0	256	64	0.36	0	30	270	64	26	25	15.3	32	0
281	Budaun	Bisouli	Block HQ(in premises of Block office)	28.31260	78.92970	7.80	854	0	366	50	0.16	0	35	330	76	34	32	8.4	30	0
282	Budaun	Wajirganj	Block HQ(in premises of Block office)	28.20450	79.05810	8.04	1136	0	476	64	0.43	0	43	180	32	24	151	6.9	25	0
283	Budaun	Ujhani	adjacent to SBI Bank,Ujhani	28.00273	79.01435	7.86	1104	0	329.4	92	0.34	46	77	360	68	46	83	7.3	28	0
284	Budaun	Quadar Chowk	Block HQ	27.87128	79.08103	7.99	392	0	189.1	14	0.40	0	8.6	180	40	19	6	2.9	27	0
285	Budaun	Usawan	Block HQ	27.81130	79.34828	8.02	472	0	195.2	28	0.35	12	11	180	52	12	22	3.8	27	0
286	Budaun	Asafpur	Block HQ	28.39401	78.91132	8.01	704	0	317.2	43	0.17	0	25	220	40	29	47	21.1	28	0
287	Budaun	Salarpur	Block HQ	28.07057	79.13302	7.92	854	0	329.4	64	0.15	0	43	340	68	41	34	7.0	30	0
288	Budaun	Dahgawan	Karia Bain	28.14506	78.67094	7.91	554	0	244	21	0.24	0	22	225	44	28	17	3.6	16	0
289	Budaun	Sahaswan	Sagrai	28.03705	78.86970	8.22	524	0	183	14	0.20	0	72	230	48	26	10	5.6	16	0
290	Budaun	Ujhani	Laxminagra	27.92245	78.85284	8.06	510	0	268.4	7.1	0.50	0	21	180	40	19	29	4.1	27	0
291	Budaun	Quadar Chowk	Khiriya baKarpur	27.93161	79.02585	8.14	630	0	231.8	36	0.36	30	30	290	64	31	8	3.3	30	0
292	Budaun	Quadar Chowk	Behta Dambanagar	27.91003	79.16080	8.23	649	0	286.7	14	0.71	46	10	270	72	22	23	2.6	28	0
293	Budaun	Usawan	Firozapur	27.81164	79.19477	8.39	842	6	256.2	57	0.40	0	116	200	44	22	97	2.6	28	0
294	Budaun	Bisauli	Biharipur Dharmpur	28.30405	79.00693	8.25	464	0	256.2	7.1	0.00	0	0	200	56	14	9	2.7	30	0
295	Budaun	Salarpur	Kunwargaon	28.17769	79.14207	7.78	500	0	280.6	7.1	0.26	0	0	210	40	26	15	4.4	31	0
296	Budaun	Jagat	Tiglapur	28.04053	79.29269	8.15	644	0	317.2	21	0.32	0	16	210	44	24	49	2.9	29	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
297	Budaun	Dataganj	Diyori	27.98439	79.41793	7.88	562	0	305	7.1	0.33	0	6.8	220	52	22	22	3.3	31	0
298	Bulandshahr	Agauta	Block H.Q.	28.52330	77.89850	8.23	583	0	354	14	0.82	14.1	23	250	60	24	43	4.6	26	0
299	Bulandshahr	Anup Shahar	Block H.Q.	28.36120	78.25230	8.06	484	0	268	14.2	0.52	0	0.0	180	40	19	22	4.2	35	0
300	Bulandshahr	Arnia Khurd	Block H.Q.	28.12880	77.92160	8.03	695	0	329	21	0.29	9.1	24	190	40	22	60	4.9	32	0
301	Bulandshahr	B.B. Nagar	Block H.Q.	28.64360	77.95150	8.17	598	0	342	14	0.58	0.0	8.1	210	36	29	38	6.1	32	0
302	Bulandshahr	Bulandshahr	District H.Q.	28.38860	77.83540	8.18	315	0	134	14	0.34	0.0	22.3	140	36	12	6	1.8	20	0
303	Bulandshahr	Danpur	Block H.Q.	28.19230	78.20600	8.16	667	0	342	14	0.21	10.6	25	160	36	17	81	5.2	34	0
304	Bulandshahr	Debai	Block H.Q.	28.19950	78.25670	8.29	783	0	378	21	0.73	0.0	42.1	180	36	22	91	4.9	27	0
305	Bulandshahr	Guloatho	Block H.Q.	28.58050	77.79060	8.08	642	0	293	28	0.93	0.0	39.7	240	48	29	45	3.7	27	0
306	Bulandshahr	Jahangirabad	Block H.Q.	28.41390	78.08850	8.20	970	0	464	35	0.26	30	27	250	40	36	100	7.0	33	0
307	Bulandshahr	Khurja	Block H.Q.	28.23580	77.84220	8.13	1006	0	439	43	0.39	10	46	210	32	31	130	5.9	31	0
308	Bulandshahr	Lakhaoti	Block H.Q.	28.52640	77.97740	8.12	849	0	366	21	0.77	22.6	60	300	44	46	59	6.6	27	0
309	Bulandshahr	Pahasu	Block H.Q.	28.17060	78.06170	8.08	590	0	281	14	0.13	5	30	200	44	22	42	5.2	33	0
310	Bulandshahr	Shikarpur	Block H.Q.	28.27910	78.00420	8.20	1710	0	598	220	0.7	32	121	440	36	84	220	7.8	35	0
311	Bulandshahr	Sikandrabad	Block H.Q.	28.45490	77.69180	8.16	1565	0	610	106	0.4	30	80	170	68	0	278	5.4	36	0
312	Bulandshahr	Siyana	Block H.Q.	28.62480	78.05410	7.92	1138	0	427	99	0.0	42	39.3	340	20	70	103	7.3	35	0
313	Bulandshahr	Unchagaon	Block H.Q.	28.48790	78.16000	8.24	502	0	268	7	0.13	0	25	230	44	29	8	4.4	23	0
314	Bulandshahr	Shikarpur	Kaisawan	28.30387	78.03463	8.20	358	0	171	14	1.0	0	22	150	40	12	16	5.3	19	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
315	Bulandshahr	Shikarpur	Palra	28.26505	77.94412	7.87	564	0	281	7	0.6	0	31	250	52	29	13	4.5	30	0
316	Bulandshahr	Shikarpur	Amarpur	28.25991	78.06117	7.81	781	0	354	21	0.38	0.0	86.0	290	68	29	60	5.5	22	0
317	Bulandshahr	Sikandrabad	Gesupur	28.52861	77.70123	8.18	1277	0	647	7	0.84	19	65	190	36	24	200	9.9	31	0
318	Bulandshahr	Khurja	Dastura	28.27530	77.70320	8.13	866	0	390	35	0.34	68	12	190	36	24	115	5.9	29	0
319	Bulandshahr	Shikarpur	Nawada	28.25947	78.06319	8.12	1109	0	439	78	1.8	8	64	180	28	27	177	5.7	32	0
320	Bulandshahr	Debai	Narora	28.18844	78.39585	8.22	350	0	134	14	0.25	0	30	130	36	10	15	3.5	17	0
321	Bulandshahr	Debai	Bhopatpur	28.29630	78.28340	7.91	647	0	366	7	0.55	15	24	300	48	44	26	4.4	33	0
322	Chandauli	Barahani	Sirkolpur	25.36460	83.41040	8.02	652	0	342	28	0.90	9.5	15	210	40	26	59	2.2	24	0
323	Chandauli	Naugarh	Sikarganj	25.00990	83.12710	8.11	581	0	342	7.1	0.85	6.5	0	160	48	9.6	64	0.0	27	0
324	Chandauli	Naugarh	Kauwada ghat	24.81680	83.25000	7.90	353	0	195	14	0.30	0	7.6	100	36	2.4	41	0.0	18	0
325	Chandauli	Naugarh	Lawari Khurd	24.89720	83.22490	7.91	344	0	134	28	0.35	5.8	26	130	36	9.6	21	6.1	15	0
326	Chandauli	Naugarh	Sikarganj	25.00820	83.21700	7.75	460	0	256	14	0.46	7.0	8.3	190	48	17	25	2.5	13	0
327	Chandauli	Naugarh	Magrahi	24.82680	83.29930	7.75	521	0	220	50	0.41	0	15	110	36	4.8	68	10	12	0
328	Chandauli	Naugarh	Munuwat	83.32640	24.89220	7.70	263	0	110	28	0.30	0	11	120	36	14	10	5.0	18	0
329	Chandauli	Shahabganj	Banbhishampur	24.99490	83.29880	7.88	484	0	256	14	0.60	0	12	190	24	17	26	1.0	20	0
330	Chandauli	Chahniya	Sirkalpur	25.48630	83.28000	8.00	588	0	354	14	0.30	0	10	270	48	34	20	3.5	29	0
331	Chandauli	Chahania	Chahania	25.41778	83.20944	7.92	896	0	414.8	50	0.22	16	24	350	56	50	41	3.8	32	0
332	Chandauli	Sakaldiha	Sakaldiha	25.35528	83.25833	8.14	1502	0	683.2	85	1.00	9.4	48	230	28	38	234	3.8	25	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	District	Block	Location	Latitude	Longitude	pH	EC µS/cm at 25° C	CO_3	HCO_3	Cl	F	NO_3	SO_4	TH	Ca	Mg	Na	K	SiO_2	PO_4
333	Chitrakoot	Mau	Bargarh Mod (Kalchiha)	25.18293	81.43980	7.47	860	0	232	128	0.48	8.3	49	330	104	17	44	3.3	12	0
334	Chitrakoot	Mau	Bambhuri	25.21924	81.37061	7.60	701	0	317	28	0.27	34	23	290	60	34	26	0.0	20	0
335	Chitrakoot	Ramnagar	Lokhari	25.19162	81.25333	7.94	666	0	342	21	0.47	14	6.1	180	52	12	70	0.0	22	0
336	Chitrakoot	Manikpur	Barachhi	25.17870	81.16403	8.04	854	0	464	14	0.86	22	0	290	68	29	63	0.0	30	0
337	Chitrakoot	Pahari	Boodha	25.27123	81.01820	7.82	784	0	439	14	0.64	0	0	310	44	48	37	0.0	33	0
338	Chitrakoot	Karvi	Ragauli	25.25065	80.97328	7.82	799	0	427	21	0.54	8.5	7.0	340	52	50	26	1.1	28	0
339	Chitrakoot	Karvi	Roli (pataundha mod)	25.21999	80.72762	8.20	853	0	439	36	1.3	7.0	8.0	290	56	36	61	0.0	34	0
340	Chitrakoot	Karvi	Kol Gadhiya	25.19604	80.95275	7.94	909	0	476	21	1.0	14	19	370	40	65	39	0.0	26	0
341	Chitrakoot	Manikpur	Saharipurwa	25.10557	80.06589	7.84	527	0	232	28	0.36	25	7.4	180	56	10	37	1.3	20	0
342	Chitrakoot	Manikpur	Kubri	25.00466	81.16523	7.94	1326	0	256	163	0.36	156	93	590	100	82	22	19.8	13	0
343	Chitrakoot	Manikpur	Hardiya	25.08542	81.22541	8.07	466	0	195	43	0.45	0	9.9	150	40	12	36	3.3	7	0
344	Chitrakoot	Manikpur	Karouha	24.99960	81.03784	7.54	211	0	85	21	0.13	0	0	70	20	5	14	3.3	20	0
345	Chitrakoot	Manikpur	Markundi	25.02010	80.95446	7.87	378	0	146	21	0.39	23	18	150	44	10	16	3.7	13	0
346	Chitrakoot	Manikpur	Tikariya Railway Station	25.00131	80.87560	7.57	1156	0	317	135	0.34	79	57	290	68	29	101	48.8	11	0
347	Chitrakoot	Karvi	Kauhari	25.36647	80.87042	8.09	819	0	464	14	0.69	5.5	6.9	300	44	46	50	0.0	27	0
348	Chitrakoot	Ramnagar	Rajapur	25.38219	81.14879	8.06	1386	0	622	99	0.50	15	22	480	80	67	93	2.0	27	0
349	Chitrakoot	Mau	Mau	25.26942	81.37162	8.00	945	0	500	28	0.9549	13	11	220	40	29	115	0.0	19	0
350	Chitrakoot	Manikpur	Manikpur	25.06847	81.09852	7.62	1091	0	329	128	0.4675	25	49	290	108	5	99	16	16	0

Analytical results of Pre Monsoon and Post Monsoon Data:

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
351	Chitrakoot	Karvi	Karvi	25.21476	80.91970	7.96	1595	0	476	227	0.5073	40	36	610	108	82	76	1.6	30	0
352	Chitrakoot	Pahari	Pahari	25.33351	80.96304	7.65	1699	0	293	227	0.8754	185	129	530	184	17	142	2.2	69	0
353	Deoria	Baitalpur	In the premises of Block Office	26.55580	83.73580	7.81	532	0	183	43	0.11	0.0	40	200	52	17	27	5.5	27	0
354	Deoria	Bankata	In the premises of Block Office	26.27152	84.11324	8.06	899	0	329	21	0.28	0.0	120	270	48	36	76	4.0	20	0
355	Deoria	Barhaj	In the premises of Block Office	26.27843	83.72640	7.90	720	0	317	43	0.45	0.0	24	280	48	38	32	4.3	23	0
356	Deoria	Bhagalpur	In the premises of Block Office	26.16810	83.86970	7.84	632	0	305	21	0.22	9.4	9.3	250	56	26	25	3.6	30	0
357	Deoria	Bhaluwani	In the premises of Gyan Prakash Inter College on the LHS of the gate, Opposite Block Office	26.37074	83.76155	7.82	889	0	317	85	0.25	0.0	25	310	60	38	52	5.6	26	0
358	Deoria	Bhatani	In the premises of Block Office	26.37953	83.92421	8.09	580	0	305	14	0.57	0.0	0.0	180	36	22	47	3.2	34	0
359	Deoria	Bhatparani	In the premises of Block Office	26.31350	84.02810	7.95	515	0	281	7.1	0.22	0.0	0.0	240	48	29	6.2	3.1	35	0
360	Deoria	Deoria Sadar	At the District Collectorate	26.49610	83.77830	7.72	1102	0	329	142	0.00	0.0	51	280	76	22	114	7.3	27	0
361	Deoria	Desahi Deoria	In the premises of Block Office	26.66830	83.81970	8.22	457	0	244	7.1	0.56	0.0	18	200	48	19	11	3.1	38	0
362	Deoria	Gauri Bazar	In the premises of Block Office	26.58310	83.67140	8.22	327	0	159	14	0.18	0.0	6.3	140	36	12	9.1	2.3	40	0
363	Deoria	Lar	In the premises of Block Office	26.21775	83.96374	8.01	397	0	207	14	0.40	0.0	0.0	180	48	14	6.2	2.6	34	0
364	Deoria	Pather Dewa	RHS of the gate in the premises of Block Office	26.58220	83.91065	7.87	384	0	207	7.1	0.00	0.0	7.3	160	52	7	13	2.7	31	0
365	Deoria	Rampur Karkhana	In the premises of Block Office	26.56280	83.81500	8.04	397	0	207	7.1	0.48	0.0	14	190	60	9.6	2.5	2.4	30	0
366	Deoria	Rudrapur	In the premises of Block Office	26.45640	83.61360	8.09	504	0	268	14	0.50	0.0	0.0	210	64	12.0	16	3.7	34	0

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
367	Deoria	Salempur	In the premises of Block Office	26.29966	83.92260	8.15	412	0	220	14	0.70	0.0	5.7	180	48	14	11	2.3	34	0
368	Deoria	Tarkulwa	In the premises of Block Office	26.62769	83.89101	7.74	637	0	220	71	0.19	0.0	30	200	48	19	52	4.1	33	0
369	Deoria	Bhaluani	Bahadurpur	26.37648	83.85136	7.92	500	0	268	14	0.40	0.0	0.0	220	48	24	11	4.5	32	0
370	Deoria	Bhaluwani	Lagra Bazar (on Rudrapur to Bhaluwani)	26.38300	83.71792	7.72	644	0	329	21	0.22	0.0	12	220	48	24	42	6.7	40	0
371	Deoria	Bhaluwani	Garer chak, near house of Shivnath Chaurasia	26.39895	83.78762	8.12	549	0	305	14	0.21	0.0	0.0	190	68	5	35	3.2	33	0
372	Deoria	Bhaluwani	In front of Nayra Petrol pump, Karuana Chauraha (on Bhaluwani to Barhalganj road)	26.32914	83.74926	8.25	391	0	220	7.1	0.32	0.0	0.0	160	48	10	14	2.7	31	0
373	Deoria	Bhaluwani	Bahaur Chauraha (Near R B Hardware, Opposite fertilizer shop)	26.37026	83.79763	7.78	572	0	268	28	0.12	0.0	16	220	52	22	25	7.8	30	0
374	Etah	Jalesar	Block Office	27.47980	78.30629	8.06	870	0	458	49.7	0.43	0.0	27.7	245	52	27.6	90.5	5.8	27	0
375	Etah	Sheetalpur	Block Office	27.56962	78.67305	7.79	1509	0	470	149.1	0	116	84.7	290	64	31.2	240.35	5.69	22	0
376	Etah	Jalesar	Kosania	27.43685	78.29788	8.05	789	0	439	21.3	0.639	12.4	5.66	255	56	27.6	77.22	3.93	30	0
377	Etah	Nidhauli Kalan	Bariganwan, Fauzi Market Tiraha	27.64447	78.58552	7.94	781	0	451	21.3	0.285	14.2	0.0	260	36	40.8	76.93	3.33	42	0
378	Etah	Shitalpur	Near to RTO office	27.54052	78.70694	7.95	684	0	354	28.4	0.757	0.0	23.4	220	40	28.8	69.51	4.5	46	0
379	Etah	Sakit		27.53662	78.87196	8.06	846	0	390	49.7	1.01	15.6	42.0	270	36	43.2	89.67	3.35	30	0

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
380	Etah	Sakit	Kamlapur Mai	27.39786	78.82192	8.26	1013	0	500	42.6	1.16	0.0	44.1	270	40	40.8	127.05	3.6	28	0
381	Etah	Jaithara	Nagla Bali	27.53544	79.02711	8.04	698	0	256	85.2	0.44	0.0	33.7	290	64	31.2	40.05	4.1	29	0
382	Etah	Aliganj	Daheliyapur Chauraha	27.44885	79.16376	8.33	875	0	415	49.7	1.21	0.0	32.8	325	44	51.6	67.06	4.21	28	0
383	Etawah	Barhpura	Barhpura Block Office	26.71910	78.95715	7.79	726	0	415	28	0.46	21	0	330	48	51	26	2.9	37	0
384	Etawah	Chakarnagar	Chakarnagar Block Office	26.56193	79.14044	7.74	762	0	464	7	0.63	23	5.7	210	36	29	89	2.6	31	0
385	Etawah	Barhpura	KaneshiGhar	26.62983	79.05615	7.36	3397	0	549	411	0.16	500	356	1061	160	161	340	8.5	30	0
386	Etawah	Barhpura	Etawah City (Anand Nagar)	26.77019	79.03464	7.74	1012	0	488	50	0.31	49	28	340	64	44	93	3.7	33	0
387	Etawah	Jaswant Nagar	Jaswant Nagar Block Office	26.87620	78.91212	7.73	1013	0	451	57	0.4	22	39	310	52	44	99	4.2	27	0
388	Etawah	Saifai	Saifai Block Office	26.95650	78.96037	7.78	789	0	439	14	0.26	0	41	280	64	29	67	5.2	22	0
389	Etawah	Takha	Takha Block Office	26.91139	79.29625	7.96	939	0	549	14	0.98	0	25	300	36	51	97	6	21	0
390	Etawah	Basrehar	Takpura	26.89739	79.18739	8.03	464	0	268	7	0.43	0	19	220	36	32	15	2.4	18	0
391	Etawah	Basrehar	Basrehar Block Office	26.84190	79.08587	7.96	798	0	390	35	0.58	26	30	280	44	41	71	5.2	30	0
392	Etawah	Mahewa	Mahewa Block Office	26.62052	79.23391	7.90	672	0	366	14	0.5	10	39	300	44	46	28	2.9	23	0
393	Etawah	Bharthana	Bharthana Block Office	26.70913	79.31824	7.82	1504	0	586	149	0.74	56	28	495	44	94	136	5.1	30	0
394	Etawah	Bharthana	Dhakpura	26.77705	79.31101	7.56	1287	0	500	121	0.51	5.4	47	330	60	44	137	11	24	0
395	Farrukhabad	Kamalganj	Block Office	27.26053	79.63224	7.80	980	0	372	124.25	0.365	0.0	23.07	380	96	33.6	40.79	5.96	30	0
396	Farrukhabad	Mohammdabad	Block Office	27.30800	79.43679	8.43	1286	0	634	42.6	1.8	0.0	100	120	12	21.6	250	1.36	22	0
397	Farrukhabad	Rajepur	Block office	27.48043	79.66195	8.20	645	0	366	21.3	0.661	0.0	8.0	210	44	24	64.1	5.01	26	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																			
S. No.	District	Block	Location	Latitude	Longitude	pH	EC µS/cm at 25° C	CO_3	HCO_3	Cl	F	NO_3	SO_4	TH	Ca	Mg	Na	K	SiO_2	PO_4
398	Farrukhabad	Shamsabad	Block Office	27.53622	79.44050	8.21	1340	0	610	78.1	0.845	11.6	69.15	170	8	36	99.8	233.8	20	0
399	Farrukhabad	Kaimganj	Kampil Road Siwara	27.66268	79.17746	8.12	485	0	256	28.4	0.36	0.0	9.69	180	36	21.6	35.78	4.7	33	0
400	Farrukhabad	Kaimganj	Eklahra	27.65384	79.29979	7.99	747	0	342	49.7	0.364	24.4	36.2	310	64	36	39.99	5.41	49	0
401	Farrukhabad	Kaimganj	Rutaul	27.53608	79.30849	8.04	593	0	366	14.2	0.34	0.0	0.0	210	44	24	46.23	4.49	25	0
402	Farrukhabad	Nawabganj	Ganeshpur	27.42054	79.30390	7.91	883	0	360	78.1	0.444	0.0	45.9	355	92	30	53.21	5.51	36	0
403	Farrukhabad	Rajepur	Amritpur	27.54134	79.60057	8.26	1833	0	500	284	0.67	0.0	117	470	136	31.2	219.2	5.0	22	0
404	Fatehpur	Amauli	Dhana	25.91145	80.32082	7.64	920	0	519	21	0.3382	0	0	260	44	36	89	3.1	29	0
405	Fatehpur	Khajua	Bindki	26.02976	80.58057	7.56	1499	0	573	78	0.4277	145	54	460	72	67	132	3.1	32	0
406	Fatehpur	Malwan	Chaudgara	26.12301	80.58497	7.42	1975	0	476	376	0.50	56	17	790	112	122	86	4.4	36	0
407	Fatehpur	Bhitaura	Lohari	26.01022	81.02630	7.82	686	0	305	36	0.4377	20	26	230	60	19	49	4.0	33	0
408	Fatehpur	Haswa	Chakiwa	25.89289	81.02306	7.82	1196	0	622	21	0.567	6.0	47	360	28	70	103	5.3	30	0
409	Fatehpur	Haswa	Dharampur Santo	25.78505	80.98751	7.72	841	0	439	28	0.8356	8.7	9.2	320	44	50	43	4.8	31	0
410	Fatehpur	Asother	Darauli	25.78221	80.74972	7.82	991	0	512	21	0.9748	27	19	320	40	53	77	4.5	23	0
411	Fatehpur	Asother	Shankarpur	25.76703	80.62758	7.94	780	0	439	7.1	0.5869	7.6	9.6	290	48	41	43	3.2	27	0
412	Fatehpur	Vijayeepur	Rakshpalpur	25.62563	81.13322	7.74	1212	0	415	99	0.4675	75	61	400	56	62	89	4.7	28	0
413	Fatehpur	Amauli	Amauli	26.01423	80.31044	7.42	1158	0	378	114	0.20	16	77	490	40	94	34	2.2	36	0
414	Fatehpur	Khajua	Khajua	26.05658	80.51694	7.85	754	0	354	36	0.945	8.3	21	310	52	43	26	4.3	26	0
415	Fatehpur	Malwan	Malwan	26.03640	80.70700	8.10	1154	0	586	28	1.9	0	48	310	32	55	117	8.1	19	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
416	Fatehpur	Teliyani	Fatehpur	25.92389	80.81466	8.12	1180	0	622	14	1.1	0	49	230	36	34	160	6.2	24	0
417	Fatehpur	Hathgaon	Hathgaon	25.99670	81.01893	7.57	943	0	427	50	0.8356	22	23	380	64	53	21	33	32	0
418	Fatehpur	Asother	Asother	25.75891	80.88616	7.97	829	0	451	21	0.7659	0	15	280	44	41	60	4.2	33	0
419	Fatehpur	Bahua	Bahua	25.84361	80.62988	7.48	1054	0	403	85	0.5173	36	42	400	88	43	55	3.4	33	0
420	Fatehpur	Airayan	Khaga	25.76976	81.10282	7.99	2017	0	695	249	0.70	18	69	590	112	74	185	9.2	31	0
421	Fatehpur	Vijayeepur	Vijayeepur	25.69159	81.05895	7.98	756	0	366	21	0.9549	10	20	310	56	41	24	3.5	30	0
422	Fatehpur	Dhata	Dhata	25.53946	81.22876	7.61	1209	0	488	71	0.5173	23	75	390	72	50	94	3.5	36	0
423	Firozabad	Aron	Block Office	27.15023	78.70482	8.19	1004	0	458	49.7	1.44	46.2	50.0	280	56	33.6	118.33	4.42	23	0
424	Firozabad	Eka	Block office	27.37907	78.60743	8.23	1492	0	683	35.5	1.61	17.5	183	90	20	9.6	320.95	0	21	0
425	Firozabad	Firozabad	Block office	27.16539	78.37906	8.10	1983	0	354	205.9	0.4	146	290	540	92	74.4	234.2	3.5	25	0
426	Firozabad	Hathwant	Block Office	27.22911	78.50407	7.85	6175	0	476	1441.3	0.69	21.4	727	1370	200	208.8	926	7.3	26	0
427	Firozabad	Narkhi	Block Office	27.29036	78.40702	8.41	2302	36	610	255.6	1.81	31.8	222	120	20	16.8	519.2	1.7	15	0
428	Firozabad	Tundla	Block Office	27.22545	78.24661	8.11	612	0	311	21.3	0.5	25.1	16	255	60	25.2	35.35	3.84	30	0
429	Firozabad	Firozabad	Gudau	27.14890	78.34992	8.06	1082	0	586	35.5	1.08	32.8	13.0	315	72	32.4	128.3	3.99	32	0
430	Firozabad	Firozabad	Shikera	27.03134	78.46958	8.06	865	0	500	28.4	0.50	0.0	0.0	320	52	45.6	69.62	1.63	24	0
431	Firozabad	Madanpur	Tondsi	27.02185	78.73947	8.40	793	0	451	28.4	0.913	0.0	0.0	285	44	42	69.74	2.7	44	0
432	Firozabad	Madanpur	Block Office	27.02710	78.64420	8.35	878	0	403	49.7	1.1	17.6	40.7	265	48	34.8	97.66	5.25	30	0
433	G.B. Nagar	Bisrakh	Block H.Q.	28.58840	77.37710	8.14	759	0	354	57	0.5	29	20	280	60	31	49	7.7	31	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	District	Block	Location	Latitude	Longitude	pH	EC µS/cm at 25° C	CO_3	HCO_3	Cl	F	NO_3	SO_4	TH	Ca	Mg	Na	K	SiO_2	PO_4
434	G.B. Nagar	Dadri	Block H.Q	28.55450	77.55350	8.22	828	0	390	43	0.43	10	19	250	36	38	80	6.6	34	0
435	G.B. Nagar	Jewar	Block H.Q	28.12500	77.56720	8.16	1619	0	573	99	1.7	17	133	170	36	19	290	3.4	33	0
436	G.B. Nagar	Dankaur	Dist. H.Q	28.35330	77.55590	8.11	2174	0	830	113	1.42	14	190	230	16	46	369	6.3	31	0
437	G.B. Nagar	Dankaur	Bagpur	28.39768	77.58972	8.04	1258	0	207	92	0.40	66	309.8	420	80	53	99	3.5	28	0
438	G.B. Nagar	Jewar	Rampur Banger	28.16380	77.56775	8.38	774	18	329	21	2.6	7	38	180	36	22	94	2.4	33	0
439	G.B. Nagar	Dankaur	Fatehpur Atta	28.31500	77.51062	8.15	684	0	329	21	1.2	8	39	270	52	34	48	3.7	26	0
440	G.B. Nagar	Dankaur	Parsaul	28.31500	77.51062	8.02	391	0	183	14	0.9	0	28	180	40	19	10	3.3	20	0
441	G.B. Nagar	Jewar	Bhagwantpur Chhatanga	28.10812	77.53917	7.97	4416	0	390	362	0.46	0	1350	610	116	78	760	20.0	25	0
442	G.B. Nagar	Jewar	Choroli	28.13596	77.60769	7.94	1090	0	146	113	0.48	160	92	310	108	10	98	5.4	28	0
443	G.B. Nagar	Jewar	Gopalgarh	28.09019	77.55837	8.45	1191	24	451	50	1.02	10.0	86	230	32	36	176	6.3	29	0
444	G.B. Nagar	Dadri	Dadri	28.55444	77.55354	8.01	1401	0	464	99	0.8	72	90	260	40	39	195	8.1	31	0
445	G.B. Nagar	Jewar	Ronija	28.27617	77.56255	8.28	779	0	390	14	0.79	0	31	220	40	29	76	4.7	28	0
446	G.B. Nagar	Jewar	Neemka	28.13826	77.60679	8.10	781	0	342	43	0.57	17	68	350	64	46	40	9.4	26	0
447	G.B. Nagar	Jewar	Neem Ka Khara Kua	28.13778	77.60723	8.46	986	18	378	35	1.04	23	80	250	48	32	111	11.93	27	0
448	Ghaziabad	BHOJPUR	In block office	28.79954	77.62035	7.88	940	0	549	14	1.2	0	39	170	32	22	158	6.1	26	0
449	Ghaziabad	LONI	In block office	28.74674	77.28976	7.99	2125	0	439	383	0.94	28	136	260	64	24	385	23	27	0
450	Ghaziabad	MURADNAGAR	In block office	28.77284	77.51128	7.87	962	0	415	78	0.81	0	47	300	71	30	86	9.2	24	0
451	Ghaziabad	RAZAPUR	In block office	28.71016	77.45626	7.90	1182	0	573	64	0.95	17	48	200	36	27	204	6.6	29	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
452	Ghaziabad	Razapur	IN THE COMPOUND OF SHIV TEMPLE	28.65636	77.53757	8.02	515	0	232	14	0.00	16	37	180	32	24	40	3.6	23	0
453	Ghaziabad	Gaziabad Urban	JAL KAL VIBHAG	28.68472	77.34354	7.39	2976	0	329	709	0.00	79	206	620	202	28	398	6.9	30	0
454	Ghaziabad	Gaziabad Urban	KALI TEMPLE BOUNDARY WALL	28.68886	77.36180	7.81	1617	0	439	248	0.5	68	49	180	36	22	305	4.7	26	0
455	Ghaziabad	Gaziabad Urban	ROHTASH SINGH	28.68705	77.38593	8.05	1665	0	415	326	1.2	5.1	35	125	24	16	346	5.7	20	0
456	Ghaziabad	Gaziabad Urban	MOTHER CARE PUBLIC SCHOOL	28.69273	77.42260	7.58	1372	0	549	128	0.17	32	34	285	74	24	185	6.1	26	0
457	Ghaziabad	Gaziabad Urban	NEAR SAI TEMPLE, SABURI PARK	28.67196	77.40833	7.96	849	0	464	28	0.00	16	16	340	36	61	42	5.6	25	0
458	Ghaziabad	Gaziabad Urban		28.65206	77.41092	7.68	3032	0	476	766	0.38	27	65	505	72	79.0	520	7.7	22	0
459	Ghaziabad	Gaziabad Urban		28.62919	77.41376	7.81	2490	0	305	702	0.18	19	34	425	72	60	425	7.5	23	0
460	Ghaziabad	Gaziabad Urban	NEAR MEADOWS CAFÉ	28.72140	77.44736	8.06	1605	0	647	106	0.45	68	68	230	46	28	260	35	26	0
461	Ghaziabad	Gaziabad Urban		28.69530	77.42760	7.71	965	0	488	28	0.17	20	33	180	32	24	148	4.9	30	0
462	Ghaziabad	Gaziabad Urban		28.67577	77.43316	7.74	1617	0	512	206	0.23	49	63	265	46	36	265	6.2	29	0
463	Ghaziabad	Gaziabad Urban	JAL NIGAM PANI TANKI INSIDE	28.63608	77.43899	7.96	1291	0	329	241	0.82	8.1	24	140	32	15	240	4.7	14	0
464	Ghaziabad	Gaziabad Urban		28.73336	77.44417	7.88	1117	0	586	43	1.5	11	34	280	52	36	145	5	17	0
465	Ghaziabad	Gaziabad Urban		28.70443	77.45367	8.10	795	0	378	50	1.1	11	32	220	64	15	90	5.9	16	0
466	Ghaziabad	Gaziabad Urban		28.67595	77.46766	7.62	805	0	403	35	0.59	13	37	240	56	24	90	5.8	20	0
467	Ghaziabad	Gaziabad Urban		28.66394	77.46093	7.99	1315	0	549	57	0.78	108	49	390	80	46	135	6.3	19	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	District	Block	Location	Latitude	Longitude	pH	EC µS/cm at 25° C	CO_3	HCO_3	Cl	F	NO_3	SO_4	TH	Ca	Mg	Na	K	SiO_2	PO_4
468	Ghaziabad	Gaziabad Urban		28.63684	77.45571	7.57	2720	0	305	312	0.45	73	575	951	297	51	210	10.7	22	0
469	Ghaziabad	Gaziabad Urban	DADA SHREE RAMJI GATE	28.74541	77.46133	8.17	1118	0	598	14	0.38	22	88	240	72	15	155	21	21	0
470	Ghaziabad	Gaziabad Urban		28.7144	77.4771	7.84	848	0	402.666	50	0.48	16	47	315	68	35	66	6.6	21	0
471	Ghaziabad	Gaziabad Urban	MADHUVAN VILLAGE	28.7026	77.48043	7.62	1062	0	427.07	77.99	0.72	40	55	310	68	34	105	5.9	22	0
472	Ghaziabad	Gaziabad Urban		28.681	77.49727	7.64	1295	0	488.08	120.53	0.41	61	49	380	60	56	120	9.0	23	0
473	Ghaziabad	Gaziabad Urban		28.6557	77.48579	7.81	906	0	463.676	21	0.54	47	27	280	52	36	80	6.2	18	0
474	Ghaziabad	Gaziabad Urban		28.6326	77.46667	8.09	777	0	353.858	35	0.51	20	41	240	48	29	76	6.8	16	0
475	Ghaziabad	Gaziabad Urban		28.6557	77.49701	7.73	560	0	305.05	7.1	0.64	15	35	220	52	22	32	7.0	17	0
476	Ghaziabad	Muradnagar	SUMITRA SADAN HOUSE, GOBIND KUMAR	28.7498	77.49079	7.65	748	0	402.666	21	0.32	9.5	28	170	32	22	109	4.7	32	0
477	Ghaziabad	Muradnagar	ON ROAD SIDE	28.7766	77.51264	7.85	554	0	268.444	21	1.20	6.0	37	150	24	22	70	4.3	28	0
478	Ghaziabad	Muradnagar	PRACHIN SHIV MANDIR GAONKHEDA	28.7738	77.52623	7.76	1042	0	536.888	21	1.00	25	44	150	20	24	158	50	26	0
479	Ghaziabad	Muradnagar	ABUPUR GATE	28.7898	77.52956	8.01	897	0	451.474	21	1.10	14	43	120	18	18	162	4.3	30	0
480	Ghaziabad	Razapur	NEAR HONDA SHOW ROOM	28.7039	77.45023	7.54	1083	0	475.878	78	0.58	9.3	44	220	36	32	160	4.3	31	0
481	Ghaziabad	Dhaulana	Dhaulana	28.6205	77.65175	7.99	438	0	244.04	7.1	1.0	0	27	190	28	29	19	3.2	21	0
482	Ghaziabad	Hapur	SAPNAWAT prachin nageshwar mandir	28.6273	77.72847	7.79	895	0	475.878	21	1.2	14	43	230	22	43	120	4.9	32	0
483	Ghaziabad	Dhaulana	NARAINA	28.6065	77.73886	7.96	266	0	134.222	3.5	0.45	0	21	120	24	15	5.7	3.7	18	0

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
484	Ghazipur	Saidpur	Pokhra mod bazar	25.61549	83.14128	7.71	697	0	341.6	28	0.68	17	10	310	48	46	16	2.9	26	0
485	Ghazipur	Sadat	Kaneri	25.62240	83.26525	7.80	898	0	439.2	50	0.76	8.0	0	360	52	55	37	2.0	27	0
486	Ghazipur	Zamania	Jeevpur	25.48345	83.56817	7.66	657	0	268.4	43	0.11	0	29	230	60	19	42	3.5	17	0
487	Ghazipur	Ghazipur	Biraich	25.61171	83.55851	7.91	1290	0	658.8	57	1.4	0	14	210	28	34	196	2.9	21	0
488	Ghazipur	Bhadaura	Bhagauta Singha	25.47363	83.83139	7.82	711	0	366	21	0.11	0	12	210	52	19	63	2.3	34	0
489	Ghazipur	Deokali	Block Office	25.55139	83.33802	7.86	1586	0	732	121	3.2	0	20	390	40	70	184	2.2	22	0
490	Ghazipur	Jamania	Block Office	25.41490	83.55890	7.49	1630	0	549	191	0.57	70	30	650	156	62	74	1.5	32	0
491	Ghazipur	Jakhaniya	Block Office	25.74263	83.37248	7.81	1026	0	390.4	78	0.47	56	26	400	56	62	48	4.1	28	0
492	Ghazipur	Mardah	Block Office	25.80020	83.56374	7.72	896	0	439.2	28	0.67	7.9	31	290	44	43	69	3.0	28	0
493	Ghazipur	Saidpur	Block Office	25.54231	83.22726	7.83	1684	0	390.4	326	0.92	0	45	480	48	86	164	2.9	22	0
494	Ghazipur	Ghazipur	Block Office	25.56770	83.56025	7.52	3119	0	463.6	610	0.20	13	273	570	64	98	441	17	28	0
495	Gonda	Colonelganj	Block Campus	27.13389	81.69556	7.55	1155	0	549	64	1.1	10	50	410	68	58	94	3.4	20	0
496	Gonda	Haldharmau HQ	Block Campus	27.13917	81.76111	7.54	603	0	366	7.1	0.35	0	14	290	68	29	18	4.6	18	0
497	Gonda	Katra Bazar HQ	Block Campus	27.20556	81.79361	7.31	1188	0	561	85	0.27	23	14	365	68	47	93	45	20	0
498	Gonda	Padri Kripal HQ	Block Campus	27.16278	81.96833	7.59	540	0	317	14	0.61	0	5.0	250	64	22	16	3.1	28	0
499	Gonda	Paraspur HQ	Block Campus	27.03472	81.78639	7.29	660	0	390	14	0.26	0	5.0	280	74	23	32	4.2	24	0
500	Gonda	Tarabganj HQ	Block Campus	26.95556	81.99000	7.52	821	0	427	50	0.20	0	23	350	108	19	41	7.0	21	0
501	Gonda	Jhanjhari	Block Office	27.11889	81.96722	7.44	821	0	342	71	0.34	0	55	310	88	22	62	5.0	27	0

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Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
502	Gonda	Belsar	In the campus of Umar Ganj Polica station	26.92229	81.86621	7.79	775	0	427	35	0	0	25	320	64	38	45	4.3	24	0
503	Gonda	Wazirganj	Suklainpurwa	27.04484	81.99686	8.16	597	0	378	7.1	0.23	0	5.9	200	52	17	53	3.8	29	0
504	Gonda	Itia Thok	Lalpur	27.29366	82.17855	7.96	1122	0	573	50	1.4	28	38	460	72	67	73	2.4	28	0
505	Gonda	Bhabhanjot	Block Campus	27.07750	82.45722	7.91	491	0	281	28	0.24	0	0	220	40	29	22	3.2	16	0
506	Gorakhpur	Bansgaon	In the Block Office Premises	26.55294	83.35293	7.95	695	0	305	43	0.23	0.0	19	280	48	38	30	2.8	28	0
507	Gorakhpur	Barahalganj	In the Block Office Premises	26.28360	83.50230	7.90	674	0	342	14	0.35	0.0	15	280	44	41	23	3.5	29	0
508	Gorakhpur	Belghat	In the Block Office Premises	26.43310	83.16450	7.97	532	0	268	14	0.20	16	0.0	240	40	34	11	2.2	35	0
509	Gorakhpur	Bharohiya	In the Shri Peeteshwar Mahadev Temple adjacent to the Block Office	26.91777	83.28199	8.14	328	0	171	21	0.47	0.0	0.0	140	44	7	11	1.4	36	0
510	Gorakhpur	Bhatahat	In the Block Office Premises; Adjacent to Office of BDO	26.89890	83.49240	7.97	357	0	171	21	0.29	0.0	5.7	160	36	17	8.9	2.8	30	0
511	Gorakhpur	Brahmpur	In the Block Office Premises	26.58440	83.56200	8.21	407	0	207	14	0.27	0.0	6.2	180	48	14.4	8.8	2.4	37	0
512	Gorakhpur	Campierganj	In the Block Office Premises	27.02354	83.26740	7.98	756	0	372	36	0.52	0.0	0.0	320	40	53	24	3.7	33	0
513	Gorakhpur	Chargawan	In the Block Office Premises; Next to water filter	27.20150	83.26780	7.94	620	0	268	36	0.29	0.0	25	250	48	31.2	25	3.6	37	0
514	Gorakhpur	Gagaha	In the Block Office Premises	26.44930	83.43760	8.17	510	0	281	14	0.41	0.0	0.0	220	48	24	13	2.7	32	0
515	Gorakhpur	Gola	In the Block Office Premises	26.35568	83.35298	8.09	455	0	232	7.1	0.53	0.0	13	210	48	21.6	7.2	1.5	31	0
516	Gorakhpur	Jangal Kuriya	In the Block Office Premises	26.86680	83.31040	8.12	404	0	220	7.1	0.24	0.0	0.0	170	44	14	14.0	1.4	34	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
517	Gorakhpur	Kauriram	In the Block Office Premises	26.51610	83.41520	7.76	514	0	293	7.1	0.39	0.0	0.0	240	64	19	5.1	3.2	19	0
518	Gorakhpur	Khajani	In the Block Office Premises; LHS of the Gate	26.66460	83.24900	7.66	988	0	439	64	0.31	0.0	29	280	56	34	95	4.1	35	0
519	Gorakhpur	Khorabar	In the Block Office Premises behind BDO office; Near Office Printing Press	26.71715	83.44060	7.74	392	0	146	36	0.24	0.0	17	160	56	5	15	0.0	40	0
520	Gorakhpur	Pali	In the Block Office Premises; RHS of the gate	26.82122	83.19906	8.15	644	0	354	21	0.53	0.0	0.0	250	60	24	32	2.6	29	0
521	Gorakhpur	Pipraich	In the Block Office Premises	26.82030	83.52070	7.80	410	0	232	7.1	0.50	0.0	0.0	180	48	14	8.7	3.6	32	0
522	Gorakhpur	Piprauli	In the Block Office Premises	26.73088	83.24818	7.81	1015	0	366	99	1.5	10	32	390	56	60	50	1.5	30	0
523	Gorakhpur	Sahjanwa	Block Office; In front of BDO residence	26.75130	83.18560	7.96	439	0	232	14	0.21	0.0	0.0	200	48	19	8.1	1.9	28	0
524	Gorakhpur	Sardar Nagar	In the Block Office Premises	26.68710	83.54700	8.04	356	0	159	14	0.62	0.0	21	140	40	10	15	2.5	29	0
525	Gorakhpur	Uruwa	In the Block Office Premises	26.46498	83.25694	7.90	639	0	372	11	0.43	0.0	0.0	280	52	36	29	3.3	31	0
526	Gorakhpur	Gorakhpur District HQ	Adjacent to e-district, e-gov staff parking and e-district Jan Suvidha Kendra in the Collectorate premises	26.74803	83.36970	7.79	751	0	305	50	0.36	0.0	43	220	64	14	66	8.8	38	0
527	Gorakhpur	Sahjanwa	Samuda	26.63986	83.15614	7.95	618	0	329	14	0.56	0.0	0.0	280	36	45.6	10	3.4	26	0
528	Gorakhpur	Jangal kaudia	Uttarsoth	26.76702	83.29504	7.54	434	0	244	7.1	0.16	0.0	5.6	210	52	19.2	2.5	1.2	34	0
529	Gorakhpur	Campierganj	Rajpur Pasitola	27.02530	83.30133	8.02	499	0	281	7.1	0.93	0.0	0.0	200	36	26	22	2.0	30	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	District	Block	Location	Latitude	Longitude	pH	EC µS/cm at 25° C	CO_3	HCO_3	Cl	F	NO_3	SO_4	TH	Ca	Mg	Na	K	SiO_2	PO_4
530	Gorakhpur	Khorabar	Sonviya Aghar Bazar	26.63409	83.43620	7.79	496	0	281	7.1	0.32	0.0	0.0	180	40	19	28	3.3	33	0
531	Gorakhpur	Barahalganj	Bairiyadih/Babu Bariya	26.36790	83.55932	7.74	764	0	427	14	0.11	0.0	0.0	350	92	28.8	14	1.9	26	0
532	Gorakhpur	Gagaha	Village-Dumsa Babupura, near playground	26.44925	83.42850	8.17	555	0	293	14	0.29	0.0	0.0	260	56	29	6.2	3.2	30	0
533	Gorakhpur	Gagaha	Village-Rajpur; In front of H/o Dheeraj Yadav S/o Gurbin Yadav	26.44768	83.45155	7.94	467	0	244	14	0.00	0.0	0.0	180	48	14	19	2.0	31	0
534	Gorakhpur	Gagaha	At Primary School Gagha I, Hatwa; Near Anganwadi Kendra	26.43327	83.44542	8.15	428	0	220	14	0.31	0.0	5.9	180	44	17	12	2.5	30	0
535	Gorakhpur	Kauriram	At PWD Inspection Bunglow	26.53570	83.40990	7.86	1230	0	390	142	0.39	23	55	460	60	74	69	3.8	42	0
536	Gorakhpur	Kauriram	Village-Mahopar; At the back of H/o Amarnath Maurya S/o Shivnarayan Maurya	26.51001	83.43082	7.94	644	0	354	14	0.44	0.0	0.0	250	40	36	31	2.5	29	0
537	Gorakhpur	Kauriram	Village-Rewradih; Near H/o Sitaram Yadav S/o Dukhran Yadav	26.51180	83.40997	7.54	1371	0	281	192	0.23	63	96	500	92	65	76	7.8	37	0
538	Gorakhpur	Kauriram	Adjacent to Primary School Chawariya(II); Near house of Shri Ram Nawal Yadav	26.50205	83.41873	7.72	794	0	366	50	0.60	0.0	15	280	60	31	52	5.2	36	0
539	Hamirpur	Rath	Pathnouri	25.51977	79.62482	7.92	1180	0	549	43	1.1	28	12	250	44	34	149	1.4	31	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
540	Hamirpur	Rath	Khiriya	25.64623	79.49624	7.99	735	0	403	14	0.78	9.5	0	270	52	34	42	1.0	29	0
541	Hamirpur	Gohand	Rihunta	25.75546	79.48028	7.96	750	0	415	14	0.49	7.4	0	280	64	29	41	1.5	29	0
542	Hamirpur	Gohand	Jariya	25.76079	79.60269	8.05	825	0	464	14	0.63	8.9	6.8	260	56	29	70	0.0	30	0
543	Hamirpur	Gohand	Jhabra	25.87078	79.64785	7.86	1157	0	598	36	0.78	13	11	220	52	22	157	1.0	31	0
544	Hamirpur	Sarila	Harsundi	25.86941	79.74146	7.99	599	0	305	14	0.23	19	11	180	52	12	54	1.3	30	0
545	Hamirpur	Sumerpur	Deogaon	25.87945	80.19317	8.07	784	0	439	7.1	0.62	7.0	6.0	250	40	36	60	2.4	20	0
546	Hamirpur	Maudaha	Urdana	25.62276	80.17578	7.98	2304	0	683	220	1.1	101	156	240	32	38	405	1.4	28	0
547	Hamirpur	Maudaha	Lohari	25.74657	80.05780	7.91	636	0	329	14	0.82	12	12	210	48	22	49	0.0	20	0
548	Hamirpur	Maudaha	Gadriya Khera (chakdaha)	25.66286	80.03833	7.91	1184	0	531	71	0.79	0	48	260	32	43	151	1.0	25	0
549	Hamirpur	Muskara	Imaliya	25.65919	79.91122	8.02	1569	0	683	71	1.4	79	37	230	32	36	247	1.1	24	0
550	Hamirpur	Muskara	Bewar	25.76100	79.92716	7.96	1494	0	659	57	0.8356	86	46	370	48	60	169.7	3.2	30	0
551	Hamirpur	Sumerpur	Lalpura	25.86184	80.04491	8.17	1688	0	927	36	0.90	7.5	8.8	230	28	38	275.45	0.0	27	0
552	Hamirpur	Muskara	Muskara	25.66112	79.79365	8.09	1983	0	781	185	0.6665	44	51	660	88	106	149	2.0	29	0
553	Hamirpur	Rath	Rath	25.59875	79.57689	7.65	3012	0	451	341	0.2686	318	378	460	52	79	475	4.4	22	0
554	Hamirpur	Gohand	Gohand	25.69545	79.54656	7.89	981	0	537	21	0.3581	0	10	310	56	41	82	1.2	32	0
555	Hamirpur	Sarila	Sarila	25.77278	79.67475	8.04	1941	0	647	192	0.5173	73	96	480	60	79	184	64	37	0
556	Hamirpur	Maudaha	Maudaha	25.68756	80.09615	7.92	2071	0	720	135	0.6466	15	229	330	44	53	323	1.2	28	0
557	Hamirpur	Kurara	Kurara	25.97894	79.98483	8.01	957	0	464	43	0.4377	14	15	230	44	29	108	1.6	27	0

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
558	Hapur	DHOLANA	In block office	28.63306	77.64389	7.88	898	0	500	21	1.3	5	40	230	43	30	120	6.0	28	0
559	Hapur	GARH	In block office	28.78806	78.08833	7.89	1133	0	488	57	0.72	100	47	450	96	51	78	5.5	31	0
560	Hapur	HAPUR	In block office	28.73661	77.75685	7.74	755	0	439	21	1	7.8	15	185	36	23	102	6.2	31	0
561	Hapur	SIMBHOLI	In block office	28.76730	78.00006	7.67	622	0	256	35	0.84	8.9	52	280	61	31	22	5.87	22	0
562	Hapur	Hapur	ON ROSD SIDE	28.78488	77.82690	7.53	1425	0	500	113	0.00	125	50	260	46	35	223	6.2	29	0
563	Hapur	Hapur	SHIV MANDIR KAKAR	28.67114	77.82794	7.94	680	0	317	14	0.3	53	32	205	46	22	71	4.8	28	0
564	Hapur	Garh		28.71402	78.11892	7.85	505	0	207	21	0.00	35	28	230	60	19	8.5	3.3	28	0
565	Hapur	Dholana	Bajherakalan	28.591	77.71208	7.71	480	0	268.444	7.1	1.1	5.0	24	210	40	27	18	4.1	28	0
566	Hardoi	Sandi	Block HQ(in premises of block)	28.58056	77.79056	7.89	699	0	281	36	0.33	30	28	300	56	38	18	8.6	15	0
567	Hardoi	Shahabad	Block HQ(in premises of block)	27.64863	79.94333	7.92	492	0	244	14	0.19	0	20	190	52	14	23	4.2	23	0
568	Hardoi	Tadiyawan	Block HQ(in premises of block)	27.43792	80.24056	8.00	612	0	281	28	0.56	0	24	240	48	29	25	4.4	25	0
569	Hardoi	Mallawan	Block HQ(in premises of block)	27.02580	80.15470	7.88	840	0	341.6	64	1.16	7.3	34	320	52	46	43	5.5	30	0
570	Hardoi	Madhavganj	Block HQ	27.11741	80.12575	8.40	464	12	219.6	7.1	0.80	0	0	190	28	29	15	3.9	24	0
571	Hardoi	Kachhauna	In compound of BDO office	27.16329	80.33552	7.86	734	0	341.6	28	0.16	0	32	310	36	53	22	6.5	38	0
572	Hardoi	Sandila	In compound of BDO office	27.05663	80.51737	8.07	599	0	292.8	21	0.91	0	7.5	220	60	17	31	4.2	30	0
573	Hardoi	Todarpur	Tedwa Chatarpur	27.68216	80.02487	8.12	583	0	305	14	0.30	0	0	240	36	36	13	16.8	26	0
574	Hardoi	Pihani	Arua	27.54793	80.16069	7.94	594	0	341.6	7.1	0.57	0	0	240	40	34	22	5.0	30	0

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575	Hardoi	Pihani	Rasoolpur	27.67892	80.28372	8.00	602	0	280.6	43	0.15	0	0	260	40	38	11	4.2	32	0
576	Hardoi	Pihani	Gopamau	27.53111	80.28471	8.04	612	0	262.3	60	0.00	0	24	240	44	31	30	5.7	24	0
577	Hardoi	Bharkhani	Virsinghpur	27.41949	79.87316	8.06	457	0	195.2	14	0.13	0	38	190	48	17	9	4.5	17	0
578	Hardoi	Shahabad	Dariyapur Balbhadora	27.54792	79.86620	8.23	462	0	244	7.1	0.18	0	0	160	40	14	27	4.0	22	0
579	Hardoi	Harpalpur	Mubarakpur	27.42194	79.78901	8.14	419	0	207.4	14	0.36	0	14	160	32	19	20	3.9	31	0
580	Hardoi	Harpalpur	Kirtiyarpur	27.28125	79.79636	8.18	1242	0	341.6	128	0.62	0	152	210	32	31	181	5.0	21	0
581	Hardoi	Sandi	Kuliya	27.22670	79.83503	7.98	777	0	305	28	0.34	0	72	270	24	50	49	5.4	24	0
582	Hardoi	Madhavganj	Dhaniganj	27.03859	80.01935	8.19	549	0	292.8	14	0.40	0	0	180	70	1	39	4.0	16	0
583	Hardoi	Bhender Kalan	Gangakheda	27.05893	80.28643	7.84	718	0	231.8	50	0.43	0	78	260	60	26	40	4.1	24	0
584	Hardoi	Kothawan	Chandrapur	27.15651	80.46159	7.96	618	0	317.2	14	0.67	0	8.4	240	36	36	28	4.3	30	0
585	Hardoi	Sandila	Bahuti Kalan	27.17722	80.56546	8.08	700	0	335.5	28	0.13	0	14	280	52	36	25	10.4	22	0
586	Hardoi	Sandila	Atwadanda	27.06613	80.60442	7.87	782	0	353.8	28	0.00	0	32	300	60	36	32	7.6	25	0
587	Hathras	Hassain	Block HQ	27.61200	78.26750	7.77	931	0	342	113	0.3	15	38	260	52	31	98	21.9	28	0
588	Hathras	Hathras	District H.Q.	27.57300	78.05510	8.07	2246	0	769	170	1.28	89	131.4	410	40	74	301	53.5	33	0
589	Hathras	Mursan	Block H.Q.	27.56840	77.94110	7.95	3725	0	488	610	1.0	0	402	740	84	127	436	8.1	16	0
590	Hathras	Sadabad	Block H.Q.	27.44660	78.04010	8.16	3678	0	451	425	1.5	0	669.8	440	44	79	582	3.8	10	0
591	Hathras	Sahpau	Block H.Q.	27.43690	78.13740	8.03	1891	0	586	128	0.54	36	105	290	40	46	193	32.3	27	0
592	Hathras	Sasni	Block H.Q.	27.69110	78.07410	8.05	2403	0	720	227	0.86	35.6	156	400	48	67.2	291	4.4	28	0

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593	Hathras	Sikandra rao	Block H.Q.	27.69260	78.07410	8.27	482	0	195	14	1.00	0	27	170	36	19	17	3.2	25	0
594	Hathras	Mursan	Aharai	27.52751	77.95120	7.86	9128	0	756	1772	0.5	26	1300	1800	208	311	1160	180.0	25	0
595	Hathras	Sasni	Rahna	27.65869	78.03921	8.25	556	0	268	14	0.71	8.1	28.0	230	52	24	22	4.6	24	0
596	Hathras	Sasni	Lutsan	27.64833	78.13538	8.45	1462	18	305	106	0.95	0	133	200	28	31	250	4.0	21	0
597	Hathras	Hathras	Mohari	27.64944	78.15311	8.96	2730	132	256	227	2.95	94	275	340	16	73	490	11.2	30	0
598	Hathras	Hathras	Singhal	27.52171	78.15991	8.45	6105	48	390	851	1.32	32	1200	530	16	119	1150	10	29	0
599	Jalaun	Dakore	Block Campus	25.87501	79.42484	7.80	1760	0	561	234	0.78	50	75	850	32	185	33	0.0	33	0
600	Jalaun	Konch	Block Campus	26.00174	79.16184	7.83	1185	0	378	99	0.49	85	31	430	48	74	61	0.0	33	0
601	Jalaun	Rampura	Block Campus	26.34813	79.18386	8.07	723	0	390	28	0.55	11	11	310	56	41	35	3.3	31	0
602	Jalaun	Konch	Swami	26.01694	79.04500	8.17	594	0	281	28	1.5	0	16	270	40	41	11	2.1	19	0
603	Jalaun	Konch	Pahargaon	25.87167	79.06722	7.57	838	0	293	92	0.27	10	28	340	76	36	35	2.2	32	0
604	Jalaun	Nadigaon	Mahatwani	26.15083	79.19861	8.03	880	0	439	28	0.35	16	5.1	330	88	26	47	1.2	25	0
605	Jalaun	Konch	Bilalya	25.87583	79.19556	8.00	604	0	317	21	0.50	0	8.0	240	20	46	30	1.3	25	0
606	Jalaun	Rampura	Husepura Surai	26.36417	79.30861	8.07	409	0	207	14	0.49	0	6.1	190	48	17	6.0	1.0	24	0
607	Jalaun	Madhoganj	Rajpura	26.25500	79.30167	8.09	1354	0	561	99	0.66	13	33	400	32	77	120	2.4	27	0
608	Jalaun	Dakor	Kushmi Mauja	25.99472	79.31889	8.06	996	0	464	50	0.67	0	29	350	48	55	65	2.4	24	0
609	Jalaun	Dakor	Garon	25.86278	79.34639	7.99	564	0	293	21	0.46	0	7.0	220	44	26	28	1.5	22	0
610	Jalaun	Kuthond	Jakha Bambi	26.28139	79.44528	7.94	502	0	244	14	0.52	0	19	230	48	26	8.0	0.0	23	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
611	Jalaun	Jalaun	Babai	26.17139	79.46528	7.84	972	0	464	35	0.23	25	14	340	60	46	62	1.6	40	0
612	Jalaun	Kadaura	Sandhi	26.00417	79.60083	7.92	766	0	390	28	0.46	0	8.0	350	48	55	14	3.9	36	0
613	Jalaun	Mahewa	Madarpur	26.14000	79.73639	7.91	964	0	488	28	0.25	13	10	250	44	34	102	2.3	35	0
614	Jalaun	Kadaura	Dadupur	26.01194	79.73111	7.88	602	0	317	14	0.19	8.0	5.0	210	56	17	40	1.5	28	0
615	Jaunpur	Mungra Badshahpur	Block office	25.65630	82.18872	7.64	1232	0	390	121	0.29	115	80	460	76	65	89	9.6	33	0
616	Jaunpur	Machchli Sahar	BDO OFFICE	25.66820	82.39920	8.42	1343	60	476	78	1.0	0	135	210	24	36	243	1.4	20	0
617	Jaunpur	Badlapur	Bahripur	25.98167	82.44528	8.37	881	48	439	14	0.85	15	5.0	380	60	55	48	1.7	28	0
618	Jaunpur	Baksha	Leduka Bazar	25.88333	82.55194	8.09	827	0	500	14	0.77	0	22	220	32	34	104	2.4	25	0
619	Jaunpur	Mungra Badshahpur	Sajai Kalan	25.63889	82.28583	7.95	849	0	476	28	0.73	7.0	17	300	40	48	74	2.2	30	0
620	Jaunpur	Sikrara	Baraipur	25.76417	82.42778	7.91	661	0	366	35	1.0	5.0	5.3	270	40	41	38	2.7	29	0
621	Jaunpur	Suitha kalan	Arsiya	26.12940	82.57520	8.04	671	0	390	14	0.60	5.2	13	220	52	31	64	3.6	30	0
622	Jaunpur	Rampur	Dhanachu	25.50770	82.70240	7.90	581	0	329	14	0.64	0	5.7	250	36	29	21	3.0	19	0
623	Jaunpur	Shahganj	Itwari Bazar	25.87250	82.71040	7.93	287	0	134	14	0.92	0	21	140	52	12	5.2	1.9	26	0
624	Jaunpur	Jaunpur	In Jaunpur City	25.74472	82.68444	7.94	1775	0	378.2	255	0.80	40	156	580	56	106	128	4.2	28	0
625	Jaunpur	Ram Nagar	Block office	25.55528	82.62000	8.18	912	0	500.2	28	0.50	0	0	270	20	53	81	4.8	29	0
626	Jaunpur	Rampur	Block office	25.49028	82.57083	8.31	1162	12	561.2	35	1.1	0	39	160	20	26	188	4.7	25	0
627	Jaunpur	Shahganj	Shahganj	25.96611	82.67500	7.96	628	0	305	28	0.50	0	14	210	44	24	43	5	31	0
628	Jaunpur	Dharampur	Block Office	25.75250	82.74750	8.65	628	24	262.3	21	0.46	6.5	20	260	12	55	21	5.0	31	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																			
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
629	Jaunpur	Barsathi	Block Office	25.56167	82.47139	8.00	792	0	390.4	28	0.55	20	21	310	40	50	37	4.0	30	0
630	Jaunpur	Dobhi	Block Office	25.59389	82.99778	7.71	699	0	390.4	14	0.82	0	0	240	44	31	48	2.8	37	0
631	Jaunpur	Jalalpur	Block Office	25.60806	82.75861	7.84	699	0	366	14	1.00	11	15	280	60	31	31	1.7	33	0
632	Jaunpur	Karanja Kalan	Block Office	25.80472	82.68972	8.25	1220	0	475.8	113	1.5	0	34	330	44	53	117.5	2.8	23	0
633	Jaunpur	Kerakat	Block Office	25.64556	82.91972	7.90	804	0	366	57	0.70	10	13	280	48	38	55	2.6	33	0
634	Jaunpur	Khutahan	Block Office	25.98000	82.57833	7.90	694	0	378.2	7.1	0.40	17	9.0	280	44	41	28	4.9	31	0
635	Jaunpur	Madiyayahun	Block Office	25.64000	82.61417	8.00	794	0	402.6	21	0.90	18	20	310	32	55	38	4.3	28	0
636	Jaunpur	Muftiganj	Block Office	25.69750	82.82861	8.07	730	0	414.8	14	0.34	0	0	230	32	36	59	3.2	24	0
637	Jaunpur	Sirkoni	Block Office	25.67167	82.72778	8.05	1725	0	658.8	149	0.90	0	94	430	36	82	192.5	1.2	26	0
638	Jaunpur	Suitha Kalan	Block Office	26.10028	82.50083	7.96	600	0	341.6	7.1	0.54	0	11	230	40	31	29	4.0	28	0
639	Jhansi	Babina	Block Campus	25.23391	78.46967	8.02	901	0	342	64	0.37	52	36	340	104	19	49	0.0	35	0
640	Jhansi	Bamaur	Block Campus	25.61314	79.18572	7.74	2390	0	403	411	0.38	105	200	700	44	142	240	0.0	33	0
641	Jhansi	Bangra	Block Campus	25.31156	79.00384	7.65	2110	0	134	454	0.28	105	170	820	244	50	104	0.0	44	0
642	Jhansi	Baragaon	Block Campus	25.47376	78.70009	8.15	1300	0	439	113	0.32	18	95	340	96	24	140	0.0	68	0
643	Jhansi	Chirgaon	Block Campus	25.57110	78.80584	8.18	964	0	439	64	0.79	15	27	270	20	53	105	2.2	23	0
644	Jhansi	District HQ	Vikas Bhawan Jhansi	25.44363	78.57753	7.92	697	0	183	113	0.25	10	0	210	32	31	55	1.1		0
645	Jhansi	Gursarai	Block Campus	25.61314	79.18572	7.75	2000	0	403	383	0.36	105	31	680	36	142	165	0.0	31	0
646	Jhansi	Mauranipur	Block Campus	25.25540	79.14371	7.64	699	0	329	21	0.35	34	13	230	32	36	50	0.0	33	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
647	Jhansi	Moth	Block Campus	25.72993	78.95227	7.97	1624	0	512	191	0.18	70	55	450	24	94	170	0.0	47	0
648	Jhansi	Babina	Sarvad	25.30417	78.41139	7.60	498	0	305	14	0.49	0	11	250	52	29	19	1.6	43	0
649	Jhansi	Babina	Chattpur Bachauni	25.42056	78.35917	7.43	613	0	207	35	0.63	85	34	270	92	10	27	0.0	34	0
650	Jhansi	Babina	Pali Pahari	25.45806	78.49306	7.79	830	0	305	85	0.57	28	43	320	76	31	57	0.0	64	0
651	Jhansi	Babina	Mathurapora	25.35472	78.48556	8.21	1900	0	512	184	0.54	155	115	490	136	36	110	170	33	0
652	Jhansi	Baragaon	Dhikoli	25.49222	78.45361	8.03	520	0	195	28	0.48	17	18	190	52	14	23	0.0	56	0
653	Jhansi	Babina	Ghesoli	25.16556	78.46000	7.91	550	0	171	28	1.4	70	27	240	68	17	13	0.0	26	0
654	Jhansi	Baragaon	IGFRI	25.52722	78.55472	7.64	625	0	305	35	1.0	0	21	290	64	31	18	0.0	43	0
655	Jhansi	Babina	khailar	25.34528	78.53500	7.32	386	0	49	35	0.22	45	37	140	24	19	14	2.2	54	0
656	Jhansi	Baragaon	Badal Pucha	25.52139	78.66111	7.94	622	0	195	71	0.57	15	35	270	56	31	23	0.0	36	0
657	Jhansi	Baragaon	Telheta Kalan	25.43056	78.74444	7.84	1254	0	220	149	1.2	95	110	430	80	55	76	4.1	47	0
658	Jhansi	Chirgaon	Bakua Bujarg	25.71139	78.86944	7.93	862	0	354	64	0.92	15	13	260	48	34	71	1.6	34	0
659	Jhansi	Chirgaon	Baral	25.61222	78.85806	8.20	1354	0	695	43	1.5	6.0	8.0	390	16	84	120	1.8	31	0
660	Jhansi	Baragaon	Shakti Bhairu	25.51472	78.85389	8.04	804	0	415	21	2.4	14	11	170	72	10	105	0.0	29	0
661	Jhansi	Bangra	Jawan	25.34250	78.85528	8.16	743	0	354	43	1.6	10	15	220	36	31	73	1.1	30	0
662	Jhansi	Bangra	kanaura	25.24694	78.83972	8.12	440	0	220	14	1.3	5.0	14	150	40	12	33	1.6	33	0
663	Jhansi	Chirgaon	Kalyanpura	25.60639	78.94111	8.14	899	0	464	35	2.1	12	8.0	190	20	34	125	0.0	25	0
664	Jhansi	Bamanua	Bamanua	25.52833	78.97694	7.78	1590	0	159	312	1.2	45	135	490	120	46	124	0.0	34	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																			
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
665	Jhansi	Bangra	Ghanghri	25.44028	78.97222	7.99	462	0	183	28	2.6	5.0	20	130	36	10	41	0.0	51	0
666	Jhansi	Bangra	Kachnev	25.27111	78.97611	8.02	1401	0	512	121	1.3	24	51	340	48	53	155	0.0	45	0
667	Jhansi	Bamaur	Afarsua	25.61167	79.06611	8.19	1372	0	378	99	2.3	30	165	190	32	26	220	1.0	30	0
668	Jhansi	Bamaur	Samserpura	25.68806	79.03611	8.14	1201	0	549	50	1.9	40	18	400	36	74	85	0.0	28	0
669	Jhansi	Gursarai	Ghuraiya	25.54639	79.05972	7.92	938	0	403	57	1.7	16	26	250	40	36	96	1.4	30	0
670	Jhansi	Gursarai	Dadpura	25.42583	79.04417	7.95	946	0	427	64	2.3	8.0	18	160	36	17	146	2.4	20	0
671	Jhansi	Mauranipur	Sinora	25.36000	79.07583	7.69	1042	0	329	99	2.0	65	38	290	68	29	101	1.3	31	0
672	Jhansi	Bangra	Kanipur	25.26806	79.07028	7.98	435	0	207	14	0.77	0	6.0	160	52	7.0	20	0.0	24	0
673	Jhansi	Bangra	Banda	25.15972	79.05583	7.94	625	0	268	28	1.5	30	18	200	64	10	50	0.0	54	0
674	Jhansi	Gursarai	Bhasneh	25.54167	79.15917	8.02	1413	0	537	103	1.8	41	47	440	48	77	115	3.0	35	0
675	Jhansi	Gursarai	Dugara	25.45278	79.15278	7.87	1852	0	378	291	1.3	12	115	540	76	84	152	1.2	34	0
676	Jhansi	Mauranipur	Godwa	25.36139	79.15139	7.89	1265	0	427	121	1.2	42	36	400	52	65	97	1.6	32	0
677	Jhansi	Mauranipur	Churaha	25.17306	79.18528	7.96	572	0	85	99	1.2	21	40	220	64	14	27	0.0	48	0
678	Jhansi	Mauranipur	Bamhauri	25.33306	79.22583	7.74	910	0	268	113	1.2	50	40	380	76	46	42	0.0	31	0
679	Jhansi	Mauranipur	Dhaypur	25.24139	79.25806	8.27	449	0	207	21	1.3	16	7.0	170	28	24	25	0.0	30	0
680	Jhansi	Mauranipur	Kadaura	25.17222	79.25444	7.89	696	0	220	78	0.93	40	18	250	60	24	46	0.0	28	0
681	Jhansi	Moth	Saiokhari	25.86083	78.91556	8.20	727	0	390	21	1.2	11	5.0	240	40	34	60	1.6	29	0
682	Jhansi	Moth	Panarri	25.76889	79.02333	8.37	1120	1.8	573	21	1.7	16	7.0	220	16	43	155	0.0	32	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
683	Jhansi	Bamaur	Bhadarwar	25.74333	79.16917	8.14	981	0	403	64	0.55	32	28	390	120	22	44	1.9	51	0
684	Jhansi	Bamaur	Tharo-II	25.75528	79.31806	7.97	1000	0	512	28	1.9	0	24	220	40	29	116	0.0	39	0
685	Jhansi	Bamaur	Domurai	25.62639	79.31806	7.88	596	0	305	14	0.34	23	0	250	52	29	21	1.1	37	0
686	Jhansi	Gursarai	Pura	25.49583	79.34000	7.95	864	0	415	50	0.70	0	5.0	230	32	36	91	0.0	34	0
687	Kannauj	Umarda	Liluiya	26.90132	79.73481	7.68	495	0	268	7	0.57	0	50	250	48	32	9.6	4.3	26	0
688	Kannauj	Umarda	Thathiya	26.91626	79.89128	8.17	888	0	537	7	6.6	0	17	40	8	5	206	1.2	16	0
689	Kannauj	Kannauj	Kannauj Block Office	27.03375	79.92148	7.56	658	0	342	28	0.57	0	25	230	52	24	53	3.9	31	0
690	Kannauj	Umarda	Umarda Block Office	26.99976	79.78909	7.81	556	0	268	28	0.61	31	5.5	220	52	22	27	3.6	29	0
691	Kannauj	Gugrapur	Gugrapur Block Office	27.12548	79.86535	7.75	488	0	268	21	0.46	0	15	160	52	7.3	44	2.5	27	0
692	Kannauj	Jalalabad	Jalalabad Block Office	27.10018	79.77746	7.72	772	0	488	7	0.59	0	9.9	250	44	34	77	4.4	29	0
693	Kannauj	Talgram	Talgram Block Office	27.12334	79.67804	7.88	745	0	378	43	0.55	0	31	200	32	29	100	2.4	26	0
694	Kannauj	Talgram	Indergarh	27.04968	79.64376	7.83	741	0	268	78	0.91	28	30	295	48	43	35	3.4	25	0
695	Kannauj	Chhibramau	Sikanderpur	27.13989	79.60595	7.78	580	0	354	7	0.69	0	6.5	230	48	27	39	4.8	29	0
696	Kannauj	Chhibramau	Chhibramau Block Office	27.14427	79.51212	7.86	633	0	342	28	0.69	8.4	17	200	44	22	63	3.7	27	0
697	Kannauj	Saurikh	Saurikh	27.02791	79.48094	7.82	775	0	378	28	0.71	31	36	270	48	36	70	4.5	29	0
698	Kannauj	Saurikh	Saurikh Block Office	26.97860	79.49489	8.04	546	0	293	14	0.58	0	31	190	44	19	45	11	26	0
699	Kannauj	Haseran	Haseran Block Office	26.91851	79.58062	7.89	290	0	146	7	2.2	0	16	115	20	16	14	2.6	22	0
700	Kannauj	Haseran	Baikpurwa	26.89796	79.61080	7.92	562	0	354	7	1.1	0	8.9	180	32	24	59	2.3	27	0

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Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
701	Kanpur Dehat	Sandalpur	Sandalpur Block Office	26.42228	79.67447	7.99	1248	0	476	113	0.36	84	39	560	60	100	53	2.4	36	0
702	Kanpur Dehat	Rajpur	Pitampur	26.39056	79.60149	8.08	1043	0	635	21	1.0	0	16	280	32	49	133	3.6	24	0
703	Kanpur Dehat	Rajpur	Rajpur Block Office	26.30321	79.68724	7.77	726	0	390	28	0.45	25	17	300	48	44	43	4.4	31	0
704	Kanpur Dehat	Rajpur	Behmai	26.27006	79.59811	7.89	812	0	500	14	0.41	0	5.0	290	56	36	71	2.3	32	0
705	Kanpur Dehat	Amraudha	Amraudha Block Office	26.19597	79.77950	7.86	2002	0	415	184	0.48	396	98	791	132	112	90	6.2	30	0
706	Kanpur Dehat	Amraudha	Sultanpur	26.16746	79.88393	7.81	1185	0	439	106	0.45	122	18	430	68	63	81	4.3	31	0
707	Kanpur Dehat	Malasa	Malasa Block Office	26.27046	79.93851	7.95	920	0	500	35	0.46	0	26	280	44	41	104	3.4	28	0
708	Kanpur Dehat	Malasa	Gissi	26.25356	80.01317	7.65	866	0	451	28	0.60	17	36	330	60	44	66	3.3	26	0
709	Kanpur Dehat	SarvanKhera	SarvanKhera Block Office	26.35930	80.09120	7.91	937	0	549	43	0.71	0	32	360	76	41	62	5.1	31	0
710	Kanpur Dehat	Akberpur	Barah	26.38229	80.01238	7.99	893	0	451	57	0.78	8.3	31	320	44	51	77	6.6	27	0
711	Kanpur Dehat	Akberpur	MaatiKishanpur	26.33967	79.96451	7.63	882	0	403	57	0.21	0	44	280	60	32	85	9.0	34	0
712	Kanpur Dehat	Akberpur	Akberpur Block Office	26.38233	79.95612	8.19	1327	0	732	43	6.0	8.9	36	90	8.0	17	295	1.6	17	0
713	Kanpur Dehat	Akberpur	Muktapur	26.42542	79.93495	7.99	828	0	488	14	1.0	5.6	25	290	32	51	74	5.9	24	0
714	Kanpur Dehat	Akberpur	Mohammadpur	26.37434	79.89768	8.12	1623	0	744	85	0.96	0	138	340	32	63	257	2.1	24	0
715	Kanpur Dehat	Derapur	Derapur Block Office	26.41748	79.79322	8.02	1555	0	708	85	0.77	20	105	330	48	51	240	4.3	28	0
716	Kanpur Dehat	Jhinjhak	ParjaniChowk	26.57274	79.67521	8.00	850	0	488	21	1.0	0	17	180	28	27	128	7.7	26	0
717	Kanpur Dehat	Jhinjhak	Jhinjhak Block Office	26.55404	79.72583	7.77	885	0	476	35	0.95	8.9	29	280	36	46	94	4.7	22	0
718	Kanpur Dehat	Rasoolabad	Naharpur	26.58953	79.75574	7.80	898	0	561	14	0.45	7.1	9.1	270	48	36	92	21	27	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	District	Block	Location	Latitude	Longitude	pH	EC µS/cm at 25° C	CO_3	HCO_3	Cl	F	NO_3	SO_4	TH	Ca	Mg	Na	K	SiO_2	PO_4
719	Kanpur Dehat	Jhinjhak	Gaupur	26.59961	79.79670	8.07	1080	0	427	106	0.35	23	34	270	24	51	138	6.7	31	0
720	Kanpur Dehat	Rasoolabad	Rasoolabad Block Office	26.66804	79.78387	7.88	1131	0	537	92	0.73	25	33	470	64	75	68	7.6	27	0
721	Kanpur Dehat	Rasoolabad	GadhewaBahadurpur	26.65757	79.83141	7.87	818	0	476	21	0.94	0	28	200	44	22	112	5.2	27	0
722	Kanpur Dehat	Rasoolabad	Pal Nagar	26.66576	79.74335	7.96	782	0	500	7	0.79	0	11	240	36	36	85	3.8	22	0
723	Kanpur Dehat	Rasoolabad	Usari	26.71646	79.74446	7.93	670	0	378	14	0.76	7.3	18	220	28	36	67	3.3	24	0
724	Kanpur Dehat	Maitha	Maitha Block Office	26.53024	80.05570	7.98	1256	0	476	163	0.30	18	18	200	36	27	220	1.7	22	0
725	Kanpur Dehat	Maitha	Matikapur	26.51586	80.15629	7.95	2150	0	1196	78	4.5	13	45	200	24	34	455	3.8	24	0
726	Kanpur Nagar	Kalyanpur	Kalyanpur Block Office	26.50420	80.25477	7.91	1037	0	512	57	0.67	0	36	330	36	58	103	6.0	17	0
727	Kanpur Nagar	Kalyanpur	Binaur	26.39781	80.16693	7.66	460	0	305	7	0	0	6.2	225	54	22	19	3.0	24	0
728	Kanpur Nagar	Bidhnoo	Bidhnoo Block Office	26.32434	80.27438	7.91	1127	0	415	113	0.36	31	41	490	72	75	43	6.6	29	0
729	Kanpur Nagar	Sarsaul	Sarsaul Block Office	26.28604	80.48780	8.06	885	0	476	35	1.1	13	18	290	36	49	90	4.3	28	0
730	Kanpur Nagar	Patara	Patara Block Office	26.23330	80.19656	7.99	1566	0	610	135	0.52	68	94	560	144	49	125	5.7	34	0
731	Kanpur Nagar	Ghatampur	Ghatampur Block Office	26.15322	80.15543	7.97	1337	0	598	128	0.42	0	34	651	44	131	27	6.8	34	0
732	Kanpur Nagar	Ghatampur	Ghughuwa	26.14806	80.03058	8.00	633	0	342	7	0.23	5.1	13	220	76	7.3	37	2.5	32	0
733	Kanpur Nagar	Ghatampur	Baripal road	26.01119	80.19143	7.92	715	0	439	14	0.33	7.4	0	300	84	22	41	3	33	0
734	Kanpur Nagar	Bhitargaon	Tajpur	26.13938	80.31636	8.04	698	0	415	14	0.14	6.8	10	320	60	41	29	3.1	31	0
735	Kanpur Nagar	Bhitargaon	Bhitargaon Block Office	26.21264	80.27707	8.02	1150	0	573	57	0.93	14	41	280	36	46	158	2.4	25	0
736	Kanpur Nagar	Chaubepur	Chaubepur Block Office	26.62149	80.19182	8.10	810	0	500	14	0.37	0	6.0	260	40	39	82	6.4	30	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
737	Kanpur Nagar	Kanpur (HQ)	Fazalganj Police Station, Kanpur City	26.46265	80.31051	7.52	1507	0	451	128	0.32	88	136	360	56	54	196	5.7	33	0
738	Kanpur Nagar	Shivrajpur	Shivrajpur Block Office	26.68626	80.14051	7.58	1380	0	354	199	0.71	20	88	460	72	68	109	7.6	32	0
739	Kanpur Nagar	Shivrajpur	Taktauli	26.66160	80.04165	7.85	2100	0	512	43	1.0	0	600	701	46	142	210	5.4	26	0
740	Kanpur Nagar	Kakwan	Kakwan Block Office	26.74262	79.97628	7.79	650	0	305	14	2.5	0	45	180	36	22	69	6.1	24	0
741	Kanpur Nagar	Kakwan	Gadaipur	26.78154	79.88151	7.47	855	0	537	7	0.38	0	8.3	330	44	54	62	6.9	25	0
742	Kanpur Nagar	Bilhaur	Araul	26.91546	80.02520	7.84	643	0	354	35	0.28	6.5	8.2	320	64	39	11	3.5	33	0
743	Kanpur Nagar	Bilhaur	Bilhaur Block Office	26.84474	80.05790	7.92	702	0	427	14	0.57	0	7.7	290	52	39	43	4.7	32	0
744	Kanshiram Nagar (Kasganj)	Kasganj	Block Office	27.81790	78.65615	7.94	2631	0	598	248.5	0.19	379	194	575	80	90	289.5	176.5	29	0
745	Kanshiram Nagar (Kasganj)	Patiyali	Block Office	27.69128	78.99889	8.20	480	0	238	14.2	0.499	0.0	18.9	150	60	0	32.6	3.9	28	0
746	Kanshiram Nagar (Kasganj)	Sahawar	Block Office	27.79010	78.82921	8.30	1483	36	488	142	0.525	16.7	89.0	320	76	31.2	219.6	11.8	26	0
747	Kanshiram Nagar (Kasganj)	Sidhpura	Block Office	27.63089	78.86602	7.96	1355	0	256	177.5	0.796	143.4	105	460	104	48	87.44	5.6	31	0
748	Kanshiram Nagar (Kasganj)	Soron	Block Office	27.88915	78.75138	8.12	563	0	281	21.3	0.424	0.0	27.3	250	60	24	21.96	2.83	26	0
749	Kanshiram Nagar (Kasganj)	Soron	Nagla Ulfat Chauraha	27.92744	78.61373	7.91	890	0	482	35.5	0.862	9.8	31.6	205	36	27.6	115.5	5.5	25	0
750	Kaushambi	Kara	Inside block office	25.69530	81.35950	7.67	1437	0	220	128	0.52	300	100	510	104	60	93	6.5	29	0
751	Kaushambi	Muratganj	Inside block office	25.55500	81.53850	7.54	2245	0	500	255	0.28	400	45	1010	124	168	71	4.5	33	0
752	Kaushambi	Kara	Hisanpur Parsakhi	25.63250	81.42722	8.15	584	0	329	21	0.85	7.0	5.0	220	48	24	27	24	25	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	District	Block	Location	Latitude	Longitude	pH	EC µS/cm at 25° C	CO_3	HCO_3	Cl	F	NO_3	SO_4	TH	Ca	Mg	Na	K	SiO_2	PO_4
753	Kaushambi	Newada	Bohagara Sarai	25.37806	81.54417	8.19	1149	0	659	21	3.0	17	30	210	32	31	190	0.0	25	0
754	Kaushambi	Sarsawan	Chanderi	25.39444	81.30000	8.14	910	0	427	64	1.7	7.0	37	330	56	46	73	1.3	25	0
755	Kushinagar	Dudhai	In the premises of Block Office	26.79790	84.15601	7.66	609	0	287	28	0.16	0.0	14	280	56	33.6	6.1	8.1	33	0
756	Kushinagar	Fazil Nagar	In the premises of Block Office	26.68252	84.04678	7.76	638	0	256	57	0.00	0.0	20	290	84	19	11	2.8	36	0
757	Kushinagar	Hata	In the premises of Block Office	26.73953	83.73170	7.94	527	0	281	14	0.57	0.0	0.0	220	56	19.2	15	4.0	35	0
758	Kushinagar	Kasiya	In the premises of Block Office	26.75028	83.91387	8.08	315	0	183	7.1	0.22	0.0	13	150	48	7	9.2	2.5	35	0
759	Kushinagar	Khadda	In the premises of Block Office	27.17891	83.88130	7.99	597	0	293	14	0.00	0.0	29	270	64	26.4	6.4	9.3	19	0
760	Kushinagar	Nebuwa Naurangia	In the premises of Block Office	27.05420	83.86880	8.16	1357	0	525	99	0.00	0.0	71	540	100	70	46	25	25	0
761	Kushinagar	Sewarhi	In the premises of Block Office	26.72440	84.21640	7.92	697	0	305	36	0.00	0.0	37	320	68	36.0	8.1	7.5	25	0
762	Kushinagar	Hata	Lakshmipur Dhush	26.76375	83.71938	7.64	744	0	232	78	0.16	40	32	260	60	26	46	4.3	37	0
763	Kushinagar	Tamkuhi	Basdila Pandey	26.75912	84.01316	7.94	459	0	244	14	0.00	0.0	0.0	210	52	19	6.7	3.9	21	0
764	Kushinagar	Vishunpurwa	Hiranai	27.00803	84.00466	7.83	892	0	366	57	0.00	0.0	48	360	72	43	31	11	28	0
765	Kushinagar	Sewarhi	Habirpur	26.63340	84.28095	7.87	603	0	281	36	0.17	0.0	16	240	48	29	23	5.6	17	0
766	Lakhimpur Kheri	Nakaha	Block HQ(in premises of block)	28.15563	80.41387	8.24	754	0	378	21	0.28	0	22	300	76	26	31	4.0	23	0
767	Lakhimpur Kheri	Ishanagasr	Block HQ(in premises of block)	27.90759	81.20733	7.84	539	0	305	7.1	0.19	0	0	230	52	24	13	5.8	28	0
768	Lakhimpur Kheri	Dhaurahra	Block HQ(in premises of block)	28.00146	81.08507	8.42	458	6	232	11	0.13	0	0	180	28	26	20	4.4	29	0
769	Lakhimpur Kheri	Ramaiya Behar	Block HQ(in premises of block)	28.13528	81.03268	7.88	540	0	305	7.1	0.23	0	0	250	48	31	6	5.0	26	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
770	Lakhimpur Kheri	Nighasan	Block HQ(in premises of block)	28.39606	80.86365	8.14	580	0	317	14	0.13	0	0	260	68	22	10	5.6	19	0
771	Lakhimpur Kheri	Palia Kalan	Block HQ(in premises of block)	28.43721	80.56035	8.12	725	0	403	14	0.16	0	0	330	72	36	10	6.3	21	0
772	Lakhimpur Kheri	Behjam	Block HQ(in premises of block)	27.88302	80.63760	8.07	636	0	329	14	0.42	0	0	280	40	43	6	5.2	30	0
773	Lakhimpur Kheri	Mitauli	Block HQ(in premises of block)	27.81769	80.47653	8.14	672	0	317	28	0.59	0	26	250	36	38	36	4.9	27	0
774	Lakhimpur Kheri	Pasgawan	Block HQ(in premises of block)	27.81851	80.16942	8.28	334	0	146	7.1	0.31	0	28	160	40	14	2	2.2	23	0
775	Lakhimpur Kheri	Mohammadi	Block HQ(in premises of block)	27.94256	80.21307	8.07	624	0	317	28	0.62	0	7.9	290	44	43	7	5.3	30	0
776	Lakhimpur Kheri	Gola	Block HQ(in premises of block)	28.06955	80.48283	8.12	442	0	232	14	0.35	0	0	210	40	26	3	3.0	25	0
777	Lakhimpur Kheri	Khiri	Block HQ(in premises of block)	27.95056	80.76861	8.15	654	0	281	50	0.33	0	16	280	40	43	17	6.2	26	0
778	Lakhimpur Kheri	Phoolbehar	Block HQ(in premises of block)	28.06526	80.80620	8.05	630	0	268	36	0.23	0	43	220	48	24	39	6.8	22	0
779	Lakhimpur Kheri	Bijua	Block HQ(in premises of block)	28.26997	80.60062	8.21	386	0	183	14	0.27	0	18	180	36	22	4	3.4	26	0
780	Lakhimpur Kheri	Ishanagar	Palia	27.92416	81.19408	7.89	562	0	305	14	0.15	0	0	250	56	26	8	6.2	26	0
781	Lakhimpur Kheri	Ishanagar	Ishangar Bypass	27.89208	81.20668	7.92	827	0	366	36	0.25	0	43	360	52	55	19	6.4	25	0
782	Lakhimpur Kheri	Ishanagar	Shivpur	27.89327	81.21541	7.89	555	0	292.8	14	0.15	0	0	260	48	34	5	5.5	29	0
783	Lakhimpur Kheri	Nakaha	Katkusuma	21.86418	80.93050	8.05	632	0	341.6	14	0.26	0	0	260	40	38	21	4.4	28	0
784	Lakhimpur Kheri	Nakaha	Jodhapurwa	27.89871	80.92569	7.98	562	0	244	21	0.17	0	35	260	52	31	7	4.6	18	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
785	Lakhimpur Kheri	Nakaha	Jhandi	27.89827	80.95592	7.89	962	0	329.4	85	0.17	0	51	370	76	43	44	4.4	25	0
786	Lakhimpur Kheri	Nakaha	Ramwapur	27.87146	80.96304	7.98	592	0	305	14	0.35	0	7.3	280	60	31	4	5.2	23	0
787	Lakhimpur Kheri	Nighasan	Rakheti	28.21900	80.89733	8.07	818	0	451.4	14	0.00	0	0	340	84	31	26	6.5	23	0
788	Lakhimpur Kheri	Nighasan	Bhajanpurwa	28.21880	80.86071	7.98	505	0	268.4	14	0.16	0	0	220	48	24	11	5.0	23	0
789	Lakhimpur Kheri	Nighasan	Baglaha Kutti	28.23429	80.85352	7.91	568	0	311.1	7.1	0.16	0	0	270	56	31	3	5.7	24	0
790	Lakhimpur Kheri	Nighasan	Forest Officer South Range	28.24795	80.83845	8.18	570	0	329.4	7.1	0.18	0	0	260	68	22	8	5.5	25	0
791	Lakhimpur Kheri	Palia Kalan	Nagla	28.42512	80.54517	7.94	624	0	341.6	14	0.11	0	0	270	52	34	15	5.8	33	0
792	Lakhimpur Kheri	Palia Kalan	Nemuabojh	28.44409	80.54217	8.25	779	0	427	14	0.19	0	0	330	88	26	22	6.2	24	0
793	Lakhimpur Kheri	Palia Kalan	Aithpur	28.45199	80.55785	7.90	654	0	353.8	14	0.19	0	0	285	56	35	3	7.0	20	0
794	Lakhimpur Kheri	Palia Kalan	Palia	28.43734	80.57762	7.89	596	0	317.2	14	0.26	0	0	240	60	22	17	6.3	23	0
795	Lakhimpur Kheri	Isanagar	Midaniya	27.81406	81.16249	7.70	524	0	256.2	21	0.13	0	18	240	56	24	7	5.0	23	0
796	Lakhimpur Kheri	Dhaurahara	Khagipur	27.94884	81.03210	7.75	492	0	268.4	7.1	0.23	0	11	210	52	19	14	4.4	20	0
797	Lakhimpur Kheri	Ramiabehar	Bhutpurwa	28.04565	81.14550	7.73	778	0	292.8	50	0.19	0	49	290	64	31	37	8.2	23	0
798	Lakhimpur Kheri	Palia	Digiyanai Chauraha	28.63972	80.57313	7.62	406	0	219.6	14	0.22	0	0	180	56	10	9	1.7	19	0
799	Lakhimpur Kheri	Palia	Massankambh	28.57604	80.68861	7.91	554	0	317.2	7.1	0.32	0	0	180	44	17	43	2.0	26	0
800	Lakhimpur Kheri	Nighasan	Ramupur	28.32829	81.00460	7.72	464	0	256.2	7.1	0.23	0	0	170	56	7	26	2.6	27	0
801	Lakhimpur Kheri	Palia	Kadeya	28.43647	80.92549	7.76	405	0	231.8	7.1	0.12	0	0	180	52	12	9	2.4	24	0
802	Lakhimpur Kheri	Nighasan	Singahi Bhiraura	28.31730	80.89225	8.02	599	0	329.4	14	0.19	0	0	270	76	19	10	6.9	17	0

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
803	Lakhimpur Kheri	Palia	Gahra Farm	28.32202	80.73144	8.16	510	0	292.8	7.1	0.18	0	0	240	56	24	4	5.4	21	0
804	Lakhimpur Kheri	Palia	Bhagawant Nagar	28.38561	80.69248	7.96	694	0	390.4	14	0.28	0	0	300	64	34	18	6.6	23	0
805	Lakhimpur Kheri	Nighasan	Mallpur	28.17713	80.69587	8.14	445	0	231.8	7.1	0.24	0	12	170	40	17	19	6.3	22	0
806	Lakhimpur Kheri	Mitauli	Pipra Jhala	27.81003	80.58587	8.10	664	0	378.2	7.1	0.56	0	0	270	40	41	25	6.3	33	0
807	Lakhimpur Kheri	Pasgawan	Pharia Piparia	27.80430	80.30941	7.98	234	0	122	7.1	0.38	0	0	110	20	14	3	3.7	20	0
808	Lakhimpur Kheri	Kumbhigola	Mahmoodpur	27.94998	80.31758	8.07	340	0	170.8	7.1	0.44	0	13	150	28	19	8	3.1	23	0
809	Lakhimpur Kheri	Mitauli	Madariya Tiraha	27.93612	80.44368	8.04	484	0	244	7.1	0.36	7.6	22	230	48	26	4	2.8	27	0
810	Lakhimpur Kheri	Phulbehar	Sunderwal	28.06223	80.73556	8.22	454	0	244	7.1	0.29	0	13	220	52	22	4	4.2	26	0
811	Lakhimpur Kheri	Lakhimpur	Bakkhari	28.07213	80.56911	8.02	475	0	268.4	7.1	0.15	0	0	210	48	22	10	4.2	29	0
812	Lakhimpur Kheri	Bijua	Gogawan	28.19462	80.59700	7.95	384	0	207.4	7.1	0.24	0	0	160	40	14	13	2.8	28	0
813	Lakhimpur Kheri	Bankeyganj	Bhira	28.32348	80.47131	7.84	370	0	207.4	7.1	0.86	0	0	180	48	14	0	2.6	26	0
814	Lakhimpur Kheri	Palia	Murar Kheda	28.56630	80.42454	7.80	544	0	305	7.1	0.13	0	0	230	56	22	15	5.3	18	0
815	Lakhimpur Kheri	Palia	Gadaniya	28.47912	80.47140	7.88	508	0	292.8	7.1	0.12	0	0	240	48	29	3	6.8	17	0
816	Lalitpur	Bar	Block Campus	24.86233	78.58815	7.55	915	0	232	99	0.46	100	63	430	132	24	31	3.4	48	0
817	Lalitpur	Jakhauar	Block Campus	24.89603	78.33887	7.84	1264	0	439	128	1.5	100	18	410	56	65	112	3.0	50	0
818	Lalitpur	Madaro	Block Campus	24.37258	78.79309	7.70	1451	0	439	184	0.20	55	82	670	80	113	45	2.6	41	0
819	Lalitpur	Mehrauni	Block Campus	24.57686	78.72659	7.42	1047	0	195	156	0.38	55	55	380	132	12	49	2.9	47	0
820	Lalitpur	Talbehat	Block Campus	25.03971	78.42278	7.84	871	0	293	71	1.0	40	51	270	100	4.8	74	0.0	36	0

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821	Lalitpur	Jakhora	Baroda Swami	24.87861	78.29611	7.99	510	0	256	14	2.1	18	30	210	76	17	13	40	34	0
822	Lalitpur	Jakhora	Lagaon	24.81056	78.28167	7.54	675	0	244	71	0.21	21	39	310	76	29	27	1.1	25	0
823	Lalitpur	Jakhora	Burhwar	24.71556	78.32000	7.74	421	0	238	14	0.41	7.0	10	200	60	12	10	2.9	38	0
824	Lalitpur	Birdha	Sepura	24.52028	78.30139	7.56	1113	0	232	135	0.20	140	74	430	124	29	65	5.2	23	0
825	Lalitpur	Birdha	Dhora	24.44361	78.32500	6.50	488	0	232	14	0.50	25	5.0	220	52	22	9.0	3.1	48	0
826	Lalitpur	Talbehat	Bijrotha Para	24.96861	78.39361	7.50	595	0	207	35	0.40	60	25	240	82	7.0	28	0.0	24	0
827	Lalitpur	Jakhora	Genchwara	24.80417	78.39806	7.45	725	0	232	78	0.30	45	36	250	88	7.0	60	0.0	31	0
828	Lalitpur	Jakhora	Bamhori Kalan	24.61167	78.38806	7.80	695	0	366	28	1.4	26	10	140	52	2.0	110	1.5	28	0
829	Lalitpur	Birdha	Baroda Bijlon	24.54333	78.37472	7.74	533	0	293	14	0.78	14	7.0	200	56	14	39	0.0	29	0
830	Lalitpur	Birdha	Balabehat	24.32083	78.41139	7.82	571	0	305	21	0.59	26	7.0	220	52	22	43	0.0	34	0
831	Lalitpur	Talbehat	Pawa	25.08861	78.47250	7.39	498	0	207	43	1.2	18	23	210	64	12	29	0.0	33	0
832	Lalitpur	Talbehat	Serwans Kalan	24.97889	78.48694	7.81	370	0	171	21	1.2	9	16	150	40	12	22	0.0	29	0
833	Lalitpur	Talbehat	Bansi	24.88000	78.48000	7.63	624	0	268	35	0.78	26	20	280	92	12	18	0.0	37	0
834	Lalitpur	Bar	Khajra	24.79556	78.49806	7.37	1100	0	207	135	0.64	110	57	440	136	24	37	1.6	31	0
835	Lalitpur	Birdha	Rajwara	24.72028	78.47250	7.95	1131	0	317	135	0.41	60	35	400	140	12	66	2.0	30	0
836	Lalitpur	Jakhora	Pedariya Bag	24.63111	78.47444	7.68	555	0	281	14	0.85	17	7.0	230	56	22	20	1.0	35	0
837	Lalitpur	Birdha	Dongra Kalan	24.45644	78.49697	7.80	695	0	366	27	0.93	24	8.0	260	48	34	49	1.6	21	0
838	Lalitpur	Talbehat	Katila	25.16528	78.56611	7.47	235	0	61	14	0.44	36	11	100	20	12	7.0	0.0	54	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	District	Block	Location	Latitude	Longitude	pH	EC µS/cm at 25° C	CO_3	HCO_3	Cl	F	NO_3	SO_4	TH	Ca	Mg	Na	K	SiO_2	PO_4
839	Lalitpur	Talbehat	Laxmanpura	25.06750	78.57167	7.75	322	0	159	7	0.53	0	16	140	36	12	11	0.0	26	0
840	Lalitpur	Talbehat	Bhuchera	24.99750	78.56556	7.65	998	0	207	149	0.51	34	76	390	116	24	50	1.1	27	0
841	Lalitpur	Bar	Purapachauri	24.76472	78.56806	7.87	388	0	159	14	0.60	26	14	170	40	17	10	0.0	38	0
842	Lalitpur	Birdha	Tikra Tiwari	24.74194	78.59167	7.93	766	0	256	64	1.0	31	52	370	60	53	7.0	1.4	35	0
843	Lalitpur	Birdha	Bhonrda	24.64083	78.56500	7.85	434	0	183	28	0.41	18	12	200	48	19	13	0.0	24	0
844	Lalitpur	Birdha	Kalothara	24.52556	78.57222	7.86	394	0	207	14	0.46	0	9.0	170	44	14	16	1.3	22	0
845	Lalitpur	Mandwara	Bonjaana	24.43944	78.59917	7.87	790	0	268	106	0.52	26	12	310	44	48	45	3.0	29	0
846	Lalitpur	Mandwara	Dongra Khurd	24.36972	78.71667	7.89	677	0	378	21	0.36	16	15	330	44	53	22	3.3	72	0
847	Lalitpur	Bar	Kathwar	24.88333	78.66167	7.76	2338	0	610	362	0.41	65	60	700	88	115	175	60	59	0
848	Lalitpur	Bar	Udaipura Bus	24.78778	78.67611	7.54	999	0	220	142	0.92	55	66	400	104	34	47	1.6	34	0
849	Lalitpur	Bar	Ajnoura	24.70778	78.69167	7.49	599	0	244	28	1.1	35	22	240	68	17	26	0.0	31	0
850	Lalitpur	Mahroni	Bhaira	24.61500	78.67250	7.94	500	0	244	14	1.4	19	7.0	190	60	10	27	0.0	20	0
851	Lalitpur	Mandwara	Gadanpur	24.44611	78.67500	7.76	652	0	317	21	1.1	21	6.0	240	52	26	39	1.5	29	0
852	Lalitpur	Mandwara	Guryana	24.36667	78.66389	7.82	768	0	390	21	1.1	21	7.0	250	52	29	60	2.2	33	0
853	Lalitpur	Bar	Mogan	24.80778	78.75528	8.09	836	0	366	50	0.99	18	18	290	60	34	55	1.4	34	0
854	Lalitpur	Bar	Banpur	24.71222	78.73444	7.82	787	0	317	43	0.97	34	29	340	96	24	20	0.0	27	0
855	Lalitpur	kumchri	kumchri	24.52417	78.77694	7.94	694	0	342	21	1.6	19	10	250	36	38	43	2.2	31	0
856	Lalitpur	Mahroni	Gadoli	24.45639	78.77222	8.04	528	0	256	14	1.5	22	8.0	170	36	19	45	1.9	31	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
857	Lalitpur	Mandwara	Solda	24.27833	78.79444	7.79	725	0	366	21	0.86	12	11	230	56	22	58	1.9	30	0
858	Lalitpur	Mahroni	jamunjhir	24.51667	78.87917	7.74	621	0	268	28	1.2	34	15	260	68	22	22	2.1	38	0
859	Lalitpur	Mahroni	Loharra	24.41917	78.88556	7.57	1100	0	207	191	0.76	50	53	420	156	7.0	57	1.4	36	0
860	Lalitpur	Mandwara	Gidhwaha	24.37056	78.86667	7.86	712	0	317	28	0.80	40	11	300	76	26	22	1.4	39	0
861	Lalitpur	Mandwara	Dhorisagar	24.29194	78.86083	7.76	582	0	244	28	0.87	44	11	270	48	36	10	1.4	17	0
862	Lucknow	Bakshi Ka talab	On Bakshi ka talab-Indura bagh road, at Indurabagh	27.00680	80.90170	7.79	770	0	475.8	14	0.51	0.0	10	324	52	47	43	5.3	29	0
863	Lucknow	Chinhat	Sarvodaya Nagar , Indra Nagar , Lucknow Adjacent to Vikas Bhawan	26.88000	80.97420	7.77	1126	0	359.9	96	0.43	80	61	446	52	76	63	5.6	29	0
864	Lucknow	Gosaiganj	On Gosaiganj Mohanlalganj road, At Gosaiganj	26.76860	81.10140	8.02	421	0	207.4	14	0.53	0.0	22	180	36	22	12	2.3	17	0
865	Lucknow	Kakori	On kakori Budheswar road, at Raja tola , Bargadtallia	26.87080	80.79310	7.93	652	0	317.2	36	0.70	12	11	269	48	36	36	3.7	28	0
866	Lucknow	Mal	On Itaunja Malihabad road At Mal	26.99630	80.79690	7.95	631	0	378.2	14	0.67	0.0	0	270	68	24	24	4.7	30	0
867	Lucknow	Malihabad	On lucknow Hardoi road, near Malihabd railway station	26.94220	80.75440	7.92	710	0	390.4	14	0.64	0.0	23	275	60	30	49	5.8	29	0
868	Lucknow	Mohanlalganj	On raebareili road, at Mohanlalganj	26.61940	81.13310	7.96	604	0	341.6	14	0.54	0.0	8.7	252	44	34	30	4.4	30	0
869	Lucknow	Sarojini nagar	On lucknow Kanpur road near Vidyut training	26.75220	80.85860	7.55	1205	0	500.2	71	0.55	41	50	459	84	60	44	6.0	36	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
			centre at Sarojini nagar																	
870	Lucknow	Sarojni Nagar	Sarojini Nagar	26.77833	80.86528	7.92	646	0	378.2	14	0.42	0.0	11	225	48	25	58	4.4	27	0
871	Lucknow	Sarojni Nagar	Parwar Pachim	26.69083	80.94111	8.04	892	0	427	50	0.46	0.0	35	295	60	35	86	4.7	28	0
872	Lucknow	Gosaiganj	Karimnagar	26.73944	81.17083	7.99	645	0	378.2	14	1.01	0.0	19	260	60	26	42	3.4	32	0
873	Lucknow	Mohanlalganj	Tikra	26.58778	81.02000	7.76	651	0	366	21	0.38	6.7	16	270	64	26	36	5.2	33	0
874	Lucknow	Mohanlalganj	Nagram	26.61972	81.13333	8.05	675	0	372.1	21	1.64	0.0	25	210	56	17	67	4.8	26	0
875	Maharajganj	Ghughuli	In the premises of Block Office	27.05659	83.71882	7.69	888	0	366	57	0.00	0.0	44	350	100	24.0	39	4.5	35	0
876	Maharajganj	Maharajganj	In the premises of Block Office	27.14560	83.54210	7.78	420	0	220	14	0.36	0.0	0.0	180	44	17	11	3.6	37	0
877	Maharajganj	Mithaura	In the premises of Block Office	27.22532	83.63350	8.05	327	0	134	14	0.19	0.0	31	140	44	7	10	2.3	23	0
878	Maharajganj	Pharenda	In the Block Office Premises; Inside Block Resource Centre	27.09620	83.31020	7.84	527	0	281	14	0.52	0.0	5.8	200	48	19	24	3.0	28	0
879	Maharajganj	Brijmanganj	Sonchirraya Shivlahatola	27.28337	83.30691	8.01	327	0	171	7.1	0.17	0.0	5.5	150	44	10	3.9	3.2	26	0
880	Maharajganj	Maharajganj	Pakdi Forest	27.13718	83.44646	7.89	607	0	329	7.1	0.67	0.0	11	220	40	28.8	35	3.1	30	0
881	Maharajganj	Nautanwa	Ganeshpur	27.39727	83.59530	7.67	209	0	85	14	0.12	11	0.0	90	20	10	5.8	0.0	33	0
882	Maharajganj	Ghughuli	Biraichi	27.01978	83.72928	7.79	481	0	232	14	0.00	0.0	16	180	64	5	26	2.9	43	0
883	Maharajganj	Nichlaul	Lalpur	27.39529	83.74106	7.62	632	0	293	21	0.27	0.0	37	290	56	36	8.1	5.3	30	0
884	Mahoba	Kabrai	Atghar	25.49683	80.16953	7.57	1001	0	415	64	0.75	27	40	370	92	34	56	1.3	27	0
885	Mahoba	Kabrai	Kabrai	25.38775	80.00538	8.06	1240	0	476	107	1.5	32	38	300	60	36	140	1.4	35	0
886	Mahoba	Kabrai	Gugaura	25.35254	79.95751	7.76	1204	0	525	92	1.4	18	18	280	44	41	147	0.0	32	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	District	Block	Location	Latitude	Longitude	pH	EC µS/cm at 25° C	CO_3	HCO_3	Cl	F	NO_3	SO_4	TH	Ca	Mg	Na	K	SiO_2	PO_4
887	Mahoba	Kabrai	Ghutbai	25.27283	79.95504	7.64	1228	0	500	135	1.5	0	6.6	340	76	36	123	4.1	27	0
888	Mahoba	Kabrai	Bhandra	25.15779	79.84515	7.42	1510	0	366	149	0.55	174	92	480	108	50	121	1.6	38	0
889	Mahoba	Kabrai	Srinagar	25.17372	79.77889	7.77	1249	0	415	149	1.7	13	39	360	24	72	112	0.0	34	0
890	Mahoba	Jaitpur	Majhgawan Khurd	25.17156	79.65618	7.41	2000	0	378	327	0.88	109	96	560	156	41	184	0.0	43	0
891	Mahoba	Kabrai	Pawa	25.26533	79.76000	7.62	1094	0	512	57	1.2	21	28	350	44	58	89	0.0	37	0
892	Mahoba	Jaitpur	Rawatpura	25.26061	79.65751	7.52	580	0	256	21	0.40	15	35	210	56	17	35	2.1	26	0
893	Mahoba	Jaitpur	Thurat	25.27509	79.52487	7.54	720	0	342	36	1.0	16	15	230	52	24	59	0.0	47	0
894	Mahoba	Jaitpur	Badera Khurd (anandpura)	25.17938	79.57222	7.88	888	0	439	21	0.62	37	8.3	300	72	29	59	0.0	30	0
895	Mahoba	Jaitpur	Saguniya	25.17644	79.48471	7.94	1022	0	464	43	1.3	28	29	340	88	29	73	0.0	71	0
896	Mahoba	Panwari	Khero kalan	25.34549	79.37653	8.04	738	0	390	21	1.0	13	6.7	250	36	38	54	1.0	34	0
897	Mahoba	Panwari	Rivai	25.34595	79.46796	7.61	1501	0	451	178	0.94	25	96	430	60	67	144	0.0	33	0
898	Mahoba	Panwari	Shergarh	25.49429	79.47758	7.59	635	0	305	28	0.27	7.9	15	240	84	7.2	33	0.0	55	0
899	Mahoba	Panwari	Bharwara	25.36627	79.55850	7.64	1024	0	390	50	0.88	32	83	320	72	34	83	0.0	30	0
900	Mahoba	Panwari	Budhi	25.37738	79.60673	7.94	897	0	378	28	1.4	74	24	310	76	29	60	0.0	51	0
901	Mahoba	Charkhari	Rivai	25.48042	79.78386	7.63	956	0	390	99	0.54	0	10.0	330	68	38	66	3.9	23	0
902	Mahoba	Charkhari	Bari	25.53970	79.88865	8.32	2032	30	805	142	1.4	45	48	270	32	46	335	1.2	21	0
903	Mahoba	Kabrai	Barbai	25.48447	80.04352	8.15	957	0	500	21	1.5	10	22	110	28	10	168	0.0	31	0
904	Mahoba	Kabrai	Mahoba	25.29855	79.89442	7.62	1288	0	293	170	0.6665	87	81	410	112	31	105	0.0	48	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	District	Block	Location	Latitude	Longitude	pH	EC µS/cm at 25° C	CO_3	HCO_3	Cl	F	NO_3	SO_4	TH	Ca	Mg	Na	K	SiO_2	PO_4
905	Mahoba	Jaitpur	Jaitpur	25.25536	79.56587	7.41	1780	0	439	256	1.1	57	112	410	128	22	216	3.8	37	0
906	Mahoba	Panwari	Panwari	25.42637	79.46545	7.74	878	0	390	50	0.7461	9.2	39	240	44	31	90	0.0	36	0
907	Mahoba	Charkhari	Charkhari	25.39257	79.74793	7.92	1450	0	439	220	1.4	15	30	450	56	74	124	0.0	26	0
908	Mainpuri	Jageer	Block Office	27.61766	77.94871	8.21	2265	0	903	184.6	1.35	51.8	119	400	40	72	381	7.65	25	0
909	Mainpuri	Kishni	Near Katra Saman Chauraha, Shiv Temple	27.03046	79.19820	8.40	1957	48	671	106.5	1.65	14.0	222	260	32	43.2	373.4	6.89	24	0
910	Mainpuri	Kishni	Block office	27.03160	79.26555	8.56	3252	108	1366	170.4	1.81	24.8	132	110	20	14.4	772	2.3	16	0
911	Mainpuri	Ghiror	Naladurja	27.27568	78.73128	8.66	858	0	293	106.5	0.567	8.2	38.9	295	24	56.4	71.87	9.18	42	0
912	Mainpuri	Ghiror	Padariya Chauraha	27.30121	78.88022	8.37	694	0	378	21.3	1.15	0.0	16.0	220	36	31.2	72.8	3.63	25	0
913	Mainpuri	Mainpuri	Nagla Ramsingh	27.15106	78.87658	8.19	870	0	439	28.4	0.479	0.0	50.8	360	88	33.6	49.53	5.04	28	0
914	Mainpuri	Mainpuri	Nagariya	27.14665	79.02391	8.25	841	0	403	42.6	1.19	0.0	47.0	260	36	40.8	77.16	5.4	40	0
915	Mainpuri	Karhal	Yadav Nagar Gunhiya	27.03169	79.02114	8.34	556	0	287	21.3	0.44	0.0	13.2	245	52	27.6	19.34	4.98	32	0
916	Mainpuri	Kishni	Bamnipur	27.03297	79.16860	8.21	660	0	305	42.6	0.461	0.0	48.7	250	64	21.6	41.36	6.16	46	0
917	Mainpuri	Bewar	Bara	27.15001	79.29752	7.89	3157	0	305	269.8	0.45	0.0	877	930	256	69.6	241	8.44	28	0
918	Mathura	Baldeo	Block HQ	27.41400	77.82000	8.54	1728	36	549	156	4.80	48.7	151	250	20	48	305	11.4	24	0
919	Mathura	Chaumuhan	Block HQ	27.62080	77.57930	8.40	3675	24	281	936	4.40	110	150	720	84	122	505	1.5	19	0
920	Mathura	Chhata	Block HQ	27.72620	77.50080	8.33	7482	30	695	1106	3.50	54	1523.0	2030	76	442	900	15.5	26	0
921	Mathura	Mant	Block HQ	27.63070	77.71610	7.98	2977	0	561	355	0.63	15	431	450	60	72	459	34.5	27	0
922	Mathura	Nandgaon	Block HQ	27.71650	77.38480	7.48	34180	0	2428	5672	2.05	21	5981	4400	524	742	4240	2895	BDL	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
923	Mathura	Nohjhil	Block HQ	27.84639	77.64993	8.01	5541	0	378	886	0.28	18.8	571.0	1040	120	178	545	5.3	26	0
924	Mathura	Raya	Block HQ	27.54950	77.78480	8.25	4677	0	647	1028	2.1	22.1	394.4	560	52	103	825	7.0	24	0
925	Mathura	Chhata	Ajnokh	27.67341	77.41045	7.70	7471	0	415	1553	0.1	8	900	1810	196	320	860	29.0	28	0
926	Mathura	Chhata	Baroli	27.67452	77.57932	8.38	1710	12	378	177	1.85	0.0	230	270	36	44	265	1.5	20	0
927	Mathura	Raya	Gaiyara	27.58904	77.79890	7.96	4581	0	464	858	0.38	26.0	500	780	120	116	700	6.1	30	0
928	Mathura	Raya	Lohaban	27.49774	77.72649	8.44	1050	24	293	71	0.94	17.0	72.0	280	40	44	100	2.5	26	0
929	Mathura	Raya	Nagla Karan	27.53247	77.82824	8.05	7425	0	390	1354	0.83	70	1300	1800	164	337	920	18.7	29	0
930	Mathura	Nandgaon	Puthari	27.75752	77.31944	8.52	2229	36	317	277	2.65	8	335	410	44	73	320	4.7	23	0
931	Mathura	Raya	Thok Bindavani	27.57123	77.89800	8.56	1732	36	561	85.0	2.40	24.0	175.0	380	40	68	224	5.2	28	0
932	Mathura	Chhata	Umaraya	27.66540	77.47417	8.47	9220	48	390	2198	2.4	0	880	2210	104	473	1140	7.9	19	0
933	Mathura	Chhata	Karahari	27.76043	77.56152	8.44	1772	36	390	184	3.1	19.0	165.0	320	36	56	245	3.8	28	0
934	Mathura	Mant	Panigaon Khader	27.59520	77.75827	8.20	484	0	220	7	1.6	0	37	150	24	22	43	2.3	22	0
935	Mathura	Nandgaon	Kamai	27.63236	77.43359	8.49	3583	36	451	539	2.05	0	530	460	36	90	590	35	25	0
936	Mathura	Nohjhil	Surir	27.76873	77.72069	8.20	4805	0	317	610	0.78	22	1200	940	96	170	700	22.3	29	0
937	Mathura	Chhata	Jatwari	27.57388	77.57388	8.45	4356	24	537	596	3.7	17	800	540	44	104	780	6.4	29	0
938	Mathura	Nohjhil	Nankpur Khader	27.89045	77.57961	8.12	6621	0	512	794	0.92	730	1200	1470	124	282	620	500	25	0
939	Maunath Bhanjan	Badraon	Block Office	26.16703	83.46014	7.77	1027	0	512.4	50	0.66	5.7	11	440	52	74	32	2.5	29	0
940	Maunath Bhanjan	Dohari Ghat	Block Office	26.26521	83.51091	7.86	622	0	341.6	14	0.42	0	9.2	270	40	41	17	3.8	30	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	District	Block	Location	Latitude	Longitude	pH	EC µS/cm at 25° C	CO_3	HCO_3	Cl	F	NO_3	SO_4	TH	Ca	Mg	Na	K	SiO_2	PO_4
941	Maunath Bhanjan	Badraon	Hanumanganj	26.14140	83.42536	8.01	444	0	256.2	7	0.34	0	0	200	52	17	9.4	1.2	24	0
942	Maunath Bhanjan	Ratanpura	Mau Kuber	25.96532	83.70702	7.81	841	0	463.6	14	0.38	6.2	7.7	290	48	41	56	3.5	27	0
943	Meerut	DAURALA	In Block office	29.12073	77.71440	7.82	973	0	415	71	0.72	13	64	360	100	27	77	8.14	21	0
944	Meerut	HASTINAPUR	In Block office	29.15734	77.99882	7.76	875	0	342	71	0.4	65	47	320	64	39	62	9.1	23	0
945	Meerut	JANIKHURD	In Block office	28.96388	77.56415	7.93	528	0	268	7	1	13	32	230	54	23	14	5.3	27	0
946	Meerut	KHARKHODA	In Block office	28.83104	77.74662	7.99	1552	0	598	163	1.6	67	48	570	78	91	128	7.8	26	0
947	Meerut	MACHHRA	In Block office	28.89487	77.89328	8.05	729	0	439	7	0.51	7	11	265	57	30	59	7.1	28	0
948	Meerut	MAWANA	In Block office	29.11015	77.90544	8.04	595	0	342	7	0.68	10	28	280	61	31	12	8.5	28	0
949	Meerut	MEERUT	In Block office	28.95887	77.68391	7.98	805	0	403	35	0.37	11	38	320	71	35	53	7.2	30	0
950	Meerut	PARICHHAT GARH	In Block office	28.97823	77.92097	7.55	505	0	281	7	0.42	0	33	240	60	22	15	5.6	20	0
951	Meerut	RAJPURA	In Block office	28.95580	77.75002	7.74	728	0	390	28	1.1	0	32	250	57	26	68	5.1	25	0
952	Meerut	ROHTA	In Block office	29.03780	77.54304	7.64	965	0	586	14	0.71	6.8	19	270	36	44	117	7.9	28	0
953	Meerut	SARDHANA	In Block office	29.14356	77.60774	7.86	1435	0	427	156	0.9	114	59	508	78	76	99	26	27	0
954	Meerut	SAROORPUR	In Block office	29.13633	77.56655	7.64	725	0	427	7	0.71	30	16	320	36	56	27	6.9	30	0
955	Meerut	Daurala	IN KODHI ASHRAM	29.05914	77.69805	8.00	666	0	366	14	0.45	5.4	10	210	40	27	56	6.5	30	0
956	Meerut	Meerut		77.68620	28.90810	8.22	895	0	500	21	0.19	15	30	170	32	22	145	7.9	26	0
957	Meerut	Mawana Kalan	SATISH HOUSE	29.18658	77.82225	7.74	425	0	232	7	0.28	0	24	185	42	19	16	5.1	23	0
958	Meerut	Hastinapur		29.05631	77.96566	7.93	504	0	256	14	0.00	9.2	24	225	60	18	11	3.7	24	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
959	Meerut	Meerut Urban	NEAR SATBIR HOUSE	28.9709	77.63721	8.09	595	0	317.252	21	0.59	6.1	24	200	44	22	56	5.4	20	0
960	Meerut	Meerut Urban	SHOBHAPUR	29.0038	77.64862	8.14	443	0	244.04	7.1	0.66	0	25	210	48	22	8.2	7.4	11	0
961	Meerut	Meerut Urban	KHADOLI CHOCK	28.9851	77.65442	8.15	540	0	292.848	14	0.62	0	27	220	48	24	30	6.2	15	0
962	Meerut	Meerut Urban	OUT SIDE THE BOUNDARY WALL OF AMBEDKAR PARK	28.9633	77.66064	8.05	1050	0	524.686	35	0.93	14	48	280	60	32	125	7.1	16	0
963	Meerut	Meerut Urban	IN SIDE BALAJEE TEMPLE	28.9433	77.65719	7.78	1375	0	658.908	77.99	1.5	24	45	260	40	39	220	6.7	15	0
964	Meerut	Meerut Urban	ON ROSD SIDE	28.9177	77.65047	7.92	1023	0	292.848	170.16	0.7	14	21	280	40	44	103	8.2	12	0
965	Meerut	Meerut Urban	DIN DAYAL HOUSE	28.9038	77.65195	7.83	1210	0	561.292	64	0.38	19	43	330	60	44	122	9.2	19	0
966	Meerut	Meerut Urban	NEAR MAZAR	29.0488	77.67153	7.52	763	0	390.464	35	0.20	0	41	195	42	22	101	5.5	24	0
967	Meerut	Meerut Urban	MANGALPURI	29.0222	77.67403	7.61	687	0	378.262	21	0.00	0	33	225	42	29	67	7.1	28	0
968	Meerut	Meerut Urban	CHOUDARY NIWASH	28.9939	77.66836	7.69	785	0	390.464	50	0.13	0	27	235	38	34	88	6.4	27	0
969	Meerut	Meerut Urban	ROHTA FATAK	28.9824	77.67581	7.64	1015	0	366.06	85	0.27	34	44	265	46	36	106	8.2	34	0
970	Meerut	Meerut Urban	SHATABDI NAGAR	28.9404	77.67149	7.61	1217	0	463.676	106	0.29	110	19	290	32	51	167	9.0	25	0
971	Meerut	Meerut Urban	ON SEVICE ROAD SIDE	29.045	77.69887	7.82	696	0	378.262	7.1	0.21	19	0	220	42	28	58	5.3	28	0
972	Meerut	Meerut Urban	MEERUT CANT	29.0056	77.6973	7.95	1017	0	463.676	43	0.89	28	48	340	68	41	85	7.7	30	0
973	Meerut	Meerut Urban	NEAR SWACH COMMUNITY TOILET	28.9866	77.69907	7.88	637	0	329.454	28	0.30	5.2	28	240	50	28	47	5.5	30	0
974	Meerut	Meerut Urban	NEAR SHISH MAHAL	28.9421	77.69843	7.75	487	0	244.04	28	0.47	12	0	165	56	6.1	37	15	22	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	District	Block	Location	Latitude	Longitude	pH	EC µS/cm at 25° C	CO_3	HCO_3	Cl	F	NO_3	SO_4	TH	Ca	Mg	Na	K	SiO_2	PO_4
975	Meerut	Meerut Urban	SHIV NAGESWAR TEMPLE	29.0729	77.71594	7.78	538	0	292.848	7.1	0.22	0	33	185	36	23	48	5.7	27	0
976	Meerut	Meerut Urban	LALSANA CHOURAHA	29.0473	77.72552	7.71	726	0	244.04	35	0.21	85	75	300	46	45	43	6.2	30	0
977	Meerut	Meerut Urban	SOFIPUR	29.0284	77.71375	7.72	720	0	280.646	64	0.17	22	42	230	80	7.3	73	6.4	30	0
978	Meerut	Meerut Urban	MEERUT CANT	29.0035	77.72055	8.04	845	0	451.474	28	0.30	18	32	300	52	41	73	6.3	31	0
979	Meerut	Meerut Urban	ZILA NIWACHAN OFFICE GATE	28.9904	77.71652	7.88	731	0	305.05	43	0.46	23	42	240	42	33	64	6.6	30	0
980	Meerut	Meerut Urban	ON ROAD SIDE	28.9621	77.72164	7.84	925	0	414.868	43	0.76	39	55	290	84	19	98	5.9	28	0
981	Meerut	Meerut Urban	NEAR ANAND BHAWAN INSIDE SHASHTRI PARK	28.9479	77.72691	8.12	1143	0	427.07	113	0.45	16	60	330	84	29	105	6.5	30	0
982	Meerut	Meerut Urban	NEAR AZI HANIF IN HOUSE	28.9279	77.72597	7.76	2076	0	317.252	291	0.17	140	152	415	84	50	245	7.1	27	0
983	Meerut	Meerut Urban	NEW MEENAKSHI	29.0178	77.73686	7.74	762	0	231.838	21	0.20	50	154	300	60	36	45	6.2	25	0
984	Meerut	Meerut Urban		29.0039	77.75336	7.71	777	0	317.252	64	0.32	28	38	280	56	34	65	6.2	34	0
985	Meerut	Meerut Urban	AWASIYA GATE	28.9649	77.74075	7.77	627	0	268.444	50	0.31	17	32	175	36	21	66	5.1	29	0
986	Meerut	Meerut Urban	DINESH HOUSE	28.9506	77.74073	7.95	677	0	280.646	57	0.14	0	34	220	46	26	49	5.5	28	0
987	Mirzapur	Chanbey	Ragayipur	25.16450	82.34980	8.10	688	0	415	14	0.70	0	8.2	290	36	48	37	3.5	15	0
988	Mirzapur	Hallia	Dewari	24.65150	82.33540	8.00	428	0	183	28	0.52	0	28	160	36	14	27	2.3	15	0
989	Mirzapur	Lalganj	Boda Khurd	24.89930	82.45840	7.70	250	0	116	7.1	0.25	12	7.2	90	40	7.2	12	2.2	22	0
990	Mirzapur	Chanbey	Akorhi	25.17130	82.45510	8.04	964	0	390	78	0.50	45	40	360	24	53	68	2.9	17	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																			
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
991	Mirzapur	Lalganj	Bami	25.05350	82.45380	7.69	597	0	329	21	0.70	19	9.6	210	68	9.6	54	0.0	20	0
992	Mirzapur	Kon	Kantit	25.15450	82.50780	7.74	839	0	378	71	0.50	28	9.6	290	52	38	68	2.0	27	0
993	Mirzapur	Pahari	Pateha Kala	25.01150	82.61190	7.65	392	0	122	43	0.22	17	21	120	48	0.0	33	2.4	15	0
994	Mirzapur	Pahari	Barji Mukundpur	25.07350	82.63860	7.75	1102	0	415	135	0.90	21	24	170	36	19	186	0.0	19	0
995	Mirzapur	City	Kirtatara	25.16580	82.62910	7.62	474	0	256	21	0.00	0	8.0	150	28	19	44	1.9	27	0
996	Mirzapur	Pahari	Lahaura	25.01510	82.75490	8.03	666	0	317	43	0.90	8.2	27	190	48	17	74	2.6	18	0
997	Mirzapur	Pahari	Pahari	25.08460	82.73950	7.76	1278	0	537	99	0.00	108	32	240	24	43	213	1.1	32	0
998	Mirzapur	Rajgarh	Jaugarh	24.98510	82.81930	7.83	389	0	207	14	0.35	19	6.0	170	24	26	18	0.0	25	0
999	Mirzapur	Narayanpur	Chunar	25.08310	82.86160	7.80	913	0	378	99	0.60	11	35	235	28	40	115	9.3	24	0
1000	Mirzapur	Rajgarh	Sagaha	24.98770	82.95700	7.65	483	0	244	35	0.34	0	6.6	200	40	24	28	1.7	26	0
1001	Mirzapur	Rajgarh	Chaukia	25.07940	82.94380	8.10	611	0	354	21	0.54	9.7	5.5	180	28	26	71	1.0	30	0
1002	Mirzapur	Jamalpur	Patti Kalan	25.00270	83.02450	7.90	783	0	293	78	0.16	20	52	260	44	36	74	2.0	19	0
1003	Mirzapur	Hallia	Baskop	24.82260	82.13890	7.82	615	0	360	14	0.36	13	0	115	28	11	99	1.7	27	0
1004	Mirzapur	Hallia	Songarha	24.72870	82.27060	8.16	1310	0	512	170	0.81	0	0	90	8.0	17	260	9.1	16	0
1005	Mirzapur	Lalganj	Satpedi	25.00490	82.29720	7.74	680	0	378.2	28	0.48	0	0	150	28	19	94	0.0	22	0
1006	Mirzapur	Marihan	Hardi Bowthi	24.99870	82.57500	7.85	316	0	158.6	28	0.24	0	0	110	24	12	26	7.0	18	0
1007	Mirzapur	Marihan	Jamui	24.88540	82.70290	8.06	426	0	231.8	21	0.20	6.4	6.0	170	28	24	28	0.0	17	0
1008	Mirzapur	Narayanpur	Kolhana	25.11250	82.99140	8.06	1166	0	573.4	43	0.83	17	60	230	24	41	174	1.0	25	0

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
1009	Mirzapur	Chhanbey	Chhanbey (Gaigpura)	25.12722	82.39389	7.97	1586	0	646.6	92	0.90	57	61	280	28	50	226	0.0	46	0
1010	Mirzapur	Halia	Halia	24.82056	82.33500	7.74	566	0	195.2	50	0.84	32	25	240	68	17	18	1.9	21	0
1011	Mirzapur	Jamalpur	Block office	25.15833	83.08750	7.80	712	0	317.2	50	0.92	6.2	19	280	68	26	34	2.2	30	0
1012	Mirzapur	Nagar Mirzapur	Nagar Mirzapur	25.12000	82.55611	7.87	754	0	414.8	14	1.3	0	8.7	250	40	36	55	1.4	24	0
1013	Mirzapur	Narayanpur	Chunar	25.20000	83.02083	7.74	1349	0	451.4	156	0.56	16	56	400	60	60	117	4.6	27	0
1014	Mirzapur	Pahari	Pahari	25.08472	82.73972	7.75	1330	0	512.4	106	0.86	51	33	290	52	38	166	0.0	37	0
1015	Mirzapur	Rajgarh	Rajgarh	24.87611	82.83694	7.72	349	0	122	35	0.78	14	14	130	32	12	19	2.1	19	0
1016	Mirzapur	Kon	Block Office	25.17056	82.55111	7.80	767	0	451.4	7.1	0.72	0	0	280	88	14	46	2.6	29	0
1017	Moradabad	Chhajlet	Pathanagi	29.05947	78.55367	7.70	506	0	292.8	14	0.31	0	8.8	240	72	14	13	2.4	26	0
1018	Moradabad	Thakurdwara	Bahpur	29.20071	78.69013	7.70	562	0	341.6	14	0.39	0	0	215	84	1.2	43	1.5	25	0
1019	Moradabad	Moradabad	Manoharpur	28.81443	78.70620	7.90	240	0	195.2	7.1	0.60	0	7.8	140	32	14	15	3.8	23	0
1020	Moradabad	Kundarki (Dengapur)	Naronda	28.68211	78.70017	7.71	649	0	256.2	64	0.51	0	26	225	44	28	43	7.8	29	0
1021	Moradabad	Dilari	Faridpur Hazi	29.06306	78.84279	7.50	1342	0	597.8	92	0.32	0	51	495	20	107	83	2.2	26	0
1022	Moradabad	Baniakhera	Block office	28.46179	78.78312	7.91	917	0	329.4	71	0.47	51	46	300	48	43	70	5.5	28	0
1023	Moradabad	Bilari	Block office	28.60957	78.79834	7.87	434	0	268.4	7.1	0.52	0	0	200	44	22	14	4.0	29	0
1024	Moradabad	Panwasa	Block office	28.48350	78.57948	7.94	351	0	195.2	14	0.56	0	5.0	160	36	17	10	3.4	27	0
1025	Moradabad	Bhagatpur Tanda	Bhagatpur Tanda Block	28.95141	78.82683	7.62	347	0	195.2	14	0.42	0	0	150	40	12	15	1.8	23	0
1026	Moradabad	Chhajlet	Chhajlet Block	28.98670	78.63330	7.90	412	0	244	7.1	0.28	0	5.7	180	44	17	14	3.4	28	0

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
1027	Moradabad	Deengarpur	Deengarpur Block	28.68661	78.78786	7.90	850	0	353.8	78	0.25	0	49	330	40	55	50	13	22	0
1028	Moradabad	Moondha Pandey	Moondha Pandey Block	28.82314	78.87967	7.92	349	0	152.5	35	0.30	0	5.0	140	40	9.6	18	2.9	22	0
1029	Muzaffarnagar	BUDHANA	In block office	29.28866	77.47037	7.90	780	0	329	78	1	15	23	280	57	33	65	5.4	29	0
1030	Muzaffarnagar	CHARTHAWAL	In block office	29.54593	77.58590	7.86	315	0	171	7	1	0	17	130	29	14	14	3.6	20	0
1031	Muzaffarnagar	JANSATH	In block office	29.32874	77.85360	7.92	488	0	293	7	0.89	0	13	210	50	21	17	6.9	27	0
1032	Muzaffarnagar	KHATAULI	In block office	29.26756	77.72951	7.60	745	0	305	71	0.49	0	34	290	43	45	45	6.5	27	0
1033	Muzaffarnagar	MORNA	In block office	29.46866	77.94529	7.75	595	0	293	21	0.38	23	37	290	43	45	12	3.7	25	0
1034	Muzaffarnagar	MUZAFFAR NAGAR	In block office	29.46252	77.72236	8.01	428	0	244	7	0.93	0	23	195	36	26	13	4.3	25	0
1035	Muzaffarnagar	PURKAJI	In block office	29.64902	77.83397	7.04	418	0	232	14	0.5	0	20	200	32	29	10	3.6	25	0
1036	Muzaffarnagar	SHAHPUR	In block office	29.35740	77.55538	7.88	398	0	232	7	0.99	0	12	170	29	24	21	3.9	25	0
1037	Muzaffarnagar	Charthawal	NEAR PUMP HOUSE	29.56242	77.67294	7.67	721	0	415	7	0.00	15	17	300	32	54	31	7.97	27	0
1038	Muzaffarnagar	Purqaji	ON ROSD SIDE	29.57123	77.82531	7.83	415	0	220	7	0.18	0	24	205	50	19	6.4	3.9	20	0
1039	Muzaffarnagar	Morna	DHARA SINGH HOUSE	29.43162	77.82585	8.02	464	0	220	28	0.14	0	30	205	46	22	15	5.4	21	0
1040	Muzaffarnagar	Morna	BHOKARBEDI	29.50986	77.93592	7.39	951	0	451	57	0.00	10	28	380	78	45	53	8.5	25	0
1041	Muzaffarnagar	Jansath	BYPASS ROAD	29.29513	77.95963	7.70	562	0	232	57	0.10	0	18	220	50	23	27	6.3	22	0
1042	Muzaffarnagar	Budhana	IN ROAD SIDE	29.28 48	77.43882	7.86	854	0	512.484	14	0.80	7.0	7.5	250	20	49	100	5.3	34	0
1043	Muzaffarnagar	Budhana	NEAR KISHAN BRIKS	29.29 35	77.46234	7.98	478	0	292.848	14	0.47	0	0	200	40	24	25	3.0	30	0
1044	Muzaffarnagar	Budhana	IN ROAD SIDE ENGINEERING WORK SHOPE	29.28 57	77.47882	8.09	698	0	317.252	57	0.86	0	23	180	32	24	89	4.7	25	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	District	Block	Location	Latitude	Longitude	pH	EC µS/cm at 25° C	CO_3	HCO_3	Cl	F	NO_3	SO_4	TH	Ca	Mg	Na	K	SiO_2	PO_4
1045	Muzaffarnagar	Budhana	NEAR TEMPLE	29.299	77.49691	7.75	622	0	341.656	21	0.39	14	9.8	130	24	17	96	4.5	29	0
1046	Muzaffarnagar	Purkaji	NEAR RATHI ELECTRICALS	29.6301	77.81508	7.53	500	0	231.838	14	0.00	8.9	38	210	44	24	14	4.9	31	0
1047	Muzaffarnagar	Purkaji	SANJIVINI CLINIC	29.6588	77.84747	7.91	416	0	219.636	7.1	0.38	0	23	175	40	18	13	3.4	26	0
1048	Muzaffarnagar	Purkaji	ISMILE AUTO MOBILE	29.662	77.84413	7.62	400	0	195.232	14	0.29	0	20	160	28	22	13	5.1	25	0
1049	Muzaffarnagar	Purkaji	ON BYPASS ROAD	29.6557	77.82009	7.84	387	0	219.636	3.5	0.25	0	25	190	46	18	5.7	3.7	26	0
1050	Pilibhit	Amaria	Block HQ(in premises of block)	28.74973	79.72809	8.38	500	24	201	7.1	0.38	0	18	210	36	29	14	2.7	24	0
1051	Pilibhit	Marori	Block HQ(in premises of block)	28.63271	79.81898	8.28	509	0	268	14	0.31	0	0	230	36	34	8	3.7	26	0
1052	Pilibhit	Bar khera	Block HQ(in premises of block)	28.45512	79.80675	8.12	588	0	268	14	0.17	0	38	260	40	38	12	4.0	26	0
1053	Pilibhit	Bisalpur	Block HQ(in premises of block)	28.28717	79.81514	8.26	512	0	268	14	0.23	0	0	220	48	24	12	3.2	28	0
1054	Pilibhit	Puranpur	Block HQ(in premises of block)	28.50852	80.15064	7.80	501	0	189	36	0.33	0	31	190	44	19	26	2.9	22	0
1055	Pilibhit	Lalauli Khera	Block HQ(in premises of block)	28.60866	79.75672	7.91	804	0	415	21	0.16	0	21	240	36	36	68	3.7	25	0
1056	Pilibhit	Bilsanda	Block HQ(in premises of block)	28.24565	79.94106	7.99	400	0	177	21	0.38	0	13	180	48	14	6	4.0	27	0
1057	Pilibhit	Barkhera	Mohammad Jamkhadia	28.43702	79.80510	7.92	540	0	244	21	0.19	0	34	230	52	24	16	2.3	25	0
1058	Pilibhit	Barkhera	Galra Machuapur	28.47861	79.80882	8.10	574	0	292.8	14	0.33	0	0	210	44	24	28	3.4	27	0
1059	Pilibhit	Barkhera	Ghazipur Kunda	28.46734	79.79303	8.14	537	0	280.6	14	0.29	0	0	180	32	24	37	3.2	25	0
1060	Pilibhit	Barkhera	Bhopatpur	28.45674	79.82481	8.15	518	0	268.4	14	0.40	0	0	190	36	24	29	4.0	24	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
1061	Pilibhit	Puranpur	Adjacent to GP office, Madho Tanda	28.62009	80.12242	8.20	1536	0	414.8	107	0.28	128	112	450	116	38	88	81.7	24	1.86
1062	Pilibhit	Amaria	Balliya	28.82629	79.71394	7.82	577	0	268.4	28	0.34	0	16	225	60	18	18	1.6	25	0
1063	Pilibhit	Amaria	Majhola	28.81599	79.88126	8.29	612	0	341.6	14	0.42	0	8.8	230	48	26	44	2.9	25	0
1064	Pilibhit	Marauri	Mathana	28.64170	80.00817	8.42	547	6	286.7	7.1	0.14	0	21	270	64	26	5	8.8	22	0
1065	Pilibhit	Marauri	Sarai Sunderpur	28.57351	79.86978	8.08	360	0	195.2	7.1	0.30	0	7.4	160	36	17	8	3.0	25	0
1066	Pilibhit	Puranpur	Raipur	28.57321	80.00338	8.02	512	0	268.4	7.1	0.40	0	23	240	48	29	5	6.2	24	0
1067	Pilibhit	Puranpur	Purania T.Mahrajpur, SSB Campus	28.70516	80.15071	7.98	330	0	146.4	7.1	0.24	0	28	150	36	14	3	2.4	19	0
1068	Pilibhit	Puranpur	Dhanara Ghat (Haripur range)	28.56964	80.29746	7.75	508	0	262.3	7.1	0.14	0	11	215	44	25	7	3.5	31	0
1069	Pilibhit	Puranpur	Babanpur, Tila no.4	28.70289	80.28970	7.69	532	0	298.9	7.1	0.17	0	0	250	56	26	4	7.1	24	0
1070	Pilibhit	Puranpur	Sabalpur Khas	28.43746	80.16879	8.09	418	0	213.5	7.1	0.16	0	8.3	190	48	17	6	1.2	22	0
1071	Pilibhit	Barkhera	Paint Bojhi	28.43467	79.90601	7.93	420	0	213.5	14	0.24	0	0	180	44	17	10	3.3	11	0
1072	Pilibhit	Bisalpur	Churra Sakatpur	28.30327	79.71930	8.20	400	0	183	14	0.23	0	24	140	36	12	26	1.9	26	0
1073	Pratapgarh	Lakshmanpur	BDO Office	28.09540	79.40400	7.99	729	0	439	21	0.88	0.0	5.0	250	28	43	64	4.3	27	0
1074	Pratapgarh	Rampur-Sangramgarh	BDO Office	25.88870	81.55390	8.43	1175	60	500	35	1.0	0	39	70	12	10	240	1.9	19	0
1075	Pratapgarh	Baba Belkhar Nath	Inside block office	25.90720	82.09990	8.45	1550	48	659	57	2.4	0.0	94	170	20	29	305	3.6	25	0
1076	Pratapgarh	Gaura	Block Office	29.09583	77.85528	8.12	881	0	512	28	1.6	0	10	250	32	41	99	8.8	31	0
1077	Pratapgarh	Kalakankar	Block Office	25.80170	81.36920	8.09	740	0	439	21	1.1	0	0	270	24	50	56	1.9	16	0
1078	Pratapgarh	Mandhata	Block Office	25.80160	81.85710	8.06	592	0	329	21	0.78	5.0	8.4	200	28	31	50	2.8	31	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
1079	Pratapgarh	Patti	Block Office	25.92240	82.19830	7.94	551	0	317	21	0.39	5.0	5.7	210	28	34	39	5.0	30	0
1080	Pratapgarh	Sadar	Block Office	25.90780	81.98000	7.96	750	0	439	21	0.83	6.1	5.4	250	40	36	72	5.1	27	0
1081	Pratapgarh	Sandwa Chandrika	Block Office	26.03770	81.88380	7.94	879	0	525	14	0.69	5.0	5.0	350	32	65	53	5.0	23	0
1082	Pratapgarh	Sangipur	Block Office	26.05540	81.65450	8.12	1829	0	610	43	0.31	0	312	180	24	29	307	5.2	25	0
1083	Pratapgarh	Babaganj	Jilla Panchayat Office	25.79917	81.58222	8.17	765	0	403	35	0.62	16	21	200	28	31	96	4.8	25	0
1084	Pratapgarh	Gaura	Muar	25.75278	82.00861	8.07	627	0	342	14	0.93	5.0	18	240	40	34	39	2.5	30	0
1085	Pratapgarh	Kalanker	Bhadchak	25.75611	81.43500	8.17	710	0	403	14	1.4	5.0	17	300	40	48	28	2.9	28	0
1086	Pratapgarh	Kunda	Ramapur	25.64722	81.58361	8.02	683	0	378	28	1.4	0	22	310	48	46	29	1.5	25	0
1087	Pratapgarh	Mangaraura	Wari Kalan	26.02444	82.14194	7.93	625	0	366	14	0.42	0	5.0	260	52	31	30	2.6	34	0
1088	Pratapgarh	Patti	Bhogipur Katar	25.89361	82.30389	8.03	1018	0	488	71	0.87	0	51	290	28	53	115	2.4	24	0
1089	Pratapgarh	Sadar	Tonipur	25.88917	81.89250	8.44	2126	72	976	92	5.0	14	88	130	16	22	455	1.7	24	0
1090	Pratapgarh	Sangipur	Bashuapur	26.01583	81.71083	8.16	800	0	427	35	1.7	17	19	190	32	26	108	2.8	23	0
1091	Prayagraj	Phoolpur	Munciple Office	28.59260	78.56520	7.87	877	0	403	64	0.87	5.0	33	260	40	38	88	3.8	26	0
1092	Prayagraj	Pratappur	BDO Office	29.20000	78.86220	8.09	1311	0	647	43	0.54	17	106	480	112	48	108	5.0	34	0
1093	Prayagraj	Manda	BDO, Office	25.09920	82.26020	7.73	1071	0	342	121	0.19	55	56	420	88	48	60	1.4	33	0
1094	Prayagraj	Meja	BDO, Office	25.14390	82.10170	7.61	927	0	244	135	0.35	45	48	250	76	14	101	0.0	19	0
1095	Prayagraj	Saidabad	BDO, Office	26.15952	81.52078	8.11	758	0	439	28	0.95	0.0	11	200	28	31	100	2.5	27	0
1096	Prayagraj	Baharia	Dunnaiya	25.63778	82.00167	8.43	1336	48	415	99	2.0	0.0	140	50	12	4.8	295	0.0	16	0

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1097	Prayagraj	Bhagwatpur	Ashrave Kalan	25.37528	81.72611	7.79	956	0	537	42.6	0.95	19	0.0	290	56	36	100	2.8	34	0
1098	Prayagraj	Chaka	Ajbaiya	25.36278	81.90333	7.69	693	0	366	21	0.59	8.0	6.0	300	32	53	22	2.0	32	0
1099	Prayagraj	Karchana	Bhirpur	25.26306	81.99333	7.56	474	0	207	43	0.42	15	15	210	24	36	21	1.0	32	0
1100	Prayagraj	Koraon	Dhao	25.00028	82.12528	7.91	396	0	159	21	0.36	0	14	110	24	12	27	3.7	17	0
1101	Prayagraj	Koraon	Jamuaa Dhush	24.89806	82.02222	8.16	799	0	366	57	0.67	30	13	370	88	36	23	1.0	33	0
1102	Prayagraj	Koraon	Badokhar Korao	24.90417	81.94500	7.91	801	0	439	35	0.60	6.1	13	320	52	46	55	1.0	27	0
1103	Prayagraj	Manda	Shivpur	24.89389	82.13528	8.08	1129	0	525	78	1.4	18	37	200	32	29	190	0.0	25	0
1104	Prayagraj	Meja	Kachara	25.12528	81.88556	7.90	450	0	171	28	0.43	0.0	60	200	48	19	17	2.9	15	0
1105	Prayagraj	Pratappur	Chanethu	25.50778	82.28750	7.97	1690	0	586	135	0.60	22	145	340	40	58	240	2.7	29	0
1106	Prayagraj	Prayagraj City	Rajrooppur	25.43639	81.78556	7.69	855	0	366	64	0.43	24	29	340	76	36	43	3.0	34	0
1107	Prayagraj	Sahson	Senri	25.49722	82.00694	7.98	594	0	329	7	0.78	18	22	310	56	41	6.0	1.4	28	0
1108	Prayagraj	Shankargarh	Pratappur	25.28778	81.55556	8.13	947	0	427	64	2.9	13	40	110	16	17	176	1.0	18	0
1109	Prayagraj	Shankargarh	Gadaya Lonipara	25.09750	81.70306	7.94	1533	0	512	213	1.6	0	82	320	40	53	230	0.0	25	0
1110	Prayagraj	Soraon	Faizullapur	25.49028	81.93167	7.91	1316	0	451	135	0.63	97	55	540	56	96	81	2.7	34	0
1111	Raebareli	Amawan	Block HQ	26.28287	81.30803	7.98	799	0	451	14	0.69	8.3	0	320	48	48	33	5.5	25	0
1112	Raebareli	Chhatoh	Block HQ	26.15987	81.52105	8.11	1577	0	671	128	2.2	0.0	44	220	48	24	255	4.6	21	0
1113	Raebareli	Harichandpur	Block HQ	26.34495	81.16182	7.99	796	0	268	99	0.99	0.0	28	380	60	55	6.2	3.4	25	0
1114	Raebareli	Kheron	Block HQ	26.29174	80.92767	7.73	1414	0	476	178	0.40	10	44	540	132	50	67	11	27	0

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
1115	Raebareli	Lalganj	Block HQ	26.16814	80.97926	8.03	1689	0	659	170	1.5	7.8	53	540	68	89	135	6.4	27	0
1116	Raebareli	Maharajganj	Block HQ	26.38476	81.27438	8.01	1051	0	500	36	0.81	12	39	340	56	48	77	4.9	29	0
1117	Raebareli	Sareni	Block HQ	26.15500	80.82752	8.02	1101	0	549	36	2.0	0.0	36	100	12	17	205	1.3	24	0
1118	Raebareli	Unchahar	In front of Block HQ, from the HP of Bank of Baroda	25.89885	81.29802	7.60	1264	0	561	92	0.87	13	23	380	48	62	109	5.7	25	0
1119	Raebareli	Saraini	Rajapur, Bhojpur	26.14339	80.74134	7.82	792	0	427	14	0.70	17	11	370	60	53	9.4	4.5	28	0
1120	Raebareli	Harchandpur	Majare Tera, Baraula	26.39792	81.04207	7.92	487	0	268	7.1	0.37	9.2	0	190	52	14	23	3.3	27	0
1121	Raebareli	Satawan	Sekhapur, Guru Buxaganj	26.27207	81.02583	8.04	642	0	305	7.1	2.0	8.1	44	160	24	24	72	2.7	25	0
1122	Raebareli	Dalmau	Pakra Girifta, Pure Baisanpurwa	26.14849	81.15824	8.14	1022	0	488	50	1.2	0.0	28	290	32	50	98	5.5	22	0
1123	Raebareli	Rahi	Korchandamau, Bhadokhar	26.15340	81.31026	7.96	679	0	342	21	0.67	6.1	22	260	48	34	35	2.8	25	0
1124	Raebareli	Shivgarh	Chandi Singh ka Purwa	26.53345	81.30264	8.09	525	0	281	7.1	0.72	10	11	190	24	31	30	4.8	23	0
1125	Rampur	Chamrauwa	Majra ladauri	28.68569	78.99998	8.01	445	0	237.9	14	0.35	0	24	100	36	2.4	64	2.0	20	0
1126	Rampur	Saur	Gangawara	29.06865	79.12597	8.00	790	0	414.8	14	0.32	0	38	335	48	52	29	1.9	28	0
1127	Rampur	Saur	Bamna	28.94915	79.28136	7.93	631	0	353.8	7.1	0.36	0	43	250	44	34	44	2.1	25	0
1128	Rampur	Chamrauwa	Kajarhai	28.82769	79.14050	7.90	661	0	366	14	0.30	0	34	280	36	46	35	3.0	25	0
1129	Rampur	Milak	Brijpur	28.67988	79.12907	7.92	637	0	390.4	14	0.32	0	20	320	48	48	19	2.0	21	0
1130	Rampur	Bilaspur	Faiznagar	28.82154	79.28136	8.00	560	0	329.4	14	0.62	0	10	220	44	26	36	2.0	22	0
1131	Rampur	Milak	Hand pump of CHC.	28.61294	79.16812	7.81	750	0	451.4	7.1	0.30	0	23	290	28	53	43	16	22	0

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S. No.	District	Block	Location	Latitude	Longitude	pH	EC µS/cm at 25° C	CO_3	HCO_3	Cl	F	NO_3	SO_4	TH	Ca	Mg	Na	K	SiO_2	PO_4
1132	Rampur	Shahbad	Block office	28.56316	79.01111	7.82	1671	0	366	206	0.34	84	156	580	52	108	103	12	23	0
1133	Rampur	Swar	Block office	29.03280	79.05935	8.12	581	0	305	14	0.28	0	41	260	44	36	23	2.0	26	0
1134	Saharanpur	DEOBAND		29.68708	77.68307	7.92	800	0	329	85	0.81	0	43	310	64	36	46	8.2	27	0
1135	Saharanpur	GANGOH		29.78406	77.26013	7.93	750	0	329	57	0.79	21	31	320	46	49.7	40	5.9	28	0
1136	Saharanpur	NAGAL		29.84271	77.62907	7.62	560	0	354	7	0.74	0	0	240	29	41	24	5.1	25	0
1137	Saharanpur	NAKUR		29.91390	77.30273	7.60	1085	0	415	85	0.45	38	53	345	54	51	98	7.2	25	0
1138	Saharanpur	RAMPUR		29.81354	77.45332	7.54	502	0	268	7	0.86	0	33	230	36	34	13	5.4	27	0
1139	Saharanpur	SADAULI QUDIM		30.20104	77.57729	7.45	515	0	305	7	0.61	0	12	240	29	41	13	1.6	21	0
1140	Saharanpur	SARSAWA		30.01166	77.39926	7.57	848	0	451	50	0.53	0	27	310	50	45	62	6	25	0
1141	Saharanpur	Nanauta	NEAR NAUSAD CHICKEN SHOPE	29.66734	77.36622	7.51	945	0	415	64	0.39	0	48	320	68	36	76	14	29	0
1142	Saharanpur	Sadhauli Kadeem	MANJHALI VILLAGE, SATISH HOUSE	30.18926	77.51715	7.80	556	0	293	14	0.13	11	18	260	56	29	7.5	4.0	15	0
1143	Saharanpur	Sarsawa	NEAR EIDGAH	30.04951	77.50912	7.78	505	0	256	14	0.00	0	34	195	38	24	27	4.4	26	0
1144	Saharanpur	Nanauta	NEAR TEMPLE ON ROAD	29.67852	77.51765	8.03	620	0	256	43	0.21	8.9	35	240	46	30	32	6.3	29	0
1145	Saharanpur	Sadhauli Kadeem	IN SIDE TEMPLE	30.31969	77.64472	7.75	747	0	354	28	0.00	27	29	320	46	50	26	4.2	17	0
1146	Saharanpur	Ballia Kheri	NEAR CHANDER HOUSE	29.93368	77.65357	7.89	506	0	293	7	0.2	9.6	12	190	36.1	24	30	4.3	23	0
1147	Saharanpur	Muzaffarabad	PRIMARY SCHOOL MAURANGPUR	30.17519	77.77448	8.10	443	0	244	7	0.2	23	12	190	42	21	18	0	20	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	District	Block	Location	Latitude	Longitude	pH	EC µS/cm at 25° C	CO_3	HCO_3	Cl	F	NO_3	SO_4	TH	Ca	Mg	Na	K	SiO_2	PO_4
1148	Saharanpur	Muzaffarabad	PRIMARY SCHOOL KAMALPUR	30.05708	77.73974	7.89	482	0	281	7	0.00	5.3	0	170	40	17	40	1.3	14	0
1149	Sambhal	Rajpura		28.41764	78.42975	7.94	544	0	305	14	0.50	0	0	170	64	2.4	46	3.4	26	0
1150	Sambhal	Gunnaur	Sonwasarai	28.29780	78.56730	7.70	478	0	183	28	0.40	28	21	200	64	9.6	14	3.4	24	0
1151	Sambhal	Sambhal	Ibrahimpur Mirza	28.54930	78.71327	7.70	818	0	402.6	57	0.36	0	9.5	300	60	36	52	5.6	32	0
1152	Sambhal	Baniakhera	Narsai	28.43220	78.71327	8.00	460	0	280.6	14	0.34	0	0	210	40	26	18	4.2	29	0
1153	Sambhal	Gunnaur	Block HQ	28.23461	78.44272	7.90	1300	0	366	92	0.30	49	157	400	60	60	91	41.3	28	0
1154	Sant Kabir Nagar	Baghauli	In the Block Office Premises	26.87640	83.08525	7.76	444	0	244	7.1	0.42	0.0	7.6	180	48	14	18	1.7	26	0
1155	Sant Kabir Nagar	Belhar Kalan	In the Block Office Premises behind office of BDO, adjacent to PMAY (Rural) Model Awas	26.97332	83.02016	8.09	632	0	336	14	0.48	0.0	0.0	260	56	28.8	23	3.0	33	0
1156	Sant Kabir Nagar	Haisar Bazar	In the Block Office Premises	26.54617	83.04697	8.02	507	0	244	7.1	0.55	19	15	230	48	26.4	8.3	2.8	22	0
1157	Sant Kabir Nagar	Khalilabad	Inside the PWD Inspection Bunglow right in front of the gate	26.75960	83.08360	7.97	632	0	317	28	0.45	0.0	6.7	260	36	40.8	24	3.4	43	0
1158	Sant Kabir Nagar	Mehndawal	In the Block Office Premises in front of ADO Samaj Kalyan Office	26.96784	83.10205	7.84	691	0	268	64	0.31	0.0	27	290	60	34	22	4.1	31	0
1159	Sant Kabir Nagar	Nnath Nagar	In the Block Office Premises adjacent to बाल विकास परियोजना कार्यालय	26.66120	83.03830	8.34	887	18	439	14	0.29	0.0	6.4	200	36	26.4	108	2.3	30	0
1160	Sant Kabir Nagar	Pauli	In the Block Office Premises	26.58580	82.90190	8.06	594	0	317	14	0.18	0.0	0.0	270	56	31	9.3	3.6	23	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
1161	Sant Kabir Nagar	Santha	In the Block Office Premises LHS of the gate	26.99843	83.04270	8.32	452	12	207	14	0.18	0.0	18	180	52	12	19	3.2	28	0
1162	Sant Kabir Nagar	Semariyawan	In the Block Office Premises	26.88346	82.91747	7.94	620	0	336	11	0.29	0.0	0.0	250	40	36	26	3.3	34	0
1163	Sant Kabir Nagar	Semariyawan	Abbasganj	26.90936	83.00390	8.19	372	0	195	14	0.30	0.0	0.0	160	36	17	9.0	1.7	29	0
1164	Sant Kabir Nagar	Haisar Bazar	Shukul Mundera	26.51016	83.15375	8.01	520	0	293	7.1	0.35	0.0	0.0	210	40	26.4	21	2.0	29	0
1165	Sant Kabir Nagar	Mehndawal	Gagnaibabu/Gagnairao	26.93704	83.12881	7.94	727	0	390	14	0.68	0.0	9.4	160	40	14	91	2.2	23	0
1166	Sant Kabir Nagar	Nath Nagar	Amiya Village; In front of house of Shyam Raj S/o Jagmohan	26.64807	83.04440	8.09	627	0	342	25	0.62	0.0	0.0	190	28	29	67	1.7	30	0
1167	Sant Kabir Nagar	Nath Nagar	Mukundpur village; Adjacent to house of Shri Girish S/o Jaimurth Shukla (Shukla Bhawan)	26.63476	83.00975	7.89	590	0	232	43	0.41	0.0	36	250	68	19	19	3.7	28	0
1168	Sant Kabir Nagar	Nath Nagar	On Mushkilpur road towards Nathnagar Block, nearly 70m from Indian Oil Petrol Pump (Village-Jasovar)	26.65126	83.02617	7.92	458	0	268	7.1	0.35	0.0	0.0	220	48	24	2.5	2.5	31	0
1169	Sant Kabir Nagar	Nath Nagar	Nokta Trijunction on Mushkilpur Road(NH 28), nearly 1.2 km from Nathnagar Block Office beside Peepal Tree.	26.62660	83.02840	7.94	428	0	220	14	0.00	0.0	5.7	160	48	10	19	2.3	26	0
1170	Sant Kabir Nagar	Pauli	Village-Para Hargovind; In front of house of Shri Ramhit near	26.57030	82.94340	7.84	464	0	232	14	0.21	0.0	11	190	40	22	14	3.1	26	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
			Shivji Temple on Ram Janki Marg																	
1171	Sant Kabir Nagar	Pauli	Village- Kharcha; In front of house of Shri Hanuman Prasad Mishra	26.59222	82.88590	7.94	518	0	268	14	0.25	0.0	7.4	220	44	26	13	3.3	30	0
1172	Sant Kabir Nagar	Pauli	Village- Parsa; Near Raj Traders	26.59105	82.88232	7.92	654	0	293	28	0.11	0.0	35	280	68	26	20	6.6	23	0
1173	Sant Kabir Nagar	Pauli	Village- Kheswasiyan; Adjacent to H/o Ram Bharat Yadav S/o Tanku	26.59563	82.88788	7.72	584	0	293	21	0.12	0.0	15	240	64	19	17	4.2	21	0
1174	Sant Kabir Nagar	Santha	Village- Amathari; On RHS of Main road, next to car washing centre & Board of Madarsa Arabia Tali Mul Quran	27.01093	83.03567	8.25	462	0	256	7.1	0.22	0.0	0.0	210	48	22	7.6	3.1	28	0
1175	Sant Kabir Nagar	Santha	Village- Toyam Chapiya, Near Durga Mandir adjacent to H/o Sudama S/o Bansu	26.98065	83.05182	8.24	562	0	305	14	0.40	0.0	0.0	230	64	17	19	3.2	30	0
1176	Sant Kabir Nagar	Santha	Village- Karma Kalan; In front of H/o Radhey Shyam Chaurasiya S/o- Durga Prasad Chaurasiya	27.00324	83.05490	8.25	579	0	317	14	0.44	0.0	0.0	250	68	19	17	2.4	30	0
1177	Sant Kabir Nagar	Santha	Village- Loharsan; Opposite Chotu Auto Garage, Loharsan Market	26.99753	83.02635	7.84	612	0	256	50	0.16	0.0	24	250	52	29	23	4.5	27	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	District	Block	Location	Latitude	Longitude	pH	EC µS/cm at 25° C	CO_3	HCO_3	Cl	F	NO_3	SO_4	TH	Ca	Mg	Na	K	SiO_2	PO_4
1178	Sant Ravidas Nagar	Suriyawan	Bhidua	25.37680	82.43160	8.09	594	0	366	14	0.58	0	0	190	40	22	59	3.1	32	0
1179	Sant Ravidas Nagar	Abholi	Block Office	25.44667	82.36917	7.99	769	0	366	21	1.1	10	33	220	32	34	68	5.1	35	0
1180	Sant Ravidas Nagar	Aurai	Block Office	25.25972	82.55389	7.60	581	0	219.6	50	0.80	5.5	14	220	60	17	24	1.5	31	0
1181	Sant Ravidas Nagar	Bhadohi	Block Office	25.39528	82.56417	7.92	1712	0	817.4	7.1	0.83	106.7	70	570	48	108	119.8	7.1	36	0
1182	Sant Ravidas Nagar	Deegh	Block Office	25.29722	82.30389	7.97	740	0	366	28	1.00	17	25	290	36	48	42	1.8	26	0
1183	Sant Ravidas Nagar	Gyanpur	Block Office	26.33440	82.47080	8.14	898	0	469.7	35	0.70	0	10	270	32	46	79	5.2	26	0
1184	Sant Ravidas Nagar	Suriyawan	Block Office	25.46083	82.42694	8.00	901	0	317.2	85	0.91	18	41	300	52	41	64	3.0	36	0
1185	Shahjahanpur	Nigohi	Block HQ	28.10293	79.86527	8.37	844	6	427	21	0.46	7.5	11	340	64	43	27	26.0	32	0
1186	Shahjahanpur	Sindhauli	Block HQ	27.97037	79.97421	8.10	1257	0	561.2	92	0.50	0	0	440	36	84	80	2.7	36	0
1187	Shahjahanpur	Jalalabad	Block HQ	27.72222	79.66490	8.42	451	6	219.6	14	0.30	0	5.2	170	48	12	24	3.0	29	0
1188	Shahjahanpur	Kalan	Block HQ	27.70331	79.44550	7.94	930	0	292.8	85	0.18	0	81	290	64	31	80	3.6	31	0
1189	Shahjahanpur	Dadraul	Block HQ(in premises of block)	27.83672	79.87013	8.35	792	6	378.2	14	0.30	0	31	130	44	5	118	2.7	24	0
1190	Shahjahanpur	Jaitipur	Block HQ(in premises of block)	27.99392	79.57051	8.04	507	0	268.4	14	0.37	0	0	220	44	26	14	3.1	26	0
1191	Shahjahanpur	Mirzapur	Block HQ(in premises of block)	27.67052	79.54801	8.25	754	0	414.8	7.1	1.27	0	16	120	24	14	116	3.3	24	0
1192	Shahjahanpur	Khutar	Block HQ(in premises of block)	28.20825	80.26980	7.54	667	0	305	36	0.22	0	25	280	52	36	18	4.8	27	0
1193	Shahjahanpur	Bhawal Khera	Block HQ(in premises of block)	27.83940	79.91986	7.68	694	0	366	21	0.26	0	10	290	44	43	23	4.5	25	0
1194	Shahjahanpur	Khutar	Nawazpur	28.15194	80.23957	8.16	525	0	244	14	0.00	0	22	230	48	26	10	4.5	28	0

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S. No.	District	Block	Location	Latitude	Longitude	pH	EC µS/cm at 25° C	CO_3	HCO_3	Cl	F	NO_3	SO_4	TH	Ca	Mg	Na	K	SiO_2	PO_4
1195	Shahjahanpur	Khutar	Chandpur	28.31849	80.30901	8.20	554	0	237.9	28	0.29	0	17	240	56	24	9	3.7	26	0
1196	Shahjahanpur	Khutar	Haripur	28.44850	80.29425	7.94	560	0	256.2	11	0.27	0	31	260	56	29	4	3.2	24	0
1197	Shahjahanpur	Banda	Bhabhi	28.27895	80.00264	8.18	342	0	158.6	7.1	0.12	0	30	160	36	17	3	3.2	24	0
1198	Shahjahanpur	Katra	Rampur	28.05237	79.71287	8.00	550	0	292.8	7.1	0.19	0	9.2	230	48	26	18	3.7	26	0
1199	Shahjahanpur	Dadrol	Sahbajnagar	27.91733	79.88350	7.90	886	0	323.3	25	0.34	0	115	350	56	50	39	5.7	27	0
1200	Shahjahanpur	Nigohi	Chainpura	28.18387	79.87032	8.05	1324	0	305	135	0.50	51	136	460	56	77	70	11.1	34	0
1201	Shahjahanpur	Banda	Mouddinpur	28.30645	80.10815	8.18	560	0	244	21	0.00	0	31	250	48	31	8	5.7	19	0
1202	Shahjahanpur	Sindhauli	Kaluwapur	28.06562	80.00828	8.05	632	0	311.1	11	0.15	0	23	260	48	34	21	3.7	28	0
1203	Shahjahanpur	Jaitpur	Nagra	27.91768	79.60831	8.20	427	0	195.2	14	0.42	0	20	190	48	17	8	2.4	21	0
1204	Shahjahanpur	Jalalabad	Masulpur (Nayagaon)	27.81892	79.60141	8.10	464	0	244	7.1	0.24	0	5.4	195	44	20	13	3.4	30	0
1205	Shahjahanpur	Kalan	Dewada	27.77766	79.41330	7.96	586	0	305	18	0.34	0	0	200	40	24	39	3.9	31	0
1206	Shahjahanpur	Bhawal Khera	Azizpur	27.83200	79.98934	7.94	662	0	353.8	7.1	0.48	0	17	270	40	41	22	5.3	30	0
1207	Shamli	KAIRANA		29.39971	77.21693	8.02	755	0	415	28	0.68	0	19	210	44	24	92	5.7	22	0
1208	Shamli	KANDHALA		29.32300	77.26654	8.03	1140	0	354	156	0.56	32	42	435	106	41	72	7.4	23	0
1209	Shamli	THANA BHAWAN		29.59136	77.42609	8.09	462	0	281	7	0.6	0	0	160	38	16	41	4.8	23	0
1210	Shamli	Kairana	KANDELA	29.42866	77.24505	8.07	1175	0	671	28	0.79	5.8	19	180	42	18	208	5.9	28	0
1211	Shamli	Kandhala	NEAR FAIZU HOUSE	29.29370	77.38649	7.66	685	0	403	14	0.36	6	6.1	265	46	36	46	5.7	31	0
1212	Shamli	Kandhala	ISLAMPUR GHASAULI	29.29731	77.24368	7.94	878	0	500	14	1.05	12	36.0	360	36	66	52	9.2	26	0

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S. No.	District	Block	Location	Latitude	Longitude	pH	EC µS/cm at 25° C	CO_3	HCO_3	Cl	F	NO_3	SO_4	TH	Ca	Mg	Na	K	SiO_2	PO_4
1213	Shravasti	Hariharpur Rani HQ	Block Campus	27.74000	81.83222	7.57	689	0	427	14	0.50	0	5.0	260	68	22	50	2.3	22	0
1214	Shravasti	Ikauna	Block Office	27.52750	81.96778	7.38	1292	0	561	113	0.2	0	44	300	68	31	172	7.0	30	0
1215	Shravasti	Gilaula	Dikauli	27.65079	81.73578	7.84	541	0	329	7.1	0.31	0	13	220	64	14	28	3.2	24	0
1216	Shravasti	Ikauna	Jai Chandpur Khatghara	27.52916	81.88530	8.03	487	0	293	7.1	0.34	0	12	250	56	26	6.1	2.8	25	0
1217	Shravasti	Sirsiya	Ratanpur	27.80311	81.96402	7.69	1025	0	342	121	0.3	48	43	400	116	26	62	1.9	25	0
1218	Shravasti	Ikauna	Naratpur	27.42940	81.99628	7.79	679	0	378	28	0.25	5.0	9.8	260	64	24	46	1.8	30	0
1219	Shravasti	Sirsiya	Bhujanga	27.80310	81.96410	7.97	491	0	305	7.1	0	5.0	5.0	250	64	22	7.4	1.5	33	0
1220	Siddharthnagar	Barhni HQ	Block Campus	27.48917	82.77694	7.62	702	0	439	7.1	0.73	0	0	250	80	12	55	0	16	0
1221	Siddharthnagar		Rohnihwa	27.47291	82.84423	7.55	1023	0	427	57	0.78	80	61	500	100	60	30	1.5	24	0
1222	Siddharthnagar		Garuar Kothi	27.48950	82.76932	7.87	921	0	537	14	0.74	0	41	150	36	14	160	1.9	25	0
1223	Siddharthnagar		Bharaul, near Indian Oil Petrol Pump	27.46158	82.79996	7.75	588	0	342	14	0.76	0	7.5	250	66	20	27	1.8	24	0
1224	Siddharthnagar		Campus of PWD Barhni	27.49720	82.78400	7.24	1315	0	598	78	0.49	0	55	440	140	22	107	1.6	23	0
1225	Siddharthnagar	Bansi HQ	Block Campus	27.17167	82.92917	7.77	988	0	476	64	0.45	0	22	410	64	60	48	3.5	30	0
1226	Siddharthnagar		Shonkhar Chauraha near Aara mil.	27.20191	82.94893	7.97	939	0	549	14	0.76	0	14	140	36	12	160	2.0	21	0
1227	Siddharthnagar		Dearia, near house of Shri Girdhari	27.12745	82.95504	7.88	686	0	415	14	0.53	0	5.0	295	72	28	24	4.0	31	0
1228	Siddharthnagar		Pathkauli Market, near HP petrol pump	27.17432	82.95607	7.69	448	0	256	14	0.29	0	6.0	220	64	14	7.5	1.3	17	0
1229	Siddharthnagar		Baiduhi kala, near small pulia and 3 km from	27.16923	82.89841	7.82	611	0	366	14	0.70	0	5.0	250	56	26	36	2.5	29	0

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
			bansi on bansi dumariyaganj road.																	
1230	Siddharthnagar	Birdpur HQ	300 m from Block campus, near house of Shri Shove Nath	27.34222	83.11000	7.55	924	0	403	78	0.46	0	59	300	64	34	96	2.7	26	0
1231	Siddharthnagar		Shri Ramneresh Yadav House, Naudihwa	27.35622	83.14544	7.47	1050	0	354	128	0.41	0	37	351	83	35	74	1.4	29	0
1232	Siddharthnagar		Harnampur more, near durga mandir, on birdpur to kapil vastu road.	27.38807	83.12049	7.79	692	0	415	14	0.85	0	9.6	200	40	24	81	1.3	25	0
1233	Siddharthnagar		Basalatpur, RHS on Birdpur to Chiliya near Shri Pervej house.	27.37268	83.09294	7.76	560	0	329	14	0.6	0	5.0	243	47	30	21	7.7	23	0
1234	Siddharthnagar		Madhubany chauraha, near house of Shri Kaladhar Dubey.	27.34019	83.09195	7.45	920	0	390	85	0.27	10	27	320	79	29	77	3.4	31	0
1235	Siddharthnagar	Jogiya HQ	Block Campus	27.25278	83.00806	7.07	691	0	427	14	0.56	0	5.0	250	50	30	59	1.9	30	0
1236	Siddharthnagar			27.23830	82.99810	7.65	628	0	403	7.1	0.41	0	0	280	68	26	27	2.4	22	0
1237	Siddharthnagar		In the campus of gyan uday vidya mandir and 4 km from jogiya on jogiya to udaipur road	27.27308	82.99021	7.73	570	0	354	7.1	0.88	0	11	260	48	34	21	1.6	23	0
1238	Siddharthnagar		Karaudha, on Bansi to Naugarh road	27.26829	83.03031	7.74	542	0	329	14	0.42	0	0	210	4	48	38	3.0	28	0
1239	Siddharthnagar		Sajni village	27.25175	83.04087	7.64	711	0	439	21	0.35	0	0	260	48	34	59	4.7	21	0
1240	Siddharthnagar	Domariaganj	Murgihwa	27.16607	82.44575	8.03	577	0	366	7.1	0.4	0	5.0	190	56	12	58	2.8	31	0

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
1241	Siddharthnagar	Domariaganj	Gabgwar Chauraha	27.16773	82.66379	7.47	697	0	329	57	0	12	11	250	72	17	60	2.0	31	0
1242	Siddharthnagar	Khuniyaw	Bhaluani	27.27775	82.87415	7.94	563	0	342	7.1	0	10	0	240	72	14	21	2.9	33	0
1243	Siddharthnagar	Barhani	Jhulnipur Chauraha	27.41769	82.88544	7.58	688	0	439	7.1	0.35	0	0	290	60	34	41	1.1	26	0
1244	Siddharthnagar	Khesrha	Sishoniya	27.15113	82.99745	7.82	779	0	451	14	0.36	0	5.0	260	60	26	65	2.4	24	0
1245	Siddharthnagar	Birdpur	Parsa Belhari	27.40476	83.16276	7.81	509	0	329	7.1	0.33	0	0	200	52	17	32	1.3	27	0
1246	Siddharthnagar	Uska bazar	Block Campus	27.19556	83.11528	7.78	537	0	317	21	0	0	5.0	210	52	19	35	3.8	23	0
1247	Siddharthnagar	Khuniyaw	Block Campus	27.27889	82.75667	8.04	686	0	415	14	0.34	0	0	300	72	29	32	3.1	30	0
1248	Siddharthnagar	Itwa	Block Campus	27.32167	82.69306	8.02	471	0	281	7.1	0	0	5.6	200	56	14	22	2.2	28	0
1249	Siddharthnagar	Lotan	Block Campus	27.29000	83.24167	8.03	528	0	342	7.1	0.22	0	0	190	60	10	46	2.0	33	0
1250	Siddharthnagar	Mithawal	Block Campus	27.16389	82.91556	8.12	494	0	293	14	0	0	0	230	56	22	16	2.4	26	0
1251	Siddharthnagar	Khesraha	Block Campus	27.07278	82.98722	7.92	490	0	317	7.1	0	0	0	200	52	17	29	2.7	27	0
1252	Siddharthnagar	Dumariyaganj	Block Campus	27.19417	82.65167	7.97	738	0	378	50	0	0	8.9	340	92	26	26	3.0	34	0
1253	Siddharthnagar	Bhanwapur	Block Campus	27.26333	82.64528	8.03	556	0	317	21	0.39	0	6.6	260	80	14	18	3.2	20	0
1254	Siddharthnagar	Shoharatgarh	Block Campus	27.38167	82.95500	8.04	509	0	293	7.1	0.44	0	6.0	220	64	14	20	2.5	24	0
1255	Siddharthnagar	Naugarh	Block Campus	27.27056	83.08444	7.75	708	0	403	28	0.26	0	5.0	300	56	38	38	3.0	25	0
1256	Sitapur	Aliya	Block Office	27.67773	80.65304	7.70	1041	0	366	85	0.64	39	43	390	76	48	41	36	25	0
1257	Sitapur	Behta	Block Office	27.73039	81.14357	7.97	620	0	366	7.1	0.11	0.0	18	270	60	29	31	4.7	30	0
1258	Sitapur	Bisawan	Block Office	27.48430	80.99154	7.81	638	0	402.6	7.1	0.25	0.0	5.6	315	80	28	16	2.8	32	0

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Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	District	Block	Location	Latitude	Longitude	pH	EC µS/cm at 25° C	CO_3	HCO_3	Cl	F	NO_3	SO_4	TH	Ca	Mg	Na	K	SiO_2	PO_4
1259	Sitapur	Godalamau	Block Office	27.34864	80.65263	7.89	751	0	439.2	14	0.62	0.0	14	350	64	46	28	4.7	33	0
1260	Sitapur	Hargaon	Block Office	27.76667	80.72820	7.82	673	0	366	28	0.48	0.0	12	330	72	36	15	4.6	21	0
1261	Sitapur	Kasmanda	Block Office	27.38621	80.81788	7.88	624	0	347.7	14	0.52	0.0	25	325	68	37	4.7	4.2	24	0
1262	Sitapur	Khairabad	Block Office	27.53327	80.74748	7.96	723	0	427	14	1.22	0.0	8.8	305	52	42	39	4.8	28	0
1263	Sitapur	Laharpur	Block Office	27.72013	80.89399	7.85	651	0	335.5	28	0.00	0.0	16	285	96	11	27	4.7	28	0
1264	Sitapur	Machharehta	Block Office	27.42225	80.64362	7.99	818	0	402.6	57	0.41	5.5	22	330	80	31	53	4.8	28	0
1265	Sitapur	Mahmoodabad	Block Office	27.30339	81.12354	7.86	656	0	305	43	0.23	0.0	23	305	76	28	19	4.8	24	0
1266	Sitapur	Misrikh	Block Office	27.44333	80.53401	7.91	782	0	408.7	28	0.34	0.0	26	295	64	32	56	5.1	27	0
1267	Sitapur	Moholi	Block Office	27.66462	80.47246	7.73	770	0	427	21	0.00	18	18	360	60	50	28	4.3	30	0
1268	Sitapur	Pahla	Block Office	27.37316	81.06177	7.91	545	0	317.2	14	0.00	0.0	10	260	80	14	17	3.0	31	0
1269	Sitapur	Parsendi	Block Office	27.58032	80.84279	7.92	630	0	378.2	21	0.65	0.0	5.3	270	72	22	31	4.1	28	0
1270	Sitapur	Pisawan	Block Office	27.58860	80.40257	7.95	601	0	347.7	14	0.13	0.0	17	255	68	20	33	4.8	27	0
1271	Sitapur	Rampur Mathura	Block Office	27.36375	81.31786	7.78	549	0	292.8	14	0.13	0.0	19	250	76	14	19	4.2	18	0
1272	Sitapur	Rewsa	Block Office	27.54864	81.21063	7.72	870	0	475.8	28	0.31	0.0	21	320	92	22	70	4.0	23	0
1273	Sitapur	Sakaran	Block Office	27.57312	81.06009	7.86	835	0	408.7	39	0.23	0.0	21	300	68	31	60	5.3	27	0
1274	Sitapur	Sidhauli	Block Office	27.28292	80.82946	7.74	1135	0	536.8	64	0.16	35	36	490	96	60	59	5.5	30	0
1275	Sitapur	Misrikh	Nimsar	27.34472	80.48472	7.71	438	0	219.6	7.1	0.14	9.5	8.5	165	40	16	15	2.9	27	0
1276	Sitapur	Khairabad	Saraiya Sani	27.52278	80.82667	7.79	782	0	396.5	57	0.17	0.0	20	315	60	40	45	4.6	29	0

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Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
1277	Sitapur	Parsendi	Kasrela	27.59361	80.79750	7.82	515	0	305	14	0.34	0.0	0	210	48	22	25	4.1	29	0
1278	Sitapur	Machhrehta	Sadila	27.47250	80.58444	7.71	610	0	372.1	14	0.52	0.0	0	260	64	24	23	4.3	28	0
1279	Sitapur	Gondlamau	Karanpur	27.37500	80.61778	7.91	658	0	353.8	21	0.91	14	27	320	68	36	15	4.6	25	0
1280	Sitapur	Hargaon	Sekhwapur	27.76389	80.77833	7.81	840	0	500.2	14	0.76	0.0	24	330	72	36	59	5.4	29	0
1281	Sitapur	Sidhauli	Jallabad	27.23806	80.82667	7.95	619	0	353.8	14	0.31	0.0	13	260	60	26	31	4.3	29	0
1282	Sitapur	Behta	Erapur	27.73639	81.02222	7.75	779	0	439.2	21	0.15	0.0	36	290	96	12	58	3.3	23	0
1283	Sitapur	Sakran	Palhari	27.53889	81.14222	7.90	681	0	414.8	14	0.31	0.0	11	190	48	17	83	4.8	30	0
1284	Sitapur	Pahala	Kanchanpur	27.41111	81.04500	8.04	358	0	170.8	14	0.44	0.0	22	160	40	14	6.5	3.1	19	0
1285	Sitapur	Mahmudabad	Bahoranpur	27.37167	81.23250	7.55	918	0	427	71	0.00	0.0	41	345	92	28	70	6.6	26	0
1286	Sonbhadra	Kone	Harvaria	24.34830	83.37440	7.78	590	0	292.8	28	1.2	16	27	150	32	17	81	1.5	34	0
1287	Sonbhadra	Myorpur	Nakkhu	24.00550	82.82650	7.82	502	0	292.8	14	1.5	5.2	7.0	170	44	14	47	2.0	40	0
1288	Sonbhadra	Chopan	Thari	24.44730	82.82580	7.85	492	0	256.2	21	0.25	0	12	190	28	29	27	4.2	20	0
1289	Sonbhadra	Chopan	Nivarhi	24.55770	82.81820	8.01	466	0	256.2	14	0.45	6.5	14	210	32	31	16	1.3	27	0
1290	Sonbhadra	Babhani	Mohua Dohar	23.90960	82.91680	7.77	726	0	366	28	1.9	21	38	170	20	29	108	0.0	44	0
1291	Sonbhadra	Myorpur	Liladewa	23.99280	82.94020	7.84	576	0	305	21	1.6	12	14	180	32	24	57	5.0	36	0
1292	Sonbhadra	Chopan	Bharahari	24.58950	82.91870	7.53	475	0	292.8	7.1	0.33	7.6	5.2	180	40	19	39	0.0	25	0
1293	Sonbhadra	Chopan	Guradah	24.60440	82.93900	7.57	650	0	378.2	14	0.56	12	13	305	44	47	22	0.0	24	0
1294	Sonbhadra	Babhani	Adhoura	23.91110	83.03480	7.84	425	0	207.4	14	2.0	10	22	110	36	4.8	54	2.1	40	0

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Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
1295	Sonbhadra	Myorpur	Chak Chapki	23.97860	83.01090	7.67	424	0	158.6	21	0.78	8.8	60	170	56	7.2	26	0.0	44	0
1296	Sonbhadra	Myorpur	Dewri	24.08420	83.01730	7.67	674	0	195.2	35	1.3	92	51	260	56	29	35	2.0	52	0
1297	Sonbhadra	Myorpur	Duki Nala	24.26470	83.02020	7.73	443	0	146.4	21	0.32	64	26	155	44	11	34	0.0	33	0
1298	Sonbhadra	Chopan	Judwani Panari	24.35500	83.02160	7.66	292	0	134.2	21	0.26	9.7	0	100	24	9.6	22	0.0	16	0
1299	Sonbhadra	Chopan	Vilemar Kundi	24.45450	83.01860	7.66	707	0	305	50	0.33	15	40	320	40	53	23	0.0	18	0
1300	Sonbhadra	Robertsganj	Baluee	24.61460	83.03360	7.79	428	0	195.2	28	0.42	22	13	130	40	7.2	46	0.0	38	0
1301	Sonbhadra	Babhani	Adhoura	23.92370	83.10930	7.93	521	0	244	14	1.1	21	33	210	48	22	29	2.3	55	0
1302	Sonbhadra	Myorpur	Lovuhan	24.08290	83.11560	7.87	496	0	256.2	14	2.1	14	21	150	52	4.8	54	0.0	68	0
1303	Sonbhadra	Dudhi	Ashram Mod	24.17310	83.11710	7.71	921	0	427	50	0.68	20	41	160	20	26	146	2.5	31	0
1304	Sonbhadra	Dudhi	Navgai	24.26530	83.12340	7.68	318	0	134.2	14	0.29	21	14	90	24	7.2	31	0.0	28	0
1305	Sonbhadra	Chopan	Chikradhawd	24.34920	83.10390	7.73	388	0	170.8	21	0.29	10	18	110	36	4.8	38	0.0	29	0
1306	Sonbhadra	Kone	Padrach	24.44790	83.15430	7.82	643	0	329.4	21	0.33	7.0	27	190	32	26	66	1.4	13	0
1307	Sonbhadra	Nagawa	Cherue	24.54980	83.12980	7.82	601	0	274.5	57	0.17	11	0	290	44	43	12	1.1	16	0
1308	Sonbhadra	Myorpur	Baina	24.00340	83.21470	7.93	945	0	353.8	57	0.90	43	61	370	64	50	45	4.6	35	0
1309	Sonbhadra	Myorpur	Nodiya	24.08150	83.21390	8.11	1326	0	536.8	64	2.0	102.6	91	530	60	91	84	2.6	66	0
1310	Sonbhadra	Dudhi	Birar	24.23450	83.21840	7.71	568	0	237.9	21	0.61	82	10	150	44	9.6	70	0.0	35	0
1311	Sonbhadra	Kone	Murkatti	24.35220	83.21860	7.84	548	0	280.6	14	0.38	27	16	170	52	9.6	54	0.0	25	0
1312	Sonbhadra	Kone	Rogahi	24.44380	83.20290	7.95	797	0	463.6	14	1.7	0	26	275	40	42	75	0.0	57	0

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
1313	Sonbhadra	Nagawa	Kodai	24.53270	83.22170	7.80	223	0	128.1	7.1	0.24	0	0	80	24	4.8	18	1.8	12	0
1314	Sonbhadra	Kone	Joru Khar	24.24650	83.31700	7.85	824	0	402.6	43	1.4	18	34	170	40	17	123	1.9	30	0
1315	Sonbhadra	Kone	Naudiha	24.44140	83.27090	8.10	590	0	317.2	14	0.51	9.0	0	195	56	13	46	1.2	27	0
1316	Sonbhadra	Nagawa	Keotam	24.62120	83.32610	7.92	341	0	158.6	21	0.13	9.0	17	155	32	18	12	3.6	16	0
1317	Sonbhadra	Nagawa	Majuhi	24.61990	83.42080	7.43	148	0	73.2	14	0.00	0	0	60	16	4.8	8.7	1.1	15	0
1318	Sonbhadra	Nagawa	Dhobi	24.70980	83.45370	7.61	229	0	73.2	28	0.00	20	6.0	90	24	7.2	14	1.6	16	0
1319	Sonbhadra	Nagawa	Madpa	24.61860	83.50960	8.14	549	0	268.4	35	0.35	23	9.6	175	40	18	57	0.0	29	0
1320	Sonbhadra	Ghorawal	Gohrawal	24.74840	82.78030	8.01	1661	0	414.8	227	0.34	93	47	550	180	24	106	5.3	23	0
1321	Sonbhadra	Ghorawal	Duter	24.71590	82.97530	7.90	854	0	353.8	85	0.68	8.6	27	330	48	50	52	0.0	26	0
1322	Sonbhadra	Karma	Sisiriya	24.85460	82.96370	7.83	551	0	341.6	7.1	0.45	10	0	170	48	12	60	1.2	21	0
1323	Sonbhadra	Robertsganj	Jigna	24.73200	83.12660	7.90	587	0	323.3	21	0.58	25	7.7	230	56	22	42	0.0	19	0
1324	Sonbhadra	Chatra	Karawndia	24.64100	83.25240	7.81	480	0	268.4	14	0.44	7.4	0	190	56	12	25	0.0	36	0
1325	Sonbhadra	Anpara	Block Office	24.20498	82.79668	7.76	574	0	152.5	50	0.70	36	53	210	52	19	32	1.3	60	0
1326	Sonbhadra	Asandih	Block Office	23.90080	83.15017	7.80	555	0	219.6	28	0.60	22	31	200	40	24	33	0.0	60	0
1327	Sonbhadra	Babhani	Babhani	23.95028	83.07694	7.70	670	0	244	50	1.5	5.0	60	220	60	17	53	3.8	53	0
1328	Sonbhadra	Chopan	Chopan	24.51333	83.02306	8.00	686	0	292.8	43	1.1	0	43	210	60	14	61	0.0	21	0
1329	Sonbhadra	Kakrahi	Block Office	24.74941	82.84436	7.70	1505	0	390.4	213	1.1	65	49	500	136	38	99	7.2	21	0
1330	Sonbhadra	Renukoot	Block Office	24.21955	83.03550	7.60	1050	0	317.2	128	1.00	11	52	330	72	36	80	1.3	23	0

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1331	Sonbhadra	Robertganj	Robertganj	24.65639	83.05861	7.70	754	0	305	85	1.00	0	0	220	48	24	71	0.0	13	0
1332	Sonbhadra	Sdhartidand	Block Office	24.64669	83.04952	8.05	455	0	231.8	21	0.90	0	5.6	120	28	12	48	1.1	13	0
1333	Sultanpur	Akhand Nagar	Block HQ	26.20305	82.57903	8.13	732	0	415	7.1	0.44	0.0	7.5	290	36	48	30	3.7	25	0
1334	Sultanpur	Dostpur	Block HQ	26.27015	82.46609	7.80	917	0	488	21	0.36	0.0	22	310	36	53	66	3.4	30	0
1335	Sultanpur	Dubeypur	Block HQ	26.23880	82.03613	7.76	699	0	403	7.1	0.67	0.0	9.2	310	48	46	16	3.5	24	0
1336	Sultanpur	Jaisinghpur	BDO Office	26.28105	82.24727	8.01	561	0	293	14	0.75	0.0	12	240	44	31	16	2.0	27	0
1337	Sultanpur	Kurwar	Near NHS Dugwell Kurwar	26.35518	81.97415	7.79	801	0	403	14	0.72	0.0	37	300	48	43	43	4.0	29	0
1338	Sultanpur	P.P. Kannaicha	Block HQ	26.07066	82.30442	7.87	596	0	268	14	0.53	9.2	39	260	48	34	13	2.9	30	0
1339	Sultanpur	Jaisinghpur	Hiyatnagar Kabra	26.26883	82.15327	7.72	535	0	305	7.1	0.38	5.3	0	220	48	24	20	3.5	32	0
1340	Sultanpur	Jaisinghpur	Jaisinghpur Sonupara	26.39709	82.29169	8.12	499	0	281	7.1	0.33	0.0	9.4	210	44	24	17	2.6	26	0
1341	Sultanpur	Akhand Nagar	Mangal Nagar, Kunda Bhairopur	26.27278	82.56094	7.99	599	0	317	21	0.56	0.0	7.3	240	32	38	26	2.8	26	0
1342	Unnao	Asoha	------do-----	26.58735	80.82995	7.45	1284	0	280.6	170	0.36	0.0	231	565	168	35	55	4.8	30	0
1343	Unnao	Auras	Hand pump HP of block office Near generator room.	26.91462	80.50208	7.81	883	0	402.6	53	0.68	0.0	68	270	44	38	99	3.6	27	0
1344	Unnao	Bangermau	------do-------	26.84880	80.31210	7.82	578	0	305	11	0.35	12	14	195	68	6.0	34	4.3	27	0
1345	Unnao	Bichia	------do-----	26.53531	80.62523	7.69	768	0	457.5	28	0.70	0.0	6.5	315	60	40	37	6.8	30	0
1346	Unnao	Bighapur	Bighapur	26.35220	80.66526	7.74	710	0	414.8	7.1	1.53	0.0	0	275	40	42	45	4.8	28	0
1347	Unnao	Fatehpur Chourasi	Block office near PHC	26.79530	80.27170	7.72	552	0	183	50	0.39	0.0	30	135	48	3.6	52	3.4	16	0
1348	Unnao	Ganj Muradabad	------do--------	26.95955	80.18408	7.53	1051	0	500.2	57	0.36	29	36	360	68	46	70	6.0	33	0

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Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
1349	Unnao	Hasanganj	-----do------	26.77280	80.63140	7.80	495	0	280.6	21	0.27	0.0	7.5	210	52	19	20	3.0	26	0
1350	Unnao	Hilauli	Block office	26.45679	80.94113	7.63	828	0	463.6	36	0.28	0.0	24	270	60	29	77	6.1	29	0
1351	Unnao	Miyaganj	Block office	26.80220	80.48440	7.81	565	0	305	21	0.39	0.0	12	234	56	23	31	5.7	26	0
1352	Unnao	Nawabganj	Block office	26.62105	80.67590	7.67	2254	0	732	199	0.53	0.0	346	423	80	54	346	7.6	26	0
1353	Unnao	Purwa	Hand pump infront of Old Tehsil & Thana.	26.46005	80.76672	7.78	835	0	500.2	21	0.59	0.0	9.1	265	40	40	76	3.5	29	0
1354	Unnao	Safipur	Block office	26.63280	80.31970	7.75	1051	0	329.4	114	0.85	66	42	430	96	46	31	5.6	27	0
1355	Unnao	Sikanderpur Karan	------do-----	26.44074	80.54853	7.63	723	0	402.6	36	0.52	0.0	0	260	72	19	46	4.8	26	0
1356	Unnao	Sikanderpur Sirausi	In front of block office near turning road tochoura village	26.53431	80.45125	7.73	799	0	469.7	21	1.02	0.0	0	285	56	35	70	3.7	27	0
1357	Unnao	Sumerpur	------do-----	26.28174	80.80725	7.66	980	0	536.8	28	1.21	0.0	36	230	44	29	119	4.1	28	0
1358	Unnao	Fatehpur Chaurasi	Daboli	26.73417	80.20528	7.82	3230	0	542.9	383	0.90	0.0	680	485	112	49	566	39	15	0
1359	Unnao	Auras	Bada Dev	26.86972	80.58444	7.88	793	0	475.8	14	0.56	0.0	10	295	56	37	63	6.4	32	0
1360	Unnao	Nawabganj	Hasanapur	26.63694	80.78417	8.07	629	0	335.5	21	1.15	0.0	17	225	24	40	39	3.2	24	0
1361	Unnao	Bighapur	Inda Mau	26.32417	80.72778	8.17	915	0	579.5	14	1.19	0.0	6.1	110	16	17	167	5.6	22	0
1362	Unnao	Hasanganj	Hasewan	26.76333	80.57028	7.79	745	0	427	28	0.11	0.0	13	325	92	23	25	7.2	32	0
1363	Unnao	Asoha	Darsawa	26.55417	80.78944	8.02	428	0	231.8	11	1.12	0.0	23	195	48	18	11	3.9	26	0
1364	Varanasi	Pindra	Teerathpur	25.49520	82.84000	8.03	683	0	402.6	21	0.59	0	9.0	200	44	22	80	2.0	29	0
1365	Varanasi	Chiraigaon	Chhitouna	25.36840	83.12350	7.90	896	0	488	43	0.40	0	0	260	60	26	94	3.1	31	0

Analytical results of Pre Monsoon and Post Monsoon Data:

Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	District	Block	Location	Latitude	Longitude	pH	EC µS/cm at 25° C	CO_3	HCO_3	Cl	F	NO_3	SO_4	TH	Ca	Mg	Na	K	SiO_2	PO_4
1366	Varanasi	Varanasi Urban	Shivpur	25.36440	82.94560	7.87	578	0	305	28	0.22	9.8	0	240	56	24	28	2.6	35	0
1367	Varanasi	Varanasi Urban	Gilat Bazar	25.35030	82.96810	7.84	927	0	451.4	71	0.30	19	0	280	52	36	93	3.5	34	0
1368	Varanasi	Varanasi Urban	Bhagatpur	25.36580	82.96390	8.00	607	0	372.1	7.1	0.42	0	0	170	40	17	66	2.8	33	0
1369	Varanasi	Varanasi Urban	BHU Campus	25.27160	82.98540	8.20	608	0	353.8	14	0.56	0	0	240	72	14	31	2.5	32	0
1370	Varanasi	Varanasi Urban	Gopichat Gully	25.28780	82.98790	7.66	1425	0	549	106	1.4	54	74	380	56	58	155	3.0	29	0
1371	Varanasi	Varanasi Urban	Singra	25.30750	82.98350	7.60	778	0	305	57	0.64	14	42	270	56	31	53	3.6	32	0
1372	Varanasi	Varanasi Urban	Nanak Nagar	25.31690	82.98990	7.85	840	0	366	50	0.95	0	39	300	40	48	51	2.0	26	0
1373	Varanasi	Varanasi Urban	Dhupchandi	25.34670	82.98710	7.91	1130	0	536.8	50	0.95	16	27	230	36	34	149	1.9	28	0
1374	Varanasi	Varanasi Urban	Akatha	25.35700	82.99320	7.87	1202	0	500.2	78	1.2	40	47	440	48	77	72	4.2	48	0
1375	Varanasi	Varanasi Urban	Assi	25.28730	83.00360	7.82	776	0	317.2	57	1.2	0	36	300	48	43	36	1.5	27	0
1376	Varanasi	Varanasi Urban	Nai Sarak	25.31210	83.00480	8.07	765	0	292.8	71	0.70	0	37	250	48	31	58	5.0	21	0
1377	Varanasi	Varanasi Urban	Jaitpura	25.32710	83.00580	7.82	1328	0	378.2	156	0.80	17	106	460	76	65	86	8.2	26	0
1378	Varanasi	Varanasi Urban	Ashok Nagar	25.34690	83.00930	7.91	578	0	329.4	7.1	0.50	6.0	0	250	56	26	16	2.7	31	0
1379	Varanasi	Varanasi Urban	Srinagar colony	25.36690	82.00560	7.79	558	0	268.4	21	0.90	15	10	240	52	26	16	2.3	37	0
1380	Varanasi	Varanasi Urban	Konia	25.32820	83.03190	7.84	1035	0	378.2	92	0.60	42	35	400	64	58	47	6.9	38	0
1381	Varanasi	Baragaon	Baragaon	25.42972	82.80611	7.90	920	0	378.2	57	0.64	14	54	300	36	50	69	5.4	30	0
1382	Varanasi	Cholapur	Cholapur	25.49667	82.99722	8.00	887	0	439.2	28	1.00	0	30	310	28	58	58	2.6	27	0
1383	Varanasi	Harhua	belwaria	25.39972	82.97000	8.00	540	0	305	7.1	1.00	0	0	230	52	24	17	2.0	31	0

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Pre monsoon (Basic)Chemical data 2023-24 CGWB, NR , Lucknow																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO_3**	**HCO_3**	**Cl**	**F**	**NO_3**	**SO_4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO_2**	**PO_4**
1384	Varanasi	Kashi Vidya Peeth	Kashi Vidya Peeth	25.30639	82.96278	8.00	1465	0	610	92	0.65	55	54	460	48	82	105	32	32	0
1385	Varanasi	Sewapuri	Sewapuri	25.36611	82.74806	8.07	820	0	451.4	14	1.1	8.6	6.2	250	36	38	70	3.3	28	0
1386	Varanasi	Chiraigaon	Block Office	25.38028	83.05583	7.84	581	0	292.8	21	0.48	11	6.6	240	52	26	22	2.0	32	0

Pre monsoon (Heavy Metals)Chemical data 2023-24 CGWB, NR , LUCKNOW													
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**Cr (mg/L)**	**Fe (mg/L)**	**Mn (mg/L)**	**Cu (mg/L)**	**Zn (mg/L)**	**As (mg/L)**	**Pb (mg/L)**	**U (mg/L)**
1	Agra	Achhnera	Block office	27.17744	77.74618	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.017
2	Agra	Agra	City (Sai ki Takia Crossing)	27.17066	78.00954	0.000	0.190	0.000	0.000	0.455	0.000	0.002	0.018
3	Agra	Bah	Block office	26.86968	78.58929	0.000	0.000	0.000	0.000	0.517	0.000	0.000	0.005
4	Agra	Barauli Ahir	Block office	27.12062	78.06014	0.000	0.000	0.000	0.000	0.069	0.000	0.001	0.015
5	Agra	Bichpuri	Block office	27.17265	77.89188	0.000	0.000	0.000	0.000	0.182	0.000	0.000	0.012
6	Agra	Fatehabad	Block office	27.02974	78.29618	0.000	0.359	0.053	0.000	0.000	0.000	0.000	0.004
7	Agra	Fatehpur Sikri	Block office	27.09424	77.66783	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013
8	Agra	Jagner	Block office	26.86657	77.60168	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.006
9	Agra	Jaitpur Kalan	Near BDO Office	25.42970	82.80610	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.037
10	Agra	Khandauli	Block office	27.31646	78.02961	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.011
11	Agra	Kheragarh	Block office	26.95524	77.82219	0.000	0.000	0.000	0.000	1.297	0.000	0.002	0.005
12	Agra	Saiyan	Block office	26.93603	77.93505	0.001	0.000	0.000	0.000	0.068	0.000	0.001	0.007
13	Agra	Shamsabad	SBI near Block Office	27.01357	78.12330	0.000	0.220	0.062	0.000	0.324	0.000	0.000	0.021
14	Agra	Fatehpur Sikri	Hiraman	27.03504	77.78254	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.012
15	Agra	Achhnera	Raunakata	27.23413	77.87340	0.000	0.306	0.000	0.000	0.000	0.000	0.000	0.010
16	Agra	Shamsabad	Lohaita	26.97949	78.04510	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.011
17	Agra	Etmadpur	Amanabad (Kanarau Chauraha)	27.39408	78.20177	0.000	0.127	0.056	0.000	0.161	0.000	0.000	0.004
18	Agra	Barauli Ahir	Sayed (Kundol)	27.13127	78.16612	0.000	0.363	0.000	0.000	0.444	0.000	0.000	0.012

Pre monsoon (Heavy Metals)Chemical data 2023-24 CGWB, NR , LUCKNOW													
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19	Agra	Bah	Agra-Bah Road	26.90727	78.45653	0.000	0.200	0.831	0.000	0.111	0.000	0.000	0.000
20	Agra	Bah	Poora Guman Singh	27.81774	78.58951	0.000	0.318	0.184	0.000	0.000	0.001	0.000	0.004
21	Agra	Jaitpur Kalan	Gadhwar	26.87417	78.69784	0.000	0.157	0.000	0.000	0.051	0.001	0.000	0.005
22	Agra	Akola	Block Office	27.07150	77.74620	0.000	0.207	0.058	0.000	0.211	0.000	0.001	0.025
23	Aligarh	Akbarabad	Block H.Q.	27.80500	78.27120	0.000	0.231	0.107	0.000	0.242	0.000	0.004	0.022
24	Aligarh	Aligarh	District H.Q.	27.89757	78.07295	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
25	Aligarh	Atrauli	Block H.Q.	28.04420	78.28110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	Aligarh	Bijauli	Block H.Q.	27.97890	78.39970	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.052
27	Aligarh	Chandaus	Block H.Q.	28.08052	77.85811	0.000	0.125	0.000	0.000	2.073	0.000	0.003	0.012
28	Aligarh	Dhanipur	Block H.Q.	27.87427	78.11378	0.000	0.370	0.000	0.000	0.080	0.000	0.007	0.014
29	Aligarh	Gangiri	Block H.Q.	27.92540	78.39120	0.000	0.113	0.000	0.000	0.195	0.000	0.002	0.014
30	Aligarh	Gonda	Block H.Q.	27.83670	77.87960	0.000	0.125	0.118	0.000	0.611	0.000	0.003	0.062
31	Aligarh	Iglas	Block H.Q.	27.70620	77.93940	0.000	0.176	0.000	0.000	3.245	0.000	0.003	0.018
32	Aligarh	Jawan	Block H.Q.	28.03330	78.11620	0.000	0.214	0.000	0.000	0.163	0.001	0.001	0.028
33	Aligarh	Khair	Block H.Q.	27.94350	77.83640	0.000	0.255	0.144	0.000	0.648	0.000	0.000	0.146
34	Aligarh	Lodha	Block H.Q.	27.89330	78.02070	0.000	0.055	0.000	0.000	0.498	0.000	0.003	0.029
35	Aligarh	Tappal	Block H.Q.	28.04280	77.57917	0.000	0.201	0.183	0.000	0.125	0.000	0.001	0.030
36	Aligarh	Iglas	Nama	27.61766	77.94871	0.000	0.271	0.000	0.000	0.066	0.000	0.001	0.010

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37	Aligarh	Dhanipur	Alinagar	27.85379	78.10709	0.000	0.217	0.000	0.000	0.313	0.000	0.001	0.012
38	Aligarh	Gonda	Rudyat Urf Tarapur	27.84189	77.89171	0.000	0.000	0.000	0.000	0.118	0.013	0.000	0.035
39	Aligarh	Tappal	Langotgarhi	28.01968	77.71377	0.000	0.176	0.000	0.000	0.264	0.000	0.000	0.023
40	Aligarh	Gonda	Kalua	27.76775	77.87020	0.003	0.000	0.000	0.000	0.226	0.002	0.000	0.024
41	Aligarh	Gonda	Dayapur	27.64796	77.86903	0.000	0.543	0.106	0.000	0.000	0.000	0.000	0.013
42	Aligarh	Iglas	Makhdampur	27.77229	78.00962	0.000	0.000	0.000	0.000	0.125	0.000	0.000	0.037
43	Aligarh	Dhanipur	Shahwazpur	27.77820	78.15044	0.000	0.132	0.060	0.000	0.166	0.000	0.000	0.043
44	Aligarh	Gangiri	Sunhara	27.89941	78.28548	0.000	0.000	0.000	0.000	0.055	0.000	0.000	0.008
45	Aligarh	Aligarh Urban	Beema Nagar	27.90594	78.04660	0.000	0.084	0.774	0.000	0.471	0.000	0.000	0.073
46	Aligarh	Aligarh Urban	Arya Nagar, Nagla Masani	27.88380	78.05480	0.000	0.000	0.000	0.000	0.659	0.000	0.000	0.017
47	Aligarh	Aligarh Urban	Roravar	27.87246	78.04612	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.024
48	Aligarh	Aligarh Urban	Firdaus Nagar	27.92828	78.06708	0.000	0.081	0.069	0.000	0.107	0.000	0.000	0.016
49	Aligarh	Aligarh Urban	Bada Chowk, Sarai Rehman	27.89379	78.07001	0.000	0.468	0.000	0.000	0.355	0.000	0.001	0.041
50	Aligarh	Aligarh Urban	Mahendra Nagar, Aawas Vikas Colony	78.07314	27.86790	0.000	0.073	0.122	0.021	3.780	0.000	0.000	0.021
51	Aligarh	Aligarh Urban	Dohra Maffi	27.92827	78.08977	0.000	0.000	0.000	0.000	0.212	0.000	0.000	0.033
52	Aligarh	Aligarh Urban	Kela Nagar Market	27.90393	78.09037	0.000	0.095	0.000	0.000	0.639	0.000	0.001	0.034
53	Aligarh	Aligarh Urban	Gyan Sarovar, Ramesh Vihar Colony	27.89111	78.08943	0.000	0.000	0.251	0.000	0.577	0.000	0.002	0.021
54	Aligarh	Aligarh Urban	Kailash Nagar	27.87113	78.09718	0.000	0.091	0.000	0.000	0.331	0.000	0.000	0.021

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55	Aligarh	Aligarh Urban	Shankar Vihar Colony, Quarsi	78.11550	27.90404	0.000	0.405	0.145	0.000	0.681	0.000	0.000	0.007
56	Aligarh	Aligarh Urban	Asadpur Kayam,Kyampur	27.88606	78.11438	0.000	0.119	0.000	0.000	0.182	0.000	0.000	0.022
57	Ambedkar Nagar	Akberpur	Block HQ	26.43624	82.54440	0.000	0.709	0.000	0.000	1.199	0.000	0.000	0.005
58	Ambedkar Nagar	Baskhari	Block HQ	26.45477	82.76523	0.000	0.082	0.000	0.000	0.126	0.001	0.001	0.000
59	Ambedkar Nagar	Bhiti	Block HQ	26.47154	82.30549	0.000	1.657	0.109	0.000	0.668	0.001	0.000	0.000
60	Ambedkar Nagar	Bhiyaon	Block HQ	26.23815	82.82727	0.000	0.233	0.000	0.000	0.139	0.000	0.000	0.010
61	Ambedkar Nagar	Jahangirganj	Block HQ	26.35308	83.02287	0.000	0.594	0.083	0.000	1.020	0.000	0.000	0.004
62	Ambedkar Nagar	Jalalpur	Block HQ	26.30987	82.73370	0.000	0.122	0.193	0.000	0.375	0.000	0.000	0.005
63	Ambedkar Nagar	Katehari	Block HQ	26.48789	82.44964	0.000	0.626	0.074	0.000	0.378	0.001	0.000	0.003
64	Ambedkar Nagar	Ramnagar	Block HQ	26.44633	82.90453	0.000	0.492	0.000	0.000	0.385	0.002	0.000	0.003
65	Ambedkar Nagar	Tanda	Block HQ	26.53864	82.64000	0.000	2.719	0.056	0.000	0.000	0.000	0.000	0.000
66	Ambedkar Nagar	Baskhari	Parsaye, Ekdalla Dihawar	26.52284	82.72306	0.000	0.541	0.077	0.000	0.000	0.000	0.002	0.005
67	Ambedkar Nagar	Baskhari	Shadipur	26.51905	82.85793	0.000	0.442	0.000	0.000	0.179	0.000	0.002	0.006
68	Ambedkar Nagar	Jalalpur	Dhaurua (Pendiya)	26.26686	82.58388	0.000	0.268	0.000	0.000	0.164	0.000	0.001	0.010
69	Amethi	Bahadurpur	Block HQ	26.26678	81.51818	0.001	1.110	0.075	0.000	0.582	0.000	0.000	0.025
70	Amethi	Tiloee	Block HQ	26.39280	81.47084	0.000	0.406	0.051	0.000	0.916	0.000	0.000	0.028
71	Amethi	Amethi	PWD Dak Bangla	26.15618	81.80860	0.000	0.000	0.120	0.000	0.618	0.000	0.000	0.052
72	Amethi	Bhetya	Block HQ	26.21066	81.87518	0.000	1.858	0.077	0.000	0.000	0.000	0.000	0.012

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73	Amethi	Gauriganj	PWD Entrance, Near Bike Stand	26.20681	81.68707	0.001	7.891	0.063	0.000	0.438	0.000	0.000	0.000
74	Amethi	Jagdishpur	Block HQ	26.45599	81.62883	0.000	0.678	0.278	0.000	0.680	0.000	0.000	0.016
75	Amethi	Sangrampur	Block HQ	26.07751	81.83804	0.000	1.687	0.000	0.000	0.767	0.000	0.000	0.009
76	Amethi	Musafir Khana	Block HQ	26.37775	81.80047	0.002	0.691	0.070	0.000	0.716	0.000	0.000	0.043
77	Amethi	Bahadurpur	Kesariya Salimpur	26.28083	81.44259	0.001	0.558	0.149	0.000	0.330	0.000	0.000	0.021
78	Amethi	Shukul Bazar	Mahona West, Kuraishi Mohalla	26.53346	81.58725	0.000	2.868	0.056	0.000	0.320	0.000	0.000	0.004
79	Amethi	Musafir Khana	Musafirkhana, Rasoolabad	26.39883	81.87271	0.000	0.292	0.000	0.000	0.476	0.000	0.000	0.016
80	Amroha	Dhanaura	Papsari Khadar	29.30401	78.11760	0.000	0.345	0.000	0.000	0.188	0.001	0.002	0.004
81	Amroha	Dhanaura	Sultanpur	28.93184	78.15407	0.000	0.551	0.155	0.000	0.059	0.005	0.001	0.007
82	Amroha	Amroha	Shaikhpura Imma	28.92669	78.41705	0.000	0.103	0.100	0.000	0.055	0.002	0.001	0.008
83	Amroha	Hasanpur	Sabadarpur SARKI	28.67512	78.41279	0.000	2.757	0.216	0.000	0.000	0.000	0.002	0.007
84	Amroha	Gangeshwari	Sikandarpur Shebu	28.54739	78.41133	0.000	0.145	0.000	0.000	0.057	0.002	0.002	0.000
85	Amroha	Joya	Patai	28.80624	78.55628	0.000	7.171	0.053	0.000	0.424	0.000	0.000	0.007
86	Amroha	Amroha	Block office	28.90419	78.48593	0.000	0.000	0.000	0.000	0.884	0.000	0.000	0.005
87	Amroha	Hasanpur	Block office	28.73178	78.28194	0.000	0.377	0.473	0.000	0.142	0.000	0.001	0.003
88	Amroha	Joya	Block office	28.83557	78.47319	0.000	0.097	0.366	0.000	0.104	0.001	0.002	0.064
89	Auraiya	Airwa Katra	Airwa Katra Block Office	26.88848	79.42835	0.000	0.000	0.000	0.000	0.197	0.000	0.001	0.020
90	Auraiya	Airwa Katra	Kaba	26.85928	79.46146	0.000	0.000	0.000	0.000	0.229	0.000	0.001	0.003

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91	Auraiya	Achalda	Achalda Block Office	26.69954	79.40270	0.000	0.151	0.097	0.000	0.109	0.001	0.000	0.022
92	Auraiya	Ajitmal	Ajitmal Block Office	26.56578	79.31875	0.000	0.000	0.000	0.000	0.990	0.000	0.000	0.015
93	Auraiya	Ajitmal	Akbarpur	26.50781	79.32634	0.004	0.000	0.000	0.000	0.000	0.001	0.000	0.031
94	Auraiya	Auraiya	Auraiya Block Office	26.46610	79.50392	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.016
95	Auraiya	Bhagyanagar	Bhagyanagar Block Office	26.61164	79.49781	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.020
96	Auraiya	Sahar	Ramgarh	26.70243	79.51726	0.000	0.212	0.000	0.000	0.217	0.000	0.001	0.010
97	Auraiya	Sahar	Piluaa	26.65560	79.60234	0.000	0.312	0.000	0.000	0.000	0.000	0.000	0.008
98	Auraiya	Sahar	Sahar Block Office	26.75847	79.60017	0.000	0.000	0.000	0.000	0.348	0.000	0.000	0.044
99	Auraiya	Sahar	Gapariyapur	26.72113	79.59094	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.014
100	Auraiya	Sahar	Asu	26.68334	79.63808	0.000	0.302	0.289	0.000	0.087	0.000	0.000	0.024
101	Auraiya	Sahar	Bholapur	26.73674	79.68923	0.007	0.090	0.000	0.000	0.000	0.001	0.001	0.048
102	Auraiya	Sahar	Yakubpur	26.76409	79.71491	0.001	0.276	0.182	0.000	0.000	0.001	0.000	0.035
103	Auraiya	Sahar	Purwa Udai	26.76686	79.56154	0.000	0.233	0.238	0.000	0.159	0.000	0.000	0.023
104	Auraiya	Bidhuna	Bidhuna Block Office	26.80250	79.50242	0.000	0.372	0.220	0.000	1.283	0.000	0.000	0.019
105	Auraiya	Bidhuna	Kashari	26.82945	79.60814	0.000	0.170	0.061	0.000	0.144	0.000	0.000	0.028
106	Auraiya	Bidhuna	Ruru Ganj	26.76930	79.45427	0.000	0.332	0.000	0.000	0.127	0.000	0.000	0.016
107	Ayodhya	Amaniganj	Block HQ	26.58989	81.76909	0.000	0.841	0.141	0.000	0.104	0.000	0.000	0.007
108	Ayodhya	Bikapur	Block HQ , Near Peepal Tree	26.59490	82.13880	0.000	1.348	0.115	0.000	0.932	0.018	0.000	0.000

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109	Ayodhya	Haringtonganj	Left to the entrance of Block HQ gate	26.55450	82.02040	0.000	0.348	0.157	0.000	0.000	0.004	0.000	0.000
110	Ayodhya	Masodha	Block HQ	26.73384	82.14017	0.000	0.538	0.080	0.000	0.000	0.002	0.002	0.000
111	Ayodhya	Mayabazar	Near Thana Maharajganj	26.64514	82.33258	0.000	2.834	0.161	0.000	0.000	0.004	0.000	0.000
112	Ayodhya	Milkipur	Block HQ, Near Prerna Canteen	26.62771	81.94320	0.000	0.126	0.059	0.000	0.000	0.000	0.000	0.008
113	Ayodhya	Purabazar	Block HQ	26.70232	82.26667	0.000	0.080	0.000	0.000	0.343	0.000	0.000	0.003
114	Ayodhya	Sohawal	Block HQ	26.79363	81.87408	0.000	0.165	0.000	0.000	0.000	0.003	0.000	0.005
115	Ayodhya	Tarun	Block HQ	26.55024	82.24201	0.000	0.180	0.000	0.000	0.426	0.001	0.000	0.000
116	Ayodhya	Mawai	Block HQ	26.74435	81.58564	0.000	5.683	0.000	0.000	0.492	0.000	0.000	0.000
117	Ayodhya	Rudauli	Block HQ	26.78081	81.75506	0.000	1.012	0.114	0.000	0.294	0.004	0.000	0.003
118	Ayodhya	Rudauli	Jakhwa, Amaniganj	26.64688	81.73922	0.000	0.383	0.000	0.000	0.000	0.000	0.001	0.005
119	Ayodhya	Sohawal	Ramnagar, Dhaurhara	26.79363	81.87408	0.003	0.000	0.000	0.000	0.000	0.003	0.000	0.000
120	Ayodhya	Milkipur	Vijay Pathak ka Purwa	26.65556	82.02008	0.000	0.710	0.000	0.000	0.000	0.000	0.002	0.006
121	Ayodhya	Bikapur	Shukl ka Purwa	26.52895	82.15828	0.000	3.256	0.100	0.000	0.199	0.008	0.001	0.007
122	Ayodhya	Maya Bazar	Dilasiganj	26.64980	82.39198	0.000	0.687	0.060	0.000	0.582	0.000	0.000	0.004
123	Azamgarh	Tahbarpur	Basai Bande Daspur	26.12834	83.02992	0.000	0.224	0.034	0.000	0.065	0.000	0.001	0.006
124	Azamgarh	Jahanganj	Block Office	25.95909	83.26673	0.000	0.140	0.022	0.000	0.066	0.000	0.001	0.023
125	Azamgarh	Haraiya	Sahbadiya Sultanpur	25.25075	83.41022	0.000	1.392	0.070	0.000	0.288	0.022	0.001	0.000
126	Azamgarh	Ahiraula	Block Office	26.17514	82.89244 0	0.000	0.760	0.000	0.000	0.051	0.000	0.001	0.007

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127	Azamgarh	Thekma	Block Office	25.86340	82.92628	0.000	0.217	0.054	0.000	2.071	0.000	0.004	0.104
128	Azamgarh	Palhana	Block office	25.78446	83.09023	0.000	0.000	0.005	0.000	0.069	0.006	0.001	0.074
129	Azamgarh	Maharajganj	Block Office	25.26076	83.11155	0.000	0.503	0.176	0.000	0.398	0.027	0.000	0.000
130	Azamgarh	Mohammadpur	Block Office	25.96242	83.02766	0.002	11.565	0.334	0.029	5.784	0.000	0.007	0.010
131	Baghpat	Baghpat	In block office	28.94399	77.22007	0.000	0.619	0.170	0.000	0.074	0.000	0.001	0.010
132	Baghpat	Baraut	In block office	29.10699	77.26438	0.000	0.866	0.000	0.000	0.135	0.000	0.000	0.017
133	Baghpat	Chaprauli	In block office	29.20812	77.17869	0.000	0.000	0.000	0.000	0.130	0.000	0.000	0.000
134	Baghpat	Khekra	In block office	28.86913	77.28847	0.000	0.309	0.062	0.000	0.996	0.000	0.001	0.017
135	Baghpat	Pilana	In block office	28.93623	77.37222	0.000	0.000	0.163	0.000	2.445	0.000	0.001	0.015
136	Baghpat	Baghpat	NEAR JAI PAL SINGH HOUSE	29.03267	77.23539	0.000	0.638	0.212	0.000	0.433	0.000	0.000	0.011
137	Baghpat	Binauli	PUSAR VILLAGE	29.16523	77.38683	0.000	0.183	0.057	0.000	0.597	0.000	0.000	0.019
138	Baghpat	Khekra	ENTRANCE OF DHARIMPUR	28.77600	77.37603	0.000	0.298	0.000	0.000	0.270	0.000	0.000	0.004
139	Baghpat	Baraut	GARHI KANGRAN	29.19737	77.42204	0.000	0.000	0.000	0.000	0.000	0.028	0.000	0.004
140	Bahraich	Tejawapur HQ	Block Campus	27.53139	81.49583	0.000	5.365	0.323	0.000	0.215	0.068	0.001	0.000
141	Bahraich	Huzurpur	Block Campus	27.35278	81.66583	0.000	4.719	0.086	0.000	0.000	0.103	0.002	0.000
142	Bahraich	Mahasi HQ	Block Campus	27.63972	81.38750	0.000	4.513	0.275	0.000	0.052	0.031	0.001	0.000
143	Bahraich	Shivpur HQ	Block Campus	27.81083	81.39333	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.005
144	Bahraich	Fakharpur	Block Office	27.41944	81.52639	0.000	0.000	0.571	0.000	0.000	0.012	0.000	0.000

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145	Bahraich	Mihipurwa	Block Office	28.02556	81.38361	0.000	0.413	0.102	0.000	0.183	0.016	0.000	0.000
146	Bahraich	Mihipurwa	Mote Baba	28.29610	81.17030	0.000	1.624	0.000	0.000	0.060	0.001	0.000	0.000
147	Bahraich	Balha	Shiyapura	27.98114	81.31029	0.000	0.946	0.057	0.000	0.160	0.009	0.003	0.000
148	Bahraich	Mihipurwa	Saryou link canal	28.07334	81.33086	0.000	0.240	0.083	0.000	0.086	0.002	0.000	0.000
149	Bahraich	Mahasi	Godmar khurd	27.54422	81.40649	0.000	3.474	0.159	0.000	0.067	0.024	0.000	0.000
150	Bahraich	Mahasi	Mahua Chauraha	27.68271	81.33429	0.000	1.582	0.265	0.000	0.000	0.013	0.001	0.004
151	Bahraich	Shivpur	Baundi	27.82184	81.37150	0.000	2.274	0.114	0.000	0.000	0.040	0.000	0.000
152	Bahraich	Fakharpur	Kodahi	27.43009	81.46252	0.000	4.730	0.162	0.000	0.000	0.022	0.000	0.000
153	Bahraich	Balha	New Basti Chairaha	27.96084	81.46243	0.000	0.853	0.159	0.000	0.000	0.014	0.001	0.000
154	Bahraich	Kaisarganj	Jodhiya Nim	27.26894	81.51593	0.000	0.451	0.220	0.000	0.067	0.000	0.002	0.000
155	Bahraich	Jarwal	Nasirganj, Barauli Ghat	27.16010	81.51392	0.000	1.613	0.533	0.000	0.000	0.035	0.000	0.000
156	Bahraich	Risiya	Darjinpurwa	27.81928	81.60981	0.000	0.693	0.127	0.000	0.000	0.003	0.000	0.000
157	Bahraich	Bisheshwarganj	Loharipurwa	27.41145	81.88291	0.000	0.321	0.000	0.000	0.000	0.001	0.001	0.000
158	Ballia	Sohaon	Chitbaragoan	25.73440	83.98120	0.000	1.554	0.101	0.000	0.000	0.000	0.001	0.007
159	Ballia	Maniyar	Pilui Fattepur	25.99024	84.14443	0.000	5.973	0.168	0.000	0.000	0.000	0.000	0.004
160	Ballia	Bansdeeh	Block Office	25.87439	84.21642	0.000	5.176	0.335	0.000	2.615	0.000	0.007	0.027
161	Ballia	Belhari	Block Office	25.77881	84.30445	0.000	8.989	0.179	0.000	1.292	0.015	0.001	0.002
162	Ballia	Chilkahar	Block Office	25.82529	83.96436	0.000	0.183	0.068	0.000	3.722	0.000	0.001	0.009

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163	Ballia	Murali Chhapara	Block Office	25.72846	84.50528	0.000	1.716	0.521	0.000	1.880	0.052	0.001	0.005
164	Ballia	Rasara	Block Office	25.86830	83.86164	0.000	3.393	0.033	0.000	1.017	0.000	0.001	0.004
165	Ballia	Bairya	Block Office	25.79578	84.47864	0.000	5.084	0.057	0.000	0.229	0.007	0.002	0.002
166	Ballia	Dubahar	Block Office	25.77011	84.17503	0.000	1.710	0.000	0.000	0.028	0.024	0.002	0.000
167	Ballia	Reoti	Block Office	25.84180	84.37180	0.000	1.200	0.084	0.000	0.161	0.093	0.002	0.000
168	Ballia	Sohaon	Block Office	25.62909	84.00429	0.000	4.155	0.079	0.000	0.187	0.085	0.002	0.000
169	Balrampur	Balrampur HQ	Block Campus	27.42861	82.17111	0.000	0.633	0.110	0.000	1.848	0.000	0.000	0.000
170	Balrampur	Balrampur	Ganga Didba, 5 km from Balrampur towards Tulsipur	27.43410	82.21549	0.000	11.919	0.180	0.000	0.000	0.001	0.000	0.000
171	Balrampur	Balrampur	Infront of Mishra Auto Sales, near Balrampur chini mil	27.40928	82.15749	0.000	0.000	0.149	0.000	0.000	0.000	0.001	0.000
172	Balrampur	Balrampur	Near house of Kaji Gausulwara, on Utraula Balrampur road and 200 m from bipass of Bahrich.	27.40944	82.18301	0.000	2.250	0.176	0.000	0.274	0.012	0.000	0.000
173	Balrampur	Balrampur	Near Indian Oil Petrol Pump, and 5 km from Balrampur block on Balrampur to Bahraich Road.	27.45983	82.14262	0.000	0.163	0.141	0.000	0.059	0.006	0.000	0.000
174	Balrampur	Gaidas Buzurg HQ	Block Campus	27.26361	82.42083	0.000	0.768	0.122	0.000	0.000	0.025	0.000	0.000
175	Balrampur	Gaidas Buzurg	Salapur village	27.23128	82.42429	0.000	0.105	0.407	0.000	0.000	0.000	0.000	0.000
176	Balrampur	Gaidas Buzurg	Dubra Autarpur	27.26114	82.43733	0.000	5.246	0.057	0.000	0.143	0.004	0.000	0.000

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177	Balrampur	Gaidas Buzurg	Raza jot village, near Durga Mandir	27.28370	82.40702	0.000	0.875	0.126	0.000	0.071	0.006	0.001	0.000
178	Balrampur	Gainsadi HQ	Block Campus	27.52944	82.54750	0.000	0.330	0.000	0.000	0.817	0.000	0.000	0.007
179	Balrampur	Gainsadi	Bakauli	27.53300	82.56448	0.000	0.000	0.929	0.000	0.000	0.000	0.000	0.011
180	Balrampur	Gainsadi	Near Railway station Gaisadi	27.52758	82.54710	0.000	0.000	0.566	0.000	0.000	0.000	0.000	0.027
181	Balrampur	Gainsadi	Durgapur village,back side of durgapur Police Station and 6km from sonepur more	27.58126	82.50569	0.000	0.000	0.246	0.000	0.000	0.000	0.001	0.000
182	Balrampur	Rehra Bazar HQ	Block Campus	27.18167	82.27861	0.000	0.000	0.102	0.000	0.148	0.001	0.000	0.000
183	Balrampur	Rehra Bazar	Patel chauraha	27.21450	82.29920	0.000	0.000	0.266	0.000	0.000	0.001	0.001	0.006
184	Balrampur	Rehra Bazar	4.2 km from rehar bazar towards mankapur, adjusent to durga ji mandir.	27.15866	82.26063	0.000	0.295	0.094	0.000	0.062	0.000	0.001	0.006
185	Balrampur	Rehra Bazar	Near house of Shri Ram plash, 3.4 km from rehar bazar, near patel chauraha	27.20572	82.26076	0.000	0.593	0.112	0.000	1.082	0.005	0.000	0.000
186	Balrampur	Rehra Bazar	Sugauwa more, 4 km from rehar bazar towards Bhalihanjot.	27.17223	83.30737	0.000	0.000	0.085	0.000	0.000	0.000	0.001	0.000
187	Balrampur	Harraiya Satgharwa	Block Office	27.63611	82.17444	0.000	1.494	0.202	0.000	0.000	0.000	0.000	0.011
188	Balrampur	Tulsipur	Block Office	27.52222	82.29556	0.000	0.089	0.307	0.000	0.109	0.000	0.000	0.000
189	Balrampur	Utraula	Block Office	27.32139	82.40750	0.000	0.168	0.207	0.000	1.585	0.000	0.002	0.000
190	Balrampur	Harraya Satgawa	Laliya Village	27.57126	82.13757	0.000	1.374	0.070	0.000	0.000	0.019	0.001	0.000

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191	Balrampur	Shri Datt Ganj	Nauradih	27.28467	82.29640	0.000	0.920	0.088	0.000	0.861	0.002	0.000	0.000
192	Balrampur	Harraya Satgawa	Haraiya Bazar	27.65591	82.27939	0.000	0.635	0.133	0.000	0.000	0.007	0.000	0.009
193	Balrampur	Gainsara	Tharunia	27.39198	82.44914	0.000	0.000	0.142	0.000	0.000	0.000	0.000	0.009
194	Balrampur	Gainsara	Sonepur More	27.52978	82.48769	0.000	2.101	0.000	0.000	0.000	0.117	0.001	0.000
195	Balrampur	Gainsara	Kushahwa	27.62993	82.51902	0.000	0.000	0.089	0.000	0.000	0.000	0.000	0.003
196	Balrampur	Pachpherwa	Shivpur More	27.45114	82.45114	0.000	2.368	0.000	0.000	0.000	0.107	0.000	0.000
197	Balrampur	Gainsara	Chandarpur	27.66203	82.65529	0.000	0.000	0.353	0.000	0.000	0.000	0.000	0.004
198	Balrampur	Pachperwa	Barhni Mai Mandir	27.41855	82.73506	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
199	Balrampur	Pachperwa	Majigwa Khurd	27.54511	82.72581	0.000	0.000	0.053	0.000	0.111	0.000	0.000	0.007
200	Balrampur	Sriduttganj	Block Campus	27.37525	82.30129	0.000	0.848	0.102	0.000	0.254	0.000	0.002	0.009
201	Balrampur	Pachperva	Block Campus	27.53188	82.60090	0.000	2.453	0.098	0.000	0.423	0.005	0.001	0.000
202	Banda	Bisanda	Oran	25.37147	80.73852	0.003	0.252	0.000	0.000	1.119	0.000	0.002	0.004
203	Banda	Naraini	Manohar purwa (Turra)	25.26437	80.60071	0.000	0.503	0.000	0.000	0.121	0.000	0.002	0.028
204	Banda	Naraini	Prashidhhapur	25.13505	80.61434	0.000	0.103	0.000	0.000	0.000	0.000	0.002	0.007
205	Banda	Badokhar Khurd	Kanwara	25.51321	80.32261	0.000	0.195	0.000	0.000	0.546	0.000	0.001	0.000
206	Banda	Badokhar Khurd	Kahriya	25.57874	80.37490	0.000	0.323	0.000	0.000	0.145	0.000	0.002	0.005
207	Banda	Jaspura	Sindhan Kalan	25.77942	80.44207	0.000	0.080	0.000	0.000	0.092	0.000	0.004	0.004
208	Banda	Jaspura	Narauli	25.86037	80.44357	0.000	0.166	0.000	0.000	0.000	0.000	0.001	0.029

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209	Banda	Tindwari	Bhujrakh	25.64415	80.58788	0.000	0.323	0.000	0.000	0.122	0.000	0.001	0.005
210	Banda	Baberu	Kaji Tola	25.64555	80.72434	0.000	0.169	0.000	0.000	0.000	0.000	0.002	0.007
211	Banda	Kamasin	Mau	25.61522	80.86930	0.006	0.093	0.000	0.000	0.000	0.000	0.004	0.018
212	Banda	Kamasin	Itarra Badhauni	25.49063	80.99112	0.000	0.169	0.000	0.000	0.064	0.000	0.003	0.004
213	Banda	Baberu	Murwal	25.51695	80.56042	0.002	0.154	0.000	0.000	0.000	0.000	0.001	0.004
214	Banda	Badokhar Khurd	Jaurahi	25.48114	80.43166	0.000	0.212	0.000	0.000	0.180	0.000	0.001	0.004
215	Banda	Mahuwa	Kacchi Sadak	25.25037	80.43445	0.000	0.324	0.000	0.000	1.794	0.000	0.002	0.000
216	Banda	Badokhar Khurd	Chamraha	25.38574	80.17366	0.000	0.078	0.000	0.000	0.473	0.000	0.003	0.017
217	Banda	Naraini	Naraini	25.18482	80.47166	0.000	0.194	0.060	0.000	0.000	0.000	0.000	0.009
218	Banda	Badokhar Khurd	Badokhar Khurd	25.45147	80.35328	0.000	0.000	0.000	0.000	1.228	0.000	0.002	0.008
219	Banda	Baberu	Baberu	25.53828	80.69601	0.008	1.124	0.179	0.000	0.940	0.000	0.003	0.003
220	Banda	Badokhar Khurd	Banda(HQ)	25.48109	80.33086	0.004	1.300	0.000	0.000	0.122	0.000	0.002	0.006
221	Barabanki	Bani Kodar	Block Office	26.79300	81.52400	0.000	1.669	0.106	0.000	0.000	0.004	0.000	0.000
222	Barabanki	Banki	Block Office	26.93040	81.18410	0.000	0.986	0.080	0.000	0.399	0.000	0.000	0.007
223	Barabanki	Dariyabad	Block Office	26.88850	81.55690	0.000	0.450	0.000	0.000	0.149	0.000	0.000	0.006
224	Barabanki	Dewa	Block Office	27.03570	81.17060	0.000	1.395	0.108	0.000	0.000	0.003	0.000	0.000
225	Barabanki	Fatehpur	Block Office	27.17430	81.21580	0.000	0.823	0.100	0.000	0.051	0.001	0.000	0.000
226	Barabanki	Haidergarh	Block Office	26.60460	81.36330	0.000	0.364	0.089	0.000	0.325	0.000	0.000	0.011

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227	Barabanki	Harak	Block Office	26.85530	81.22850	0.000	2.740	0.108	0.000	0.068	0.002	0.000	0.006
228	Barabanki	Masauli	Block Office	26.98090	81.32210	0.000	1.101	0.059	0.000	0.085	0.001	0.000	0.000
229	Barabanki	Nindura	Block Office	27.12140	81.07270	0.000	1.562	0.098	0.000	0.124	0.000	0.000	0.012
230	Barabanki	Puredalal	Block Office	26.86860	81.71030	0.000	0.408	0.000	0.000	0.000	0.000	0.000	0.000
231	Barabanki	Ramnagar	Block Office	27.08520	81.40530	0.000	3.613	0.209	0.000	0.104	0.006	0.000	0.000
232	Barabanki	Siddhaur	Block Office	27.30050	83.09450	0.000	0.000	0.062	0.000	0.000	0.001	0.000	0.005
233	Barabanki	Sirauli Gauspur	Block Office	26.95760	81.43650	0.000	0.572	0.128	0.000	0.000	0.000	0.000	0.000
234	Barabanki	Suratganj	Block Office	27.19320	81.33440	0.000	3.274	0.215	0.000	0.056	0.002	0.000	0.000
235	Barabanki	Trivediganj	Block Office	26.64190	81.30890	0.000	0.114	0.054	0.000	0.065	0.000	0.000	0.010
236	Barabanki	Nindaura	Baba Ki Kuti	27.17820	81.10070	0.000	0.654	0.134	0.000	0.000	0.012	0.003	0.000
237	Barabanki	Harak	Bhanmau	26.80139	81.26444	0.000	1.208	0.068	0.000	0.000	0.003	0.002	0.012
238	Barabanki	Masauli	Lakshvar Vajaha	26.91778	81.29083	0.000	0.866	0.052	0.000	0.065	0.000	0.000	0.003
239	Barabanki	Suratganj	Purwa Amarsingh	27.13900	81.39140	0.000	3.385	0.052	0.000	0.000	0.004	0.001	0.000
240	Barabanki	Haidergarh	Chaubisi	26.57222	81.42944	0.008	0.209	0.085	0.000	0.000	0.000	0.004	0.007
241	Bareilly	Bhutah	Block HQ(in premises of block)	28.26866	79.64135	0.000	1.300	0.180	0.000	0.058	0.009	0.000	0.000
242	Bareilly	Bithri Chainpur	Block HQ(in premises of block)	28.33749	79.50435	0.000	3.310	0.370	0.000	0.000	0.001	0.001	0.023
243	Bareilly	Shergarh	Block HQ(in premises of block)	28.65410	79.36506	0.000	0.495	0.227	0.000	0.263	0.001	0.000	0.009
244	Bareilly	Majhgawa	Block HQ	28.31174	79.27350	0.000	0.388	0.126	0.000	0.000	0.002	0.001	0.005

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**Cr (mg/L)**	**Fe (mg/L)**	**Mn (mg/L)**	**Cu (mg/L)**	**Zn (mg/L)**	**As (mg/L)**	**Pb (mg/L)**	**U (mg/L)**
245	Bareilly	Ram Nagar	Block HQ	28.36955	79.12004	0.000	0.000	0.000	0.000	0.110	0.004	0.000	0.000
246	Bareilly	Faridpur	Block HQ	28.20066	79.53943	0.000	0.887	0.175	0.000	0.583	0.000	0.000	0.068
247	Bareilly	Fatehganj	Mirzapur	28.55598	79.29460	0.000	0.981	0.221	0.000	0.000	0.011	0.000	0.000
248	Bareilly	Shergarh	Bunchi	28.69346	79.29672	0.000	2.867	0.187	0.000	0.000	0.005	0.003	0.003
249	Bareilly	Baheri	Garibpurwa	28.80053	79.55485	0.000	0.252	0.070	0.000	0.278	0.000	0.000	0.004
250	Bareilly	Ramnagar	Nurpur	28.29944	79.15209	0.000	0.787	0.143	0.000	0.422	0.008	0.001	0.009
251	Bareilly	Ramnagar	Budhanpur Bujurg	28.42541	79.02085	0.000	0.753	0.092	0.000	0.000	0.000	0.000	0.000
252	Bareilly	Bhojpura	Samshapur	28.56578	79.43141	0.000	1.233	0.132	0.000	0.549	0.000	0.000	0.000
253	Bareilly	Bitheri chainpur	sawarkhera	28.43827	79.56603	0.000	0.282	0.127	0.000	0.264	0.010	0.003	0.000
254	Bareilly	Alampur jafarabad	Nawada	28.17045	79.49354	0.000	0.332	0.104	0.000	0.000	0.007	0.000	0.000
255	Basti	Gaur HQ	Block Campus	26.90764	82.57372	0.000	0.000	0.000	0.000	0.185	0.002	0.000	0.000
256	Basti	Parasurampur HQ	Block Campus	26.90500	82.34000	0.000	1.389	0.263	0.000	0.330	0.011	0.001	0.000
257	Basti	Saunghat HQ	Block Campus	26.83630	82.76820	0.000	0.603	0.083	0.000	1.151	0.002	0.000	0.007
258	Basti	Vikramjot HQ	Block Campus	26.77972	82.36611	0.000	0.394	0.000	0.000	0.498	0.001	0.001	0.003
259	Basti	Saltaua	Block Office	26.93000	82.71389	0.000	1.500	0.000	0.000	0.330	0.000	0.001	0.004
260	Basti	Parasrampur	Bedipur Chauraha	26.88642	82.44144	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
261	Basti	Ramnagar	Bardhar	27.03280	82.73278	0.000	0.420	0.138	0.000	0.273	0.003	0.000	0.000
262	Basti	Saughat	Jiwdhara Village	26.77415	82.86622	0.000	0.086	0.000	0.000	0.054	0.000	0.000	0.007

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263	Bijnor	Mohammadpur Deomal	Hakeempur	29.55849	78.11278	0.000	0.419	0.000	0.000	0.000	0.001	0.002	0.019
264	Bijnor	Haldaur (Khari Jhalu)		29.30401	78.11760	0.000	0.166	0.000	0.000	0.000	0.003	0.002	0.020
265	Bijnor	Najibabad	Ramdas Wali	29.69700	78.24690	0.000	0.000	0.189	0.000	1.482	0.001	0.002	0.000
266	Bijnor	Najibabad	Jagdishpur	78.24787	28.56272	0.000	0.947	0.067	0.000	0.000	0.000	0.000	0.000
267	Bijnor	Haldaur (Khari Jhalu)	Rohniya	28.17720	78.25399	0.000	7.487	0.317	0.000	0.278	0.009	0.001	0.004
268	Bijnor	Jaleelpur	Bhiriya Khera	29.05997	78.26331	0.000	0.094	0.000	0.000	0.865	0.000	0.001	0.060
269	Bijnor	Najibabad	Medduwalla	29.70942	78.39746	0.000	0.701	0.000	0.000	0.456	0.000	0.001	0.000
270	Bijnor	Noorpur	Murahat	29.04971	78.40111	0.000	0.248	0.106	0.000	0.108	0.007	0.001	0.008
271	Bijnor	Kotwali	Khushalpur	29.44075	78.53892	0.000	0.357	0.331	0.000	0.156	0.000	0.001	0.011
272	Bijnor	Afzalgarh	Rasulpur Abad	29.44594	78.66545	0.000	1.535	0.129	0.000	0.000	0.003	0.001	0.000
273	Bijnor	Afzalgarh	Fathepur Dhara	29.44597	78.83715	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
274	Bijnor	Jaleelpur	Block office	29.14748	78.18623	0.000	4.072	0.000	0.000	0.000	0.000	0.002	0.005
275	Bijnor	Kiratpur	Suwaheri Khurd	29.46750	78.17556	0.000	0.150	0.000	0.000	0.139	0.005	0.002	0.019
276	Bijnor	Mohammadpur Deomal	Chakrani/ Gidarpura	29.37647	78.13236	0.000	2.290	0.000	0.000	0.267	0.004	0.000	0.136
277	Bijnor	Noorpur	Block office	29.15190	78.40275	0.000	0.000	0.224	0.000	0.106	0.015	0.000	0.000
278	Bijnor	Afzalgarh	Afzalgarh Block	29.37940	78.73179	0.000	0.415	0.276	0.000	0.138	0.028	0.001	0.000
279	Bijnor	Aku (Nehtaur)	Aku (Nehtaur) Block	29.32546	78.37433	0.000	0.451	0.219	0.000	0.058	0.011	0.000	0.000
280	Budaun	Miaon	Allahpur Kasba	27.90825	79.25171	0.000	2.370	0.172	0.000	0.107	0.000	0.000	0.008

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281	Budaun	Bisouli	Block HQ(in premises of Block office)	28.31260	78.92970	0.000	0.400	0.362	0.000	0.819	0.001	0.000	0.020
282	Budaun	Wajirganj	Block HQ(in premises of Block office)	28.20450	79.05810	0.000	2.058	0.319	0.000	0.655	0.000	0.000	0.049
283	Budaun	Ujhani	adjacent to SBI Bank,Ujhani	28.00273	79.01435	0.000	0.164	0.000	0.000	0.191	0.000	0.000	0.004
284	Budaun	Quadar Chowk	Block HQ	27.87128	79.08103	0.000	0.070	0.120	0.000	0.069	0.002	0.000	0.000
285	Budaun	Usawan	Block HQ	27.81130	79.34828	0.000	0.244	0.176	0.000	0.138	0.000	0.001	0.003
286	Budaun	Asafpur	Block HQ	28.39401	78.91132	0.000	2.342	0.087	0.000	0.000	0.003	0.000	0.012
287	Budaun	Salarpur	Block HQ	28.07057	79.13302	0.000	0.243	0.204	0.000	0.596	0.002	0.001	0.013
288	Budaun	Dahgawan	Karia bain	28.14506	78.67094	0.000	0.248	0.000	0.000	0.000	0.001	0.000	0.013
289	Budaun	Sahaswan	Sagrai	28.03705	78.86970	0.000	1.389	0.159	0.000	0.000	0.000	0.000	0.005
290	Budaun	Ujhani	Laxminagra	27.92245	78.85284	0.000	1.177	0.000	0.000	0.000	0.000	0.000	0.010
291	Budaun	Quadar Chowk	Khiriya baKarpur	27.93161	79.02585	0.000	0.197	0.052	0.000	0.113	0.000	0.000	0.005
292	Budaun	Quadar Chowk	Behta Dambanagar	27.91003	79.16080	0.000	0.000	0.000	0.000	1.343	0.000	0.000	0.000
293	Budaun	Usawan	Firozapur	27.81164	79.19477	0.000	0.798	0.000	0.000	0.000	0.000	0.000	0.008
294	Budaun	Bisauli	Biharipur Dharmpur	28.30405	79.00693	0.000	0.106	0.052	0.000	0.156	0.003	0.002	0.000
295	Budaun	Salarpur	Kunwargaon	28.17769	79.14207	0.000	0.661	0.101	0.000	0.152	0.002	0.001	0.000
296	Budaun	Jagat	Tiglapur	28.04053	79.29269	0.000	0.176	0.168	0.000	0.319	0.009	0.000	0.006
297	Budaun	Dataganj	Diyori	27.98439	79.41793	0.000	0.580	0.337	0.000	0.181	0.006	0.000	0.009

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298	Bulandshahr	Agauta	Block H.Q.	28.52330	77.89850	0.000	0.000	0.226	0.000	1.132	0.002	0.004	0.014
299	Bulandshahr	Anup Shahar	Block H.Q.	28.36120	78.25230	0.000	0.092	0.000	0.000	0.000	0.001	0.002	0.000
300	Bulandshahr	Arnia Khurd	Block H.Q.	28.12880	77.92160	0.000	0.210	0.000	0.000	0.133	0.000	0.001	0.004
301	Bulandshahr	B.B. Nagar	Block H.Q.	28.64360	77.95150	0.000	2.935	0.107	0.000	0.576	0.000	0.001	0.019
302	Bulandshahr	Bulandshahr	District H.Q.	28.38860	77.83540	0.000	0.000	0.000	0.000	0.082	0.001	0.002	0.000
303	Bulandshahr	Danpur	Block H.Q.	28.19230	78.20600	0.000	0.175	0.066	0.000	0.103	0.000	0.002	0.036
304	Bulandshahr	Debai	Block H.Q.	28.19950	78.25670	0.000	3.668	0.073	0.000	0.000	0.000	0.002	0.010
305	Bulandshahr	Guloatho	Block H.Q.	28.58050	77.79060	0.000	2.024	0.134	0.000	0.068	0.000	0.002	0.007
306	Bulandshahr	Jahangirabad	Block H.Q.	28.41390	78.08850	0.000	0.000	0.158	0.000	0.146	0.000	0.002	0.106
307	Bulandshahr	Khurja	Block H.Q.	28.23580	77.84220	0.000	0.051	0.173	0.000	0.118	0.000	0.003	0.024
308	Bulandshahr	Lakhaoti	Block H.Q.	28.52640	77.97740	0.000	0.217	0.071	0.000	0.242	0.000	0.000	0.017
309	Bulandshahr	Pahasu	Block H.Q.	28.17060	78.06170	0.000	0.269	0.000	0.000	0.000	0.001	0.001	0.007
310	Bulandshahr	Shikarpur	Block H.Q.	28.27910	78.00420	0.000	0.121	0.149	0.000	0.179	0.000	0.001	0.035
311	Bulandshahr	Sikandrabad	Block H.Q.	28.45490	77.69180	0.000	0.262	0.117	0.000	0.436	0.000	0.001	0.027
312	Bulandshahr	Siyana	Block H.Q.	28.62480	78.05410	0.000	0.401	0.085	0.000	1.166	0.000	0.003	0.007
313	Bulandshahr	Unchagaon	Block H.Q.	28.48790	78.16000	0.000	0.115	0.000	0.000	0.918	0.000	0.001	0.000
314	Bulandshahr	Shikarpur	Kaisawan	28.30387	78.03463	0.000	0.288	0.061	0.000	0.283	0.012	0.000	0.016
315	Bulandshahr	Shikarpur	Palra	28.26505	77.94412	0.000	0.234	0.120	0.000	0.489	0.000	0.002	0.007

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316	Bulandshahr	Shikarpur	Amarpur	28.25991	78.06117	0.000	3.449	0.131	0.000	0.096	0.004	0.000	0.000
317	Bulandshahr	Sikandrabad	Gesupur	28.52861	77.70123	0.000	0.000	0.124	0.000	0.438	0.000	0.000	0.027
318	Bulandshahr	Khurja	Dastura	28.27530	77.70320	0.000	0.334	0.000	0.000	0.142	0.000	0.000	0.014
319	Bulandshahr	Shikarpur	Nawada	28.25947	78.06319	0.000	0.216	0.000	0.000	0.000	0.001	0.000	0.015
320	Bulandshahr	Debai	Narora	28.18844	78.39585	0.000	0.000	0.000	0.000	0.099	0.002	0.000	0.003
321	Bulandshahr	Debai	Bhopatpur	28.29630	78.28340	0.000	0.195	0.000	0.000	0.000	0.001	0.000	0.013
322	Chandauli	Barahani	Sirkolpur	25.36460	83.41040	0.000	0.058	0.000	0.000	2.989	0.000	0.000	0.011
323	Chandauli	Naugarh	Sikarganj	25.00990	83.12710	0.000	0.381	0.000	0.000	0.725	0.000	0.002	0.003
324	Chandauli	Naugarh	Kauwada ghat	24.81680	83.25000	0.000	2.157	0.000	0.000	0.088	0.000	0.000	0.000
325	Chandauli	Naugarh	Lawari Khurd	24.89720	83.22490	0.000	0.000	0.000	0.000	0.056	0.000	0.002	0.000
326	Chandauli	Naugarh	Sikarganj	25.00820	83.21700	0.000	0.121	0.000	0.000	0.080	0.000	0.001	0.000
327	Chandauli	Naugarh	Magrahi	24.82680	83.29930	0.000	1.022	0.282	0.000	0.000	0.003	0.002	0.000
328	Chandauli	Naugarh	Munuwat	83.32640	24.89220	0.000	3.801	0.055	0.000	0.082	0.000	0.001	0.000
329	Chandauli	Shahabganj	Banbhishampur	24.99490	83.29880	0.000	0.084	0.077	0.000	0.410	0.000	0.000	0.000
330	Chandauli	Chahniya	Sirkalpur	25.48630	83.28000	0.000	3.348	0.613	0.000	0.059	0.008	0.000	0.000
331	Chandauli	Chahania	Chahania	25.41778	83.20944	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.012
332	Chandauli	Sakaldiha	Sakaldiha	25.35528	83.25833	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0.017
333	Chitrakoot	Mau	Bargarh Mod (Kalchiha)	25.18293	81.43980	0.000	13.363	0.094	0.000	11.925	0.000	0.002	0.000

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334	Chitrakoot	Mau	Bambhuri	25.21924	81.37061	0.000	0.430	0.000	0.000	0.155	0.000	0.002	0.000
335	Chitrakoot	Ramnagar	Lokhari	25.19162	81.25333	0.000	0.668	0.000	0.000	0.304	0.000	0.002	0.000
336	Chitrakoot	Manikpur	Barachhi	25.17870	81.16403	0.006	0.000	0.000	0.010	0.235	0.000	0.002	0.004
337	Chitrakoot	Pahari	Boodha	25.27123	81.01820	0.000	0.580	0.000	0.000	0.079	0.000	0.000	0.004
338	Chitrakoot	Karvi	Ragauli	25.25065	80.97328	0.000	0.440	0.000	0.000	0.192	0.000	0.005	0.003
339	Chitrakoot	Karvi	Roli (pataundha mod)	25.21999	80.72762	0.000	0.000	0.000	0.000	0.096	0.000	0.021	0.005
340	Chitrakoot	Karvi	Kol Gadhiya	25.19604	80.95275	0.000	0.062	0.000	0.000	0.000	0.000	0.001	0.004
341	Chitrakoot	Manikpur	Saharipurwa	25.10557	80.06589	0.000	0.324	0.000	0.000	0.371	0.000	0.003	0.000
342	Chitrakoot	Manikpur	Kubri	25.00466	81.16523	0.000	0.265	0.123	0.000	3.688	0.000	0.002	0.003
343	Chitrakoot	Manikpur	Hardiya	25.08542	81.22541	0.000	0.779	0.080	0.000	0.000	0.000	0.001	0.000
344	Chitrakoot	Manikpur	Karouha	24.99960	81.03784	0.000	13.536	1.156	0.000	0.000	0.000	0.001	0.000
345	Chitrakoot	Manikpur	Markundi	25.02010	80.95446	0.000	0.171	0.000	0.000	0.054	0.000	0.003	0.000
346	Chitrakoot	Manikpur	Tikariya Railway Station	25.00131	80.87560	0.000	0.404	0.000	0.000	0.000	0.000	0.002	0.000
347	Chitrakoot	Karvi	Kauhari	25.36647	80.87042	0.002	0.120	0.000	0.000	0.076	0.000	0.002	0.005
348	Chitrakoot	Ramnagar	Rajapur	25.38219	81.14879	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.011
349	Chitrakoot	Mau	Mau	25.26942	81.37162	0.001	0.098	0.000	0.000	0.000	0.000	0.002	0.008
350	Chitrakoot	Manikpur	Manikpur	25.06847	81.09852	0.001	1.055	0.000	0.000	0.610	0.000	0.001	0.005
351	Chitrakoot	Karvi	Karvi	25.21476	80.91970	0.000	0.497	0.000	0.000	0.077	0.000	0.004	0.009

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352	Chitrakoot	Pahari	Pahari	25.33351	80.96304	0.000	0.145	0.000	0.000	0.881	0.000	0.003	0.000
353	Deoria	Baitalpur	In the premises of Block Office	26.55580	83.73580	0.000	0.128	0.064	0.000	0.098	0.003	0.000	0.000
354	Deoria	Bankata	In the premises of Block Office	26.27152	84.11324	0.000	3.529	0.000	0.000	0.140	0.000	0.000	0.000
355	Deoria	Barhaj	In the premises of Block Office	26.27843	83.72640	0.000	4.771	0.085	0.000	0.410	0.005	0.002	0.000
356	Deoria	Bhagalpur	In the premises of Block Office	26.16810	83.86970	0.000	0.244	0.000	0.000	0.134	0.000	0.001	0.000
357	Deoria	Bhaluwani	In the premises of Gyan Prakash Inter College on the LHS of the gate, Opposite Block Office	26.37074	83.76155	0.000	7.098	0.000	0.000	0.360	0.000	0.002	0.031
358	Deoria	Bhatani	In the premises of Block Office	26.37953	83.92421	0.000	2.198	0.000	0.000	0.486	0.000	0.000	0.000
359	Deoria	Bhatparani	In the premises of Block Office	26.31350	84.02810	0.000	0.891	0.000	0.000	0.596	0.000	0.001	0.010
360	Deoria	Deoria Sadar	At the District Collectorate	26.49610	83.77830	0.000	1.188	0.051	0.000	0.675	0.000	0.000	0.006
361	Deoria	Desahi Deoria	In the premises of Block Office	26.66830	83.81970	0.000	0.775	0.000	0.000	0.000	0.000	0.001	0.000
362	Deoria	Gauri Bazar	In the premises of Block Office	26.58310	83.67140	0.000	0.977	0.000	0.000	0.063	0.003	0.001	0.000
363	Deoria	Lar	In the premises of Block Office	26.21775	83.96374	0.000	0.051	0.000	0.000	0.092	0.002	0.002	0.000
364	Deoria	Pather Dewa	RHS of the gate in the premises of Block Office	26.58220	83.91065	0.000	1.774	0.000	0.000	0.267	0.001	0.000	0.000
365	Deoria	Rampur Karkhana	In the premises of Block Office	26.56280	83.81500	0.000	0.000	0.000	0.000	1.932	0.000	0.003	0.000
366	Deoria	Rudrapur	In the premises of Block Office	26.45640	83.61360	0.000	1.592	0.148	0.000	0.167	0.000	0.001	0.000
367	Deoria	Salempur	In the premises of Block Office	26.29966	83.92260	0.000	0.688	0.000	0.000	0.000	0.000	0.000	0.000

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368	Deoria	Tarkulwa	In the premises of Block Office	26.62769	83.89101	0.000	0.476	0.000	0.000	0.083	0.000	0.000	0.000
369	Deoria	Bhaluani	Bahadurpur	26.37648	83.85136	0.000	0.332	0.000	0.000	0.191	0.002	0.000	0.000
370	Deoria	Bhaluwani	Lagra Bazar (on Rudrapur to Bhaluwani)	26.38300	83.71792	0.000	0.000	0.149	0.000	0.174	0.000	0.002	0.000
371	Deoria	Bhaluwani	Garer chak, near house of Shivnath Chaurasia	26.39895	83.78762	0.000	1.304	0.000	0.000	0.300	0.030	0.000	0.000
372	Deoria	Bhaluwani	In front of Nayra Petrol pump, Karuana Chauraha (on Bhaluwani to Barhalganj road)	26.32914	83.74926	0.000	0.000	0.054	0.000	0.316	0.002	0.000	0.000
373	Deoria	Bhaluwani	Bahaur Chauraha (Near R B Hardware, Opposite fertilizer shop)	26.37026	83.79763	0.000	0.242	0.155	0.000	0.000	0.003	0.000	0.000
374	Etah	Jalesar	Block Office	27.47980	78.30629	0.000	0.475	0.088	0.000	0.140	0.000	0.000	0.030
375	Etah	Sheetalpur	Block Office	27.56962	78.67305	0.000	0.774	0.115	0.000	0.792	0.000	0.000	0.000
376	Etah	Jalesar	Kosania	27.43685	78.29788	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009
377	Etah	Nidhauli Kalan	Bariganwan, Fauzi Market Tiraha	27.64447	78.58552	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.004
378	Etah	Shitalpur	Near to RTO office	27.54052	78.70694	0.000	0.160	0.230	0.000	0.062	0.000	0.000	0.011
379	Etah	Sakit		27.53662	78.87196	0.000	0.426	0.000	0.000	0.000	0.000	0.000	0.011
380	Etah	Sakit	Kamlapur Mai	27.39786	78.82192	0.000	0.176	0.000	0.000	0.081	0.000	0.000	0.012
381	Etah	Jaithara	Nagla Bali	27.53544	79.02711	0.000	3.262	0.264	0.000	0.000	0.002	0.002	0.012
382	Etah	Aliganj	Daheliyapur Chauraha	27.44885	79.16376	0.000	0.198	0.000	0.000	0.098	0.000	0.001	0.019

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383	Etawah	Barhpura	Barhpura Block Office	26.71910	78.95715	0.013	0.000	0.000	0.000	0.070	0.000	0.002	0.007
384	Etawah	Chakarnagar	Chakarnagar Block Office	26.56193	79.14044	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.009
385	Etawah	Barhpura	Kaneshi Ghar	26.62983	79.05615	0.000	1.507	0.171	0.000	0.267	0.001	0.000	0.022
386	Etawah	Barhpura	Etawah City (Anand Nagar)	26.77019	79.03464	0.000	0.301	0.000	0.000	0.746	0.000	0.000	0.020
387	Etawah	Jaswant Nagar	Jaswant Nagar Block Office	26.87620	78.91212	0.000	0.000	0.000	0.000	0.595	0.000	0.000	0.010
388	Etawah	Saifai	Saifai Block Office	26.95650	78.96037	0.000	2.486	0.253	0.000	3.812	0.000	0.000	0.011
389	Etawah	Takha	Takha Block Office	26.91139	79.29625	0.001	0.140	0.000	0.000	0.955	0.000	0.001	0.028
390	Etawah	Basrehar	Takpura	26.89739	79.18739	0.000	0.443	0.236	0.000	1.370	0.000	0.000	0.018
391	Etawah	Basrehar	Basrehar Block Office	26.84190	79.08587	0.000	0.231	0.073	0.000	0.176	0.000	0.000	0.030
392	Etawah	Mahewa	Mahewa Block Office	26.62052	79.23391	0.000	0.175	0.000	0.000	0.393	0.000	0.000	0.012
393	Etawah	Bharthana	Bharthana Block Office	26.70913	79.31824	0.000	0.290	0.000	0.000	0.153	0.000	0.008	0.043
394	Etawah	Bharthana	Dhakpura	26.77705	79.31101	0.000	1.667	0.000	0.000	0.000	0.000	0.001	0.020
395	Farrukhabad	Kamalganj	Block Office	27.26053	79.63224	0.000	1.867	0.699	0.000	1.381	0.000	0.001	0.006
396	Farrukhabad	Mohammdabad	Block Office	27.30800	79.43679	0.000	0.166	0.000	0.000	0.000	0.002	0.000	0.023
397	Farrukhabad	Rajepur	Block office	27.48043	79.66195	0.000	0.193	0.000	0.000	0.075	0.000	0.005	0.011
398	Farrukhabad	Shamsabad	Block Office	27.53622	79.44050	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.010
399	Farrukhabad	Kaimganj	Kampil Road Siwara	27.66268	79.17746	0.000	4.387	0.000	0.000	0.000	0.000	0.001	0.013
400	Farrukhabad	Kaimganj	Eklahra	27.65384	79.29979	0.000	0.522	0.196	0.000	0.555	0.000	0.001	0.020

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401	Farrukhabad	Kaimganj	Rutaul	27.53608	79.30849	0.000	3.572	0.051	0.000	0.088	0.000	0.001	0.011
402	Farrukhabad	Nawabganj	Ganeshpur	27.42054	79.30390	0.000	0.717	0.170	0.000	0.000	0.002	0.001	0.011
403	Farrukhabad	Rajepur	Amritpur	27.54134	79.60057	0.000	0.522	0.104	0.000	1.807	0.000	0.000	0.005
404	Fatehpur	Amauli	Dhana	25.91145	80.32082	0.000	20.327	0.094	0.001	0.119	0.000	0.003	0.005
405	Fatehpur	Khajua	Bindki	26.02976	80.58057	0.006	0.512	0.000	0.002	1.349	0.000	0.003	0.032
406	Fatehpur	Malwan	Chaudgara	26.12301	80.58497	0.032	0.866	0.000	0.001	0.170	0.000	0.005	0.025
407	Fatehpur	Bhitaura	Lohari	26.01022	81.02630	0.001	0.107	0.000	0.000	0.559	0.001	0.003	0.014
408	Fatehpur	Haswa	Chakiwa	25.89289	81.02306	0.005	0.393	0.000	0.000	0.167	0.000	0.003	0.024
409	Fatehpur	Haswa	Dharampur Santo	25.78505	80.98751	0.000	0.453	0.277	0.001	0.177	0.001	0.004	0.014
410	Fatehpur	Asother	Darauli	25.78221	80.74972	0.030	0.328	0.000	0.002	0.678	0.000	0.003	0.029
411	Fatehpur	Asother	Shankarpur	25.76703	80.62758	0.008	0.435	0.000	0.000	1.017	0.000	0.003	0.008
412	Fatehpur	Vijayeepur	Rakshpalpur	25.62563	81.13322	0.013	0.818	0.000	0.007	0.136	0.000	0.002	0.011
413	Fatehpur	Amauli	Amauli	26.01423	80.31044	0.000	0.283	0.000	0.000	0.175	0.000	0.002	0.005
414	Fatehpur	Khajua	Khajua	26.05658	80.51694	0.000	0.081	0.000	0.001	0.211	0.000	0.001	0.012
415	Fatehpur	Malwan	Malwan	26.03640	80.70700	0.008	0.000	0.000	0.002	0.099	0.000	0.001	0.084
416	Fatehpur	Teliyani	Fatehpur	25.92389	80.81466	0.000	0.414	0.000	0.000	0.322	0.000	0.001	0.044
417	Fatehpur	Hathgaon	Hathgaon	25.99670	81.01893	0.000	0.321	0.000	0.000	0.279	0.000	0.002	0.019
418	Fatehpur	Asother	Asother	25.75891	80.88616	0.000	0.603	0.000	0.000	0.137	0.000	0.002	0.006

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419	Fatehpur	Bahua	Bahua	25.84361	80.62988	0.004	0.143	0.000	0.000	0.208	0.000	0.002	0.015
420	Fatehpur	Airayan	Khaga	25.76976	81.10282	0.000	0.505	0.071	0.000	5.361	0.000	0.001	0.021
421	Fatehpur	Vijayeepur	Vijayeepur	25.69159	81.05895	0.000	0.181	0.000	0.000	0.580	0.000	0.002	0.007
422	Fatehpur	Dhata	Dhata	25.53946	81.22876	0.004	0.182	0.000	0.002	0.083	0.000	0.000	0.010
423	Firozabad	Aron	Block Office	27.15023	78.70482	0.000	0.104	0.000	0.000	0.144	0.000	0.000	0.016
424	Firozabad	Eka	Block office	27.37907	78.60743	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.008
425	Firozabad	Firozabad	Block office	27.16539	78.37906	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
426	Firozabad	Hathwant	Block Office	27.22911	78.50407	0.000	0.381	0.316	0.000	0.293	0.000	0.000	0.014
427	Firozabad	Narkhi	Block Office	27.29036	78.40702	0.002	0.000	0.000	0.000	0.000	0.001	0.000	0.022
428	Firozabad	Tundla	Block Office	27.22545	78.24661	0.000	0.298	0.000	0.000	0.200	0.000	0.000	0.006
429	Firozabad	Firozabad	Gudau	27.14890	78.34992	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.013
430	Firozabad	Firozabad	Shikera	27.03134	78.46958	0.000	0.412	0.000	0.000	2.680	0.000	0.000	0.005
431	Firozabad	Madanpur	Block Office	27.02710	78.64420	0.000	0.123	0.100	0.000	0.358	0.000	0.001	0.028
432	G.B. Nagar	Bisrakh	Block H.Q.	28.58840	77.37710	0.000	0.235	0.000	0.000	0.223	0.000	0.001	0.006
433	G.B. Nagar	Dadri	Block H.Q	28.55450	77.55350	0.000	0.089	0.077	0.000	0.160	0.000	0.001	0.042
434	G.B. Nagar	Jewar	Block H.Q	28.12500	77.56720	0.000	0.171	0.000	0.000	0.650	0.000	0.001	0.032
435	G.B. Nagar	Dankaur	Dist. H.Q	28.35330	77.55590	0.000	0.070	0.062	0.000	0.111	0.001	0.000	0.055
436	G.B. Nagar	Dankaur	Bagpur	28.39768	77.58972	0.000	0.062	0.000	0.000	0.240	0.000	0.004	0.008

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437	G.B. Nagar	Jewar	Rampur Banger	28.16380	77.56775	0.001	0.090	0.000	0.000	0.280	0.001	0.002	0.014
438	G.B. Nagar	Dankaur	Fatehpur Atta	28.31500	77.51062	0.000	0.000	0.000	0.000	1.243	0.000	0.000	0.011
439	G.B. Nagar	Dankaur	Parsaul	28.31500	77.51062	0.000	0.000	0.466	0.000	0.329	0.000	0.000	0.013
440	G.B. Nagar	Jewar	Bhagwantpur Chhatanga	28.10812	77.53917	0.000	0.423	0.106	0.000	0.000	0.000	0.000	0.009
441	G.B. Nagar	Jewar	Choroli	28.13596	77.60769	0.000	0.110	0.000	0.000	0.130	0.000	0.000	0.013
442	G.B. Nagar	Jewar	Gopalgarh	28.09019	77.55837	0.000	0.068	0.000	0.000	0.689	0.000	0.000	0.026
443	G.B. Nagar	Dadri	Dadri	28.55444	77.55354	0.000	0.080	0.070	0.000	0.263	0.000	0.000	0.050
444	G.B. Nagar	Jewar	Ronija	28.27617	77.56255	0.000	0.056	0.000	0.000	0.308	0.000	0.000	0.021
445	G.B. Nagar	Jewar	Neemka	28.13826	77.60679	0.000	0.000	0.000	0.000	0.212	0.000	0.000	0.026
446	G.B. Nagar	Jewar	Neem Ka Khara Kua	28.13783	77.60723	0.000	0.054	0.000	0.000	0.780	0.000	0.001	0.028
447	Ghaziabad	Bhojpur	In block office	28.79954	77.62035	0.000	3.066	0.000	0.000	0.266	0.000	0.001	0.044
448	Ghaziabad	Loni	In block office	28.74674	77.28976	0.000	0.153	0.156	0.000	1.783	0.000	0.003	0.005
449	Ghaziabad	Muradnagar	In block office	28.77284	77.51128	0.000	0.734	0.231	0.000	1.277	0.000	0.001	0.070
450	Ghaziabad	Razapur	In block office	28.71016	77.45626	0.000	0.000	0.088	0.000	0.334	0.000	0.000	0.024
451	Ghaziabad	Razapur	IN THE COMPOUND OF SHIV TEMPLE	28.65636	77.53757	0.000	0.067	0.000	0.000	9.761	0.000	0.001	0.000
452	Ghaziabad	Gaziabad Urban	JAL KAL VIBHAG	28.68472	77.34354	0.000	0.151	0.000	0.000	0.291	0.000	0.000	0.011
453	Ghaziabad	Gaziabad Urban	KALI TEMPLE BOUNDARY WALL	28.68886	77.36180	0.000	0.000	0.000	0.000	0.557	0.001	0.000	0.015
454	Ghaziabad	Gaziabad Urban	ROHTASH SINGH	28.68705	77.38593	0.000	0.160	0.061	0.000	3.918	0.000	0.000	0.016

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455	Ghaziabad	Gaziabad Urban	MOTHER CARE PUBLIC SCHOOL	28.69273	77.42260	0.000	0.106	0.000	0.000	1.205	0.000	0.000	0.031
456	Ghaziabad	Gaziabad Urban	NEAR SAI TEMPLE, SABURI PARK	28.67196	77.40833	0.000	0.431	0.000	0.000	1.580	0.000	0.000	0.020
457	Ghaziabad	Gaziabad Urban		28.65206	77.41092	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012
458	Ghaziabad	Gaziabad Urban		28.62919	77.41376	0.000	0.000	0.000	0.000	0.957	0.000	0.000	0.023
459	Ghaziabad	Gaziabad Urban	NEAR MEADOWS CAFÉ	28.72140	77.44736	0.000	0.000	0.000	0.000	0.204	0.000	0.000	0.014
460	Ghaziabad	Gaziabad Urban		28.69530	77.42760	0.000	0.000	0.000	0.000	0.747	0.000	0.000	0.023
461	Ghaziabad	Gaziabad Urban		28.67577	77.43316	0.000	0.269	0.000	0.000	0.000	0.000	0.000	0.006
462	Ghaziabad	Gaziabad Urban	JAL NIGAM PANI TANKI INSIDE	28.63608	77.43899	0.000	0.271	0.084	0.000	0.094	0.000	0.000	0.026
463	Ghaziabad	Gaziabad Urban		28.73336	77.44417	0.000	0.000	0.064	0.000	0.488	0.001	0.000	0.025
464	Ghaziabad	Gaziabad Urban		28.70443	77.45367	0.000	0.130	0.318	0.000	0.067	0.000	0.000	0.014
465	Ghaziabad	Gaziabad Urban		28.67595	77.46766	0.000	1.089	0.065	0.000	0.369	0.000	0.000	0.010
466	Ghaziabad	Gaziabad Urban		28.66394	77.46093	0.000	0.098	0.000	0.000	0.391	0.000	0.000	0.014
467	Ghaziabad	Gaziabad Urban		28.63684	77.45571	0.000	0.000	0.073	0.000	0.637	0.000	0.000	0.005
468	Ghaziabad	Gaziabad Urban	DADA SHREE RAMJI GATE	28.74541	77.46133	0.000	0.000	0.090	0.000	0.815	0.000	0.000	0.000
469	Ghaziabad	Gaziabad Urban		28.71438	77.47710	0.000	5.326	0.097	0.000	0.824	0.000	0.000	0.009
470	Ghaziabad	Gaziabad Urban	MADHUVAN VILLAGE	28.70263	77.48043	0.000	0.523	0.174	0.000	0.295	0.000	0.000	0.053
471	Ghaziabad	Gaziabad Urban		28.68101	77.49727	0.000	0.125	0.101	0.000	4.192	0.000	0.000	0.031
472	Ghaziabad	Gaziabad Urban		28.65573	77.48579	0.000	0.254	0.079	0.000	0.092	0.000	0.000	0.027

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473	Ghaziabad	Gaziabad Urban		28.63262	77.46667	0.000	0.000	0.058	0.000	0.456	0.001	0.000	0.026
474	Ghaziabad	Gaziabad Urban		28.65568	77.49701	0.000	0.111	0.282	0.000	0.065	0.000	0.000	0.014
475	Ghaziabad	Muradnagar	SUMITRA SADAN HOUSE, GOBIND KUMAR	28.74982	77.49079	0.000	0.094	0.000	0.000	0.475	0.000	0.000	0.033
476	Ghaziabad	Muradnagar	ON ROAD SIDE	28.77660	77.51264	0.000	0.000	0.000	0.000	0.254	0.000	0.000	0.018
477	Ghaziabad	Muradnagar	PRACHIN SHIV MANDIR GAONKHEDA	28.77383	77.52623	0.000	0.177	0.000	0.000	0.204	0.000	0.000	0.013
478	Ghaziabad	Muradnagar	ABUPUR GATE	28.78981	77.52956	0.000	0.211	0.000	0.000	0.103	0.000	0.000	0.015
479	Ghaziabad	Razapur	NEAR HONDA SHOW ROOM	28.70394	77.45023	0.000	0.177	0.000	0.000	1.187	0.000	0.000	0.012
480	Ghaziabad	Dhaulana	Dhaulana	28.62052	77.65175	0.000	0.125	0.000	0.000	0.085	0.000	0.000	0.032
481	Ghaziabad	Hapur	SAPNAWAT prachin nageshwar mandir	28.62725	77.72847	0.000	0.060	0.000	0.000	0.000	0.000	0.000	0.012
482	Ghaziabad	Dhaulana	NARAINA	28.60646	77.73886	0.000	0.000	0.000	0.000	0.066	0.002	0.000	0.012
483	Ghazipur	Saidpur	Pokhra mod bazar	25.61549	83.14128	0.000	0.205	0.026	0.000	0.028	0.000	0.001	0.019
484	Ghazipur	Sadat	Kaneri	25.62240	83.26525	0.000	0.058	0.000	0.000	0.000	0.000	0.002	0.041
485	Ghazipur	Zamania	Jeevpur	25.48345	83.56817	0.000	0.255	0.320	0.000	0.000	0.002	0.001	0.000
486	Ghazipur	Ghazipur	Biraich	25.61171	83.55851	0.000	0.215	0.006	0.000	0.189	0.000	0.002	0.037
487	Ghazipur	Bhadaura	Bhagauta Singha	25.47363	83.83139	0.000	3.074	0.109	0.000	0.000	0.000	0.001	0.000
488	Ghazipur	Deokali	Block Office	25.55139	83.33802	0.000	4.723	0.078	0.000	1.078	0.000	0.002	0.052
489	Ghazipur	Jamania	Block Office	25.41490	83.55890	0.000	0.913	0.021	0.000	0.465	0.000	0.001	0.013

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490	Ghazipur	Jakhaniya	Block Office	25.74263	83.37248	0.000	0.250	0.000	0.000	0.245	0.000	0.002	0.042
491	Ghazipur	Mardah	Block Office	25.80020	83.56374	0.000	0.106	0.073	0.000	0.161	0.000	0.001	0.011
492	Ghazipur	Saidpur	Block Office	25.54231	83.22726	0.000	0.727	0.000	0.000	0.134	0.000	0.001	0.015
493	Ghazipur	Ghazipur	Block Office	25.56770	83.56025	0.000	2.810	0.157	0.000	0.078	0.003	0.002	0.014
494	Gonda	Colonelganj	Block Campus	27.13389	81.69556	0.000	0.000	0.158	0.000	0.000	0.000	0.000	0.004
495	Gonda	Haldharmau HQ	Block Campus	27.13917	81.76111	0.000	1.226	0.155	0.000	0.056	0.023	0.000	0.000
496	Gonda	Katra Bazar HQ	Block Campus	27.20556	81.79361	0.000	9.171	0.469	0.000	0.527	0.130	0.000	0.000
497	Gonda	Padri Kripal HQ	Block Campus	27.16278	81.96833	0.000	0.467	0.083	0.000	0.302	0.014	0.001	0.000
498	Gonda	Paraspur HQ	Block Campus	27.03472	81.78639	0.000	2.289	0.122	0.000	0.000	0.018	0.002	0.000
499	Gonda	Tarabganj HQ	Block Campus	26.95556	81.99000	0.000	2.985	0.135	0.000	0.773	0.034	0.000	0.000
500	Gonda	Jhanjhari	Block Office	27.11889	81.96722	0.000	0.795	0.176	0.000	0.182	0.004	0.000	0.000
501	Gonda	Belsar	In the campus of Umar Ganj Polica station	26.92229	81.86621	0.000	0.000	0.166	0.000	0.000	0.002	0.000	0.005
502	Gonda	Wazirganj	Suklainpurwa	27.04484	81.99686	0.000	1.222	0.104	0.000	0.085	0.006	0.000	0.003
503	Gonda	Itia Thok	Lalpur	27.29366	82.17855	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
504	Gonda	Bhabhanjot	Block Campus	27.07781	82.45446	0.000	3.685	0.112	0.000	0.117	0.000	0.001	0.000
505	Gorakhpur	Bansgaon	In the Block Office Premises	26.55294	83.35293	0.000	5.173	0.098	0.000	0.291	0.001	0.000	0.000
506	Gorakhpur	Barahalganj	In the Block Office Premises	26.28360	83.50230	0.000	2.654	0.096	0.000	0.000	0.001	0.000	0.000
507	Gorakhpur	Belghat	In the Block Office Premises	26.43310	83.16450	0.000	0.000	0.000	0.000	0.171	0.000	0.000	0.006

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508	Gorakhpur	Bharohiya	In the Shri Peeteshwar Mahadev Temple adjacent to the Block Office	26.91777	83.28199	0.000	0.132	0.000	0.000	0.000	0.002	0.000	0.000
509	Gorakhpur	Bhatahat	In the Block Office Premises; Adjacent to Office of BDO	26.89890	83.49240	0.000	0.000	0.000	0.000	0.199	0.002	0.002	0.000
510	Gorakhpur	Brahmpur	In the Block Office Premises	26.58440	83.56200	0.000	0.405	0.000	0.000	0.214	0.002	0.000	0.000
511	Gorakhpur	Campierganj	In the Block Office Premises	27.02354	83.26740	0.000	1.311	0.000	0.000	1.515	0.000	0.001	0.006
512	Gorakhpur	Chargawan	In the Block Office Premises; Next to water filter	27.20150	83.26780	0.000	2.035	0.000	0.000	0.063	0.000	0.000	0.000
513	Gorakhpur	Gagaha	In the Block Office Premises	26.44930	83.43760	0.000	0.301	0.000	0.000	0.315	0.008	0.000	0.000
514	Gorakhpur	Gola	In the Block Office Premises	26.35568	83.35298	0.000	0.000	0.072	0.000	0.000	0.004	0.001	0.000
515	Gorakhpur	Jangal Kuriya	In the Block Office Premises	26.86680	83.31040	0.000	1.590	0.073	0.000	0.361	0.000	0.000	0.000
516	Gorakhpur	Kauriram	In the Block Office Premises	26.51610	83.41520	0.000	1.899	0.208	0.000	0.979	0.006	0.001	0.000
517	Gorakhpur	Khajani	In the Block Office Premises; LHS of the Gate	26.66460	83.24900	0.000	2.722	0.081	0.000	0.084	0.002	0.000	0.005
518	Gorakhpur	Khorabar	In the Block Office Premises behind BDO office; Near Office Printing Press	26.71715	83.44060	0.000	0.000	0.109	0.000	0.000	0.001	0.000	0.000
519	Gorakhpur	Pali	In the Block Office Premises; RHS of the gate	26.82122	83.19906	0.000	1.364	0.149	0.000	0.964	0.001	0.002	0.000
520	Gorakhpur	Pipraich	In the Block Office Premises	26.82030	83.52070	0.000	0.785	0.053	0.000	0.188	0.006	0.001	0.000
521	Gorakhpur	Piprauli	In the Block Office Premises	26.73088	83.24818	0.000	0.192	0.058	0.000	0.347	0.000	0.002	0.004

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522	Gorakhpur	Sahjanwa	Block Office; In front of BDO residence	26.75130	83.18560	0.000	2.571	0.107	0.000	0.600	0.000	0.001	0.000
523	Gorakhpur	Sardar Nagar	In the Block Office Premises	26.68710	83.54700	0.000	1.706	0.063	0.000	0.000	0.001	0.002	0.000
524	Gorakhpur	Uruwa	In the Block Office Premises	26.46498	83.25694	0.000	1.069	0.051	0.000	1.059	0.002	0.001	0.004
525	Gorakhpur	Gorakhpur District HQ	Adjacent to e-district, e-gov staff parking and e-district Jan Suvidha Kendra in the Collectorate premises	26.74803	83.36970	0.000	1.713	0.111	0.000	1.358	0.001	0.000	0.000
526	Gorakhpur	Sahjanwa	Samuda	26.63986	83.15614	0.000	0.407	0.093	0.000	1.290	0.000	0.000	0.000
527	Gorakhpur	Jangal kaudia	Uttarsoth	26.76702	83.29504	0.000	0.126	0.099	0.000	0.000	0.000	0.000	0.000
528	Gorakhpur	Campierganj	Rajpur Pasitola	27.02530	83.30133	0.000	1.112	0.000	0.000	0.197	0.000	0.000	0.007
529	Gorakhpur	Khorabar	Sonviya Aghar Bazar	26.63409	83.43620	0.000	1.480	0.067	0.000	0.000	0.000	0.000	0.004
530	Gorakhpur	Barahalganj	Bairiyadih/Babu Bariya	26.36790	83.55932	0.000	3.557	0.087	0.000	1.237	0.022	0.000	0.000
531	Gorakhpur	Gagaha	Village-Dumsa Babupura, near playground	26.44925	83.42850	0.000	0.291	0.065	0.000	1.008	0.006	0.000	0.000
532	Gorakhpur	Gagaha	Village-Rajpur; In front of H/o Dheeraj Yadav S/o Gurbin Yadav	26.44768	83.45155	0.000	0.566	0.061	0.000	0.000	0.000	0.000	0.000
533	Gorakhpur	Gagaha	At Primary School Gagha I, Hatwa; Near Anganwadi Kendra	26.43327	83.44542	0.000	0.389	0.057	0.000	0.058	0.005	0.002	0.000
534	Gorakhpur	Kauriram	At PWD Inspection Bunglow	26.53570	83.40990	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012
535	Gorakhpur	Kauriram	Village- Mahopar; At the back of H/o Amarnath Maurya S/o Shivnarayan Maurya	26.51001	83.43082	0.000	1.422	0.000	0.000	0.066	0.000	0.000	0.003

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536	Gorakhpur	Kauriram	Village- Rewradih; Near H/o Sitaram Yadav S/o Dukhran Yadav	26.51180	83.40997	0.000	0.132	0.249	0.000	0.000	0.000	0.001	0.008
537	Gorakhpur	Kauriram	Adjacent to Primary School Chawariya(II); Near house of Shri Ram Nawal Yadav	26.50205	83.41873	0.000	0.098	0.191	0.000	0.000	0.000	0.000	0.007
538	Hamirpur	Rath	Pathnouri	25.51977	79.62482	0.000	0.458	0.000	0.006	0.514	0.000	0.003	0.019
539	Hamirpur	Rath	Khiriya	25.64623	79.49624	0.107	0.000	0.000	0.000	0.161	0.000	0.003	0.006
540	Hamirpur	Gohand	Rihunta	25.75546	79.48028	0.000	0.106	0.000	0.004	7.055	0.000	0.004	0.005
541	Hamirpur	Gohand	Jariya	25.76079	79.60269	0.000	0.285	0.000	0.001	1.587	0.000	0.004	0.004
542	Hamirpur	Gohand	Jhabra	25.87078	79.64785	0.000	0.224	0.000	0.002	0.787	0.000	0.003	0.006
543	Hamirpur	Sarila	Harsundi	25.86941	79.74146	0.000	0.614	0.000	0.000	0.267	0.000	0.003	0.000
544	Hamirpur	Sumerpur	Deogaon	25.87945	80.19317	0.000	0.057	0.000	0.000	0.957	0.000	0.003	0.006
545	Hamirpur	Maudaha	Urdana	25.62276	80.17578	0.009	0.414	0.000	0.000	0.118	0.000	0.002	0.028
546	Hamirpur	Maudaha	Lohari	25.74657	80.05780	0.000	0.239	0.000	0.001	0.775	0.000	0.003	0.000
547	Hamirpur	Maudaha	Gadriya Khera (chakdaha)	25.66286	80.03833	0.002	0.827	0.000	0.000	0.257	0.000	0.002	0.013
548	Hamirpur	Muskara	Imaliya	25.65919	79.91122	0.055	0.153	0.000	0.002	0.302	0.001	0.003	0.020
549	Hamirpur	Muskara	Bewar	25.76100	79.92716	0.002	0.604	0.000	0.001	0.470	0.000	0.003	0.012
550	Hamirpur	Sumerpur	Lalpura	25.86184	80.04491	0.000	0.000	0.000	0.000	0.154	0.000	0.002	0.015
551	Hamirpur	Muskara	Muskara	25.66112	79.79365	0.000	0.000	0.000	0.000	8.403	0.000	0.004	0.008

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552	Hamirpur	Rath	Rath	25.59875	79.57689	0.000	0.294	0.155	0.006	1.189	0.000	0.003	0.025
553	Hamirpur	Gohand	Gohand	25.69545	79.54656	0.000	0.194	0.000	0.003	8.219	0.000	0.005	0.006
554	Hamirpur	Sarila	Sarila	25.77278	79.67475	0.003	1.073	0.102	0.000	0.505	0.002	0.004	0.009
555	Hamirpur	Maudaha	Maudaha	25.68756	80.09615	0.000	0.270	0.000	0.000	0.289	0.000	0.002	0.012
556	Hamirpur	Kurara	Kurara	25.97894	79.98483	0.001	0.159	0.000	0.005	0.389	0.000	0.001	0.004
557	Hapur	Dholana	In block office	28.63306	77.64389	0.000	0.614	0.072	0.000	0.415	0.000	0.002	0.063
558	Hapur	Garh	In block office	28.78806	78.08833	0.000	0.233	0.000	0.000	1.275	0.000	0.004	0.010
559	Hapur	Hapur	In block office	28.73661	77.75685	0.000	2.606	0.249	0.000	0.081	0.000	0.000	0.021
560	Hapur	Simbholi	In block office	28.76730	78.00006	0.000	0.238	0.080	0.000	0.000	0.001	0.002	0.010
561	Hapur	Hapur	ON ROSD SIDE	28.78488	77.82690	0.000	0.174	0.000	0.000	0.270	0.000	0.002	0.015
562	Hapur	Hapur	SHIV MANDIR KAKAR	28.67114	77.82794	0.000	6.666	0.260	0.000	2.614	0.004	0.000	0.015
563	Hapur	Garh		28.71402	78.11892	0.000	0.295	0.336	0.000	2.239	0.000	0.000	0.005
564	Hapur	Dholana	Bajherakalan	28.59104	77.71208	0.000	0.102	0.109	0.000	0.105	0.000	0.002	0.018
565	Hardoi	Sandi	Block HQ(in premises of block)	28.58056	77.79056	0.000	0.481	0.338	0.000	0.092	0.000	0.000	0.049
566	Hardoi	Shahabad	Block HQ(in premises of block)	27.64863	79.94333	0.000	2.470	0.177	0.000	0.000	0.019	0.001	0.000
567	Hardoi	Tadiyawan	Block HQ(in premises of block)	27.43792	80.24056	0.000	0.979	0.193	0.000	0.000	0.020	0.000	0.000
568	Hardoi	Mallawan	Block HQ(in premises of block)	27.02580	80.15470	0.000	0.162	0.000	0.000	0.000	0.001	0.000	0.035
569	Hardoi	Madhavganj	Block HQ	27.11741	80.12575	0.000	0.000	0.000	0.000	0.110	0.000	0.000	0.010

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**Cr (mg/L)**	**Fe (mg/L)**	**Mn (mg/L)**	**Cu (mg/L)**	**Zn (mg/L)**	**As (mg/L)**	**Pb (mg/L)**	**U (mg/L)**
570	Hardoi	Kachhauna	In compound of BDO office	27.16329	80.33552	0.000	8.372	0.707	0.000	0.000	0.002	0.000	0.000
571	Hardoi	Sandila	In compound of BDO office	27.05663	80.51737	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
572	Hardoi	Todarpur	Tedwa Chatarpur	27.68216	80.02487	0.000	0.565	0.155	0.000	0.194	0.002	0.000	0.017
573	Hardoi	Pihani	Arua	27.54793	80.16069	0.000	2.274	0.188	0.000	0.065	0.005	0.000	0.004
574	Hardoi	Pihani	Rasoolpur	27.67892	80.28372	0.000	0.478	0.084	0.000	0.000	0.002	0.000	0.000
575	Hardoi	Pihani	Gopamau	27.53111	80.28471	0.000	0.483	0.059	0.000	0.093	0.002	0.000	0.006
576	Hardoi	Bharkhani	Virsinghpur	27.41949	79.87316	0.000	0.190	0.000	0.000	0.088	0.000	0.000	0.004
577	Hardoi	Shahabad	Dariyapur balbhadora	27.54792	79.86620	0.000	1.197	0.000	0.000	0.061	0.001	0.000	0.000
578	Hardoi	Harpalpur	Mubarakpur	27.42194	79.78901	0.000	0.576	0.000	0.000	0.000	0.000	0.000	0.011
579	Hardoi	Harpalpur	Kirtiyarpur	27.28125	79.79636	0.000	4.828	0.142	0.000	0.000	0.000	0.001	0.008
580	Hardoi	Sandi	Kuliya	27.22670	79.83503	0.000	2.953	0.446	0.000	0.000	0.012	0.000	0.000
581	Hardoi	Madhavganj	Dhaniganj	27.03859	80.01935	0.000	1.966	0.059	0.000	0.165	0.002	0.000	0.003
582	Hardoi	Bhender Kalan	Gangakheda	27.05893	80.28643	0.000	1.322	0.207	0.000	0.000	0.003	0.000	0.000
583	Hardoi	Kothawan	Chandrapur	27.15651	80.46159	0.000	0.473	0.105	0.000	0.000	0.001	0.000	0.007
584	Hardoi	Sandila	Bahuti Kalan	27.17722	80.56546	0.000	0.304	0.000	0.000	4.028	0.000	0.001	0.000
585	Hardoi	Sandila	Atwadanda	27.06613	80.60442	0.000	3.461	0.260	0.000	0.397	0.000	0.001	0.000
586	Hathras	Hassain	Block HQ	27.61200	78.26750	0.000	0.386	0.245	0.000	0.064	0.000	0.000	0.010
587	Hathras	Hathras	District H.Q.	27.57300	78.05510	0.001	0.187	0.000	0.000	0.148	0.001	0.000	0.044

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**Cr (mg/L)**	**Fe (mg/L)**	**Mn (mg/L)**	**Cu (mg/L)**	**Zn (mg/L)**	**As (mg/L)**	**Pb (mg/L)**	**U (mg/L)**
588	Hathras	Mursan	Block H.Q.	27.56840	77.94110	0.000	5.046	0.451	0.000	2.444	0.000	0.000	0.016
589	Hathras	Sadabad	Block H.Q.	27.44660	78.04010	0.000	2.211	0.000	0.000	0.084	0.000	0.000	0.000
590	Hathras	Sahpau	Block H.Q.	27.43690	78.13740	0.000	0.130	0.000	0.000	2.683	0.000	0.001	0.034
591	Hathras	Sasni	Block H.Q.	27.69110	78.07410	0.000	0.453	0.000	0.000	3.418	0.000	0.000	0.041
592	Hathras	Sikandra rao	Block H.Q.	27.69260	78.07410	0.000	0.747	0.000	0.000	0.000	0.001	0.002	0.008
593	Hathras	Mursan	Aharai	27.52751	77.95120	0.000	1.142	0.000	0.000	0.000	0.000	0.000	0.014
594	Hathras	Sasni	Rahna	27.65869	78.03921	0.000	0.091	0.000	0.000	0.240	0.001	0.000	0.013
595	Hathras	Sasni	Lutsan	27.64833	78.13538	0.000	0.000	0.000	0.000	0.548	0.000	0.000	0.016
596	Hathras	Hathras	Mohari	27.64944	78.15311	0.000	0.000	0.000	0.000	0.324	0.000	0.000	0.043
597	Hathras	Hathras	Singhal	27.52171	78.15991	0.000	0.199	0.055	0.000	0.000	0.000	0.000	0.119
598	Jalaun	Dakore	Block Campus	25.87501	79.42484	0.000	0.579	0.000	0.000	0.190	0.000	0.001	0.010
599	Jalaun	Konch	Block Campus	26.00174	79.16184	0.006	0.183	0.000	0.000	0.085	0.000	0.002	0.007
600	Jalaun	Rampura	Block Campus	26.34813	79.18386	0.002	0.882	0.000	0.000	0.881	0.000	0.005	0.004
601	Jalaun	Konch	Swami	26.01694	79.04500	0.000	0.482	0.051	0.000	0.000	0.000	0.016	0.004
602	Jalaun	Konch	Pahargaon	25.87167	79.06722	0.002	0.333	0.000	0.000	0.000	0.000	0.002	0.005
603	Jalaun	Nadigaon	Mahatwani	26.15083	79.19861	0.002	0.415	0.000	0.000	1.955	0.000	0.003	0.000
604	Jalaun	Konch	Bilalya	25.87583	79.19556	0.000	0.679	0.000	0.000	0.155	0.000	0.003	0.000
605	Jalaun	Rampura	Husepura Surai	26.36417	79.30861	0.002	2.681	0.000	0.000	1.201	0.000	0.007	0.000

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606	Jalaun	Madhoganj	Rajpura	26.25500	79.30167	0.000	0.620	0.000	0.000	0.000	0.000	0.001	0.008
607	Jalaun	Dakor	Kushmi Mauja	25.99472	79.31889	0.000	0.143	0.157	0.000	0.206	0.001	0.003	0.005
608	Jalaun	Dakor	Garon	25.86278	79.34639	0.000	0.000	0.000	0.000	0.095	0.000	0.002	0.005
609	Jalaun	Kuthond	Jakha Bambi	26.28139	79.44528	0.001	0.875	0.000	0.000	0.096	0.000	0.002	0.003
610	Jalaun	Jalaun	Babai	26.17139	79.46528	0.005	0.683	0.000	0.000	0.836	0.000	0.002	0.004
611	Jalaun	Kadaura	Sandhi	26.00417	79.60083	0.000	0.379	0.000	0.000	0.338	0.000	0.002	0.004
612	Jalaun	Mahewa	Madarpur	26.14000	79.73639	0.006	0.076	0.000	0.000	0.092	0.000	0.001	0.006
613	Jalaun	Kadaura	Dadupur	26.01194	79.73111	0.001	0.100	0.000	0.000	0.313	0.000	0.001	0.000
614	Jaunpur	Mungra Badshahpur	Block office	25.65630	82.18872	0.000	1.094	0.000	0.000	0.163	0.000	0.002	0.008
615	Jaunpur	Machchli Sahar	BDO OFFICE	25.66820	82.39920	0.000	0.094	0.000	0.000	0.189	0.000	0.000	0.030
616	Jaunpur	Badlapur	Bahripur	25.98167	82.44528	0.000	0.239	0.000	0.000	0.135	0.000	0.000	0.015
617	Jaunpur	Baksha	Leduka Bazar	25.88333	82.55194	0.000	0.078	0.000	0.000	1.696	0.000	0.002	0.009
618	Jaunpur	Mungra Badshahpur	Sajai Kalan	25.63889	82.28583	0.000	0.240	0.000	0.000	0.000	0.000	0.000	0.015
619	Jaunpur	Sikrara	Baraipur	25.76417	82.42778	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007
620	Jaunpur	Suitha kalan	Arsiya	26.12940	82.57520	0.000	0.109	0.000	0.000	0.236	0.000	0.000	0.012
621	Jaunpur	Rampur	Dhanachu	25.50770	82.70240	0.000	0.000	0.000	0.000	0.758	0.000	0.000	0.005
622	Jaunpur	Shahganj	Itwari Bazar	25.87250	82.71040	0.000	0.000	0.000	0.000	0.180	0.000	0.001	0.005
623	Jaunpur	Jaunpur	In Jaunpur City	25.74472	82.68444	0.000	1.831	0.000	0.000	0.152	0.000	0.000	0.012

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624	Jaunpur	Ram Nagar	Block office	25.55528	82.62000	0.000	0.212	0.134	0.000	0.091	0.000	0.001	0.000
625	Jaunpur	Rampur	Block office	25.49028	82.57083	0.000	0.109	0.000	0.000	0.243	0.000	0.000	0.031
626	Jaunpur	Shahganj	Shahganj	25.96611	82.67500	0.000	0.076	0.000	0.000	1.096	0.000	0.000	0.004
627	Jaunpur	Dharampur	Block Office	25.75250	82.74750	0.000	0.522	0.000	0.000	0.263	0.000	0.003	0.034
628	Jaunpur	Dharampur	Jamaitha Village	25.73240	82.72450	0.000	2.187	0.201	0.035	2.365	0.000	0.003	0.040
629	Jaunpur	Dharampur	Arazi Bhagwathipur	25.76330	82.73040	0.000	0.416	0.078	0.000	0.801	0.000	0.002	0.020
630	Jaunpur	Dharampur	Kabirauddinpur	25.76710	82.75850	0.000	0.304	0.000	0.000	0.000	0.001	0.002	0.027
631	Jaunpur	Dharampur	Ghajna village	25.73170	82.77990	0.000	0.355	0.000	0.000	0.664	0.000	0.010	0.010
632	Jaunpur	Barsathi	Block Office	25.56167	82.47139	0.002	0.885	0.000	0.000	0.464	0.000	0.006	0.022
633	Jaunpur	Dobhi	Block Office	25.59389	82.99778	0.000	0.638	0.000	0.000	0.465	0.000	0.006	0.007
634	Jaunpur	Jalalpur	Block Office	25.60806	82.75861	0.005	0.163	0.000	0.000	2.721	0.000	0.005	0.007
635	Jaunpur	Karanja Kalan	Block Office	25.80472	82.68972	0.000	0.196	0.000	0.000	1.427	0.000	0.003	0.023
636	Jaunpur	Kerakat	Block Office	25.64556	82.91972	0.000	0.000	0.000	0.000	0.327	0.000	0.004	0.010
637	Jaunpur	Khutahan	Block Office	25.98000	82.57833	0.000	0.119	0.000	0.000	0.429	0.000	0.000	0.006
638	Jaunpur	Madiyayahun	Block Office	25.64000	82.61417	0.000	0.256	0.000	0.000	0.806	0.000	0.000	0.032
639	Jaunpur	Muftiganj	Block Office	25.69750	82.82861	0.000	0.320	0.000	0.000	1.551	0.000	0.000	0.006
640	Jaunpur	Sirkoni	Block Office	25.67167	82.72778	0.000	8.091	0.073	0.000	0.181	0.000	0.000	0.036
641	Jaunpur	Suitha Kalan	Block Office	26.10028	82.50083	0.000	0.507	0.000	0.000	0.653	0.000	0.000	0.010

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642	Jhansi	Babina	Block Campus	25.23391	78.46967	0.000	0.512	0.000	0.000	0.630	0.000	0.004	0.000
643	Jhansi	Bamaur	Block Campus	25.61314	79.18572	0.000	0.761	0.000	0.000	1.109	0.000	0.002	0.024
644	Jhansi	Bangra	Block Campus	25.31156	79.00384	0.000	0.257	0.000	0.000	0.164	0.000	0.001	0.015
645	Jhansi	Baragaon	Block Campus	25.47376	78.70009	0.002	1.448	0.000	0.000	0.879	0.001	0.004	0.012
646	Jhansi	Chirgaon	Block Campus	25.57110	78.80584	0.002	2.009	0.060	0.000	0.097	0.000	0.004	0.018
647	Jhansi	District HQ	Vikas Bhawan Jhansi	25.44363	78.57753	0.000	4.072	0.105	0.000	0.741	0.000	0.034	0.000
648	Jhansi	Gursarai	Block Campus	25.61314	79.18572	0.000	2.356	0.000	0.000	1.060	0.000	0.009	0.022
649	Jhansi	Mauranipur	Block Campus	25.25540	79.14371	0.000	0.259	0.000	0.000	0.207	0.000	0.002	0.005
650	Jhansi	Moth	Block Campus	25.72993	78.95227	0.000	0.999	0.000	0.000	3.413	0.000	0.009	0.010
651	Jhansi	Babina	Sarvad	25.30417	78.41139	0.000	0.163	0.000	0.000	0.000	0.000	0.002	0.004
652	Jhansi	Babina	Chattpur Bachauni	25.42056	78.35917	0.000	0.610	0.000	0.000	0.000	0.000	0.002	0.000
653	Jhansi	Babina	Pali Pahari	25.45806	78.49306	0.002	1.444	0.000	0.000	0.165	0.000	0.000	0.007
654	Jhansi	Babina	Mathurapora	25.35472	78.48556	0.000	0.221	0.000	0.000	0.265	0.001	0.001	0.007
655	Jhansi	Baragaon	Dhikoli	25.49222	78.45361	0.000	0.356	0.000	0.000	0.575	0.000	0.002	0.005
656	Jhansi	Babina	Ghesoli	25.16556	78.46000	0.000	0.124	0.000	0.000	0.000	0.000	0.003	0.000
657	Jhansi	Baragaon	IGFRI	25.52722	78.55472	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.008
658	Jhansi	Babina	khailar	25.34528	78.53500	0.000	0.134	0.000	0.000	0.120	0.000	0.003	0.000
659	Jhansi	Baragaon	Badal Pucha	25.52139	78.66111	0.000	0.439	0.000	0.000	0.082	0.000	0.003	0.008

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660	Jhansi	Baragaon	Telheta Kalan	25.43056	78.74444	0.000	0.355	0.000	0.000	0.000	0.000	0.001	0.018
661	Jhansi	Chirgaon	Bakua Bujarg	25.71139	78.86944	0.003	0.109	0.000	0.000	0.544	0.000	0.003	0.006
662	Jhansi	Chirgaon	Baral	25.61222	78.85806	0.001	0.464	0.000	0.000	0.300	0.000	0.002	0.014
663	Jhansi	Baragaon	Shakti Bhairu	25.51472	78.85389	0.000	0.486	0.000	0.000	0.132	0.000	0.001	0.015
664	Jhansi	Bangra	Jawan	25.34250	78.85528	0.000	0.363	0.000	0.000	0.000	0.000	0.002	0.010
665	Jhansi	Bangra	kanaura	25.24694	78.83972	0.000	1.099	0.000	0.000	0.000	0.000	0.003	0.000
666	Jhansi	Chirgaon	Kalyanpura	25.60639	78.94111	0.003	2.461	0.000	0.000	0.130	0.000	0.002	0.009
667	Jhansi	Bamanua	Bamanua	25.52833	78.97694	0.000	0.442	0.000	0.000	0.505	0.000	0.002	0.035
668	Jhansi	Bangra	Ghanghri	25.44028	78.97222	0.000	1.626	0.088	0.000	0.073	0.000	0.005	0.151
669	Jhansi	Bangra	Kachnev	25.27111	78.97611	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.005
670	Jhansi	Bamaur	Afarsua	25.61167	79.06611	0.000	0.729	0.000	0.000	0.100	0.000	0.001	0.014
671	Jhansi	Bamaur	Samserpura	25.68806	79.03611	0.000	0.904	0.000	0.000	0.261	0.000	0.003	0.014
672	Jhansi	Gursarai	Ghuraiya	25.54639	79.05972	0.000	0.827	0.000	0.000	0.080	0.000	0.003	0.016
673	Jhansi	Gursarai	Dadpura	25.42583	79.04417	0.000	0.353	0.000	0.000	0.000	0.000	0.001	0.010
674	Jhansi	Mauranipur	Sinora	25.36000	79.07583	0.000	1.201	0.000	0.000	0.058	0.000	0.003	0.010
675	Jhansi	Bangra	Kanipur	25.26806	79.07028	0.000	2.325	0.070	0.000	0.729	0.000	0.004	0.000
676	Jhansi	Bangra	Banda	25.15972	79.05583	0.000	1.072	0.000	0.000	0.242	0.000	0.006	0.003
677	Jhansi	Gursarai	Bhasneh	25.54167	79.15917	0.002	2.098	0.000	0.000	0.545	0.000	0.005	0.014

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**Cr (mg/L)**	**Fe (mg/L)**	**Mn (mg/L)**	**Cu (mg/L)**	**Zn (mg/L)**	**As (mg/L)**	**Pb (mg/L)**	**U (mg/L)**
678	Jhansi	Gursarai	Dugara	25.45278	79.15278	0.000	0.473	0.000	0.000	0.000	0.000	0.000	0.014
679	Jhansi	Mauranipur	Godwa	25.36139	79.15139	0.000	0.662	0.000	0.000	0.196	0.000	0.005	0.015
680	Jhansi	Mauranipur	Churaha	25.17306	79.18528	0.000	1.128	0.000	0.000	0.094	0.000	0.002	0.000
681	Jhansi	Mauranipur	Bamhauri	25.33306	79.22583	0.000	1.437	0.000	0.000	0.085	0.000	0.002	0.004
682	Jhansi	Mauranipur	Dhaypur	25.24139	79.25806	0.002	1.575	0.000	0.000	0.068	0.000	0.002	0.000
683	Jhansi	Mauranipur	Kadaura	25.17222	79.25444	0.000	0.205	0.000	0.000	0.052	0.000	0.001	0.003
684	Jhansi	Moth	Saiokhari	25.86083	78.91556	0.010	0.763	0.000	0.000	0.158	0.000	0.002	0.004
685	Jhansi	Moth	Panarri	25.76889	79.02333	0.002	0.251	0.000	0.000	0.165	0.000	0.000	0.032
686	Jhansi	Bamaur	Bhadarwar	25.74333	79.16917	0.001	1.077	0.053	0.000	0.212	0.000	0.002	0.006
687	Jhansi	Bamaur	Tharo-II	25.75528	79.31806	0.000	0.854	0.000	0.000	0.391	0.000	0.003	0.028
688	Jhansi	Bamaur	Domurai	25.62639	79.31806	0.001	1.782	0.000	0.000	0.630	0.000	0.005	0.004
689	Jhansi	Gursarai	Pura	25.49583	79.34000	0.001	2.854	0.000	0.000	0.671	0.000	0.002	0.006
690	Kannauj	Umarda	Liluiya	26.90132	79.73481	0.000	0.750	0.107	0.000	0.284	0.000	0.000	0.024
691	Kannauj	Umarda	Thathiya	26.91626	79.89128	0.000	0.000	0.000	0.000	0.065	0.000	0.000	0.000
692	Kannauj	Kannauj	Kannauj Block Office	27.03375	79.92148	0.000	0.000	0.000	0.000	0.095	0.000	0.000	0.029
693	Kannauj	Umarda	Umarda Block Office	26.99976	79.78909	0.000	0.000	0.000	0.000	0.314	0.000	0.003	0.039
694	Kannauj	Gugrapur	Gugrapur Block Office	27.12548	79.86535	0.000	0.074	0.117	0.000	0.728	0.000	0.000	0.029
695	Kannauj	Jalalabad	Jalalabad Block Office	27.10018	79.77746	0.000	0.483	0.000	0.000	1.731	0.000	0.000	0.023

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696	Kannauj	Talgram	Talgram Block Office	27.12334	79.67804	0.000	0.227	0.000	0.000	0.399	0.000	0.000	0.005
697	Kannauj	Talgram	Indergarh	27.04968	79.64376	0.000	0.100	0.000	0.000	0.805	0.000	0.001	0.008
698	Kannauj	Chhibramau	Sikanderpur	27.13989	79.60595	0.000	0.197	0.000	0.000	0.114	0.000	0.000	0.014
699	Kannauj	Chhibramau	Chhibramau Block Office	27.14427	79.51212	0.000	0.389	0.000	0.000	0.308	0.000	0.000	0.028
700	Kannauj	Saurikh	Saurikh	27.02791	79.48094	0.000	0.403	0.208	0.000	0.096	0.000	0.000	0.035
701	Kannauj	Saurikh	Saurikh Block Office	26.97860	79.49489	0.000	0.094	0.000	0.000	0.320	0.000	0.000	0.026
702	Kannauj	Haseran	Haseran Block Office	26.91851	79.58062	0.000	0.420	0.000	0.000	0.000	0.001	0.000	0.044
703	Kannauj	Haseran	Baikpurwa	26.89796	79.61080	0.000	0.805	0.000	0.000	0.000	0.000	0.000	0.037
704	Kanpur Dehat	Sandalpur	Sandalpur Block Office	26.42228	79.67447	0.000	0.120	0.087	0.000	0.126	0.000	0.000	0.016
705	Kanpur Dehat	Rajpur	Pitampur	26.39056	79.60149	0.000	0.000	0.000	0.000	0.144	0.000	0.000	0.047
706	Kanpur Dehat	Rajpur	Rajpur Block Office	26.30321	79.68724	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013
707	Kanpur Dehat	Rajpur	Behmai	26.27006	79.59811	0.000	0.084	0.000	0.000	1.309	0.000	0.000	0.007
708	Kanpur Dehat	Amraudha	Amraudha Block Office	26.19597	79.77950	0.000	0.000	0.000	0.000	0.105	0.001	0.000	0.015
709	Kanpur Dehat	Amraudha	Sultanpur	26.16746	79.88393	0.000	0.000	0.000	0.000	0.120	0.000	0.000	0.011
710	Kanpur Dehat	Malasa	Malasa Block Office	26.27046	79.93851	0.000	1.110	0.000	0.000	0.319	0.000	0.000	0.008
711	Kanpur Dehat	Malasa	Gissi	26.25356	80.01317	0.000	0.395	0.000	0.000	0.000	0.000	0.000	0.011
712	Kanpur Dehat	SarvanKhera	Sarvan Khera Block Office	26.35930	80.09120	0.000	7.873	0.099	0.000	0.460	0.000	0.000	0.014
713	Kanpur Dehat	Akberpur	Barah	26.38229	80.01238	0.001	0.180	0.000	0.000	0.000	0.000	0.000	0.018

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714	Kanpur Dehat	Akberpur	Maati Kishanpur	26.33967	79.96451	0.000	0.000	0.186	0.000	0.000	0.000	0.000	0.007
715	Kanpur Dehat	Akberpur	Akberpur Block Office	26.38233	79.95612	0.000	0.000	0.000	0.000	0.351	0.003	0.000	0.084
716	Kanpur Dehat	Akberpur	Muktapur	26.42542	79.93495	0.000	0.079	0.000	0.000	0.130	0.000	0.000	0.026
717	Kanpur Dehat	Akberpur	Mohammadpur	26.37434	79.89768	0.000	0.305	0.000	0.000	0.340	0.000	0.000	0.020
718	Kanpur Dehat	Derapur	Derapur Block Office	26.41748	79.79322	0.000	0.000	0.000	0.000	1.443	0.000	0.000	0.022
719	Kanpur Dehat	Jhinjhak	Parjani Chowk	26.57274	79.67521	0.000	0.000	0.000	0.000	0.094	0.001	0.000	0.019
720	Kanpur Dehat	Jhinjhak	Jhinjhak Block Office	26.55404	79.72583	0.000	0.119	0.056	0.000	0.450	0.000	0.000	0.023
721	Kanpur Dehat	Rasoolabad	Naharpur	26.58953	79.75574	0.000	0.212	0.092	0.000	0.201	0.000	0.000	0.016
722	Kanpur Dehat	Jhinjhak	Gaupur	26.59961	79.79670	0.000	0.553	0.124	0.000	0.089	0.000	0.000	0.051
723	Kanpur Dehat	Rasoolabad	Rasoolabad Block Office	26.66804	79.78387	0.000	0.385	0.134	0.000	1.932	0.000	0.000	0.034
724	Kanpur Dehat	Rasoolabad	Gadhewa Bahadurpur	26.65757	79.83141	0.000	1.304	0.000	0.000	0.094	0.000	0.000	0.028
725	Kanpur Dehat	Rasoolabad	Pal Nagar	26.66576	79.74335	0.000	0.000	0.000	0.000	0.112	0.000	0.000	0.014
726	Kanpur Dehat	Rasoolabad	Usari	26.71646	79.74446	0.000	0.061	0.000	0.000	0.083	0.001	0.001	0.020
727	Kanpur Dehat	Maitha	Maitha Block Office	26.53024	80.05570	0.000	0.000	0.000	0.000	0.093	0.000	0.001	0.016
728	Kanpur Dehat	Maitha	Matikapur	26.51586	80.15629	0.001	0.000	0.000	0.000	0.000	0.001	0.002	0.171
729	Kanpur Nagar	Kalyanpur	Kalyanpur Block Office	26.50420	80.25477	0.000	1.106	0.110	0.000	0.446	0.001	0.001	0.006
730	Kanpur Nagar	Kalyanpur	Binaur	26.39781	80.16693	0.000	0.000	0.000	0.000	0.603	0.001	0.003	0.019
731	Kanpur Nagar	Bidhnoo	Bidhnoo Block Office	26.32434	80.27438	0.000	0.000	0.000	0.000	0.071	0.000	0.002	0.011

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732	Kanpur Nagar	Sarsaul	Sarsaul Block Office	26.28604	80.48780	0.000	0.067	0.000	0.000	0.065	0.000	0.002	0.008
733	Kanpur Nagar	Patara	Patara Block Office	26.23330	80.19656	0.000	0.000	0.000	0.000	0.319	0.000	0.001	0.006
734	Kanpur Nagar	Ghatampur	Ghatampur Block Office	26.15322	80.15543	0.000	1.746	0.177	0.000	0.093	0.000	0.001	0.018
735	Kanpur Nagar	Ghatampur	Ghughuwa	26.14806	80.03058	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.026
736	Kanpur Nagar	Ghatampur	Baripal road	26.01119	80.19143	0.000	0.000	0.000	0.000	0.274	0.000	0.002	0.013
737	Kanpur Nagar	Bhitargaon	Tajpur	26.13938	80.31636	0.000	0.613	0.086	0.000	1.884	0.000	0.001	0.012
738	Kanpur Nagar	Bhitargaon	Bhitargaon Block Office	26.21264	80.27707	0.000	0.000	0.000	0.000	0.348	0.000	0.002	0.017
739	Kanpur Nagar	Chaubepur	Chaubepur Block Office	26.62149	80.19182	0.000	0.000	0.105	0.000	0.471	0.000	0.000	0.021
740	Kanpur Nagar	Kanpur (HQ)	Fazalganj Police Station, Kanpur City	26.46265	80.31051	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.031
741	Kanpur Nagar	Shivrajpur	Shivrajpur Block Office	26.68626	80.14051	0.000	1.264	0.131	0.000	0.231	0.002	0.002	0.007
742	Kanpur Nagar	Shivrajpur	Taktauli	26.66160	80.04165	0.000	0.000	0.000	0.000	0.133	0.000	0.001	0.013
743	Kanpur Nagar	Kakwan	Kakwan Block Office	26.74262	79.97628	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.028
744	Kanpur Nagar	Kakwan	Gadaipur	26.78154	79.88151	0.000	1.616	0.241	0.000	1.679	0.002	0.003	0.008
745	Kanpur Nagar	Bilhaur	Araul	26.91546	80.02520	0.002	0.000	0.000	0.000	1.275	0.000	0.001	0.016
746	Kanpur Nagar	Bilhaur	Bilhaur Block Office	26.84474	80.05790	0.000	0.116	0.051	0.000	0.237	0.000	0.002	0.016
747	Kanshiram Nagar (Kasganj)	Soron	Nagla Ulfat Chauraha	27.92744	78.61373	0.000	0.234	0.000	0.000	0.000	0.000	0.001	0.030
748	Kanshiram Nagar (Kasganj)	Kasganj	Block Office	27.81790	78.65615	0.000	0.000	0.150	0.000	1.165	0.000	0.000	0.003

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749	Kanshiram Nagar (Kasganj)	Patiyali	Block Office	27.69128	78.99889	0.000	2.443	0.000	0.000	0.000	0.000	0.001	0.009
750	Kanshiram Nagar (Kasganj)	Sahawar	Block Office	27.79010	78.82921	0.000	0.051	0.178	0.000	2.015	0.000	0.001	0.005
751	Kanshiram Nagar (Kasganj)	Sidhpura	Block Office	27.63089	78.86602	0.000	0.190	0.121	0.000	0.072	0.000	0.000	0.007
752	Kanshiram Nagar (Kasganj)	Soron	Block Office	27.88915	78.75138	0.000	0.105	0.000	0.000	0.356	0.000	0.001	0.008
753	Kaushambi	Kara	Inside block office	25.69530	81.35950	0.000	0.153	0.000	0.000	0.000	0.000	0.000	0.007
754	Kaushambi	Muratganj	Inside block office	25.55500	81.53850	0.000	0.985	0.055	0.000	7.063	0.000	0.000	0.012
755	Kaushambi	Kara	Hisanpur Parsakhi	25.63250	81.42722	0.000	0.078	0.000	0.000	3.500	0.000	0.000	0.003
756	Kaushambi	Newada	Bohagara Sarai	25.37806	81.54417	0.008	0.076	0.000	0.000	0.000	0.000	0.002	0.022
757	Kaushambi	Sarsawan	Chanderi	25.39444	81.30000	0.002	0.162	0.000	0.000	0.405	0.000	0.000	0.007
758	Kushinagar	Dudhai	In the premises of Block Office	26.79790	84.15601	0.000	3.304	0.090	0.000	0.000	0.023	0.000	0.000
759	Kushinagar	Fazil Nagar	In the premises of Block Office	26.68252	84.04678	0.000	0.100	0.151	0.000	0.744	0.002	0.000	0.000
760	Kushinagar	Hata	In the premises of Block Office	26.73953	83.73170	0.000	1.946	0.000	0.000	0.127	0.005	0.001	0.000
761	Kushinagar	Kasiya	In the premises of Block Office	26.75028	83.91387	0.000	0.094	0.000	0.000	0.090	0.009	0.001	0.000
762	Kushinagar	Khadda	In the premises of Block Office	27.17891	83.88130	0.000	2.293	0.167	0.000	0.140	0.000	0.001	0.000
763	Kushinagar	Nebuwa Naurangia	In the premises of Block Office	27.05420	83.86880	0.000	3.045	0.385	0.000	0.440	0.007	0.001	0.000
764	Kushinagar	Sewarhi	In the premises of Block Office	26.72440	84.21640	0.000	1.516	0.084	0.000	0.292	0.005	0.000	0.000

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765	Kushinagar	Hata	Lakshmipur Dhush	26.76375	83.71938	0.000	0.244	0.061	0.000	0.127	0.000	0.000	0.005
766	Kushinagar	Tamkuhi	Basdila Pandey	26.75912	84.01316	0.000	1.832	0.000	0.000	0.644	0.000	0.000	0.000
767	Kushinagar	Vishunpurwa	Hiranai	27.00803	84.00466	0.000	2.057	0.194	0.000	0.000	0.015	0.000	0.000
768	Kushinagar	Sewarhi	Habirpur	26.63340	84.28095	0.000	7.699	0.159	0.000	0.606	0.001	0.000	0.000
769	Lakhimpur Kheri	Nakaha	Block HQ(in premises of block)	28.15563	80.41387	0.000	3.491	0.237	0.000	0.000	0.047	0.001	0.000
770	Lakhimpur Kheri	Ishanagasr	Block HQ(in premises of block)	27.90759	81.20733	0.000	3.805	0.000	0.000	0.117	0.027	0.000	0.000
771	Lakhimpur Kheri	Dhaurahra	Block HQ(in premises of block)	28.00146	81.08507	0.000	2.355	0.000	0.000	0.295	0.002	0.002	0.000
772	Lakhimpur Kheri	Ramaiya Behar	Block HQ(in premises of block)	28.13528	81.03268	0.000	3.101	0.157	0.000	0.428	0.001	0.001	0.000
773	Lakhimpur Kheri	Nighasan	Block HQ(in premises of block)	28.39606	80.86365	0.000	3.269	0.161	0.000	0.211	0.049	0.000	0.000
774	Lakhimpur Kheri	Palia Kalan	Block HQ(in premises of block)	28.43721	80.56035	0.000	6.576	0.057	0.000	0.206	0.039	0.003	0.000
775	Lakhimpur Kheri	Behjam	Block HQ(in premises of block)	27.88302	80.63760	0.000	1.232	0.056	0.000	0.147	0.007	0.003	0.003
776	Lakhimpur Kheri	Mitauli	Block HQ(in premises of block)	27.81769	80.47653	0.000	3.990	0.000	0.000	0.000	0.000	0.000	0.005
777	Lakhimpur Kheri	Pasgawan	Block HQ(in premises of block)	27.81851	80.16942	0.000	0.302	0.000	0.000	0.000	0.000	0.002	0.000
778	Lakhimpur Kheri	Mohammadi	Block HQ(in premises of block)	27.94256	80.21307	0.000	1.733	0.000	0.000	0.156	0.000	0.002	0.004
779	Lakhimpur Kheri	Gola	Block HQ(in premises of block)	28.06955	80.48283	0.000	0.362	0.075	0.000	0.246	0.001	0.000	0.000
780	Lakhimpur Kheri	Khiri	Block HQ(in premises of block)	27.95056	80.76861	0.000	0.134	0.083	0.000	0.000	0.003	0.002	0.008
781	Lakhimpur Kheri	Phoolbehar	Block HQ(in premises of block)	28.06526	80.80620	0.000	2.840	0.172	0.000	0.000	0.003	0.002	0.000
782	Lakhimpur Kheri	Bijua	Block HQ(in premises of block)	28.26997	80.60062	0.000	0.103	0.000	0.000	0.000	0.002	0.000	0.000

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783	Lakhimpur Kheri	Ishanagar	Palia	27.92416	81.19408	0.000	1.574	0.000	0.000	0.168	0.049	0.000	0.000
784	Lakhimpur Kheri	Ishanagar	Ishangar Bypass	27.89208	81.20668	0.000	1.045	0.370	0.000	0.181	0.015	0.000	0.000
785	Lakhimpur Kheri	Ishanagar	Shivpur	27.89327	81.21541	0.000	2.186	0.051	0.000	0.477	0.029	0.001	0.000
786	Lakhimpur Kheri	Nakaha	Katkusuma	21.86418	80.93050	0.000	1.001	0.050	0.000	0.109	0.008	0.001	0.000
787	Lakhimpur Kheri	Nakaha	Jodhapurwa	27.89871	80.92569	0.000	9.799	0.129	0.000	0.075	0.002	0.000	0.000
788	Lakhimpur Kheri	Nakaha	Jhandi	27.89827	80.95592	0.000	5.448	0.593	0.000	0.086	0.006	0.002	0.000
789	Lakhimpur Kheri	Nakaha	Ramwapur	27.87146	80.96304	0.000	5.715	0.336	0.000	0.092	0.018	0.000	0.000
790	Lakhimpur Kheri	Nighasan	Rakheti	28.21900	80.89733	0.000	3.184	0.159	0.000	1.683	0.005	0.000	0.000
791	Lakhimpur Kheri	Nighasan	Bhajanpurwa	28.21880	80.86071	0.000	3.263	0.128	0.000	0.000	0.047	0.000	0.000
792	Lakhimpur Kheri	Nighasan	Baglaha Kutti	28.23429	80.85352	0.000	2.301	0.145	0.000	0.513	0.041	0.000	0.000
793	Lakhimpur Kheri	Nighasan	forest officer south range	28.24795	80.83845	0.000	1.103	0.057	0.000	1.074	0.015	0.002	0.000
794	Lakhimpur Kheri	Palia Kalan	Nagla	28.42512	80.54517	0.000	0.678	0.000	0.000	0.375	0.029	0.002	0.000
795	Lakhimpur Kheri	Palia Kalan	Nemuabojh	28.44409	80.54217	0.000	1.158	0.082	0.000	0.446	0.017	0.001	0.000
796	Lakhimpur Kheri	Palia Kalan	Aithpur	28.45199	80.55785	0.000	6.523	0.078	0.000	0.412	0.033	0.001	0.000
797	Lakhimpur Kheri	Palia Kalan	Palia	28.43734	80.57762	0.000	2.270	0.000	0.000	0.212	0.052	0.000	0.000
798	Lakhimpur Kheri	Isanagar	Midaniya	27.81406	81.16249	0.000	2.349	0.206	0.000	0.000	0.015	0.000	0.000
799	Lakhimpur Kheri	Dhaurahara	khagipur	27.94884	81.03210	0.000	6.786	0.194	0.000	0.248	0.003	0.001	0.000
800	Lakhimpur Kheri	Ramiabehar	Bhutpurwa	28.04565	81.14550	0.000	1.414	0.214	0.000	0.156	0.007	0.000	0.000

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801	Lakhimpur Kheri	Palia	Digiyanai Chauraha	28.63972	80.57313	0.000	3.160	0.067	0.000	1.602	0.031	0.001	0.000
802	Lakhimpur Kheri	Palia	Massankambh	28.57604	80.68861	0.000	5.634	0.157	0.000	0.000	0.004	0.000	0.000
803	Lakhimpur Kheri	Nighasan	Ramupur	28.32829	81.00460	0.000	7.094	0.173	0.000	0.131	0.008	0.002	0.000
804	Lakhimpur Kheri	Palia	Kadeya	28.43647	80.92549	0.000	7.242	0.163	0.000	0.894	0.013	0.000	0.000
805	Lakhimpur Kheri	Nighasan	Singahi Bhiraura	28.31730	80.89225	0.000	6.110	0.209	0.000	0.676	0.019	0.000	0.000
806	Lakhimpur Kheri	Palia	Gahra farm	28.32202	80.73144	0.000	2.879	0.060	0.000	0.683	0.020	0.000	0.000
807	Lakhimpur Kheri	Palia	Bhagawant Nagar	28.38561	80.69248	0.000	4.707	0.081	0.000	0.149	0.087	0.002	0.000
808	Lakhimpur Kheri	Nighasan	Mallpur	28.17713	80.69587	0.000	2.367	0.217	0.000	0.000	0.004	0.000	0.005
809	Lakhimpur Kheri	Mitauli	Pipra Jhala	27.81003	80.58587	0.000	2.915	0.062	0.000	0.601	0.000	0.001	0.010
810	Lakhimpur Kheri	Pasgawan	Pharia Piparia	27.80430	80.30941	0.000	0.055	0.000	0.000	0.066	0.004	0.001	0.000
811	Lakhimpur Kheri	Kumbhigola	Mahmoodpur	27.94998	80.31758	0.000	0.000	0.000	0.000	0.137	0.002	0.000	0.000
812	Lakhimpur Kheri	Mitauli	Madariya Tiraha	27.93612	80.44368	0.000	0.082	0.000	0.000	0.143	0.000	0.001	0.000
813	Lakhimpur Kheri	Phulbehar	Sunderwal	28.06223	80.73556	0.000	1.021	0.108	0.000	0.000	0.010	0.000	0.000
814	Lakhimpur Kheri	Lakhimpur	Bakkhari	28.07213	80.56911	0.000	2.909	0.140	0.000	0.000	0.001	0.001	0.000
815	Lakhimpur Kheri	Bijua	Gogawan	28.19462	80.59700	0.000	1.377	0.155	0.000	0.000	0.003	0.002	0.000
816	Lakhimpur Kheri	Bankeyganj	Bhira	28.32348	80.47131	0.000	0.172	0.123	0.000	0.000	0.003	0.000	0.000
817	Lakhimpur Kheri	Palia	Murar Kheda	28.56630	80.42454	0.000	1.365	0.187	0.000	0.102	0.006	0.000	0.000
818	Lakhimpur Kheri	Palia	Gadaniya	28.47912	80.47140	0.000	8.530	0.337	0.000	0.322	0.046	0.000	0.000

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819	Lalitpur	Bar	Block Campus	24.86233	78.58815	0.003	4.577	1.023	0.034	1.381	0.000	0.015	0.006
820	Lalitpur	Jakhauar	Block Campus	24.89603	78.33887	0.000	0.197	0.000	0.000	0.376	0.000	0.002	0.006
821	Lalitpur	Madaro	Block Campus	24.37258	78.79309	0.005	6.873	0.072	0.093	1.604	0.000	0.013	0.000
822	Lalitpur	Mehrauni	Block Campus	24.57686	78.72659	0.000	0.638	0.000	0.000	0.537	0.000	0.007	0.004
823	Lalitpur	Talbehat	Block Campus	25.03971	78.42278	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003
824	Lalitpur	Jakhora	Baroda Swami	24.87861	78.29611	0.000	0.066	0.000	0.000	0.948	0.000	0.003	0.000
825	Lalitpur	Jakhora	Lagaon	24.81056	78.28167	0.000	0.958	0.000	0.000	0.270	0.000	0.002	0.000
826	Lalitpur	Jakhora	Burhwar	24.71556	78.32000	0.000	0.068	0.000	0.000	0.353	0.000	0.001	0.000
827	Lalitpur	Birdha	Sepura	24.52028	78.30139	0.000	1.538	0.516	0.000	0.418	0.000	0.000	0.003
828	Lalitpur	Birdha	Dhora	24.44361	78.32500	0.000	1.095	0.000	0.000	0.586	0.000	0.003	0.000
829	Lalitpur	Talbehat	Bijrotha Para	24.96861	78.39361	0.000	0.559	0.000	0.000	0.000	0.000	0.003	0.000
830	Lalitpur	Jakhora	Genchwara	24.80417	78.39806	0.043	1.586	0.000	0.000	0.418	0.000	0.003	0.000
831	Lalitpur	Jakhora	Bamhori Kalan	24.61167	78.38806	0.000	0.463	0.000	0.000	0.219	0.000	0.001	0.005
832	Lalitpur	Birdha	Baroda Bijlon	24.54333	78.37472	0.000	1.315	0.000	0.000	0.387	0.000	0.001	0.000
833	Lalitpur	Birdha	Balabehat	24.32083	78.41139	0.000	0.575	0.000	0.000	0.736	0.000	0.001	0.000
834	Lalitpur	Talbehat	Pawa	25.08861	78.47250	0.000	0.221	0.143	0.000	0.308	0.000	0.002	0.026
835	Lalitpur	Talbehat	Serwans Kalan	24.97889	78.48694	0.000	0.525	0.000	0.000	0.000	0.000	0.002	0.000
836	Lalitpur	Talbehat	Bansi	24.88000	78.48000	0.000	1.741	0.000	0.000	0.699	0.000	0.004	0.000

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837	Lalitpur	Bar	Khajra	24.79556	78.49806	0.000	0.638	0.000	0.000	0.198	0.000	0.001	0.000
838	Lalitpur	Birdha	Rajwara	24.72028	78.47250	0.002	8.694	1.037	0.000	1.379	0.000	0.007	0.007
839	Lalitpur	Jakhora	Pedariya Bag	24.63111	78.47444	0.000	0.000	0.000	0.000	0.230	0.000	0.000	0.004
840	Lalitpur	Birdha	Dongra Kalan	24.45644	78.49697	0.000	0.239	0.000	0.000	0.174	0.000	0.002	0.004
841	Lalitpur	Talbehat	Katila	25.16528	78.56611	0.002	3.468	0.134	0.000	0.202	0.000	0.008	0.000
842	Lalitpur	Talbehat	Laxmanpura	25.06750	78.57167	0.000	0.852	0.000	0.000	0.000	0.000	0.002	0.000
843	Lalitpur	Talbehat	Bhuchera	24.99750	78.56556	0.000	0.828	0.000	0.000	0.062	0.000	0.001	0.000
844	Lalitpur	Bar	Purapachauri	24.76472	78.56806	0.000	2.351	0.000	0.000	0.215	0.000	0.003	0.000
845	Lalitpur	Birdha	Tikra Tiwari	24.74194	78.59167	0.000	1.361	0.085	0.000	0.090	0.000	0.000	0.010
846	Lalitpur	Birdha	Bhonrda	24.64083	78.56500	0.000	0.394	0.000	0.000	0.447	0.000	0.001	0.000
847	Lalitpur	Birdha	Kalothara	24.52556	78.57222	0.000	1.205	0.156	0.000	0.209	0.000	0.006	0.000
848	Lalitpur	Mandwara	Bonjaana	24.43944	78.59917	0.000	0.315	0.000	0.000	0.318	0.000	0.003	0.004
849	Lalitpur	Mandwara	Dongra Khurd	24.36972	78.71667	0.000	0.753	0.000	0.000	0.207	0.000	0.002	0.000
850	Lalitpur	Bar	Kathwar	24.88333	78.66167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.068
851	Lalitpur	Bar	Udaipura Bus	24.78778	78.67611	0.000	1.097	0.000	0.000	0.132	0.000	0.002	0.004
852	Lalitpur	Bar	Ajnoura	24.70778	78.69167	0.000	2.641	0.000	0.000	0.271	0.000	0.007	0.004
853	Lalitpur	Mahroni	Bhaira	24.61500	78.67250	0.002	3.889	0.000	0.030	42.085	0.000	0.024	0.012
854	Lalitpur	Mandwara	Gadanpur	24.44611	78.67500	0.000	0.471	0.000	0.000	0.226	0.000	0.003	0.004

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855	Lalitpur	Mandwara	Guryana	24.36667	78.66389	0.001	1.402	0.000	0.000	0.226	0.000	0.003	0.000
856	Lalitpur	Bar	Mogan	24.80778	78.75528	0.000	0.320	0.000	0.000	8.235	0.000	0.009	0.000
857	Lalitpur	Bar	Banpur	24.71222	78.73444	0.000	2.299	0.064	0.000	2.863	0.000	0.014	0.023
858	Lalitpur	kumchri	kumchri	24.52417	78.77694	0.000	0.096	0.000	0.000	0.284	0.000	0.001	0.005
859	Lalitpur	Mahroni	Gadoli	24.45639	78.77222	0.000	0.789	0.000	0.000	0.240	0.000	0.002	0.003
860	Lalitpur	Mandwara	Solda	24.27833	78.79444	0.000	0.872	0.000	0.000	0.231	0.000	0.001	0.000
861	Lalitpur	Mahroni	jamunjhir	24.51667	78.87917	0.000	1.384	0.000	0.000	0.445	0.000	0.002	0.000
862	Lalitpur	Mahroni	Loharra	24.41917	78.88556	0.000	0.575	0.000	0.000	0.731	0.000	0.002	0.003
863	Lalitpur	Mandwara	Gidhwaha	24.37056	78.86667	0.000	1.142	0.000	0.000	0.773	0.000	0.003	0.000
864	Lalitpur	Mandwara	Dhorisagar	24.29194	78.86083	0.000	0.617	0.000	0.000	0.423	0.000	0.002	0.000
865	Lucknow	Bakshi Ka talab	On Bakshi ka Talab-Indura bagh road, at Indurabagh	27.00680	80.90170	0.000	2.037	0.147	0.000	0.961	0.003	0.002	0.008
866	Lucknow	Chinhat	Sarvodaya Nagar , Indra Nagar , Lucknow Adjacent to Vikas Bhawan	26.88000	80.97420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.014
867	Lucknow	Gosaiganj	On Gosaiganj Mohanlalganj road, At Gosaiganj	26.76860	81.10140	0.000	0.000	0.000	0.000	0.050	0.000	0.000	0.004
868	Lucknow	Kakori	On Kakori Budheswar road, at Raja Tola , Bargadtallia	26.87080	80.79310	0.000	0.000	0.000	0.000	0.086	0.000	0.000	0.016
869	Lucknow	Mal	On Itaunja Malihabad road At Mal	26.99630	80.79690	0.000	0.067	0.052	0.000	0.167	0.000	0.000	0.005

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870	Lucknow	Malihabad	On Lucknow- Hardoi road, near Malihabd Railway Station	26.94220	80.75440	0.000	3.891	0.000	0.000	0.000	0.000	0.000	0.013
871	Lucknow	Mohanlalganj	On Raebareili road, at Mohanlalganj	26.61940	81.13310	0.000	1.969	0.096	0.000	0.000	0.000	0.000	0.008
872	Lucknow	Sarojini nagar	On lucknow Kanpur road near Vidyut training centre at Sarojini nagar	26.75220	80.85860	0.000	0.126	0.000	0.000	0.000	0.000	0.000	0.018
873	Lucknow	Sarojni Nagar	Sarojini Nagar	26.77833	80.86528	0.000	2.061	0.000	0.000	0.000	0.000	0.000	0.009
874	Lucknow	Sarojni Nagar	Parwar Pachim	26.69083	80.94111	0.000	0.137	0.076	0.000	0.134	0.000	0.000	0.013
875	Lucknow	Gosaiganj	Karimnagar	26.73944	81.17083	0.000	0.196	0.000	0.000	0.000	0.000	0.002	0.017
876	Lucknow	Mohanlalganj	Tikra	26.58778	81.02000	0.000	0.171	0.073	0.000	0.000	0.000	0.003	0.018
877	Lucknow	Mohanlalganj	Nagram	26.61972	81.13333	0.006	1.333	0.000	0.000	0.000	0.000	0.003	0.016
878	Maharajganj	Ghughuli	In the premises of Block Office	27.05659	83.71882	0.000	2.508	0.125	0.000	3.416	0.007	0.000	0.000
879	Maharajganj	Maharajganj	In the premises of Block Office	27.14560	83.54210	0.000	1.197	0.065	0.000	0.107	0.003	0.001	0.000
880	Maharajganj	Mithaura	In the premises of Block Office	27.22532	83.63350	0.000	0.855	0.000	0.000	0.000	0.004	0.001	0.000
881	Maharajganj	Pharenda	In the Block Office Premises; Inside Block Resource Centre	27.09620	83.31020	0.000	0.640	0.000	0.000	1.271	0.000	0.001	0.000
882	Maharajganj	Brijmanganj	Sonchirraya Shivlahatola	27.28337	83.30691	0.000	0.000	0.000	0.000	0.113	0.009	0.001	0.000
883	Maharajganj	Maharajganj	Pakdi Forest	27.13718	83.44646	0.000	0.192	0.000	0.000	0.000	0.005	0.000	0.006
884	Maharajganj	Nautanwa	Ganeshpur	27.39727	83.59530	0.000	0.000	0.000	0.000	0.000	0.006	0.002	0.000
885	Maharajganj	Ghughuli	Biraichi	27.01978	83.72928	0.000	1.360	0.000	0.000	0.000	0.006	0.000	0.000

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886	Maharajganj	Nichlaul	Lalpur	27.39529	83.74106	0.000	0.424	0.093	0.000	0.288	0.005	0.000	0.000
887	Mahoba	Kabrai	Atghar	25.49683	80.16953	0.000	0.062	0.000	0.000	0.000	0.000	0.002	0.007
888	Mahoba	Kabrai	Kabrai	25.38775	80.00538	0.000	0.579	0.000	0.000	0.222	0.000	0.002	0.022
889	Mahoba	Kabrai	Gugaura	25.35254	79.95751	0.000	0.155	0.000	0.000	0.078	0.000	0.001	0.035
890	Mahoba	Kabrai	Ghutbai	25.27283	79.95504	0.000	11.037	0.099	0.000	0.070	0.000	0.001	0.005
891	Mahoba	Kabrai	Bhandra	25.15779	79.84515	0.000	0.316	0.000	0.000	0.000	0.000	0.000	0.004
892	Mahoba	Kabrai	Srinagar	25.17372	79.77889	0.000	0.081	0.000	0.000	0.000	0.000	0.000	0.015
893	Mahoba	Jaitpur	Majhgawan Khurd	25.17156	79.65618	0.000	0.089	0.000	0.000	0.000	0.000	0.000	0.015
894	Mahoba	Kabrai	Pawa	25.26533	79.76000	0.000	0.148	0.000	0.000	0.202	0.000	0.000	0.038
895	Mahoba	Jaitpur	Rawatpura	25.26061	79.65751	0.000	0.099	0.068	0.000	0.000	0.000	0.001	0.000
896	Mahoba	Jaitpur	Thurat	25.27509	79.52487	0.000	0.214	0.000	0.000	0.000	0.000	0.001	0.007
897	Mahoba	Jaitpur	Badera Khurd (anandpura)	25.17938	79.57222	0.000	0.077	0.000	0.000	3.734	0.000	0.003	0.005
898	Mahoba	Jaitpur	Saguniya	25.17644	79.48471	0.000	0.244	0.000	0.000	0.399	0.000	0.001	0.009
899	Mahoba	Panwari	Khero kalan	25.34549	79.37653	0.000	0.104	0.000	0.000	0.000	0.000	0.001	0.008
900	Mahoba	Panwari	Rivai	25.34595	79.46796	0.000	0.238	0.000	0.000	0.000	0.000	0.002	0.015
901	Mahoba	Panwari	Shergarh	25.49429	79.47758	0.000	0.280	0.000	0.006	9.391	0.000	0.006	0.000
902	Mahoba	Panwari	Bharwara	25.36627	79.55850	0.002	0.634	0.000	0.000	0.508	0.000	0.007	0.009
903	Mahoba	Panwari	Budhi	25.37738	79.60673	0.000	0.333	0.000	0.002	0.317	0.000	0.003	0.014

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904	Mahoba	Charkhari	Rivai	25.48042	79.78386	0.000	18.260	0.503	0.000	0.000	0.000	0.002	0.009
905	Mahoba	Charkhari	Bari	25.53970	79.88865	0.001	0.251	0.000	0.000	0.633	0.000	0.002	0.022
906	Mahoba	Kabrai	Barbai	25.48447	80.04352	0.002	0.149	0.000	0.018	0.129	0.000	0.003	0.015
907	Mahoba	Kabrai	Mahoba	25.29855	79.89442	0.000	0.369	0.000	0.000	0.000	0.000	0.002	0.013
908	Mahoba	Jaitpur	Jaitpur	25.25536	79.56587	0.000	0.059	0.000	0.000	0.000	0.000	0.000	0.015
909	Mahoba	Panwari	Panwari	25.42637	79.46545	0.000	0.085	0.000	0.000	0.059	0.000	0.000	0.008
910	Mahoba	Charkhari	Charkhari	25.39257	79.74793	0.000	5.060	0.134	0.000	0.476	0.000	0.000	0.005
911	Mainpuri	Jageer	Block Office	27.61766	77.94871	0.000	0.000	0.056	0.000	0.000	0.002	0.000	0.057
912	Mainpuri	Kishni	Near Katra Saman Chauraha, Shiv Temple	27.03046	79.19820	0.000	0.092	0.081	0.000	0.104	0.002	0.000	0.042
913	Mainpuri	Kishni	Block office	27.03160	79.26555	0.002	0.054	0.000	0.000	0.079	0.002	0.000	0.057
914	Mainpuri	Ghiror	Naladurja	27.27568	78.73128	0.000	0.096	0.000	0.000	0.552	0.000	0.000	0.004
915	Mainpuri	Ghiror	Padariya Chauraha	27.30121	78.88022	0.000	0.153	0.000	0.000	0.270	0.000	0.001	0.017
916	Mainpuri	Mainpuri	Nagla Ramsingh	27.15106	78.87658	0.000	1.150	0.615	0.000	1.505	0.001	0.001	0.011
917	Mainpuri	Mainpuri	Nagariya	27.14665	79.02391	0.000	0.077	0.000	0.000	0.798	0.000	0.003	0.035
918	Mainpuri	Karhal	Yadav Nagar Gunhiya	27.03169	79.02114	0.000	0.460	0.070	0.000	0.643	0.001	0.001	0.012
919	Mainpuri	Kishni	Bamnipur	27.03297	79.16860	0.000	0.379	0.290	0.000	0.148	0.045	0.001	0.000
920	Mainpuri	Bewar	Bara	27.15001	79.29752	0.000	0.724	0.404	0.000	0.127	0.000	0.000	0.025
921	Mathura	Baldeo	Block HQ	27.41400	77.82000	0.000	0.051	0.000	0.000	0.296	0.000	0.001	0.025

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922	Mathura	Chaumuhan	Block HQ	27.62080	77.57930	0.000	0.634	0.000	0.000	0.272	0.000	0.003	0.012
923	Mathura	Chhata	Block HQ	27.72620	77.50080	0.002	0.231	0.000	0.000	0.158	0.000	0.000	0.100
924	Mathura	Mant	Block HQ	27.63070	77.71610	0.000	0.451	0.000	0.000	1.141	0.000	0.001	0.026
925	Mathura	Nandgaon	Block HQ	27.71650	77.38480	0.000	0.707	1.241	0.000	14.148	0.000	0.000	0.000
926	Mathura	Nohjhil	Block HQ	27.84639	77.64993	0.000	0.442	0.000	0.000	0.072	0.000	0.000	0.032
927	Mathura	Raya	Block HQ	27.54950	77.78480	0.000	0.241	0.000	0.000	4.231	0.000	0.000	0.020
928	Mathura	Chhata	Ajnokh	27.67341	77.41045	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012
929	Mathura	Chhata	Baroli	27.67452	77.57932	0.000	0.320	0.000	0.000	0.000	0.002	0.000	0.022
930	Mathura	Raya	Gaiyara	27.58904	77.79890	0.000	0.244	0.087	0.000	0.065	0.000	0.000	0.008
931	Mathura	Raya	Lohaban	27.49774	77.72649	0.000	0.000	0.000	0.000	0.208	0.000	0.000	0.011
932	Mathura	Raya	Nagla Karan	27.53247	77.82824	0.000	0.148	0.106	0.000	0.309	0.000	0.000	0.017
933	Mathura	Nandgaon	Puthari	27.75752	77.31944	0.000	0.103	0.000	0.000	0.346	0.000	0.000	0.020
934	Mathura	Raya	Thok Bindavani	27.57123	77.89800	0.000	0.000	0.000	0.000	0.269	0.000	0.000	0.076
935	Mathura	Chhata	Umaraya	27.66540	77.47417	0.000	0.355	0.000	0.000	0.993	0.000	0.000	0.015
936	Mathura	Chhata	Karahari	27.76043	77.56152	0.000	0.113	0.000	0.000	1.098	0.000	0.000	0.023
937	Mathura	Mant	Panigaon Khader	27.59520	77.75827	0.000	0.000	0.000	0.000	0.146	0.002	0.000	0.012
938	Mathura	Nandgaon	Kamai	27.63236	77.43359	0.000	0.071	0.000	0.000	0.051	0.000	0.000	0.021
939	Mathura	Nohjhil	Surir	27.76873	77.72069	0.000	0.210	0.000	0.000	0.178	0.000	0.000	0.026

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940	Mathura	Chhata	Jatwari	27.57388	77.57388	0.000	0.096	0.000	0.000	0.000	0.001	0.000	0.026
941	Mathura	Nohjhil	Nankpur Khader	27.89449	77.57961	0.000	0.295	0.000	0.000	0.159	0.000	0.000	0.027
942	Maunath Bhanjan	Badraon	Block Office	26.16703	83.46014	0.000	0.187	0.079	0.000	0.480	0.000	0.001	0.014
943	Maunath Bhanjan	Dohari Ghat	Block Office	26.26521	83.51091	0.000	4.169	0.083	0.000	0.029	0.004	0.000	0.000
944	Maunath Bhanjan	Badraon	Hanumanganj	26.14140	83.42536	0.000	3.942	0.110	0.000	0.417	0.000	0.001	0.000
945	Maunath Bhanjan	Ratanpura	Mau Kuber	25.96532	83.70702	0.000	0.137	0.033	0.000	0.276	0.000	0.001	0.016
946	Meerut	Daurala	In Block office	29.12073	77.71440	0.000	0.112	0.187	0.000	1.986	0.000	0.000	0.005
947	Meerut	Hastinapur	In Block office	29.15734	77.99882	0.000	0.073	0.000	0.000	1.433	0.000	0.000	0.022
948	Meerut	Janikhurd	In Block office	28.96388	77.56415	0.000	0.055	0.000	0.000	0.099	0.000	0.002	0.015
949	Meerut	Kharkhoda	In Block office	28.83104	77.74662	0.000	0.000	0.000	0.000	2.551	0.000	0.001	0.018
950	Meerut	Machhra	In Block office	28.89487	77.89328	0.000	5.567	0.122	0.000	3.008	0.000	0.002	0.014
951	Meerut	Mawana	In Block office	29.11015	77.90544	0.000	0.123	0.110	0.000	0.789	0.002	0.000	0.009
952	Meerut	Meerut	In Block office	28.95887	77.68391	0.000	0.148	0.191	0.000	0.705	0.000	0.001	0.028
953	Meerut	Parichhat garh	In Block office	28.97823	77.92097	0.000	4.999	0.065	0.000	0.592	0.000	0.002	0.007
954	Meerut	Rajpura	In Block office	28.95580	77.75002	0.000	1.167	0.000	0.000	0.453	0.000	0.001	0.004
955	Meerut	Rohta	In Block office	29.03780	77.54304	0.000	0.495	0.142	0.000	0.514	0.000	0.001	0.068
956	Meerut	Sardhana	In Block office	29.14356	77.60774	0.000	0.342	0.198	0.000	1.608	0.000	0.000	0.039
957	Meerut	Saroorpur	In Block office	29.13633	77.56655	0.000	0.436	0.131	0.000	0.581	0.000	0.000	0.018

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958	Meerut	Daurala	IN KODHI ASHRAM	29.05914	77.69805	0.000	0.000	0.095	0.000	0.581	0.000	0.000	0.003
959	Meerut	Meerut		77.68620	28.90810	0.000	0.116	0.000	0.000	0.809	0.000	0.000	0.000
960	Meerut	Mawana Kalan	SATISH HOUSE	29.18658	77.82225	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.008
961	Meerut	Hastinapur		29.05631	77.96566	0.000	0.058	0.000	0.000	0.107	0.001	0.000	0.000
962	Meerut	Meerut Urban	NEAR SATBIR HOUSE	28.97088	77.63721	0.000	0.974	0.059	0.000	0.352	0.000	0.000	0.011
963	Meerut	Meerut Urban	SHOBHAPUR	29.00384	77.64862	0.000	0.093	0.000	0.000	0.388	0.000	0.000	0.015
964	Meerut	Meerut Urban	KHADOLI CHOCK	28.98510	77.65442	0.000	0.000	0.073	0.000	0.642	0.000	0.000	0.005
965	Meerut	Meerut Urban	OUT SIDE THE BOUNDARY WALL OF AMBEDKAR PARK	28.96334	77.66064	0.000	0.000	0.089	0.000	0.828	0.000	0.000	0.000
966	Meerut	Meerut Urban	IN SIDE BALAJEE TEMPLE	28.94328	77.65719	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000
967	Meerut	Meerut Urban	ON ROSD SIDE	28.91767	77.65047	0.000	0.000	0.144	0.000	0.961	0.000	0.000	0.029
968	Meerut	Meerut Urban	DIN DAYAL HOUSE	28.90376	77.65195	0.000	0.000	0.144	0.000	0.961	0.000	0.000	0.029
969	Meerut	Meerut Urban	NEAR MAZAR	29.04880	77.67153	0.000	3.561	0.077	0.000	0.205	0.000	0.000	0.018
970	Meerut	Meerut Urban	MANGALPURI	29.02216	77.67403	0.000	2.479	0.075	0.000	0.469	0.000	0.000	0.036
971	Meerut	Meerut Urban	CHOUDARY NIWASH	28.99393	77.66836	0.000	1.064	0.144	0.000	1.266	0.000	0.000	0.000
972	Meerut	Meerut Urban	ROHTA FATAK	28.98237	77.67581	0.000	0.655	0.244	0.000	0.116	0.000	0.000	0.010
973	Meerut	Meerut Urban	SHATABDI NAGAR	28.94037	77.67149	0.000	0.206	0.224	0.000	0.324	0.000	0.000	0.014
974	Meerut	Meerut Urban	ON SEVICE ROAD SIDE	29.04500	77.69887	0.000	0.215	0.224	0.000	0.327	0.000	0.000	0.013

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975	Meerut	Meerut Urban	MEERUT CANT	29.00562	77.69730	0.000	0.201	0.000	0.000	3.348	0.000	0.001	0.012
976	Meerut	Meerut Urban	NEAR SWACH COMMUNITY TOILET	28.98660	77.69907	0.000	2.239	0.086	0.000	0.121	0.000	0.000	0.017
977	Meerut	Meerut Urban	NEAR SHISH MAHAL	28.94211	77.69843	0.000	6.134	0.309	0.000	0.102	0.006	0.001	0.000
978	Meerut	Meerut Urban	SHIV NAGESWAR TEMPLE	29.07289	77.71594	0.000	1.581	0.068	0.000	0.126	0.000	0.000	0.009
979	Meerut	Meerut Urban	LALSANA CHOURAHA	29.04728	77.72552	0.000	0.572	0.382	0.000	0.075	0.000	0.000	0.010
980	Meerut	Meerut Urban	SOFIPUR	29.02842	77.71375	0.000	0.652	0.232	0.000	0.063	0.000	0.000	0.042
981	Meerut	Meerut Urban	MEERUT CANT	29.00354	77.72055	0.000	0.000	0.275	0.000	3.904	0.000	0.000	0.006
982	Meerut	Meerut Urban	ZILA NIWACHAN OFFICE GATE	28.99036	77.71652	0.000	0.154	0.052	0.000	0.373	0.000	0.000	0.010
983	Meerut	Meerut Urban	ON ROAD SIDE	28.96208	77.72164	0.000	0.000	0.000	0.000	0.140	0.000	0.000	0.014
984	Meerut	Meerut Urban	NEAR ANAND BHAWAN INSIDE SHASHTRI PARK	28.94789	77.72691	0.000	0.000	0.139	0.000	1.785	0.000	0.000	0.000
985	Meerut	Meerut Urban	NEAR AZI HANIF IN HOUSE	28.92788	77.72597	0.000	0.181	0.250	0.000	0.192	0.000	0.000	0.000
986	Meerut	Meerut Urban	NEW MEENAKSHI	29.01779	77.73686	0.000	3.058	0.248	0.000	0.097	0.005	0.000	0.004
987	Meerut	Meerut Urban		29.00392	77.75336	0.000	0.280	0.116	0.000	0.085	0.000	0.007	0.007
988	Meerut	Meerut Urban	AWASIYA GATE	28.96494	77.74075	0.000	0.291	0.000	0.000	0.134	0.000	0.000	0.005
989	Meerut	Meerut Urban	DINESH HOUSE	28.95062	77.74073	0.000	0.182	0.000	0.000	0.478	0.000	0.000	0.007
990	Mirzapur	Chanbey	Ragayipur	25.16450	82.34980	0.000	0.403	0.226	0.000	0.394	0.002	0.000	0.011
991	Mirzapur	Hallia	Dewari	24.65150	82.33540	0.000	0.710	0.161	0.000	1.072	0.001	0.001	0.000

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992	Mirzapur	Lalganj	Boda Khurd	24.89930	82.45840	0.000	0.000	0.000	0.000	0.080	0.000	0.001	0.000
993	Mirzapur	Chanbey	Akorhi	25.17130	82.45510	0.000	1.822	0.068	0.000	0.630	0.000	0.000	0.004
994	Mirzapur	Lalganj	Bami	25.05350	82.45380	0.000	0.306	0.000	0.000	0.200	0.000	0.000	0.004
995	Mirzapur	Kon	Kantit	25.15450	82.50780	0.000	0.381	0.000	0.000	0.171	0.000	0.001	0.005
996	Mirzapur	Pahari	Pateha Kala	25.01150	82.61190	0.000	3.844	0.000	0.000	1.425	0.000	0.000	0.000
997	Mirzapur	Pahari	Barji Mukundpur	25.07350	82.63860	0.000	0.134	0.000	0.000	0.073	0.000	0.000	0.004
998	Mirzapur	City	Kirtatara	25.16580	82.62910	0.000	0.178	0.000	0.000	0.196	0.000	0.000	0.000
999	Mirzapur	Pahari	Lahaura	25.01510	82.75490	0.000	0.106	0.000	0.000	1.231	0.000	0.001	0.000
1000	Mirzapur	Pahari	Pahari	25.08460	82.73950	0.000	0.000	0.000	0.000	3.577	0.000	0.000	0.005
1001	Mirzapur	Rajgarh	Jaugarh	24.98510	82.81930	0.000	0.122	0.000	0.000	0.082	0.000	0.001	0.000
1002	Mirzapur	Narayanpur	Chunar	25.08310	82.86160	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
1003	Mirzapur	Rajgarh	Sagaha	24.98770	82.95700	0.000	1.030	0.166	0.000	0.000	0.000	0.000	0.000
1004	Mirzapur	Rajgarh	Chaukia	25.07940	82.94380	0.000	0.059	0.000	0.000	1.184	0.000	0.002	0.000
1005	Mirzapur	Jamalpur	Patti Kalan	25.00270	83.02450	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1006	Mirzapur	Hallia	Baskop	24.82260	82.13890	0.000	0.317	0.000	0.000	0.153	0.000	0.000	0.038
1007	Mirzapur	Hallia	Songarha	24.72870	82.27060	0.000	0.303	0.000	0.000	0.428	0.024	0.000	0.000
1008	Mirzapur	Lalganj	Satpedi	25.00490	82.29720	0.001	0.000	0.000	0.000	0.062	0.000	0.001	0.004
1009	Mirzapur	Marihan	Hardi Bowthi	24.99870	82.57500	0.000	1.219	0.099	0.000	0.131	0.000	0.001	0.000

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1010	Mirzapur	Marihan	Jamui	24.88540	82.70290	0.000	0.000	0.000	0.036	0.090	0.000	0.005	0.000
1011	Mirzapur	Narayanpur	Kolhana	25.11250	82.99140	0.001	0.402	0.000	0.000	0.000	0.000	0.000	0.014
1012	Mirzapur	Chhanbey	Chhanbey (Gaigpura)	25.12722	82.39389	0.000	0.655	0.000	0.000	0.441	0.000	0.000	0.010
1013	Mirzapur	Halia	Halia	24.82056	82.33500	0.000	0.451	0.000	0.000	0.180	0.000	0.000	0.000
1014	Mirzapur	Jamalpur	Block office	25.15833	83.08750	0.000	0.000	0.000	0.000	0.791	0.000	0.000	0.004
1015	Mirzapur	Nagar Mirzapur	Nagar Mirzapur	25.12000	82.55611	0.000	0.211	0.090	0.000	0.355	0.000	0.001	0.007
1016	Mirzapur	Narayanpur	Chunar	25.20000	83.02083	0.000	0.119	0.241	0.000	0.083	0.002	0.000	0.013
1017	Mirzapur	Pahari	Pahari	25.08472	82.73972	0.000	0.000	0.000	0.000	3.669	0.000	0.000	0.006
1018	Mirzapur	Rajgarh	Rajgarh	24.87611	82.83694	0.000	0.000	0.000	0.000	0.082	0.000	0.001	0.000
1019	Mirzapur	Kon	Block Office	25.17056	82.55111	0.000	5.017	0.516	0.000	2.947	0.035	0.003	0.000
1020	Moradabad	Chhajlet	Pathanagi	29.05947	78.55367	0.000	0.223	0.119	0.000	0.084	0.018	0.001	0.005
1021	Moradabad	Thakurdwara	Bahpur	29.20071	78.69013	0.000	0.763	0.192	0.000	0.000	0.006	0.001	0.004
1022	Moradabad	Moradabad	Manoharpur	28.81443	78.70620	0.000	0.175	0.000	0.000	0.000	0.010	0.000	0.000
1023	Moradabad	Kundarki (Dengapur)	Naronda	28.68211	78.70017	0.000	3.981	0.262	0.000	0.000	0.013	0.001	0.006
1024	Moradabad	Dilari	Faridpur Hazi	29.06306	78.84279	0.000	10.024	1.115	0.000	0.556	0.000	0.000	0.000
1025	Moradabad	Baniakhera	Block office	28.46179	78.78312	0.000	0.221	0.167	0.000	0.106	0.004	0.001	0.005
1026	Moradabad	Bilari	Block office	28.60957	78.79834	0.000	0.943	0.080	0.000	0.954	0.001	0.002	0.000
1027	Moradabad	Panwasa	Block office	28.48350	78.57948	0.000	0.370	0.000	0.000	0.000	0.000	0.001	0.005

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1028	Moradabad	Bhagatpur Tanda	Bhagatpur Tanda Block	28.95141	78.82683	0.000	2.102	0.138	0.000	0.432	0.012	0.001	0.000
1029	Moradabad	Chhajlet	Chhajlet Block	28.98670	78.63330	0.000	1.774	0.173	0.000	0.000	0.018	0.001	0.004
1030	Moradabad	Deengarpur	Deengarpur Block	28.68661	78.78786	0.000	9.372	0.323	0.000	0.000	0.004	0.001	0.007
1031	Moradabad	Moondha Pandey	Moondha Pandey Block	28.82314	78.87967	0.000	2.756	0.116	0.000	0.125	0.023	0.002	0.000
1032	Muzaffarnagar	Budhana	In block office	29.28866	77.47037	0.000	0.117	0.056	0.000	1.005	0.000	0.000	0.011
1033	Muzaffarnagar	Charthawal	In block office	29.54593	77.58590	0.000	3.366	0.061	0.000	0.000	0.002	0.003	0.000
1034	Muzaffarnagar	Jansath	In block office	29.32874	77.85360	0.000	1.561	0.055	0.000	1.027	0.000	0.001	0.008
1035	Muzaffarnagar	Khatauli	In block office	29.26756	77.72951	0.000	2.257	0.159	0.000	0.163	0.000	0.002	0.012
1036	Muzaffarnagar	Morna	In block office	29.46866	77.94529	0.000	0.455	0.000	0.000	0.935	0.000	0.002	0.000
1037	Muzaffarnagar	Muzaffar nagar	In block office	29.46252	77.72236	0.000	0.824	0.096	0.000	1.427	0.001	0.003	0.007
1038	Muzaffarnagar	Purkaji	In block office	29.64902	77.83397	0.000	0.487	0.235	0.000	0.317	0.003	0.002	0.008
1039	Muzaffarnagar	Shahpur	In block office	29.35740	77.55538	0.000	0.127	0.000	0.000	0.366	0.000	0.001	0.005
1040	Muzaffarnagar	Charthawal	NEAR PUMP HOUSE	29.56242	77.67294	0.000	0.707	0.094	0.000	2.135	0.000	0.000	0.004
1041	Muzaffarnagar	Purqaji	ON ROSD SIDE	29.57123	77.82531	0.000	1.101	0.000	0.000	0.000	0.002	0.000	0.030
1042	Muzaffarnagar	Morna	DHARA SINGH HOUSE	29.43162	77.82585	0.000	1.556	0.060	0.000	0.073	0.001	0.000	0.007
1043	Muzaffarnagar	Morna	BHOKARBEDI	29.50986	77.93592	0.000	0.000	0.097	0.000	0.000	0.000	0.000	0.000
1044	Muzaffarnagar	Jansath	BYPASS ROAD	29.29513	77.95963	0.000	0.126	0.000	0.000	0.232	0.002	0.000	0.000
1045	Muzaffarnagar	Budhana	IN ROAD SIDE	29.28482	77.43882	0.000	0.193	0.057	0.000	0.428	0.000	0.000	0.021

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1046	Muzaffarnagar	Budhana	NEAR KISHAN BRIKS	29.29352	77.46234	0.002	0.762	0.057	0.000	0.603	0.000	0.000	0.013
1047	Muzaffarnagar	Budhana	IN ROAD SIDE ENGINEERING WORK SHOPE	29.28572	77.47882	0.000	2.689	0.000	0.000	0.613	0.000	0.000	0.010
1048	Muzaffarnagar	Budhana	NEAR TEMPLE	29.29899	77.49691	0.000	0.498	0.000	0.000	0.090	0.000	0.000	0.016
1049	Muzaffarnagar	Purkaji	NEAR RATHI ELECTRICALS	29.63006	77.81508	0.000	0.072	0.000	0.000	0.076	0.002	0.001	0.006
1050	Muzaffarnagar	Purkaji	SANJIVINI CLINIC	29.65879	77.84747	0.000	0.000	0.000	0.000	0.823	0.000	0.000	0.004
1051	Muzaffarnagar	Purkaji	ISMILE AUTO MOBILE	29.66197	77.84413	0.000	0.982	0.153	0.000	0.000	0.000	0.000	0.010
1052	Muzaffarnagar	Purkaji	ON BYPASS ROAD	29.65569	77.82009	0.000	0.000	0.090	0.000	0.429	0.002	0.000	0.007
1053	Pilibhit	Amaria	Block HQ(in premises of block)	28.74973	79.72809	0.000	0.671	0.081	0.000	0.000	0.008	0.000	0.000
1054	Pilibhit	Marori	Block HQ(in premises of block)	28.63271	79.81898	0.000	0.692	0.000	0.000	0.361	0.002	0.000	0.000
1055	Pilibhit	Bar khera	Block HQ(in premises of block)	28.45512	79.80675	0.000	0.855	0.064	0.000	0.076	0.016	0.002	0.004
1056	Pilibhit	Bisalpur	Block HQ(in premises of block)	28.28717	79.81514	0.000	0.559	0.092	0.000	0.843	0.009	0.002	0.000
1057	Pilibhit	Puranpur	Block HQ(in premises of block)	28.50852	80.15064	0.000	0.437	0.101	0.000	0.228	0.002	0.000	0.000
1058	Pilibhit	Lalauli Khera	Block HQ(in premises of block)	28.60866	79.75672	0.000	0.956	0.133	0.000	0.892	0.002	0.000	0.000
1059	Pilibhit	Bilsanda	Block HQ(in premises of block)	28.24565	79.94106	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1060	Pilibhit	Barkhera	Mohammad Jamkhadia	28.43702	79.80510	0.000	1.451	0.147	0.000	0.156	0.016	0.002	0.000
1061	Pilibhit	Barkhera	Galra Machuapur	28.47861	79.80882	0.000	0.681	0.093	0.000	0.000	0.001	0.000	0.006
1062	Pilibhit	Barkhera	Ghazipur kunda	28.46734	79.79303	0.000	1.547	0.125	0.000	0.000	0.004	0.001	0.004
1063	Pilibhit	Barkhera	Bhopatpur	28.45674	79.82481	0.000	0.799	0.096	0.000	0.000	0.008	0.002	0.000

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1064	Pilibhit	Puranpur	adjacent to GP office,Madho tanda	28.62009	80.12242	0.000	0.764	0.000	0.000	0.000	0.002	0.000	0.008
1065	Pilibhit	Amaria	Balliya	28.82629	79.71394	0.000	2.938	0.474	0.000	0.000	0.004	0.000	0.000
1066	Pilibhit	Amaria	Majhola	28.81599	79.88126	0.000	0.449	0.059	0.000	0.731	0.011	0.000	0.000
1067	Pilibhit	Marauri	Mathana	28.64170	80.00817	0.000	0.344	0.110	0.000	0.686	0.006	0.000	0.005
1068	Pilibhit	Marauri	Sarai Sunderpur	28.57351	79.86978	0.000	1.529	0.051	0.000	0.000	0.003	0.000	0.000
1069	Pilibhit	Puranpur	Raipur	28.57321	80.00338	0.000	1.286	0.129	0.000	0.284	0.000	0.000	0.000
1070	Pilibhit	Puranpur	Purania T.Mahrajpur,SSB Campus	28.70516	80.15071	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1071	Pilibhit	Puranpur	Dhanara Ghat(Haripur range)	28.56964	80.29746	0.000	0.340	0.066	0.000	0.000	0.006	0.000	0.000
1072	Pilibhit	Puranpur	Babanpur ,Tila no.4	28.70289	80.28970	0.000	2.626	0.078	0.000	0.236	0.000	0.000	0.000
1073	Pilibhit	Puranpur	sabalpur khas	28.43746	80.16879	0.000	0.190	0.061	0.000	0.000	0.036	0.000	0.000
1074	Pilibhit	Barkhera	Paint Bojhi	28.43467	79.90601	0.000	2.302	0.059	0.000	0.000	0.004	0.000	0.000
1075	Pilibhit	Bisalpur	Churra Sakatpur	28.30327	79.71930	0.000	0.769	0.000	0.000	0.000	0.000	0.000	0.000
1076	Pratapgarh	Lakshmanpur	BDO Office	28.09540	79.40400	0.000	0.934	0.055	0.000	0.000	0.000	0.000	0.023
1077	Pratapgarh	Rampur-Sangramgarh	BDO Office	25.88870	81.55390	0.000	0.000	0.000	0.000	0.110	0.004	0.000	0.028
1078	Pratapgarh	Baba Belkhar Nath	Inside block office	25.90720	82.09990	0.000	0.132	0.000	0.000	0.289	0.000	0.000	0.028
1079	Pratapgarh	Gaura	Block Office	29.09583	77.85528	0.000	0.546	0.115	0.000	0.000	0.000	0.000	0.030
1080	Pratapgarh	Kalakankar	Block Office	25.80170	81.36920	0.000	2.414	0.061	0.000	0.000	0.000	0.000	0.000
1081	Pratapgarh	Mandhata	Block Office	25.80160	81.85710	0.000	0.000	0.079	0.000	0.000	0.000	0.000	0.007

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1082	Pratapgarh	Patti	Block Office	25.92240	82.19830	0.000	0.098	0.073	0.000	0.085	0.000	0.000	0.010
1083	Pratapgarh	Sadar	Block Office	25.90780	81.98000	0.000	0.000	0.000	0.000	0.976	0.000	0.003	0.030
1084	Pratapgarh	Sandwa Chandrika	Block Office	26.03770	81.88380	0.000	1.238	0.070	0.000	0.481	0.000	0.000	0.014
1085	Pratapgarh	Sangipur	Block Office	26.05540	81.65450	0.000	0.751	0.080	0.000	0.261	0.000	0.000	0.017
1086	Pratapgarh	Babaganj	Jilla Panchayat Office	25.79917	81.58222	0.000	0.100	0.000	0.000	0.232	0.000	0.000	0.034
1087	Pratapgarh	Gaura	Muar	25.75278	82.00861	0.000	0.434	0.000	0.000	0.062	0.000	0.000	0.014
1088	Pratapgarh	Kalanker	Bhadchak	25.75611	81.43500	0.000	0.000	0.000	0.000	0.119	0.000	0.001	0.022
1089	Pratapgarh	Kunda	Ramapur	25.64722	81.58361	0.000	0.598	0.000	0.000	0.000	0.000	0.000	0.008
1090	Pratapgarh	Mangaraura	Wari Kalan	26.02444	82.14194	0.000	0.142	0.000	0.000	0.142	0.000	0.001	0.012
1091	Pratapgarh	Patti	Bhogipur Katar	25.89361	82.30389	0.000	1.343	0.000	0.000	0.082	0.000	0.000	0.023
1092	Pratapgarh	Sadar	Tonipur	25.88917	81.89250	0.000	0.194	0.000	0.000	0.162	0.001	0.000	0.084
1093	Pratapgarh	Sangipur	Bashuapur	26.01583	81.71083	0.000	0.246	0.000	0.000	0.000	0.000	0.000	0.010
1094	Prayagraj	Phoolpur	Munciple Office	28.59260	78.56520	0.000	0.000	0.000	0.000	0.183	0.000	0.001	0.041
1095	Prayagraj	Pratappur	BDO Office	29.20000	78.86220	0.000	0.065	0.068	0.000	1.715	0.000	0.000	0.031
1096	Prayagraj	Manda	BDO, Office	25.09920	82.26020	0.000	0.466	0.053	0.000	1.598	0.000	0.001	0.004
1097	Prayagraj	Meja	BDO, Office	25.14390	82.10170	0.000	13.961	0.075	0.000	0.179	0.000	0.000	0.007
1098	Prayagraj	Saidabad	BDO, Office	26.15952	81.52078	0.000	0.969	0.000	0.000	0.000	0.001	0.000	0.012
1099	Prayagraj	Baharia	Dunnaiya	25.63778	82.00167	0.000	0.000	0.000	0.000	0.758	0.003	0.000	0.015

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1100	Prayagraj	Bhagwatpur	Ashrave Kalan	25.37528	81.72611	0.016	0.059	0.000	0.000	0.355	0.000	0.000	0.013
1101	Prayagraj	Chaka	Ajbaiya	25.36278	81.90333	0.008	0.000	0.000	0.000	0.000	0.000	0.001	0.008
1102	Prayagraj	Karchana	Bhirpur	25.26306	81.99333	0.000	0.153	0.000	0.000	0.102	0.000	0.000	0.000
1103	Prayagraj	Koraon	Dhao	25.00028	82.12528	0.000	0.981	0.000	0.000	0.000	0.005	0.001	0.000
1104	Prayagraj	Koraon	Jamuaa Dhush	24.89806	82.02222	0.000	0.288	0.000	0.000	1.147	0.000	0.000	0.005
1105	Prayagraj	Koraon	Badokhar Korao	24.90417	81.94500	0.000	1.140	0.000	0.000	1.174	0.000	0.001	0.004
1106	Prayagraj	Manda	Shivpur	24.89389	82.13528	0.000	0.131	0.000	0.000	0.000	0.000	0.001	0.006
1107	Prayagraj	Meja	Kachara	25.12528	81.88556	0.000	16.633	0.455	0.000	5.545	0.000	0.000	0.000
1108	Prayagraj	Pratappur	Chanethu	25.50778	82.28750	0.000	0.365	0.155	0.000	0.206	0.000	0.000	0.023
1109	Prayagraj	Prayagraj City	Rajrooppur	25.43639	81.78556	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.008
1110	Prayagraj	Sahson	Senri	25.49722	82.00694	0.000	0.623	0.000	0.000	0.279	0.000	0.002	0.009
1111	Prayagraj	Shankargarh	Pratappur	25.28778	81.55556	0.001	0.115	0.000	0.000	0.057	0.000	0.000	0.012
1112	Prayagraj	Shankargarh	Gadaya Lonipara	25.09750	81.70306	0.000	1.364	0.282	0.000	0.000	0.000	0.000	0.005
1113	Prayagraj	Soraon	Faizullapur	25.49028	81.93167	0.000	0.250	0.000	0.000	0.086	0.000	0.000	0.020
1114	Raebareli	Amawan	Block HQ	26.28287	81.30803	0.002	2.351	0.153	0.000	0.678	0.000	0.000	0.005
1115	Raebareli	Chhatoh	Block HQ	26.15987	81.52105	0.002	0.157	0.000	0.000	0.277	0.001	0.000	0.066
1116	Raebareli	Harichandpur	Block HQ	26.34495	81.16182	0.001	0.345	0.000	0.000	0.945	0.000	0.000	0.009
1117	Raebareli	Kheron	Block HQ	26.29174	80.92767	0.002	17.849	0.558	0.000	0.374	0.072	0.000	0.000

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1118	Raebareli	Lalganj	Block HQ	26.16814	80.97926	0.002	0.447	0.121	0.000	0.704	0.000	0.000	0.068
1119	Raebareli	Maharajganj	Block HQ	26.38476	81.27438	0.002	0.506	0.000	0.000	0.578	0.000	0.000	0.038
1120	Raebareli	Sareni	Block HQ	26.15500	80.82752	0.001	0.295	0.000	0.000	0.466	0.001	0.003	0.032
1121	Raebareli	Unchahar	In front of Block HQ, from the HP of Bank of Baroda	25.89885	81.29802	0.000	0.497	0.000	0.000	0.000	0.000	0.000	0.005
1122	Raebareli	Saraini	Rajapur, Bhojpur	26.14339	80.74134	0.001	0.291	0.000	0.000	2.490	0.000	0.005	0.016
1123	Raebareli	Harchandpur	Majare Tera, Baraula	26.39792	81.04207	0.002	2.647	0.052	0.000	0.536	0.000	0.000	0.004
1124	Raebareli	Satawan	Sekhapur, Guru Buxaganj	26.27207	81.02583	0.002	0.673	0.000	0.000	0.584	0.001	0.001	0.016
1125	Raebareli	Dalmau	Pakra Girifta, Pure Baisanpurwa	26.14849	81.15824	0.001	0.272	0.000	0.000	0.580	0.000	0.002	0.039
1126	Raebareli	Rahi	Korchandamau, Bhadokhar	26.15340	81.31026	0.001	0.423	0.000	0.000	0.506	0.001	0.000	0.007
1127	Raebareli	Shivgarh	Chandi Singh ka Purwa	26.53345	81.30264	0.001	1.284	0.000	0.000	0.323	0.000	0.005	0.012
1128	Rampur	Chamrauwa	Majra ladauri	28.68569	78.99998	0.000	0.295	0.000	0.000	0.061	0.011	0.001	0.003
1129	Rampur	Saur	Gangawara	29.06865	79.12597	0.000	0.480	0.181	0.000	0.064	0.000	0.001	0.000
1130	Rampur	Saur	Bamna	28.94915	79.28136	0.000	0.934	0.122	0.000	0.487	0.000	0.002	0.005
1131	Rampur	Chamrauwa	Kajarhai	28.82769	79.14050	0.000	3.379	0.106	0.000	0.000	0.000	0.000	0.000
1132	Rampur	Milak	Brijpur	28.67988	79.12907	0.000	6.631	0.197	0.000	0.000	0.015	0.001	0.000
1133	Rampur	Bilaspur	Faiznagar	28.82154	79.28136	0.000	0.000	0.191	0.000	1.008	0.004	0.003	0.037
1134	Rampur	Milak	Hand pump of CHC.	28.61294	79.16812	0.000	4.509	0.219	0.000	0.000	0.010	0.001	0.000
1135	Rampur	Shahbad	Block office	28.56316	79.01111	0.000	0.188	0.000	0.000	0.455	0.000	0.001	0.009

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1136	Rampur	Swar	Block office	29.03280	79.05935	0.000	0.609	0.068	0.000	0.053	0.000	0.001	0.003
1137	Saharanpur	Deoband		29.68708	77.68307	0.000	0.218	0.233	0.000	1.366	0.000	0.002	0.019
1138	Saharanpur	Gangoh		29.78406	77.26013	0.000	0.150	0.124	0.000	0.599	0.000	0.002	0.051
1139	Saharanpur	Nagal		29.84271	77.62907	0.000	2.658	0.323	0.000	0.000	0.011	0.001	0.004
1140	Saharanpur	Nakur		29.91390	77.30273	0.000	0.236	0.421	0.000	1.255	0.000	0.001	0.004
1141	Saharanpur	Rampur		29.81354	77.45332	0.000	0.553	0.123	0.000	0.000	0.001	0.001	0.003
1142	Saharanpur	Sadauli qudim		30.20104	77.57729	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004
1143	Saharanpur	Sarsawa		30.01166	77.39926	0.000	7.034	0.249	0.000	0.999	0.005	0.002	0.010
1144	Saharanpur	Nanauta	NEAR NAUSAD CHICKEN SHOPE	29.66734	77.36622	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.059
1145	Saharanpur	Sadhauli Kadeem	MANJHALI VILLAGE, SATISH HOUSE	30.18926	77.51715	0.000	2.276	0.062	0.000	0.000	0.016	0.000	0.000
1146	Saharanpur	Sarsawa	NEAR EIDGAH	30.04951	77.50912	0.000	0.000	0.000	0.000	0.434	0.000	0.001	0.040
1147	Saharanpur	Nanauta	NEAR TEMPLE ON ROAD	29.67852	77.51765	0.003	0.000	0.000	0.000	0.096	0.002	0.001	0.012
1148	Saharanpur	Sadhauli Kadeem	IN SIDE TEMPLE	30.31969	77.64472	0.000	0.744	0.107	0.000	0.149	0.001	0.000	0.026
1149	Saharanpur	Ballia Kheri	NEAR CHANDER HOUSE	29.93368	77.65357	0.000	0.489	0.111	0.000	0.524	0.000	0.000	0.000
1150	Saharanpur	Muzaffarabad	PRIMARY SCHOOL MAURANGPUR	30.17519	77.77448	0.000	2.541	0.067	0.000	0.848	0.000	0.001	0.004
1151	Saharanpur	Muzaffarabad	PRIMARY SCHOOL KAMALPUR	30.05708	77.73974	0.000	0.067	0.154	0.000	1.266	0.006	0.000	0.015
1152	Sambhal	Rajpura		28.41764	78.42975	0.000	0.946	0.000	0.000	0.162	0.001	0.002	0.020
1153	Sambhal	Gunnaur	Sonwasarai	28.29780	78.56730	0.000	0.054	0.084	0.000	0.000	0.012	0.001	0.006

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1154	Sambhal	Sambhal	Ibrahimpur Mirza	28.54930	78.71327	0.000	2.466	0.000	0.000	0.434	0.003	0.001	0.006
1155	Sambhal	Baniakhera	Narsai	28.43220	78.71327	0.000	2.900	0.058	0.000	0.000	0.000	0.001	0.004
1156	Sambhal	Gunnaur	Block HQ	28.23461	78.44272	0.000	0.241	0.165	0.000	0.131	0.000	0.000	0.010
1157	Sant Kabir Nagar	Baghauli	In the Block Office Premises	26.87640	83.08525	0.000	0.136	0.000	0.000	0.181	0.000	0.000	0.000
1158	Sant Kabir Nagar	Belhar Kalan	In the Block Office Premises behind office of BDO, adjacent to PMAY (Rural) Model Awas	26.97332	83.02016	0.000	0.254	0.085	0.000	0.660	0.004	0.000	0.000
1159	Sant Kabir Nagar	Haisar Bazar	In the Block Office Premises	26.54617	83.04697	0.000	0.000	0.000	0.000	0.128	0.000	0.000	0.003
1160	Sant Kabir Nagar	Khalilabad	Inside the PWD Inspection Bunglow right in front of the gate	26.75960	83.08360	0.000	3.254	0.000	0.000	0.692	0.000	0.000	0.003
1161	Sant Kabir Nagar	Mehndawal	In the Block Office Premises in front of ADO Samaj Kalyan Office	26.96784	83.10205	0.000	1.993	0.066	0.000	0.671	0.000	0.000	0.000
1162	Sant Kabir Nagar	Nnath Nagar	In the Block Office Premises adjacent to बाल विकास परियोजना कार्यालय	26.66120	83.03830	0.000	0.605	0.000	0.000	0.215	0.001	0.000	0.000
1163	Sant Kabir Nagar	Pauli	In the Block Office Premises	26.58580	82.90190	0.000	0.487	0.061	0.000	0.831	0.018	0.000	0.000
1164	Sant Kabir Nagar	Santha	In the Block Office Premises LHS of the gate	26.99843	83.04270	0.000	0.194	0.143	0.000	0.572	0.009	0.003	0.000
1165	Sant Kabir Nagar	Semariyawan	In the Block Office Premises	26.88346	82.91747	0.000	1.644	0.074	0.000	0.676	0.002	0.001	0.004
1166	Sant Kabir Nagar	Semariyawan	Abbasganj	26.90936	83.00390	0.000	0.675	0.000	0.000	0.279	0.002	0.002	0.000

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1167	Sant Kabir Nagar	Haisar Bazar	Shukul Mundera	26.51016	83.15375	0.000	2.011	0.138	0.000	0.668	0.000	0.000	0.000
1168	Sant Kabir Nagar	Mehndawal	Gagnaibabu/Gagnairao	26.93704	83.12881	0.000	0.926	0.000	0.000	0.000	0.000	0.000	0.000
1169	Sant Kabir Nagar	Nath Nagar	Amiya Village; In front of house of Shyam Raj S/o Jagmohan	26.64807	83.04440	0.000	0.314	0.000	0.000	0.000	0.000	0.000	0.010
1170	Sant Kabir Nagar	Nath Nagar	Mukundpur village; Adjacent to house of Shri Girish S/o Jaimurth Shukla (Shukla Bhawan)	26.63476	83.00975	0.000	0.557	0.119	0.000	0.342	0.002	0.000	0.000
1171	Sant Kabir Nagar	Nath Nagar	On Mushkilpur road towards Nathnagar Block, nearly 70m from Indian Oil Petrol Pump (Village-Jasovar)	26.65126	83.02617	0.000	1.750	0.000	0.000	0.486	0.000	0.000	0.000
1172	Sant Kabir Nagar	Nath Nagar	Nokta Trijunction on Mushkilpur Road(NH 28), nearly 1.2 km from Nathnagar Block Office beside Peepal Tree.	26.62660	83.02840	0.000	0.716	0.000	0.000	0.000	0.000	0.000	0.000
1173	Sant Kabir Nagar	Pauli	Village-Para Hargovind; In front of house of Shri Ramhit near Shivji Temple on Ram Janki Marg	26.57030	82.94340	0.000	1.261	0.102	0.000	0.000	0.002	0.000	0.000
1174	Sant Kabir Nagar	Pauli	Village- Kharcha; In front of house of Shri Hanuman Prasad Mishra	26.59222	82.88590	0.000	1.259	0.000	0.000	0.000	0.000	0.000	0.004
1175	Sant Kabir Nagar	Pauli	Village- Parsa; Near Raj Traders	26.59105	82.88232	0.000	3.788	0.119	0.000	0.204	0.017	0.000	0.000

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1176	Sant Kabir Nagar	Pauli	Village-Kheswasiyan; Adjacent to H/o Ram Bharat Yadav S/o Tanku	26.59563	82.88788	0.000	3.417	0.118	0.000	0.096	0.033	0.000	0.000
1177	Sant Kabir Nagar	Santha	Village-Amathari; On RHS of Main road, next to car washing centre & Board of Madarsa Arabia Tali Mul Quran	27.01093	83.03567	0.000	0.179	0.100	0.000	0.161	0.004	0.000	0.000
1178	Sant Kabir Nagar	Santha	Village- Toyam Chapiya, Near Durga Mandir adjacent to H/o Sudama S/o Bansu	26.98065	83.05182	0.000	0.142	0.069	0.000	1.446	0.002	0.002	0.000
1179	Sant Kabir Nagar	Santha	Village- Karma Kalan; In front of H/o Radhey Shyam Chaurasiya S/o- Durga Prasad Chaurasiya	27.00324	83.05490	0.000	0.241	0.107	0.000	0.286	0.004	0.001	0.000
1180	Sant Kabir Nagar	Santha	Village- Loharsan; Opposite Chotu Auto Garage, Loharsan Market	26.99753	83.02635	0.000	0.898	0.096	0.000	0.080	0.002	0.000	0.003
1181	Sant Ravidas Nagar	Suriyawan	Bhidua	25.37680	82.43160	0.000	1.709	0.080	0.000	0.060	0.000	0.000	0.008
1182	Sant Ravidas Nagar	Abholi	Block Office	25.44667	82.36917	0.000	0.193	0.072	0.000	0.349	0.000	0.000	0.013
1183	Sant Ravidas Nagar	Aurai	Block Office	25.25972	82.55389	0.000	0.391	0.000	0.000	0.112	0.000	0.004	0.000
1184	Sant Ravidas	Bhadohi	Block Office	25.39528	82.56417	0.004	0.170	0.000	0.000	0.418	0.000	0.000	0.047

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	Nagar												
1185	Sant Ravidas Nagar	Deegh	Block Office	25.29722	82.30389	0.000	0.158	0.000	0.000	0.236	0.000	0.000	0.014
1186	Sant Ravidas Nagar	Gyanpur	Block Office	26.33440	82.47080	0.000	1.432	0.255	0.000	0.061	0.001	0.000	0.020
1187	Sant Ravidas Nagar	Suriyawan	Block Office	25.46083	82.42694	0.000	0.819	0.000	0.000	0.067	0.000	0.000	0.006
1188	Shahjahanpur	Nigohi	Block HQ	28.10293	79.86527	0.000	0.114	0.111	0.000	1.201	0.001	0.002	0.004
1189	Shahjahanpur	Sindhauli	Block HQ	27.97037	79.97421	0.000	2.241	0.373	0.000	0.478	0.000	0.001	0.004
1190	Shahjahanpur	Jalalabad	Block HQ	27.72222	79.66490	0.000	0.284	0.093	0.000	0.000	0.004	0.000	0.005
1191	Shahjahanpur	Kalan	Block HQ	27.70331	79.44550	0.000	5.738	0.246	0.000	0.000	0.000	0.000	0.018
1192	Shahjahanpur	Dadraul	Block HQ(in premises of block)	27.83672	79.87013	0.000	1.718	0.098	0.000	0.088	0.013	0.001	0.000
1193	Shahjahanpur	Jaitipur	Block HQ(in premises of block)	27.99392	79.57051	0.000	1.054	0.069	0.000	0.000	0.012	0.001	0.000
1194	Shahjahanpur	Mirzapur	Block HQ(in premises of block)	27.67052	79.54801	0.000	0.368	0.000	0.000	0.515	0.001	0.000	0.020
1195	Shahjahanpur	Khutar	Block HQ(in premises of block)	28.20825	80.26980	0.000	3.835	0.223	0.000	0.113	0.007	0.000	0.000
1196	Shahjahanpur	Bhawal Khera	Block HQ(in premises of block)	27.83940	79.91986	0.000	1.444	0.160	0.000	0.384	0.001	0.001	0.000
1197	Shahjahanpur	Khutar	Nawazpur	28.15194	80.23957	0.000	0.075	0.000	0.000	0.087	0.000	0.000	0.000
1198	Shahjahanpur	Khutar	Chandpur	28.31849	80.30901	0.000	1.262	0.077	0.000	0.000	0.007	0.000	0.000
1199	Shahjahanpur	Khutar	Haripur	28.44850	80.29425	0.000	2.727	0.134	0.000	0.166	0.002	0.000	0.000
1200	Shahjahanpur	Banda	Bhabhi	28.27895	80.00264	0.001	0.590	0.067	0.000	0.000	0.000	0.000	0.000

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1201	Shahjahanpur	Katra	Rampur	28.05237	79.71287	0.000	1.153	0.109	0.000	0.399	0.009	0.000	0.000
1202	Shahjahanpur	Dadrol	Sahbajnagar	27.91733	79.88350	0.000	6.717	0.103	0.000	0.000	0.002	0.000	0.004
1203	Shahjahanpur	Nigohi	Chainpura	28.18387	79.87032	0.000	0.000	0.467	0.000	0.050	0.000	0.000	0.005
1204	Shahjahanpur	Banda	Mouddinpur	28.30645	80.10815	0.000	0.200	0.100	0.000	0.133	0.001	0.003	0.058
1205	Shahjahanpur	Sindhauli	Kaluwapur	28.06562	80.00828	0.000	1.919	0.000	0.000	0.366	0.000	0.000	0.004
1206	Shahjahanpur	Jaitpur	Nagra	27.91768	79.60831	0.000	0.968	0.118	0.000	0.054	0.002	0.001	0.000
1207	Shahjahanpur	Jalalabad	Masulpur(Nayagaon)	27.81892	79.60141	0.000	0.862	0.078	0.000	0.000	0.000	0.004	0.000
1208	Shahjahanpur	Kalan	Dewada	27.77766	79.41330	0.000	2.235	0.144	0.000	0.054	0.000	0.000	0.011
1209	Shahjahanpur	Bhawal Khera	Azizpur	27.83200	79.98934	0.000	0.642	0.112	0.000	0.056	0.007	0.002	0.007
1210	Shamli	Kairana		29.39971	77.21693	0.000	0.795	0.062	0.000	0.806	0.000	0.000	0.012
1211	Shamli	Kandhala		29.32300	77.26654	0.000	0.000	0.113	0.000	3.004	0.000	0.002	0.049
1212	Shamli	Thana bhawan		29.59136	77.42609	0.000	0.000	0.000	0.000	0.059	0.000	0.000	0.021
1213	Shamli	Kairana	KANDELA	29.42866	77.24505	0.000	0.000	0.000	0.000	0.060	0.000	0.000	0.021
1214	Shamli	Kandhala	NEAR FAIZU HOUSE	29.29370	77.38649	0.000	0.214	0.000	0.000	0.330	0.000	0.003	0.024
1215	Shamli	Kandhala	ISLAMPUR GHASAULI	29.29731	77.24368	0.000	5.961	0.149	0.000	0.782	0.000	0.000	0.037
1216	Shravasti	Hariharpur Rani HQ	Block Campus	27.74000	81.83222	0.000	0.647	0.130	0.000	0.346	0.005	0.001	0.000
1217	Shravasti	Ikauna	Block Office	27.52750	81.96778	0.000	3.353	0.138	0.000	0.238	0.003	0.000	0.000
1218	Shravasti	Gilaula	Dikauli	27.65079	81.73578	0.000	0.486	0.061	0.000	0.000	0.002	0.001	0.000

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1219	Shravasti	Ikauna	Jai Chandpur Khatghara	27.52916	81.88530	0.000	1.675	0.104	0.000	0.000	0.003	0.000	0.000
1220	Shravasti	Sirsiya	Ratanpur	27.80311	81.96402	0.000	0.109	0.081	0.000	0.000	0.000	0.001	0.006
1221	Shravasti	Ikauna	Naratpur	27.42940	81.99628	0.000	0.000	0.105	0.000	0.000	0.000	0.001	0.000
1222	Shravasti	Sirsiya	Bhujanga	27.80310	81.96410	0.000	0.000	0.000	0.000	0.214	0.000	0.002	0.000
1223	Siddharthnagar	Barhni HQ	Block Campus	27.48917	82.77694	0.000	2.772	0.071	0.000	4.209	0.014	0.002	0.000
1224	Siddharthnagar	Barhni	Rohnihwa	27.47291	82.84423	0.000	0.000	0.064	0.000	0.000	0.000	0.000	0.013
1225	Siddharthnagar	Barhni	Garuar Kothi	27.48950	82.76932	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.011
1226	Siddharthnagar	Barhni	Bharaul, near Indian Oil Petrol Pump	27.46158	82.79996	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.004
1227	Siddharthnagar	Barhni	Campus of PWD Barhni	27.49720	82.78400	0.000	1.535	0.608	0.000	0.000	0.009	0.000	0.000
1228	Siddharthnagar	Bansi HQ	Block Campus	27.17167	82.92917	0.000	0.357	0.297	0.000	1.652	0.006	0.009	0.004
1229	Siddharthnagar	Bansi	Shonkhar Chauraha near Aara mil.	27.20191	82.94893	0.000	1.507	0.062	0.000	0.000	0.005	0.000	0.000
1230	Siddharthnagar	Bansi	Dearia, near house of Shri Girdhari	27.12745	82.95504	0.000	1.546	0.299	0.000	1.106	0.001	0.000	0.000
1231	Siddharthnagar	Bansi	Pathkauli Market, near HP petrol pump	27.17432	82.95607	0.000	0.631	0.213	0.000	0.000	0.010	0.003	0.000
1232	Siddharthnagar	Bansi	Baiduhi kala, near small pulia and 3 km from bansi on bansi dumariyaganj road.	27.16923	82.89841	0.000	0.871	0.123	0.000	0.241	0.002	0.001	0.009
1233	Siddharthnagar	Birdpur HQ	300 m from Block campus, near house of Shri Shove Nath	27.34222	83.11000	0.000	1.234	0.224	0.000	0.000	0.004	0.000	0.000
1234	Siddharthnagar	Birdpur	Shri Ramneresh Yadav House, Naudihwa	27.35622	83.14544	0.000	0.069	0.194	0.000	0.000	0.001	0.000	0.015

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1235	Siddharthnagar	Birdpur	Harnampur more, near durga mandir, on birdpur to kapil vastu road.	27.38807	83.12049	0.000	0.000	0.067	0.000	0.000	0.000	0.000	0.004
1236	Siddharthnagar	Birdpur	Basalatpur, RHS on Birdpur to Chiliya near Shri Pervej house.	27.37268	83.09294	0.000	0.000	0.200	0.000	0.000	0.000	0.000	0.003
1237	Siddharthnagar	Birdpur	Madhubany chauraha, near house of Shri Kaladhar Dubey.	27.34019	83.09195	0.000	0.000	0.080	0.000	0.097	0.000	0.000	0.000
1238	Siddharthnagar	Jogiya HQ	Block Campus	27.25278	83.00806	0.000	0.850	0.087	0.000	0.071	0.026	0.000	0.000
1239	Siddharthnagar	Jogiya		27.23830	82.99810	0.000	0.000	0.236	0.000	0.000	0.000	0.000	0.005
1240	Siddharthnagar	Jogiya	In the campus of gyan uday vidya mandir and 4 km from jogiya on jogiya to udaipur road	27.27308	82.99021	0.000	0.223	0.000	0.000	0.000	0.000	0.002	0.004
1241	Siddharthnagar	Jogiya	Karaudha, on Bansi to Naugarh road	27.26829	83.03031	0.000	1.039	0.277	0.000	0.158	0.003	0.000	0.000
1242	Siddharthnagar	Jogiya	Sajni village	27.25175	83.04087	0.000	3.765	0.375	0.000	0.000	0.000	0.000	0.013
1243	Siddharthnagar	Domariaganj	Murgihwa	27.16607	82.44575	0.000	0.000	0.070	0.000	0.000	0.002	0.001	0.000
1244	Siddharthnagar	Domariaganj	Gabgwar Chauraha	27.16773	82.66379	0.000	0.000	0.236	0.000	0.000	0.000	0.001	0.000
1245	Siddharthnagar	Khuniyaw	Bhaluani	27.27775	82.87415	0.000	0.406	0.103	0.000	0.329	0.005	0.009	0.000
1246	Siddharthnagar	Barhani	Jhulnipur Chauraha	27.41769	82.88544	0.000	1.177	0.241	0.000	0.000	0.001	0.000	0.000
1247	Siddharthnagar	Khesrha	Sishoniya	27.15113	82.99745	0.000	1.161	0.000	0.000	0.000	0.005	0.001	0.000
1248	Siddharthnagar	Birdpur	Parsa Belhari	27.40476	83.16276	0.000	0.400	0.114	0.000	0.081	0.000	0.000	0.005

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1249	Siddharthnagar	Uska bazar	Block Campus	27.19546	83.11530	0.000	19.401	0.148	0.000	0.414	0.003	0.000	0.000
1250	Siddharthnagar	Khuniyaw	Block Campus	27.27855	82.75657	0.000	0.000	0.000	0.000	0.346	0.001	0.000	0.000
1251	Siddharthnagar	Itwa	Block Campus	27.32180	82.69280	0.000	0.852	0.176	0.000	0.282	0.006	0.002	0.000
1252	Siddharthnagar	Lotan	Block Campus	27.29000	83.24170	0.000	1.226	0.105	0.000	0.773	0.002	0.000	0.008
1253	Siddharthnagar	Mithawal	Block Campus	27.15611	82.91906	0.000	0.362	0.000	0.000	0.667	0.001	0.001	0.000
1254	Siddharthnagar	Khesraha	Block Campus	27.07385	82.98809	0.000	9.384	0.216	0.000	0.000	0.004	0.000	0.000
1255	Siddharthnagar	Dumariyaganj	Block Campus	27.19459	82.65162	0.000	0.089	0.126	0.000	1.401	0.000	0.000	0.000
1256	Siddharthnagar	Bhanwapur	Block Campus	27.26494	82.64655	0.000	2.680	0.134	0.133	0.000	0.010	0.000	0.000
1257	Siddharthnagar	Shoharatgarh	Block Campus	27.38172	82.95561	0.000	1.751	0.126	0.000	2.478	0.000	0.002	0.000
1258	Siddharthnagar	Naugarh	Block Campus	27.27060	83.08449	0.000	0.435	0.357	0.000	0.111	0.000	0.000	0.015
1259	Sitapur	Aliya	Block Office	27.67773	80.65304	0.000	0.200	0.084	0.000	0.113	0.000	0.000	0.005
1260	Sitapur	Behta	Block Office	27.73039	81.14357	0.000	0.322	0.000	0.000	0.109	0.000	0.000	0.000
1261	Sitapur	Bisawan	Block Office	27.48430	80.99154	0.000	1.013	0.055	0.000	0.261	0.000	0.000	0.000
1262	Sitapur	Godalamau	Block Office	27.34864	80.65263	0.000	1.558	0.000	0.000	0.000	0.000	0.000	0.006
1263	Sitapur	Hargaon	Block Office	27.76667	80.72820	0.000	0.448	0.336	0.000	1.991	0.000	0.001	0.000
1264	Sitapur	Kasmanda	Block Office	27.38621	80.81788	0.000	0.000	0.000	0.000	0.211	0.000	0.000	0.000
1265	Sitapur	Khairabad	Block Office	27.53327	80.74748	0.000	1.596	0.000	0.000	0.313	0.000	0.000	0.000
1266	Sitapur	Laharpur	Block Office	27.72013	80.89399	0.000	3.693	0.132	0.000	0.087	0.002	0.001	0.000

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1267	Sitapur	Machharehta	Block Office	27.42225	80.64362	0.000	0.000	0.000	0.000	0.063	0.000	0.000	0.003
1268	Sitapur	Mahmoodabad	Block Office	27.30339	81.12354	0.000	0.055	0.071	0.000	0.369	0.000	0.002	0.000
1269	Sitapur	Misrikh	Block Office	27.44333	80.53401	0.000	0.248	0.069	0.000	0.083	0.000	0.002	0.005
1270	Sitapur	Moholi	Block Office	27.66462	80.47246	0.000	0.283	0.000	0.000	0.195	0.000	0.001	0.005
1271	Sitapur	Pahla	Block Office	27.37316	81.06177	0.000	2.014	0.155	0.000	0.175	0.002	0.002	0.000
1272	Sitapur	Parsendi	Block Office	27.58032	80.84279	0.000	0.346	0.089	0.000	0.325	0.003	0.001	0.005
1273	Sitapur	Pisawan	Block Office	27.58860	80.40257	0.000	0.930	0.000	0.000	0.000	0.000	0.000	0.003
1274	Sitapur	Rampur Mathura	Block Office	27.36375	81.31786	0.000	0.537	0.088	0.000	0.508	0.007	0.001	0.000
1275	Sitapur	Rewsa	Block Office	27.54864	81.21063	0.000	1.679	0.224	0.000	0.000	0.005	0.001	0.000
1276	Sitapur	Sakaran	Block Office	27.57312	81.06009	0.000	1.496	0.067	0.000	0.083	0.006	0.000	0.000
1277	Sitapur	Sidhauli	Block Office	27.28292	80.82946	0.000	0.314	0.233	0.000	0.270	0.000	0.000	0.010
1278	Sitapur	Misrikh	Nimsar	27.34472	80.48472	0.000	0.070	0.000	0.000	0.000	0.002	0.001	0.004
1279	Sitapur	Khairabad	Saraiya Sani	27.52278	80.82667	0.000	0.116	0.000	0.000	0.000	0.000	0.000	0.005
1280	Sitapur	Parsendi	Kasrela	27.59361	80.79750	0.000	0.152	0.000	0.000	0.000	0.000	0.002	0.003
1281	Sitapur	Machhrehta	Sadila	27.47250	80.58444	0.000	0.370	0.000	0.000	0.000	0.000	0.002	0.003
1282	Sitapur	Gondlamau	Karanpur	27.37500	80.61778	0.000	0.116	0.069	0.000	0.064	0.000	0.003	0.003
1283	Sitapur	Hargaon	Sekhwapur	27.76389	80.77833	0.000	1.097	0.093	0.000	1.162	0.000	0.012	0.010
1284	Sitapur	Sidhauli	Jallabad	27.23806	80.82667	0.000	0.680	0.084	0.000	0.000	0.000	0.000	0.007

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1285	Sitapur	Behta	Erapur	27.73639	81.02222	0.000	1.340	0.117	0.000	0.767	0.003	0.002	0.000
1286	Sitapur	Sakran	Palhari	27.53889	81.14222	0.000	0.206	0.000	0.000	0.000	0.000	0.001	0.000
1287	Sitapur	Pahala	Kanchanpur	27.41111	81.04500	0.000	0.066	0.000	0.000	0.050	0.002	0.000	0.004
1288	Sitapur	Mahmudabad	Bahoranpur	27.37167	81.23250	0.000	4.868	0.216	0.000	0.000	0.002	0.000	0.000
1289	Sonbhadra	Kone	Harvaria	24.34830	83.37440	0.000	1.012	0.000	0.000	0.105	0.000	0.000	0.013
1290	Sonbhadra	Myorpur	Nakkhu	24.00550	82.82650	0.000	1.851	0.125	0.000	0.366	0.000	0.000	0.006
1291	Sonbhadra	Chopan	Thari	24.44730	82.82580	0.000	0.000	0.000	0.000	0.074	0.000	0.002	0.000
1292	Sonbhadra	Chopan	Nivarhi	24.55770	82.81820	0.000	0.000	0.000	0.000	0.084	0.000	0.003	0.000
1293	Sonbhadra	Babhani	Mohua Dohar	23.90960	82.91680	0.000	0.351	0.000	0.000	0.179	0.000	0.000	0.044
1294	Sonbhadra	Myorpur	Liladewa	23.99280	82.94020	0.000	7.678	0.297	0.000	0.337	0.000	0.001	0.000
1295	Sonbhadra	Chopan	Bharahari	24.58950	82.91870	0.000	0.067	0.000	0.000	0.083	0.000	0.000	0.000
1296	Sonbhadra	Chopan	Guradah	24.60440	82.93900	0.000	0.249	0.083	0.000	0.067	0.000	0.001	0.003
1297	Sonbhadra	Babhani	Adhoura	23.91110	83.03480	0.000	0.846	0.000	0.000	0.147	0.000	0.000	0.403
1298	Sonbhadra	Myorpur	Chak Chapki	23.97860	83.01090	0.000	7.667	0.163	0.000	0.149	0.000	0.001	0.000
1299	Sonbhadra	Myorpur	Dewri	24.08420	83.01730	0.000	0.000	0.354	0.000	0.000	0.000	0.000	0.004
1300	Sonbhadra	Myorpur	Duki Nala	24.26470	83.02020	0.000	0.000	0.244	0.000	0.000	0.000	0.000	0.000
1301	Sonbhadra	Chopan	Judwani Panari	24.35500	83.02160	0.000	0.000	0.189	0.000	0.000	0.000	0.000	0.000
1302	Sonbhadra	Chopan	Vilemar Kundi	24.45450	83.01860	0.000	0.000	0.131	0.000	0.000	0.000	0.000	0.000

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1303	Sonbhadra	Robertsganj	Baluee	24.61460	83.03360	0.000	0.000	0.083	0.000	0.000	0.000	0.000	0.000
1304	Sonbhadra	Babhani	Adhoura	23.92370	83.10930	0.000	0.000	0.081	0.000	0.000	0.000	0.000	0.000
1305	Sonbhadra	Myorpur	Lovuhan	24.08290	83.11560	0.000	0.000	0.097	0.000	0.072	0.000	0.001	0.000
1306	Sonbhadra	Dudhi	Ashram Mod	24.17310	83.11710	0.000	0.325	0.000	0.000	0.075	0.000	0.004	0.000
1307	Sonbhadra	Dudhi	Navgai	24.26530	83.12340	0.000	0.061	0.000	0.000	0.057	0.000	0.002	0.000
1308	Sonbhadra	Chopan	Chikradhawd	24.34920	83.10390	0.000	2.610	0.051	0.000	0.262	0.000	0.000	0.000
1309	Sonbhadra	Kone	Padrach	24.44790	83.15430	0.000	13.263	0.191	0.000	7.413	0.000	0.000	0.000
1310	Sonbhadra	Nagawa	Cherue	24.54980	83.12980	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1311	Sonbhadra	Myorpur	Baina	24.00340	83.21470	0.000	0.156	0.000	0.000	0.385	0.000	0.000	0.011
1312	Sonbhadra	Myorpur	Nodiya	24.08150	83.21390	0.000	0.000	0.000	0.000	0.051	0.002	0.000	0.023
1313	Sonbhadra	Dudhi	Birar	24.23450	83.21840	0.000	0.267	0.000	0.000	0.243	0.000	0.000	0.000
1314	Sonbhadra	Kone	Murkatti	24.35220	83.21860	0.000	0.673	0.000	0.000	0.164	0.000	0.000	0.011
1315	Sonbhadra	Kone	Rogahi	24.44380	83.20290	0.000	0.058	0.000	0.000	0.056	0.002	0.000	0.010
1316	Sonbhadra	Nagawa	Kodai	24.53270	83.22170	0.000	4.900	0.414	0.000	0.206	0.000	0.001	0.000
1317	Sonbhadra	Kone	Joru Khar	24.24650	83.31700	0.000	0.141	0.000	0.000	0.077	0.000	0.000	0.016
1318	Sonbhadra	Kone	Naudiha	24.44140	83.27090	0.000	1.137	0.000	0.000	0.840	0.000	0.000	0.000
1319	Sonbhadra	Nagawa	Keotam	24.62120	83.32610	0.000	5.172	0.163	0.000	5.316	0.000	0.000	0.000
1320	Sonbhadra	Nagawa	Majuhi	24.61990	83.42080	0.000	0.953	0.000	0.000	0.112	0.000	0.000	0.000

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1321	Sonbhadra	Nagawa	Dhobi	24.70980	83.45370	0.000	2.862	0.000	0.000	0.688	0.000	0.000	0.017
1322	Sonbhadra	Nagawa	Madpa	24.61860	83.50960	0.000	2.612	0.000	0.000	0.432	0.000	0.001	0.000
1323	Sonbhadra	Ghorawal	Gohrawal	24.74840	82.78030	0.000	0.081	0.340	0.000	0.066	0.003	0.000	0.005
1324	Sonbhadra	Ghorawal	Duter	24.71590	82.97530	0.000	0.373	0.000	0.000	0.193	0.000	0.000	0.004
1325	Sonbhadra	Karma	Sisiriya	24.85460	82.96370	0.003	0.000	0.000	0.000	0.053	0.000	0.000	0.000
1326	Sonbhadra	Robertsganj	Jigna	24.73200	83.12660	0.004	0.000	0.000	0.000	0.000	0.000	0.022	0.004
1327	Sonbhadra	Chatra	Karawndia	24.64100	83.25240	0.002	0.000	0.000	0.000	0.000	0.000	0.002	0.000
1328	Sonbhadra	Anpara	Block Office	24.20498	82.79668	0.000	0.149	0.053	0.000	0.074	0.005	0.000	0.000
1329	Sonbhadra	Asandih	Block Office	23.90080	83.15017	0.000	0.550	0.051	0.000	0.105	0.000	0.001	0.000
1330	Sonbhadra	Babhani	Babhani	23.95028	83.07694	0.001	0.000	0.478	0.000	0.089	0.000	0.000	0.009
1331	Sonbhadra	Chopan	Chopan	24.51333	83.02306	0.000	8.428	0.099	0.000	0.776	0.000	0.000	0.000
1332	Sonbhadra	Kakrahi	Block Office	24.74941	82.84436	0.000	0.324	0.131	0.000	0.392	0.001	0.000	0.006
1333	Sonbhadra	Renukoot	Block Office	24.21955	83.03550	0.000	0.000	0.202	0.000	0.051	0.000	0.000	0.014
1334	Sonbhadra	Robertganj	Robertganj	24.65639	83.05861	0.000	10.042	0.000	0.000	0.571	0.000	0.004	0.000
1335	Sonbhadra	Sdhartidand	Block Office	24.64669	83.04952	0.000	0.211	0.404	0.000	0.115	0.000	0.004	0.000
1336	Sultanpur	Akhand Nagar	Block HQ	26.20305	82.57903	0.000	0.362	0.000	0.000	1.919	0.000	0.000	0.003
1337	Sultanpur	Dostpur	Block HQ	26.27015	82.46609	0.000	0.285	0.000	0.000	0.052	0.000	0.001	0.045
1338	Sultanpur	Dubeypur	Block HQ	26.23880	82.03613	0.000	0.052	0.070	0.000	0.000	0.001	0.000	0.013

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1339	Sultanpur	Jaisinghpur	BDO Office	26.28105	82.24727	0.000	0.510	0.000	0.000	0.000	0.000	0.000	0.004
1340	Sultanpur	Kurwar	Near NHS Dugwell Kurwar	26.35518	81.97415	0.000	0.071	0.000	0.000	0.000	0.000	0.003	0.019
1341	Sultanpur	P.P. Kannaicha	Block HQ	26.07066	82.30442	0.000	0.270	0.000	0.000	0.098	0.000	0.000	0.009
1342	Sultanpur	Jaisinghpur	Hiyatnagar Kabra	26.26883	82.15327	0.000	0.150	0.051	0.000	0.174	0.000	0.000	0.008
1343	Sultanpur	Jaisinghpur	Jaisinghpur Sonupara	26.39709	82.29169	0.000	0.684	0.000	0.000	0.218	0.000	0.003	0.006
1344	Sultanpur	Akhand Nagar	Mangal Nagar, Kunda Bhairopur	26.27278	82.56094	0.000	0.228	0.141	0.000	0.000	0.000	0.000	0.014
1345	Unnao	Asoha	Block Office	26.58735	80.82995	0.000	0.000	0.129	0.000	3.652	0.000	0.000	0.000
1346	Unnao	Auras	Hand pump HP of block office Near generator room	26.91462	80.50208	0.000	0.333	0.000	0.000	0.000	0.000	0.003	0.010
1347	Unnao	Bangermau	Block Office	26.84880	80.31210	0.000	0.051	0.250	0.000	0.611	0.000	0.000	0.006
1348	Unnao	Bichia	Block Office	26.53531	80.62523	0.000	0.433	0.000	0.000	0.367	0.000	0.002	0.020
1349	Unnao	Bighapur	Block Office	26.35220	80.66526	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.018
1350	Unnao	Fatehpur Chourasi	Block office near PHC	26.79530	80.27170	0.000	0.853	0.000	0.000	0.195	0.001	0.000	0.000
1351	Unnao	Ganj Muradabad	Block Office	26.95955	80.18408	0.000	0.089	0.000	0.000	0.351	0.000	0.000	0.008
1352	Unnao	Hasanganj	Block Office	26.77280	80.63140	0.000	0.896	0.000	0.000	0.000	0.000	0.000	0.007
1353	Unnao	Hilauli	Block office	26.45679	80.94113	0.000	0.191	0.000	0.000	0.000	0.000	0.000	0.012
1354	Unnao	Miyaganj	Block office	26.80220	80.48440	0.000	1.210	0.000	0.000	0.000	0.000	0.001	0.010
1355	Unnao	Nawabganj	Block office	26.62105	80.67590	0.000	0.211	0.088	0.000	0.000	0.000	0.000	0.036
1356	Unnao	Purwa	Hand pump infront of Old Tehsil & Thana	26.46005	80.76672	0.000	0.395	0.000	0.000	0.124	0.000	0.000	0.003

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1357	Unnao	Safipur	Block office	26.63280	80.31970	0.000	0.158	0.000	0.000	1.241	0.000	0.000	0.011
1358	Unnao	Sikanderpur Karan	Block Office	26.44074	80.54853	0.000	4.955	0.121	0.000	1.075	0.000	0.002	0.006
1359	Unnao	Sikanderpur Sirausi	In front of block office near turning road tochoura village	26.53431	80.45125	0.000	0.821	0.000	0.000	0.000	0.000	0.000	0.018
1360	Unnao	Sumerpur	Block Office	26.28174	80.80725	0.000	2.618	0.058	0.000	0.260	0.000	0.000	0.020
1361	Unnao	Fatehpur Chaurasi	Daboli	26.73417	80.20528	0.000	0.123	0.197	0.000	0.000	0.000	0.000	0.011
1362	Unnao	Auras	Bada Dev	26.86972	80.58444	0.000	0.092	0.000	0.000	0.265	0.000	0.000	0.018
1363	Unnao	Nawabganj	Hasanapur	26.63694	80.78417	0.000	0.000	0.000	0.000	0.080	0.000	0.001	0.014
1364	Unnao	Bighapur	Inda Mau	26.32417	80.72778	0.000	0.104	0.000	0.000	0.095	0.001	0.002	0.028
1365	Unnao	Hasanganj	Hasewan	26.76333	80.57028	0.000	4.966	0.202	0.000	0.000	0.008	0.002	0.000
1366	Unnao	Asoha	Darsawa	26.55417	80.78944	0.000	1.214	0.057	0.000	0.000	0.000	0.001	0.014
1367	Varanasi	Pindra	Teerathpur	25.49520	82.84000	0.000	0.065	0.000	0.000	0.103	0.000	0.000	0.019
1368	Varanasi	Chiraigaon	Chhitouna	25.36840	83.12350	0.000	4.784	0.240	0.000	0.277	0.010	0.001	0.000
1369	Varanasi	Varanasi Urban	Shivpur	25.36440	82.94560	0.002	0.000	0.000	0.000	0.063	0.001	0.001	0.007
1370	Varanasi	Varanasi Urban	Gilat Bazar	25.35030	82.96810	0.000	0.000	0.000	0.000	0.070	0.001	0.000	0.009
1371	Varanasi	Varanasi Urban	Bhagatpur	25.36580	82.96390	0.000	0.185	0.108	0.000	0.140	0.000	0.000	0.008
1372	Varanasi	Varanasi Urban	BHU Campus	25.27160	82.98540	0.000	0.000	0.000	0.000	4.638	0.001	0.003	0.004
1373	Varanasi	Varanasi Urban	Gopichat Gully	25.28780	82.98790	0.000	0.000	0.000	0.000	0.622	0.000	0.001	0.021
1374	Varanasi	Varanasi Urban	Singra	25.30750	82.98350	0.000	0.000	0.000	0.000	0.138	0.000	0.000	0.007

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1375	Varanasi	Varanasi Urban	Nanak Nagar	25.31690	82.98990	0.000	0.333	0.074	0.000	0.171	0.000	0.000	0.021
1376	Varanasi	Varanasi Urban	Dhupchandi	25.34670	82.98710	0.000	0.000	0.000	0.000	0.081	0.001	0.000	0.013
1377	Varanasi	Varanasi Urban	Akatha	25.35700	82.99320	0.001	0.000	0.000	0.000	0.000	0.001	0.000	0.029
1378	Varanasi	Varanasi Urban	Assi	25.28730	83.00360	0.000	0.000	0.000	0.000	0.156	0.001	0.000	0.008
1379	Varanasi	Varanasi Urban	Nai Sarak	25.31210	83.00480	0.000	0.000	0.000	0.000	0.267	0.002	0.000	0.004
1380	Varanasi	Varanasi Urban	Jaitpura	25.32710	83.00580	0.000	0.439	0.000	0.000	1.074	0.000	0.000	0.023
1381	Varanasi	Varanasi Urban	Ashok Nagar	25.34690	83.00930	0.000	0.000	0.000	0.000	1.491	0.000	0.001	0.007
1382	Varanasi	Varanasi Urban	Srinagar colony	25.36690	82.00560	0.000	0.000	0.000	0.000	0.155	0.000	0.000	0.005
1383	Varanasi	Varanasi Urban	Konia	25.32820	83.03190	0.000	0.136	0.051	0.000	2.564	0.000	0.000	0.010
1384	Varanasi	Baragaon	Baragaon	25.42972	82.80611	0.000	0.094	0.058	0.000	0.413	0.000	0.004	0.020
1385	Varanasi	Cholapur	Cholapur	25.49667	82.99722	0.006	0.402	0.000	0.000	0.385	0.000	0.004	0.012
1386	Varanasi	Harhua	belwaria	25.39972	82.97000	0.000	0.140	0.000	0.000	0.740	0.000	0.004	0.006
1387	Varanasi	Kashi Vidya Peeth	Kashi Vidya Peeth	25.30639	82.96278	0.000	0.145	0.000	0.000	0.747	0.000	0.004	0.006
1388	Varanasi	Sewapuri	Sewapuri	25.36611	82.74806	0.000	0.000	0.000	0.000	0.097	0.000	0.002	0.034
1389	Varanasi	Kashi Vidya Peeth	Pared Koti	25.32630	82.99160	0.000	0.866	0.121	0.000	0.210	0.000	0.001	0.018
1390	Varanasi	Kashi Vidya Peeth	Mahmoorganj	25.30530	82.98090	0.000	0.747	0.135	0.000	0.303	0.000	0.001	0.035
1391	Varanasi	Kashi Vidya Peeth	Newada	25.28170	82.96770	0.000	0.000	0.000	0.000	0.051	0.002	0.003	0.008
1392	Varanasi	Chiraigaon	Block Office	25.38028	83.05583	0.002	0.000	0.000	0.000	0.120	0.000	0.001	0.008

Post monsoon (Basic)Chemical data 2023-24 CGWB, NR , LUCKNOW																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
1	Agra	Achhnera	Block H.Q	27.17744	77.74618	7.79	6207	nil	354	1576	1.67	19	355	1500	212	233	625	5.9	26	nd
2	Agra	Agra	City (Sai ki Takia Crossing)	27.17066	78.00954	7.74	9813	nil	415	1441	1.59	43	2341	1270	196	187	1766	5.2	30	nd
3	Agra	Bah	Block H.Q	26.86968	78.58929	7.6	1713	nil	573	163	0.51	107	39	480	132	36	142	3.1	28	nd
4	Agra	Barauli Ahir	Block H.Q	27.12062	78.06014	8.16	1618	nil	573	142	0.77	BDL	194	350	56	50	234	4.1	32	nd
5	Agra	Bichpuri	Block H.Q	27.17265	77.89188	7.98	3393	nil	781	383	1.56	18	441	360	52	55	555	5.4	26	nd
6	Agra	Fatehabad	Block H.Q	27.02974	78.29618	7.87	3135	nil	671	383	1.42	7.4	417	330	68	38	515	2.2	26	nd
7	Agra	Fatehpur Sikri	Block H.Q	27.09424	77.66783	7.54	2855	nil	647	362	0.19	33	357	420	124	26	432	2.2	30	nd
8	Agra	Jagner	Block H.Q	26.86657	77.60168	7.51	6416	nil	891	1243	1.39	176	457	1100	168	163	852	2.6	29	nd
9	Agra	Jaitpur Kalan	Block H.Q	26.82826	78.70477	7.8	856	nil	329	50	0.96	BDL	45	270	72	22	56	2.3	22	nd

Post monsoon (Basic)Chemical data 2023-24 CGWB, NR , LUCKNOW																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
10	Agra	Khandauli	Block H.Q	27.31646	78.02961	7.61	3910	nil	830	675	0.63	31	358	870	132	130	510	5.1	23	nd
11	Agra	Kheragarh	Block H.Q	26.95524	77.82219	7.7	6429	nil	537	1235	1.09	16	1284	1900	260	300	686	3.9	30	nd
12	Agra	Saiyan	Block H.Q	26.93603	77.93505	7.48	2615	nil	573	355	0.56	20	396	610	108	82	331	1.9	35	nd
13	Agra	Shamsabad	SBI near Block Office	27.01357	78.12330	7.75	985	nil	537	50	1.22	17	17	270	68	24	118	2.2	25	nd
14	Agra	Akola	Block H.Q	27.07150	77.89188	8.07	990	nil	488	50	1.57	21	32	140	32	14	186	2.4	31	nd
15	Aligarh	AKRABAD	Block H.Q.	27.80500	78.27120	7.51	1270	Nil	506	78	0.75	67	43	360	76	41	114	13.6	29	nd
16	Aligarh	ALIGARH	District H.Q.	27.89692	78.07171	7.72	1891	Nil	720	113	0.56	64	124	500	64	82	193	12.7	26	nd
17	Aligarh	ATRAULI	Block H.Q.	28.04173	78.28127	7.64	1624	Nil	659	149	0.63	15	41	620	88	96	80	10.6	31	nd
18	Aligarh	GONDA	Block H.Q.	27.83670	77.87960	8.21	3597	Nil	610	518	0.68	BDL	494	510	44	96	561	15.5	22	nd
19	Aligarh	IGLAS	Block H.Q.	27.70622	77.93904	7.75	1100	Nil	512	28	0.91	17	69	260	60	26	130	3.9	24	nd
20	Aligarh	KHAIR	Block H.Q.	27.94350	77.83640	7.74	3104	Nil	848	376	2.35	61	241	500	76	74	462	22.9	26	nd

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
21	Aligarh	TAPPAL	Block H.Q.	28.04280	77.57917	7.85	1220	Nil	451	64	1.85	18	123	310	60	38	133	4.2	27	nd
22	Aligarh	Bijauli	Block H.Q.	27.97872	78.40003	7.65	1900	Nil	695	191	0.45	34	70	410	100	38	240	6.3	34	nd
23	Aligarh	Dhanipur	Block H.Q.	27.87206	78.10761	8.24	691	Nil	366	14	1.02	BDL	16	250	32	41	37	7.8	20	nd
24	Amethi	Bahadupur	Block H.Q	26.26678	81.51818	7.84	700	Nil	390	14	0.88	BDL	6.0	270	44	38	35	3.2	26	nd
25	Amethi	Tiloee	Block H.Q	26.392795	81.47084	7.69	1260	Nil	537	92	0.29	BDL	15	380	80	43	73	27.1	20	nd
26	Amethi	Amethi	P.W.D. Dak Bangla	26.156183	81.8086	7.66	3129	Nil	1061	220	0.43	47	281	830	112	132	326	9.5	34	nd
27	Amethi	Bhetya	Block H.Q	26.21066	81.87518	7.91	669	Nil	329	14	0.66	BDL	25	250	52	29	33	3.8	30	nd
28	Amethi	Jagdishpur	Block H.Q	26.45599	81.62883	7.77	1558	Nil	573	99	0.54	21	99	420	80	53	158	5.2	36	nd
29	Amethi	Musafir Khana	Block H.Q	26.377752	81.80047	7.64	1658	Nil	598	131	0.60	52	49	540	92	74	120	7.4	36	nd
30	Amroha	Amroha	Block Office	28.90419	78.48593	7.89	754	nil	305	57	0.14	17	32	310	72	31	26	5.3	26	nd
31	Amroha	Hasanpur	Block Office	28.731746	78.2813	7.84	1765	nil	354	99	BDL	47	385	640	180	46	102	4.7	32	nd

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
32	Amroha	Joya	Block Office	28.83557	78.47319	7.9	1454	nil	458	99	0.15	125	86	440	108	41	105	28.9	23	nd
33	Auraiya	Achalda	Block H.Q	26.69954	79.40270	7.85	1577	nil	525	163	0.84	23	86	570	72	94	97	3.7	22	nd
34	Auraiya	Auraiya	Block H.Q	26.46610	79.50392	7.65	1413	nil	500	99	0.45	72	50	510	128	46	87	2.6	35	nd
35	Auraiya	Sahar	Block H.Q	26.75847	79.60017	7.59	1339	nil	598	64	1.06	11	55	420	56	67	105	6.2	27	nd
36	Auraiya	Bidhuna	Block H.Q	26.80250	79.50242	7.71	1231	nil	573	43	0.71	5.9	32	420	64	62	75	8.0	25	nd
37	Ayodhya	Maya Bazar	Block H.Q	26.64514	82.33258	7.94	687	Nil	366	14	0.48	BDL	19	270	64	26	31	3.7	27	nd
38	Azamgarh	Ahiraula	Block H.Q.	26.17514	82.89244	8	610	nil	354	21	0.34	BDL	8.2	260	44	36	31	2.6	19	nd
39	Azamgarh	Thekma	Block H.Q.	25.86340	82.92628	8.22	817	nil	415	50	0.88	11	BDL	310	48	46	51	1.7	23	nd
40	Azamgarh	Palhana	Block H.Q.	25.78446	83.09023	8.6	1060	24	573	21	1.59	BDL	7.0	50	8.0	7.2	243	BDL	14	nd
41	Azamgarh	Maharajganj	Block H.Q.	25.26076	83.11155	7.74	842	nil	329	64	0.18	56	16	350	100	24	42	1.9	29	nd
42	Azamgarh	Mohammadpur	Block H.Q.	25.96242	83.02766	8.35	840	30	439	21	1.08	BDL	5.1	270	56	31	77	1.9	23	nd

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
43	Baghpat	Baghpat	In block office	28.94399	77.22007	7.62	2904	nil	268	468	0.52	416	200	1080	240	115	162	8.6	28	nd
44	Baghpat	Baraut	In block office	29.10699	77.26438	8.22	909	nil	403	35	0.84	18	48	330	44	53	53	5.2	25	nd
45	Baghpat	Chaprauli	In block office	29.20812	77.17869	8.13	1234	nil	500	85	0.79	BDL	58	380	72	48	103	1.9	19	nd
46	Baghpat	Khekra	In block office	28.86913	77.28847	8.23	797	nil	390	14	0.52	BDL	49	340	72	38	28	4.2	28	nd
47	Baghpat	Pilana	In block office	28.93623	77.37222	8.04	1699	nil	708	71	0.55	15	125	310	48	46	240	8.2	24	nd
48	Bahraich	Tejawapur	Block H.Q	27.53139	81.49583	7.64	930	nil	488	36	0.30	BDL	BDL	380	120	19	35	6.7	24	nd
49	Bahraich	Huzurpur	Block H.Q	27.35376	81.66348	7.65	552	nil	293	7.1	0.22	BDL	9.1	250	60	24	10	3.7	24	nd
50	Bahraich	Mahasi	Block H.Q	27.63972	81.38750	7.69	954	nil	451	50	0.17	18	BDL	350	100	24	54	6.2	21	nd
51	Bahraich	Shivpur	Block H.Q	27.81083	81.39333	7.74	738	nil	415	14	0.21	BDL	BDL	290	88	17	32	4.8	27	nd
52	Bahraich	Fakharpur	Block H.Q	27.41944	81.52639	7.74	1322	nil	549	121	0.16	BDL	6.4	390	104	31	91	51.3	16	nd
53	Bahraich	Mihipurwa	Block H.Q	28.02556	81.38361	7.82	502	nil	256	7.1	0.31	BDL	21	240	56	24	3.5	2.0	28	nd

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
54	Ballia	Bansdeeh	Block H.Q.	25.87439	84.21642	7.88	1610	nil	537	192	0.12	35	69	280	62	29	255	2.5	19	nd
55	Ballia	Belhari	Block H.Q.	25.77881	84.30445	7.75	1041	nil	415	99	0.33	BDL	68	350	64	46	76	36.6	21	nd
56	Ballia	Chilkahar	Block H.Q.	25.82529	83.96436	8.05	757	nil	451	21	0.64	BDL	BDL	320	48	48	43	3.5	22	nd
57	Ballia	Murali Chhapara	Block H.Q.	25.72846	84.50528	8.23	684	nil	409	14	BDL	BDL	BDL	300	80	24	16	3.3	20	nd
58	Ballia	Rasara	Block H.Q.	25.86830	83.86164	8.64	611	30	305	21	0.20	BDL	BDL	220	16	43	51	4.2	21	nd
59	Ballia	Bairya	Block H.Q.	25.79578	84.47864	7.78	549	nil	293	25	BDL	BDL	24	240	60	22	25	3.0	23	nd
60	Ballia	Dubahar	Block H.Q.	25.77011	84.17503	7.91	788	nil	415	50	0.36	BDL	5.7	275	56	32	71	5.2	19	nd
61	Ballia	Reoti	Block H.Q.	25.84180	84.37180	8.09	521	nil	305	14	0.28	5.4	BDL	240	76	12	11	3.5	22	nd
62	Ballia	Sohaon	Block H.Q.	25.62909	84.00429	7.88	550	nil	342	14	0.13	BDL	BDL	210	52	19	36	3.8	21	nd
63	Balrampur	Balrampur	Block H.Q	27.42861	82.17111	7.87	694	nil	354	21	0.19	BDL	7.6	280	80	19	25	3.0	31	nd
64	Balrampur	Gaidas Buzurg	Block H.Q	27.26413	82.42056	8.07	762	nil	439	7.1	0.46	BDL	BDL	340	76	36	15	3.2	32	nd

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
65	Balrampur	Gainsari	Near Railway Station Gainsari, Not from Block HQ	27.52717	82.54719	7.47	2038	nil	610	206	0.20	30	155	610	216	17	181	1.9	18	nd
66	Balrampur	Rehra Bazar	Adjacent to Block HQ. South side of Kali Mandir	27.18139	82.27816	7.42	1731	nil	561	185	0.17	BDL	82	610	132	67	103	10.9	17	nd
67	Balrampur	Harraiya Satgharwa	Block H.Q	27.63611	82.17444	7.87	856	nil	488	7.1	0.77	BDL	BDL	260	32	43	76	2.3	18	nd
68	Balrampur	Tulsipur	Block H.Q	27.51168	82.29617	7.62	791	nil	439	14	0.43	BDL	BDL	310	92	19	38	1.6	23	nd
69	Balrampur	Utraula	Block H.Q	27.32139	82.40750	8	682	nil	342	28	0.49	BDL	13	320	68	36	7.1	4.5	27	nd
70	Banda	Naraini	Block H.Q	25.18482°	80.471655°	8.17	1334	nil	549	113	0.82	16	19	490	52	86	78	1.1	35	nd
71	Banda	Badokhar Khurd	Block H.Q	25.451466°	80.35328°	8.44	1376	24	573	78	0.83	8	22	300	48	43	172	1.7	27	nd
72	Banda	Baberu	Block H.Q	25.538277°	80.696009°	8.11	887	nil	464	28	0.51	BDL	10	230	60	19	90	1.3	22	nd
73	Banda	Badokhar Khurd	District H.Q	25.481093°	80.330861°	8.16	1374	nil	537	99	0.92	50	62	340	52	50	143	BDL	26	nd
74	Barabanki	Puredalal	Block H.Q.	26.86860	81.71030	7.71	470	nil	268	14	1.00	BDL	BDL	230	56	22	11	2.3	30	nd
75	Barabanki	Ramnagar	Block H.Q.	27.08520	81.40530	7.77	745	nil	366	43	0.70	BDL	32	340	84	31	27	4.0	29	nd

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
76	Bareilly	Majhgawa	Block H.Q	28.31174	79.27350	8.14	878	Nil	415	50	BDL	BDL	35	150	16	26	130	2.4	18	nd
77	Bareilly	Ram Nagar	Block H.Q	28.36955	79.12004	7.96	488	Nil	207	14	BDL	20	19	200	72	5	12	2.6	35	nd
78	Bareilly	Faridpur	Block H.Q	28.20066	79.53943	7.86	1236	Nil	415	163	BDL	BDL	37	350	64	46	109	11.0	19	nd
79	Bareilly	Shergarh	Block H.Q	28.65410	79.36506	8.15	486	Nil	244	21	0.32	BDL	17	200	64	10	21	4.9	26	nd
80	Basti	Gaur	Block H.Q	26.90764	82.57372	7.94	467	nil	244	21	BDL	BDL	BDL	220	48	24	4.6	2.1	28	nd
81	Basti	Paras Rampur	Block H.Q	26.90552	82.34041	7.84	656	nil	354	21	0.38	BDL	BDL	270	72	22	25	2.5	26	nd
82	Basti	Saughat	Block H.Q	26.83618	82.76773	7.88	1235	nil	622	36	1.02	BDL	28	310	52	43	136	2.0	24	nd
83	Basti	Vikramjot	Block H.Q	26.77972	82.36611	7.96	460	nil	232	7.1	0.40	BDL	21	220	48	24	3.0	3.0	30	nd
84	Basti	Saltaua	Block H.Q	26.92996	82.71361	7.98	909	nil	525	7.1	0.36	BDL	BDL	360	56	53	41	3.2	30	nd
85	Bijnor	Jaleelpur	Block Office	29.14748	78.18623	7.92	631	nil	195	14	0.20	BDL	125	260	76	17	22	4.8	23	nd
86	Bijnor	Kiratpur	Block Office	29.499499	78.20778	7.91	1094	nil	403	57	BDL	BDL	113	410	100	38	52	8.5	29	nd

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
87	Bijnor	Mohammadpur Deomal	Block Office	29.37647	78.13236	8.04	834	nil	354	50	BDL	BDL	49	330	60	43	33	10.3	13	nd
88	Bijnor	Noorpur	Block Office	29.151634	78.40309	7.78	1198	nil	525	92	0.10	BDL	37	410	124	24	84	4.0	39	nd
89	Bijnor	Afzalgarh	Block Office	29.379398	78.73179	8.08	390	nil	207	14	0.32	BDL	BDL	180	56	10	5.3	1.0	26	0.49
90	Bijnor	Aku (Nehtaur)	Block Office	29.32546	78.37433	8.09	520	nil	293	7.1	0.11	BDL	5.1	240	68	17	6.2	3.8	30	nd
91	Budaun	Ujhani	Block H.Q	28.00273	79.01435	7.79	1407	Nil	549	142	BDL	50	59	380	104	29	155	10.0	27	nd
92	Budaun	Quadar Chowk	Block H.Q	27.87128	79.08103	8.18	350	Nil	183	21	0.22	5.0	8.2	140	40	10	20	3.7	25	nd
93	Budaun	Usawan	Block H.Q	27.81130	79.34828	8.02	340	Nil	171	14	0.26	9.5	8.6	130	48	2	18	4.5	22	nd
94	Budaun	Asafpur	Block H.Q	28.39401	78.91132	7.94	705	Nil	329	57	BDL	BDL	20	190	48	17	72	25.0	27	nd
95	Budaun	Salarpur	Block H.Q	28.07057	79.13302	8.07	645	Nil	305	43	BDL	BDL	47	270	68	24	34	8.3	20	nd
96	Bulandshahr	BULANDSHAHAR	Block H.Q.	28.38860	77.83540	7.92	309	Nil	134	14	0.28	BDL	23	150	36	14	BDL	1.9	18	nd
97	Bulandshahr	LAKHAOTI	Block H.Q.	28.52640	77.97740	7.81	954	Nil	464	21	0.92	15	47	350	72	41	51	6.6	27	nd

Post monsoon (Basic)Chemical data 2023-24 CGWB, NR , LUCKNOW																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
98	Bulandshahr	SHIKARPUR	Block H.Q.	28.27910	78.00420	7.81	1551	Nil	525	163	0.74	18	74	430	80	55	146	7.4	31	nd
99	Bulandshahr	Jahangirabad	Block H.Q.	28.41397	78.08843	8.37	877	6.0	403	35	0.24	30	26	250	24	46	82	7.3	38	nd
100	Bulandshahr	Danpur	Block H.Q.	28.19255	78.20604	8.2	681	nil	354	14	0.14	7.6	24	190	24	31	65	4.8	34	nd
101	Bulandshahr	UNCHAGAON	Block H.Q.	28.48790	78.16000	7.69	721	nil	378	14	0.21	BDL	24	340	80	34	6.9	4.2	23	nd
102	Chandauli	Chahniya	Block H.Q.	25.41778	83.20944	7.74	1077	nil	470	78	0.61	23	42	450	48	79	33	4.3	28	nd
103	Chandauli	Sakaldiha	Block H.Q.	25.35528	83.25833	8.14	968	nil	476	43	0.88	5.7	33	400	124	22	33	6.2	30	nd
104	Chitrakoot	Mau	Block H.Q	25.269419°	81.371624°	8.03	1000	nil	512	35	0.78	20	13	270	48	36	105	BDL	20	nd
105	Chitrakoot	Manikpur	Block H.Q	25.068465°	81.098523°	7.98	997	nil	305	106	0.12	BDL	68	350	128	7	67	1.8	12	nd
106	Chitrakoot	Karvi	Block H.Q	25.214761°	80.919702°	7.94	1768	nil	537	234	0.45	45	43	710	104	108	77	1.6	26	nd
107	Chitrakoot	Pahari	Block H.Q	25.333062°	80.963863°	7.53	972	nil	207	106	1.08	108	65	350	64	46	53	BDL	63	nd
108	Deoria	Bankata	Block H.Q	26.27152	84.11324	8.01	841	nil	305	14	0.27	BDL	150	260	44	36	69	4.6	32	nd

Post monsoon (Basic)Chemical data 2023-24 CGWB, NR , LUCKNOW																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
109	Deoria	Tarkulwa	Block H.Q	26.62769	83.89101	8.02	740	nil	244	78	0.25	BDL	16	200	64	10	50	5.6	30	nd
110	Deoria	Bhaluwani	Opposite Block H.Q	26.37074	83.76155	7.87	810	nil	342	64	0.30	BDL	36	320	60	41	35	6.6	27	nd
111	Etah	Jalesar	Block H.Q	27.47980	78.30629	7.69	3700	nil	805	582	1.42	53	468	810	116	125	535	9.9	30	nd
112	Etah	Sheetalpur	Block H.Q	27.56962	78.67305	7.65	639	nil	360	14	0.59	BDL	6.4	210	52	19	43	4.4	22	nd
113	Etawah	Barhpura	Block H.Q	26.71910	78.95715	7.73	730	nil	342	35	0.23	22	BDL	290	64	31	27	3.1	42	nd
114	Farrukhabad	Kamalganj	Block H.Q	27.26176	79.63240	7.57	1543	nil	512	128	0.24	119	80	330	92	24	185	5.4	31	nd
115	Farrukhabad	Mohammdabad	Block H.Q	27.30744	79.43646	7.03	826	nil	372	92	0.47	BDL	10	340	92	26	35	5.8	34	nd
116	Farrukhabad	Rajepur	Block H.Q	27.48043	79.66195	8.14	1291	nil	634	28	1.75	BDL	120	110	12	19	276	1.3	34	nd
117	Farrukhabad	Shamsabad	Block H.Q	27.53622	79.44050	7.56	1709	nil	397	156	0.35	145	184	500	152	29	151	5.9	31	nd
118	Fatehpur	Amauli	Block H.Q	26.014233°	80.31044°	7.35	1154	nil	464	64	0.29	BDL	69	480	118	44	37	2.0	35	nd
119	Fatehpur	Khajua	Block H.Q	26.05658	80.51694	8.04	760	nil	354	43	1.05	7.6	21	350	52	53	10	3.8	26	nd

Post monsoon (Basic)Chemical data 2023-24 CGWB, NR , LUCKNOW																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
120	Fatehpur	Malwan	Block H.Q	26.03640	80.70700	8.36	3009	30	1116	113	1.96	BDL	239	350	30	66	512	6.0	20	nd
121	Fatehpur	Teliyani	Block H.Q	25.952118°	80.795862°	8.25	1184	nil	464	35	1.10	BDL	113	340	50	52	116	4.7	26	nd
122	Fatehpur	Hathgaon	Block H.Q	25.86513	81.12705	8.15	936	nil	439	32	0.94	8.7	18	380	60	55	23	21.2	28	nd
123	Fatehpur	Asother	Block H.Q	25.75891°	80.886164°	8.18	876	nil	427	28	0.84	BDL	16	330	44	53	46	4.0	29	nd
124	Fatehpur	Bahua	Block H.Q	25.843611°	80.629875°	7.89	1213	nil	476	92	0.56	36	39	490	104	55	50	3.2	31	nd
125	Fatehpur	Airayan	Block H.Q	25.769762°	81.102821°	7.9	1789	nil	622	184	0.63	38	62	720	104	110	75	8.2	27	nd
126	Fatehpur	Vijayeepur	Block H.Q	25.691882°	81.058384°	7.6	837	nil	427	21	0.88	6.0	16	320	60	41	39	2.6	32	nd
127	Fatehpur	Dhata	Block H.Q	25.539295°	81.228763°	7.87	884	nil	415	35	0.63	24	20	360	76	41	35	3.3	31	nd
128	Firozabad	Aron	Block H.Q	27.15023	78.70482	8.34	1456	24	476	85	1.46	39	138	220	28	36	118	164	33	nd
129	Firozabad	Eka	Block H.Q	27.37907	78.60743	8.02	1026	nil	470	39	2.12	37	59	285	36	47	128	4.2	32	nd
130	Firozabad	Firozabad	Block H.Q	27.16539	78.37906	8.19	3317	nil	476	462	1.50	8.7	493	320	72	34	612	3.0	23	nd

Post monsoon (Basic)Chemical data 2023-24 CGWB, NR , LUCKNOW																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
131	Firozabad	Hathwant	Block H.Q	27.22911	78.50407	7.95	3456	nil	378	582	0.95	334	172	1310	228	178	157	7.9	28	nd
132	Firozabad	Madanpur	Block H.Q	27.02716	78.64436	8.1	975	nil	488	36	1.73	BDL	24	370	28	72	41	5.0	33	nd
133	Firozabad	Narkhi	Block H.Q	27.29036	78.40702	7.99	151900	nil	439	3209	2.07	860	2438	3130	336	550	2431	8.3	33	nd
134	Firozabad	Tundla	Block H.Q	27.22545	78.24661	8.47	2176	36	549	241	2.65	34	194	110	20	14	441	1.6	32	nd
135	G.B. Nagar	BISRAKH	Block H.Q.	28.57148	77.43895	8.25	837	nil	348	57	0.69	24	26	320	72	34	40	7.5	30	nd
136	G.B. Nagar	JEWAR	Block H.Q	28.12416	77.56682	7.97	1624	nil	628	99	1.95	18	126	260	48	34	249	3.3	30	nd
137	G.B. Nagar	Dadri	Block H.Q	28.55444	77.55360	7.76	1644	nil	561	106	0.80	79	100	430	68	62	156	9.0	31	nd
138	G.B. Nagar	DANKAUR	Dist. H.Q	28.35330	77.55590	7.85	2007	nil	756	92	4.70	10	177	190	28	29	370	4.2	28	nd
139	Ghaziabad	Loni	In block office	28.74674	77.28976	7.96	2169	nil	415	397	0.60	30	128	270	68	24	355	26.4	22	nd
140	Ghaziabad	Muradnagar	In block office	28.77284	77.51128	8.15	1476	nil	573	142	0.51	BDL	32	480	100	55	100	9.0	26	nd
141	Ghaziabad	Razapur	In block office	28.71016	77.45626	8.11	1547	nil	598	113	0.94	20	66	260	64	24	225	7.6	29	nd

Post monsoon (Basic)Chemical data 2023-24 CGWB, NR , LUCKNOW																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
142	Ghazipur	Deokali	Block H.Q.	25.55139	83.33802	8.09	1674	nil	708	128	1.47	BDL	105	320	32	58	265	2.7	18	nd
143	Ghazipur	Jamania	Block H.Q.	25.41490	83.55890	7.6	1302	nil	366	192	0.20	43	27	480	120	43	85	2.0	29	nd
144	Ghazipur	Jakhaniya	Block H.Q.	25.74263	83.37248	8.68	930	30	451	21	1.59	BDL	6.8	310	16	65	59	BDL	16	nd
145	Ghazipur	Mardah	Block H.Q.	25.80020	83.56374	7.77	805	nil	415	36	0.58	6.0	30	260	40	38	83	3.8	24	nd
146	Ghazipur	Saidpur	Block H.Q.	25.54231	83.22726	8.05	1373	nil	403	231	0.82	BDL	22	355	52	54	167	3.1	18	nd
147	Ghazipur	Ghazipur	Block H.Q.	25.56770	83.56025	7.86	1851	nil	634	270	0.94	12	68	460	66	72	246	4.5	21	nd
148	Gonda	Colonelganj	Block H.Q	27.13389	81.69556	7.76	1212	nil	549	57	1.34	5.9	50	470	84	62	60	3.3	23	nd
149	Gonda	Haldharmau HQ	Block H.Q	27.13900	81.76130	7.75	652	nil	378	7.1	0.26	BDL	BDL	300	68	31	8.1	4.5	19	nd
150	Gonda	Katra Bazar HQ	Block H.Q	27.20629	81.79379	7.44	1198	nil	512	78	0.18	26	18	360	100	26	82	44.3	23	nd
151	Gonda	Padri Kripal HQ	Block H.Q	27.16278	81.96833	7.99	594	nil	317	14	0.34	BDL	BDL	280	68	26	6.2	2.9	30	nd
152	Gonda	Paraspur HQ	Block H.Q	27.03472	81.78639	7.91	772	nil	427	14	0.18	BDL	BDL	330	88	26	22	3.5	27	nd

Post monsoon (Basic)Chemical data 2023-24 CGWB, NR , LUCKNOW																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
153	Gonda	Tarabganj HQ	Block H.Q	26.95556	81.99000	7.63	1411	nil	476	85	0.12	117	64	530	128	50	62	27.9	28	nd
154	Gonda	Jhanjhari	Block H.Q	27.11887	81.96722	7.77	992	nil	378	71	0.31	BDL	66	400	116	26	40	4.3	27	nd
155	Gorakhpur	Gagaha	Block H.Q	26.44930	83.43760	8.11	564	nil	305	7	0.36	BDL	5.0	240	52	26	11	3.6	31	nd
156	Gorakhpur	Kauriram	Block H.Q	26.51610	83.41520	8.07	601	nil	317	21	0.50	BDL	5.0	260	60	26	16	3.7	24	nd
157	Hamirpur	Muskara	Block H.Q	25.66112°	79.793648°	8.11	1754	nil	817	78	1.18	BDL	53	230	44	29	285	1.1	31	nd
158	Hamirpur	Rath	Block H.Q	25.59875°	79.576894°	8.25	2400	nil	464	248	0.53	BDL	394	370	84	38	356	9.7	17	nd
159	Hamirpur	Gohand	Block H.Q	25.695088°	79.54594°	7.84	1286	nil	610	64	0.41	6.4	23	530	112	60	51	2.4	33	nd
160	Hamirpur	Sarila	Block H.Q	25.772784°	79.674748°	8.07	1740	nil	586	163	0.48	58	70	460	80	62	148	53.3	28	nd
161	Hamirpur	Maudaha	Block H.Q	25.687558°	80.096145°	8.08	2500	nil	732	163	0.47	32	303	460	76	65	350	1.1	29	nd
162	Hamirpur	Kurara	Block H.Q	25.978942°	79.984826°	8.15	910	nil	476	35	0.62	BDL	10	280	60	31	79	1.6	26	nd
163	Hapur	Dhaualana	In block office	28.63297	77.64412	8.2	744	nil	329	21	1.05	6	45	270	48	36	41	5.3	27	nd

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
164	Hapur	Simbholi	In block office	28.76730	78.00006	8.02	684	nil	268	43	0.58	BDL	48	290	56	36	21	4.7	21	nd
165	Hardoi	Madhavganj	Block H.Q	27.11741	80.12575	8.19	427	Nil	244	14	0.73	5.0	5.0	130	28	14	43	4.9	20	nd
166	Hardoi	Kachhauna	Block H.Q	27.16329	80.33552	7.79	818	Nil	451	21	BDL	5.0	19	250	60	24	75	7.9	23	nd
167	Hardoi	Sandila	Block H.Q	27.05663	80.51737	8.16	714	Nil	342	28	0.33	47	31	260	48	34	57	4.8	24	nd
168	Hardoi	Sandi	Block H.Q	28.58056	77.79056	7.88	656	Nil	342	21	0.34	14	28	260	60	26	38	10.0	14	nd
169	Hardoi	Shahabad	Block H.Q	27.64863	79.94333	7.98	430	Nil	220	21	BDL	BDL	16	150	40	12	34	3.7	16	nd
170	Hardoi	Tadiyawan	Block H.Q	27.43792	80.24056	8.18	546	Nil	281	28	0.58	BDL	24	210	48	22	37	5.3	22	nd
171	Hardoi	Mallawan	Block H.Q	27.02580	80.15470	7.99	799	Nil	366	57	1.00	5.0	33	240	56	24	80	6.7	22	nd
172	Hathras	HASSAIN	Block HQ	27.61202	78.26751	7.66	1149	nil	525	64	0.56	8.6	30	330	88	26	100	7.3	30	nd
173	Hathras	HATHRAS	District H.Q.	27.57300	78.05510	7.82	3079	nil	866	326	1.02	139	228	530	76	82	413	71.9	29	nd
174	Hathras	MURSAN	Block H.Q.	27.56827	77.94061	7.31	3572	nil	708	553	1.28	BDL	411	720	112	106	488	8.3	19	nd

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
175	Hathras	SADABAD	Block H.Q.	27.44660	78.04010	8.31	3391	12	476	404	1.30	BDL	622	330	28	62	597	3.9	6	nd
176	Hathras	SAHPAU	Block H.Q.	27.43690	78.13740	7.85	1794	nil	671	128	0.62	38	101	350	60	48	219	32.2	27	nd
177	Hathras	SASNI	Block H.Q.	27.69110	78.07410	7.71	2553	nil	781	255	1.01	47	155	500	76	74	318	5.7	28	nd
178	Jalaun	Dakore	Block H.Q.	25.87501	79.42484	8.06	1707	nil	598	213	0.67	41	82	810	72	151	51	1.2	27	nd
179	Jalaun	Konch	Block H.Q.	26.00174	79.16184	8.21	897	nil	378	71	0.35	52	16	310	52	43	79	2.3	28	nd
180	Jalaun	Rampura	Block H.Q.	26.34813	79.18386	8.24	699	nil	403	28	0.41	6.1	BDL	300	64	34	39	1.9	27	nd
181	Jaunpur	Mungra Badshahpur	Block H.Q	25.65630	82.18872	8.28	882	nil	476	21	0.90	BDL	19	270	40	41	87	4.5	25	nd
182	Jaunpur	Machchli Sahar	Block H.Q	25.66820	82.39920	8.53	1373	96	366	78	1.18	BDL	130	190	20	34	250	2.0	16	nd
183	Jaunpur	Jaunpur	In Jaunpur City	25.74472	82.68444	7.87	1989	nil	451	291	0.27	40	170	620	56	115	185	5.0	26	nd
184	Jaunpur	Ram Nagar	Block H.Q	25.55528	82.62000	7.98	995	nil	549	43	0.64	BDL	15	300	40	48	109	6.0	25	nd
185	Jaunpur	Rampur	Block H.Q	25.49028	82.57083	8.53	1030	96	354	14	1.34	11	70	140	24	19	200	3.4	22	nd

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
186	Jaunpur	Shahganj	Block H.Q	25.96611	82.67500	7.70	1082	nil	439	85	0.52	18	52	340	44	55	105	8.8	30	nd
187	Jaunpur	Dharampur	Block H.Q	25.75250	82.74750	8.28	799	nil	451	21	0.68	7.3	10	310	40	50	52	6.2	27	nd
188	Jhansi	Babina	Block H.Q.	25.23391	78.46967	8.17	960	nil	354	85	0.25	73	51	430	136	22	36	1.1	37	nd
189	Jhansi	Bamaur	Block H.Q.	25.61314	79.18572	8.23	2427	nil	476	440	0.30	90	130	690	152	74	261	2.2	30	nd
190	Jhansi	Bangra	Block H.Q.	25.31156	79.00384	8.06	1958	nil	305	373	0.24	101	137	750	240	36	88	BDL	42	nd
191	Jhansi	Baragaon	Block H.Q.	25.47376	78.70009	8.24	1256	nil	634	71	0.37	12	45	260	64	24	198	2.2	30	nd
192	Jhansi	Chirgaon	Block H.Q.	25.57110	78.80584	8.23	873	nil	476	36	0.67	6.5	21	290	56	36	79	1.8	20	nd
193	Jhansi	District HQ	Vikas Bhawan Jhansi	25.44363	78.57753	8.2	602	nil	250	50	0.60	25	28	205	76	4	58	BDL	33	nd
194	Jhansi	Gursarai	Block H.Q.	25.61314	79.18572	7.88	3482	nil	397	646	0.46	25	353	1360	400	86	132	21.0	49	nd
195	Jhansi	Mauranipur	Block H.Q.	25.25540	79.14371	8.18	715	nil	329	36	0.43	69	15	290	68	29	37	1.1	35	nd
196	Jhansi	Moth	Block H.Q.	25.72993	78.95227	8.24	1079	nil	500	92	0.29	28	24	305	60	37	114	3.0	25	nd

Post monsoon (Basic)Chemical data 2023-24 CGWB, NR , LUCKNOW																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
197	Kannauj	Gugrapur	Block H.Q	27.12548	79.86535	7.97	645	nil	317	28	0.38	BDL	15	230	48	26	40	2.8	21	nd
198	Kannauj	Haseran	Block H.Q	26.91851	79.58062	7.97	340	nil	171	7.1	2.55	BDL	17	150	36	14	8	2.5	22	nd
199	Kanpur Dehat	Sandalpur	Block H.Q	26.42228	79.67447	7.78	1254	nil	451	99	0.43	64	33	530	60	91	40	2.3	33	nd
200	Kanpur Dehat	Amraudha	Block H.Q	26.19597	79.77950	7.79	2212	nil	586	170	0.33	248	126	890	144	127	96	8.5	25	nd
201	Kanpur Dehat	Derapur	Block H.Q	26.41748	79.79322	7.99	1727	nil	720	92	0.80	26	106	350	52	53	228	3.7	29	nd
202	Kanpur Dehat	Akberpur	Block H.Q	26.38223	79.95612	8.36	1413	18	671	43	7.00	7.8	37	170	16	31	233	1.4	16	nd
203	Kanpur Dehat	Rasoolabad	Block H.Q	26.66804	79.78387	7.93	1331	nil	525	106	0.76	21	39	470	60	77	79	8.0	26	nd
204	Kanpur Nagar	Kalyanpur	Block H.Q	26.50420	80.25477	7.98	940	nil	427	71	0.63	BDL	15	290	36	48	80	6.3	13	nd
205	Kanpur Nagar	Patara	Block H.Q	26.23330	80.19656	7.87	1596	nil	647	121	0.62	23	70	560	72	91	106	5.8	32	nd
206	Kanpur Nagar	Bhitargaon	Block H.Q	26.21264	80.27707	8	1251	nil	561	57	1.06	21	47	380	44	65	111	2.3	25	nd
207	Kanpur Nagar	Shivrajpur	Block H.Q	26.68626	80.14051	7.85	2390	nil	268	461	0.60	67	132	840	172	98	105	25.2	24	nd

Post monsoon (Basic)Chemical data 2023-24 CGWB, NR , LUCKNOW																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
208	Kanpur Nagar	Chaubepur	Block H.Q	26.62149	80.19182	8.01	896	nil	512	7.1	0.92	BDL	BDL	320	48	48	55	5.7	28	nd
209	Kanpur Nagar	Kakwan	Block H.Q	26.74262	79.97628	8.03	623	nil	305	7.1	2.50	BDL	41	250	36	38	25	5.6	24	nd
210	Kasganj	Kasganj	Block H.Q	27.81790	78.65615	8.05	567	nil	293	21	1.09	21	16	230	52	24	27	4.1	35	nd
211	Kasganj	Patiyali	Block H.Q	27.69128	78.99889	7.95	1102	nil	226	103	0.90	162	45	425	116	32	47	7.6	39	nd
212	Kasganj	Sahawar	Block H.Q	27.79010	78.82921	8.04	425	nil	220	14	1.16	BDL	17	180	40	19	13	4.0	34	nd
213	Kasganj	Sidhpura	Block H.Q	27.63089	78.86602	8	1394	nil	512	135	1.21	9.2	77	310	72	31	189	13.1	30	nd
214	Kasganj	Soron	Block H.Q	27.88915	78.75138	7.97	1351	nil	244	170	1.43	124	108	450	104	46	77	6.0	29	nd
215	Kaushambi	Kara	Block H.Q	25.69530	81.35950	8.17	2305	nil	610	135	0.89	47	450	530	84	77	245	140.0	24	nd
216	Kaushambi	Muratganj	Block H.Q	25.55500	81.53850	7.66	2827	nil	537	312	0.37	47	390	1250	140	216	56	7.4	24	nd
217	Kushinagar	Dudhai	Block H.Q	26.79790	84.15601	7.66	670	nil	342	28	BDL	BDL	5.0	310	56	41	5	10.0	31	nd
218	Kushinagar	Nebuwa Naurangia	Block H.Q	27.05420	83.86880	8.34	1290	24	488	92	BDL	BDL	49	510	68	82	40	30.0	20	nd

Post monsoon (Basic)Chemical data 2023-24 CGWB, NR , LUCKNOW																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
219	Kushinagar	Sewarhi	Block H.Q	26.72440	84.21640	8.08	782	nil	354	43	BDL	BDL	27	330	60	43	21	9.6	47	nd
220	Kushinagar	Fazil Nagar	Block H.Q	26.68252	84.04678	8.04	811	nil	342	71	BDL	BDL	21	350	112	17	23	3.6	34	nd
221	Kushinagar	Hata	Block H.Q	26.73953	83.73170	8.36	580	24	256	21	0.61	BDL	5.0	240	52	26	19	5.0	34	nd
222	Kushinagar	Khadda	Block H.Q	27.17891	83.88130	8.06	676	nil	342	14	BDL	BDL	26	290	72	26	15	10.0	19	nd
223	Lakhimpur	Gola	Block H.Q	28.06955	80.48283	7.93	358	Nil	232	7.1	BDL	BDL	5	180	44	17	10	3.7	18	nd
224	Lakhimpur	Pasgawan	Block H.Q	27.82056	80.16778	7.37	311	Nil	134	21	0.30	BDL	23	150	36	14	6	2.7	18	nd
225	Lakhimpur Kheri	Nakaha	Block H.Q	27.88518	80.94799	8.11	688	Nil	366	50	BDL	BDL	5.0	250	52	29	55	6.0	7.0	nd
226	Lakhimpur Kheri	Isanagar	Block H.Q	27.90759	81.20733	7.79	583	Nil	354	21	BDL	BDL	BDL	270	56	31	15	7.2	46	nd
227	Lakhimpur Kheri	Nighasan	Block H.Q	28.23961	80.86365	7.95	519	Nil	329	7.1	BDL	BDL	7.0	170	48	12	50	6.7	28	nd
228	Lakhimpur Kheri	Palia Kalan	Block H.Q	28.43721	80.56035	8.19	636	Nil	397	14	BDL	5.0	5.0	280	72	24	30	7.6	22	nd
229	Lalitpur	Bar	Block H.Q.	24.86233	78.58815	8.19	993	nil	317	99	0.29	5.0	51	415	76	54	30	BDL	44	nd

Post monsoon (Basic)Chemical data 2023-24 CGWB, NR , LUCKNOW																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
230	Lalitpur	Jakhauar	Block H.Q.	24.89603	78.33887	8.09	1218	nil	476	114	1.03	87	18	420	80	53	88	BDL	47	nd
231	Lalitpur	Madwara	Block H.Q./ Tehsil	24.37258	78.79309	8.15	1363	nil	488	135	0.20	19	94	620	88	96	54	1.8	51	nd
232	Lalitpur	Mehrauni	Block H.Q.	24.57686	78.72659	8.17	1022	nil	317	99	0.31	88	47	370	132	10	55	2.3	38	nd
233	Lalitpur	Talbehat	Block H.Q.	25.03971	78.42278	8.18	860	nil	293	71	0.94	45	59	350	134	4	44	BDL	40	nd
234	Lucknow	Chinhat	Sarvodaya Nagar, Indra Nagar, Lucknow. Adjacent to Vikas Bhawan	26.88000	80.97420	7.54	1020	nil	366	78	0.76	92	49	420	76	55	55	5.3	32	nd
235	Maharajganj	Ghughuli	Block H.Q	27.05659	83.71882	7.98	1297	nil	488	135	BDL	BDL	30	430	108	38	86	6.6	29	nd
236	Maharajganj	Maharajganj	Block H.Q	27.14299	83.55867	7.74	731	nil	366	43	0.32	BDL	17	320	80	29	24	6.8	30	nd
237	Maharajganj	Mithaura	Block H.Q	27.22539	83.66353	8.07	350	nil	146	14	0.21	BDL	31	160	48	10	4.0	3.2	24	nd
238	Maharajganj	Pharenda	Block H.Q	27.09620	83.31020	8.14	612	nil	317	21	0.55	BDL	5.0	260	56	29	17	3.7	24	nd
239	Mahoba	Kabrai	Block H.Q	25.298552°	79.89442°	7.64	1460	nil	342	199	0.60	89	78	560	140	50	81	BDL	47	nd
240	Mahoba	Jaitpur	Block H.Q	25.255356°	79.565872°	7.28	1887	nil	488	248	0.99	69	91	550	136	50	173	BDL	38	nd

Post monsoon (Basic)Chemical data 2023-24 CGWB, NR , LUCKNOW																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
241	Mahoba	Panwari	Block H.Q	25.426372°	79.465452°	8.25	910	nil	415	50	0.80	7	31	340	64	43	51	BDL	31	nd
242	Mahoba	Charkhari	Block H.Q	25.392567°	79.747925°	8.06	2396	nil	476	489	1.25	BDL	74	740	128	101	206	BDL	21	nd
243	Mainpuri	Jageer	Block H.Q	27.17030	79.10703	8.04	492	nil	281	7.1	1.00	BDL	28	230	40	31	17	3.1	32	nd
244	Mainpuri	Kishni	Block H.Q	27.03170	79.26637	8.17	2576	nil	683	185	1.77	14	527	300	36	50	500	5.9	34	nd
245	Mainpuri	Karhal	Block H.Q	26.99646	78.94073	7.96	959	nil	378	50	1.74	31	69	320	44	50	64	5.5	27	nd
246	Mathura	BALDEO	Block HQ	27.41192	77.82017	8.31	2349	18	659	213	3.70	49	238	320	36	55	385	8.9	22	nd
247	Mathura	CHAUMUHAN	Block HQ	27.62046	77.57940	7.78	5087	nil	549	886	0.66	381	467	1320	224	182	536	5.6	29	nd
248	Mathura	CHHATA	Block HQ	27.71440	77.50632	8.14	9054	nil	939	1184	2.90	65	1899	1170	100	221	1518	5.9	25	nd
249	Mathura	MANT	Block HQ	27.63086	77.71633	7.92	3330	nil	842	362	0.68	23	366	540	104	67	465	39.8	28	nd
250	Mathura	NANDGAON	Block HQ	27.71650	77.38480	7.98	36920	nil	159	9536	2.65	23	3200	4910	540	854	3911	2748	5	nd
251	Mathura	NOHJHIL	Block HQ	27.84649	77.65005	8.25	8879	nil	1147	915	1.17	807	1064	1660	160	302	756	535	24	nd

Post monsoon (Basic)Chemical data 2023-24 CGWB, NR , LUCKNOW																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
252	Mathura	RAYA	Block HQ	27.54950	77.78480	8.03	5198	nil	805	936	1.56	38	371	910	56	185	681	7.3	24	nd
253	Mathura	Farah	Block HQ	27.32443	77.75857	7.92	9761	nil	744	2418	0.75	36	511	2640	392	398	892	3.7	27	nd
254	Mathura	Mathura	Block HQ	27.47158	77.69429	7.93	2496	nil	695	326	0.30	44	147	600	112	77	283	1.6	34	nd
255	Mathura	Govardhan	Block HQ	27.49198	77.47517	8.08	4344	nil	756	681	2.90	37	413	820	60	161	563	3.1	27	nd
256	Maunath Bhanjan	Badraon	Block H.Q.	26.16703	83.46014	7.71	960	nil	494	53	0.52	47	8.1	430	88	50	40	2.5	28	nd
257	Maunath Bhanjan	Dohari Ghat	Block H.Q.	26.26521	83.51091	7.84	601	nil	342	28	0.40	BDL	11	270	60	29	22	4.2	28	nd
258	Meerut	Hastinapur	In Block office	29.15734	77.99882	7.92	996	nil	342	64	0.24	19	50	370	92	34	44	9.1	22	nd
259	Meerut	Kharkhoda	In Block office	28.83104	77.74662	7.98	1612	nil	586	145	1.28	50	56	560	104	72	110	7.9	25	nd
260	Meerut	Meerut	In Block office	28.95943	77.68291	7.74	794	nil	378	35	0.40	BDL	31	270	64	26	59	7.8	30	nd
261	Meerut	Parichhat Garh	In Block office	28.97823	77.92097	7.87	589	nil	281	7.0	0.25	BDL	43	260	68	22	12	6.0	23	nd
262	Meerut	Sardhana	In Block office	29.14356	77.60774	7.94	1599	nil	354	156	0.62	225	80	600	100	84	84	9.8	25	nd

Post monsoon (Basic)Chemical data 2023-24 CGWB, NR , LUCKNOW																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
263	Mirzapur	Chhanbey	Block H.Q.	25.12722	82.39389	8.12	1380	nil	610	64	0.38	16	64	210	28	34	215	1.2	39	nd
264	Mirzapur	Halia	Block H.Q.	24.82056	82.33500	7.79	592	nil	287	21	0.52	BDL	14	240	40	34	26	1.9	26	nd
265	Mirzapur	Jamalpur	Block H.Q.	25.15833	83.08750	7.76	827	nil	366	57	0.33	BDL	26	340	52	50	29	3.2	24	nd
266	Mirzapur	Nagar Mirzapur	Block H.Q.	25.12000	82.55611	8.25	1002	nil	488	43	1.30	47	26	320	28	60	83	1.9	53	nd
267	Mirzapur	Narayanpur	Block H.Q.	25.20000	83.02083	8.22	1933	nil	695	170	1.25	95	110	550	28	115	168	27.5	33	nd
268	Mirzapur	Pahari	Block H.Q.	25.20000	83.02083	7.65	1056	nil	311	163	0.30	19	5.3	440	80	58	43	1.6	34	nd
269	Mirzapur	Rajgarh	Block H.Q.	24.87611	82.83694	7.66	396	nil	140	36	0.16	BDL	14	140	28	17	22	3.6	52	nd
270	Mirzapur	Kon	Block H.Q.	25.17056	82.55111	7.62	647	nil	287	14	0.16	88	BDL	250	36	38	27	3.5	26	nd
271	Moradabad	Bilari	Block Office	28.609861	78.79769	8.17	464	nil	256	14	0.40	BDL	BDL	210	44	24	7.8	3.8	28	nd
272	Moradabad	Bhagatpur Tanda	Block Office	28.95141	78.82683	7.91	410	nil	232	7.1	0.23	BDL	BDL	160	52	7	19	1.7	24	nd
273	Moradabad	Chhajlet	Block Office	28.977612	78.63385	7.97	549	nil	305	14	BDL	BDL	5.1	230	72	12	17	3.3	28	nd

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
274	Moradabad	Deengarpur	Block Office	28.68661	78.78786	7.96	819	nil	317	71	BDL	BDL	49	310	72	31	39	11.2	11	nd
275	Moradabad	Moondha Pandey	Block Office	28.82314	78.87967	7.98	444	nil	244	14	0.10	BDL	BDL	180	28	26	17	2.8	24	nd
276	Muzaffarnagar	Budhana	In block office	29.28866	77.47037	8.11	996	nil	317	113	0.81	44	25	370	88	36	54	6.5	26	nd
277	Muzaffarnagar	Charthawal	In block office	29.54593	77.58590	8.22	440	nil	220	7.0	0.90	BDL	16	190	40	22	13	4.1	20	nd
278	Muzaffarnagar	Purkaji	In block office	29.64902	77.83397	7.85	454	nil	220	7.0	0.36	BDL	26	210	48	22	6	2.4	20	nd
279	Pilibhit	Puranpur	Block H.Q	28.50852	80.15064	8.18	484	Nil	232	35	0.27	BDL	26	200	44	22	29	4.0	20	nd
280	Pilibhit	Barkhera	Block H.Q	28.45512	79.80675	8.13	571	Nil	329	14	BDL	BDL	12	220	48	24	34	5.0	17	nd
281	Pratapgarh	Baba Belkhar Nath	Block H.Q	25.90720	82.09990	8.28	1500	nil	708	50	1.36	BDL	96	160	32	19	290	4.9	21	nd
282	Pratapgarh	Gaura	Block H.Q	25.74441	82.10532	7.87	896	nil	427	21	0.89	BDL	58	380	52	60	41	5.8	31	nd
283	Pratapgarh	Kalakankar	Block H.Q	25.80170	81.36920	8.0	841	nil	476	14	0.52	12	29	370	60	53	42	3.6	27	nd
284	Pratapgarh	Mandhata	Block H.Q	25.80160	81.85710	8.07	722	nil	403	14	0.77	BDL	27	290	44	43	48	3.5	26	nd

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
285	Pratapgarh	Patti	Block H.Q	25.92240	82.19830	7.99	588	nil	354	14	0.45	BDL	5.0	240	56	24	36	6.4	26	nd
286	Pratapgarh	Sadar	Block H.Q	25.90780	81.98000	8.0	1043	nil	634	43	0.88	BDL	46	460	36	89	80	11.5	17	nd
287	Pratapgarh	Sandwa Chandrika	Block H.Q	26.03770	81.88380	7.96	991	nil	537	21	0.80	23	30	410	40	74	53	7.1	29	nd
288	Pratapgarh	Sangipur	Block H.Q	26.05540	81.65450	8.2	1982	nil	842	35	0.60	BDL	270	200	28	31	400	7.2	20	nd
289	Pratapgarh	Babaganj	Jilla Panchayat Office	25.79917	81.58222	8.21	797	nil	378	35	0.77	10	40	250	32	41	80	6.2	22	nd
290	Pratapgarh	Lakshmanpur	Block H.Q	25.89581	81.75892	8.03	876	nil	514	21	0.97	BDL	6.0	330	36	58	63	6.1	25	nd
291	Pratapgarh	Rampur-Sangramgarh	Block H.Q	25.88870	81.55390	8.44	1192	30	500	28	0.88	BDL	48	70	16	7.0	250	2.7	15	nd
292	Prayagraj	Manda	Block H.Q	25.09920	82.26020	7.47	1092	nil	329	135	0.29	44	56	470	92	58	50	2.2	27	nd
293	Prayagraj	Meja	Block H.Q	25.14390	82.10170	7.46	983	nil	317	113	0.37	34	30	290	64	31	95	BDL	22	nd
294	Prayagraj	Phoolpur	Block H.Q	26.15940	81.52190	8.13	968	nil	488	50	0.93	BDL	20	330	52	48	76	4.3	24	nd
295	Prayagraj	Saidabad	Block H.Q	26.15952	81.52078	8.07	878	nil	500	14	0.99	BDL	10	230	36	34	104	3.6	23	nd

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S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
296	Prayagraj	Pratappur	Block H.Q	29.20000	78.86220	8.11	1238	nil	647	35	0.49	9.0	40	400	68	55	108	7.6	31	nd
297	Raebareli	Amawan	Block H.Q	26.28287	81.30803	7.99	827	Nil	439	21	0.63	BDL	9.1	350	56	50	24	6.0	30	nd
298	Raebareli	Lalganj	Block H.Q	26.168136	80.97926	7.9	1642	Nil	610	142	1.41	22	60	510	68	82	120	7.0	27	nd
299	Raebareli	Maharajganj	Block H.Q	26.384758	81.27438	7.87	1099	Nil	500	36	0.55	BDL	65	370	64	50	77	5.3	32	nd
300	Raebareli	Unchahar	Block H.Q	25.898847	81.29802	7.75	812	Nil	451	14	0.43	BDL	BDL	300	68	31	46	4.9	31	nd
301	Rampur	Milak	CHC, Milak	28.61294	79.16812	7.7	1221	nil	537	78	0.16	BDL	56	420	72	58	81	10.9	21	nd
302	Rampur	Shahbad	Block Office	28.56316	79.01111	7.94	1944	nil	342	269	BDL	112	152	520	132	46	189	10.3	23	nd
303	Rampur	Swar	Block Office	29.0328	79.05935	8.18	644	nil	293	14	BDL	BDL	44	290	48	41	8	2.0	25	nd
304	Saharanpur	Deoband	In block office	29.68708	77.68307	8.03	937	nil	329	92	0.61	BDL	48	360	92	31	45	8.9	26	nd
305	Saharanpur	Gangoh	In block office	29.78406	77.26013	8.25	868	nil	354	50	0.60	32	34	370	44	62	24	6.5	28	nd
306	Saharanpur	Nagal	In block office	29.84271	77.62907	7.86	673	nil	366	21	0.35	BDL	6	280	96	10	26	5.4	25	nd

Post monsoon (Basic)Chemical data 2023-24 CGWB, NR , LUCKNOW																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
307	Saharanpur	Nakur	In block office	29.91390	77.30273	7.92	1094	nil	378	71	0.19	50	68	350	56	50	82	7.7	22	nd
308	Saharanpur	Rampur	In block office	29.81354	77.45332	7.67	784	nil	378	14	0.60	BDL	46	270	60	29	150	6.5	27	nd
309	Saharanpur	Sadauli Qudim	In block office	30.20104	77.57729	7.84	684	nil	366	14	0.24	12	10	300	72	29	21	1.8	21	nd
310	Saharanpur	Sarsawa	In block office	30.01166	77.39926	7.94	910	nil	427	42	0.18	BDL	21	350	56	50	43	6.6	26	nd
311	Sambhal	Baniakhera	Block Office	28.46179	78.78312	8	949	nil	305	71	0.25	65	47	310	68	34	62	5.2	27	nd
312	Sambhal	Panwasa	Block Office	28.4835	78.57948	8.18	373	nil	195	14	0.45	BDL	BDL	170	44	14	5.1	3.3	26	nd
313	Sambhal	Gunnaur	Block Office	28.23461	78.44272	7.96	1512	nil	488	92	BDL	65	152	460	56	77	100	46.2	29	nd
314	Sant Kabir Nagar	Baghauli	Block H.Q	26.87640	83.08525	8.11	544	nil	293	14	0.31	BDL	8.7	240	48	29	13	2.6	28	nd
315	Sant Kabir Nagar	Khalilabad	Block H.Q	26.75960	83.08360	7.94	727	nil	378	28	0.46	BDL	5.0	320	48	48	16	4.1	36	nd
316	Sant Kabir Nagar	Nath Nagar	Block H.Q	26.66120	83.03830	8.18	830	nil	488	14	0.25	BDL	5.0	210	40	26	93	4.7	27	nd
317	Sant Kabir Nagar	Pauli	Block H.Q	26.58580	82.90190	8.05	592	nil	329	14	BDL	BDL	5.1	280	56	34	6	5.2	29	nd

Post monsoon (Basic)Chemical data 2023-24 CGWB, NR , LUCKNOW																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
318	Sant Kabir Nagar	Santha	Block H.Q	26.99843	83.04270	8.19	474	nil	244	14	BDL	BDL	16	230	48	26	4	4.6	19	nd
319	Shahjahanpur	Dadraul	Block H.Q	27.83672	79.87013	8.19	657	Nil	390	7	0.28	BDL	28	160	48	10	90	4.0	23	nd
320	Shahjahanpur	Jaitipur	Block H.Q	27.99392	79.57051	8.35	394	48	134	14	BDL	BDL	5.0	115	40	3.6	44	3.9	18	nd
321	Shahjahanpur	Mirzapur	Block H.Q	27.67052	79.54801	8.36	1098	72	488	14	0.70	BDL	15	190	32	26	175	4.9	29	nd
322	Shahjahanpur	Nigohi	Block H.Q	28.10293	79.86527	8.13	753	Nil	366	50	0.46	22	11	310	72	31	23	35.0	40	nd
323	Shahjahanpur	Sindhauli	Block H.Q	27.97037	79.97421	7.96	1331	Nil	854	21	0.42	BDL	5	470	64	74	120	3.9	28	nd
324	Shahjahanpur	Jalalabad	Block H.Q	27.72222	79.66490	8.12	445	Nil	183	7	BDL	BDL	5	160	60	2	27	4.1	51	nd
325	Shahjahanpur	Kalan	Block H.Q	27.70331	79.44550	7.83	791	Nil	293	64	BDL	BDL	68	210	68	10	84	5.0	24	nd
326	Shahjahanpur	Khutar	Block H.Q	28.20825	80.26980	8.02	566	Nil	329	14	BDL	BDL	15	210	48	22	41	7.1	25	nd
327	Shamli	Kairana	In block office	29.39971	77.21693	8.24	944	nil	415	35	0.60	BDL	27	270	52	34	78	6.0	28	nd
328	Shamli	Kandhala	In block office	29.32300	77.26654	7.91	3533	nil	598	333	0.20	360	460	1110	264	108	265	50.0	31	nd

Post monsoon (Basic)Chemical data 2023-24 CGWB, NR , LUCKNOW																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
329	Shamli	Thana Bhawan	In block office	29.59136	77.42609	7.85	502	nil	281	7	0.48	BDL	5	200	40	24	22	4.2	25	nd
330	Shravasti	Hariharpur Rani	Block H.Q	27.74000	81.83222	7.84	780	nil	445	14	0.38	BDL	BDL	320	72	34	40	2.1	25	nd
331	Shravasti	Ikauna	Block H.Q	27.52564	81.96968	7.78	1518	nil	647	114	0.28	BDL	46	490	128	41	115	5.6	31	nd
332	Siddharthnagar	Barhni	Block H.Q	27.48917	82.77694	7.85	790	nil	451	14	0.65	BDL	BDL	280	68	26	53	BDL	19	nd
333	Siddharthnagar	Bansi	Block H.Q	27.17167	82.92917	8.02	1088	nil	488	71	0.27	BDL	21	440	104	43	41	3.4	35	nd
334	Siddharthnagar	Birdpur	300 m from Block campus, near house of Sh. Shobh Nath	27.36617	83.10131	7.84	1020	nil	415	71	0.46	BDL	47	370	88	36	61	2.2	28	nd
335	Siddharthnagar	Jogiya	Opposite side of Block Office	27.25303	83.00817	7.76	1094	nil	488	71	0.69	BDL	26	430	76	58	31	2.0	35	nd
336	Sitapur	Biswan	Block H.Q.	27.48430	80.99154	7.69	658	nil	403	14	0.81	BDL	BDL	320	88	24	14	2.8	34	nd
337	Sitapur	Sitapur	Block H.Q.	27.57357	80.67948	7.58	890	nil	512	25	0.74	BDL	17	280	76	22	76	4.8	27	nd
338	Sitapur	Pisawan	Block H.Q.	27.58860	80.40257	7.91	674	nil	366	21	0.72	BDL	15	315	68	35	22	4.8	28	nd
339	Sonbhadra	Anpara	Block H.Q.	24.20498	82.79668	8.16	1076	nil	348	75	1.02	6.0	105	400	56	62	61	1.9	41	nd

Post monsoon (Basic)Chemical data 2023-24 CGWB, NR , LUCKNOW																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
340	Sonbhadra	Babhani	Block H.Q.	23.95028	83.07694	7.76	855	nil	281	64	1.25	38	85	250	40	36	76	4.8	53	nd
341	Sonbhadra	Asandih	Block H.Q.	23.90080	83.15017	7.78	563	nil	183	46	0.41	BDL	40	160	40	14	49	4.0	40	nd
342	Sonbhadra	Chopan	Block H.Q.	24.51333	83.02306	8.08	601	nil	256	57	0.41	13	BDL	160	20	26	64	1.7	16	nd
343	Sonbhadra	Ghorawal	Block H.Q.	24.74941	82.84436	7.78	650	nil	293	21	0.50	16	27	240	40	34	37	1.3	23	nd
344	Sonbhadra	Renukoot	Block H.Q.	24.21955	83.03550	7.9	912	nil	214	107	0.28	5.8	94	280	44	41	78	1.7	28	nd
345	Sonbhadra	Robertsganj	Block H.Q.	24.65639	83.05861	8.04	1108	nil	464	92	0.44	BDL	37	320	36	55	105	1.8	47	nd
346	Sultanpur	Dubeypur	Block H.Q	26.238802	82.03613	7.84	791	Nil	439	7.1	0.79	5.0	15	340	64	43	21	3.9	28	nd
347	Sultanpur	P.P. Kannaicha	Block H.Q	26.070656	82.30442	7.88	632	Nil	342	7.1	0.40	BDL	BDL	260	52	31	17	2.9	32	nd
348	Unnao	Asoha	Block H.Q.	26.58735	80.82995	7.46	4148	nil	500	596	0.77	BDL	799	960	184	120	478	28.6	29	nd
349	Unnao	Nawabganj	Block H.Q.	26.62105	80.67590	7.24	2223	nil	634	163	1.28	BDL	347	515	100	64	244	7.1	25	nd
350	Unnao	Safipur	Block H.Q.	26.63280	80.31970	7.54	1245	nil	317	149	1.25	115	34	495	128	42	30	5.6	28	nd

Post monsoon (Basic)Chemical data 2023-24 CGWB, NR , LUCKNOW																				
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**pH**	**EC µS/cm at 25° C**	**CO3**	**HCO3**	**Cl**	**F**	**NO3**	**SO4**	**TH**	**Ca**	**Mg**	**Na**	**K**	**SiO2**	**PO4**
351	Varanasi	Baragaon	Block H.Q.	25.42972	82.80611	8.2	1009	nil	451	64	0.81	BDL	62	360	20	74	60	7.5	25	nd
352	Varanasi	Cholapur	Block H.Q.	24.49667	82.99722	8.21	932	nil	488	21	0.53	5.7	27	380	20	79	25	3.8	24	nd
353	Varanasi	Harhua	Block H.Q.	25.39972	82.97000	8.27	643	nil	311	14	0.43	75	BDL	255	32	42	29	3.3	29	nd
354	Varanasi	Kashi Vidya Peeth	Block H.Q.	25.30639	82.96278	8.11	1522	nil	622	92	0.96	11	64	530	24	113	80	32.7	31	nd
355	Varanasi	Sewapuri	Block H.Q.	25.36611	82.74806	8.12	786	nil	415	14	0.76	BDL	5.1	280	20	55	46	6.6	38	nd

Post monsoon (Heavy Metals) Chemical data 2023-24 CGWB, NR , LUCKNOW													
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**Cr (mg/l)**	**Fe (mg/l)**	**Mn (mg/l)**	**Cu (mg/l)**	**Zn (mg/l)**	**As (mg/l)**	**Pb (mg/l)**	**U (mg/l)**
1	Agra	Achhnera	Block H.Q	27.17744	77.74618	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.027
2	Agra	Agra	City (Sai ki Takia Crossing)	27.17066	78.00954	0.005	BDL	BDL	BDL	0.321	BDL	BDL	0.014
3	Agra	Bah	Block H.Q	26.86968	78.58929	0.007	BDL	BDL	BDL	BDL	0.001	0.001	0.013
4	Agra	Barauli Ahir	Block H.Q	27.12062	78.06014	BDL	BDL	BDL	BDL	0.680	BDL	0.003	0.012
5	Agra	Bichpuri	Block H.Q	27.17265	77.89188	BDL	BDL	BDL	BDL	BDL	0.001	BDL	0.040
6	Agra	Fatehabad	Block H.Q	27.02974	78.29618	BDL	BDL	BDL	BDL	BDL	BDL	0.001	0.018
7	Agra	Fatehpur Sikri	Block H.Q	27.09424	77.66783	BDL	0.559	0.063	BDL	0.080	BDL	BDL	0.007
8	Agra	Jagner	Block H.Q	26.86657	77.60168	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.028
9	Agra	Jaitpur Kalan	Block H.Q	26.82826	78.70477	0.002	BDL	BDL	BDL	BDL	0.001	0.001	0.008
10	Agra	Khandauli	Block H.Q	27.31646	78.02961	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.050
11	Agra	Kheragarh	Block H.Q	26.95524	77.82219	0.002	BDL	BDL	BDL	BDL	BDL	BDL	0.020
12	Agra	Saiyan	Block H.Q	26.93603	77.93505	0.002	BDL	BDL	BDL	BDL	BDL	0.001	0.008
13	Agra	Shamsabad	SBI near Block Office	27.01357	78.12330	0.001	BDL	BDL	BDL	BDL	BDL	0.001	0.013
14	Agra	Akola	Block H.Q	27.07150	77.89188	BDL	0.103	BDL	BDL	0.084	BDL	0.001	0.018
15	Aligarh	AKRABAD	Block H.Q.	27.80500	78.27120	BDL	0.483	0.115	BDL	0.129	BDL	0.001	0.020
16	Aligarh	ALIGARH	District H.Q.	27.89692	78.07171	BDL	0.360	BDL	BDL	0.416	BDL	0.001	0.039
17	Aligarh	ATRAULI	Block H.Q.	28.04173	78.28127	BDL	0.329	0.098	BDL	0.561	BDL	BDL	0.029

Post monsoon (Heavy Metals) Chemical data 2023-24 CGWB, NR , LUCKNOW													
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18	Aligarh	GONDA	Block H.Q.	27.83670	77.87960	BDL	3.015	0.220	BDL	1.089	BDL	BDL	0.028
19	Aligarh	IGLAS	Block H.Q.	27.70622	77.93904	BDL	0.130	BDL	BDL	2.734	BDL	BDL	0.009
20	Aligarh	KHAIR	Block H.Q.	27.94350	77.83640	BDL	0.307	0.214	BDL	0.763	BDL	BDL	0.084
21	Aligarh	TAPPAL	Block H.Q.	28.04280	77.57917	BDL	0.238	0.282	BDL	0.102	BDL	BDL	0.027
22	Aligarh	Bijauli	Block H.Q.	27.97872	78.40003	BDL	BDL	0.227	BDL	0.143	BDL	0.001	0.032
23	Aligarh	Dhanipur	Block H.Q.	27.87206	78.10761	BDL	0.776	BDL	BDL	BDL	BDL	BDL	0.004
24	Amethi	Bahadupur	Block H.Q	26.26678	81.518178	BDL	0.602	BDL	BDL	0.142	BDL	0.001	0.012
25	Amethi	Tiloee	Block H.Q	26.392795	81.47084	BDL	2.210	0.124	BDL	BDL	0.001	0.001	BDL
26	Amethi	Amethi	P.W.D. Dak Bangla	26.156183	81.808595	BDL	BDL	0.144	0.023	0.484	BDL	BDL	0.046
27	Amethi	Bhetya	Block H.Q	26.21066	81.875181	BDL	0.246	BDL	BDL	0.102	BDL	BDL	0.015
28	Amethi	Jagdishpur	Block H.Q	26.45599	81.628825	BDL	0.353	0.249	BDL	0.522	BDL	BDL	0.012
29	Amethi	Musafir Khana	Block H.Q	26.377752	81.800471	BDL	0.178	0.109	BDL	0.483	BDL	BDL	0.034
30	Amroha	Amroha	Block Office	28.90419	78.48593	BDL	0.129	BDL	BDL	1.371	BDL	0.001	0.005
31	Amroha	Hasanpur	Block Office	28.731746	78.281301	BDL	0.694	0.676	BDL	0.192	BDL	0.001	0.004
32	Amroha	Joya	Block Office	28.83557	78.47319	BDL	0.167	0.511	BDL	0.248	BDL	0.002	0.046
33	Auraiya	Achalda	Block H.Q	26.69954	79.40270	BDL	0.129	0.103	BDL	BDL	BDL	0.001	0.028
34	Auraiya	Auraiya	Block H.Q	26.46610	79.50392	0.003	BDL	BDL	BDL	0.103	BDL	0.003	0.016
35	Auraiya	Sahar	Block H.Q	26.758	79.600	BD	0.08	BD	BD	1.08	0.0	0.0	0.0

Post monsoon (Heavy Metals) Chemical data 2023-24 CGWB, NR , LUCKNOW													
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				47	17	L	6	L	L	1	01	02	35
36	Auraiya	Bidhuna	Block H.Q	26.80250	79.50242	BDL	0.177	BDL	BDL	0.855	BDL	0.002	0.048
37	Ayodhya	Maya Bazar	Block H.Q	26.64514	82.33258	BDL	1.674	0.109	BDL	0.107	0.005	BDL	BDL
38	Azamgarh	Ahiraula	Block H.Q.	26.17514	82.89244	BDL	0.287	BDL	BDL	0.444	BDL	0.002	0.017
39	Azamgarh	Thekma	Block H.Q.	25.86340	82.92628	BDL	0.161	BDL	BDL	0.336	BDL	0.002	0.008
40	Azamgarh	Palhana	Block H.Q.	25.78446	83.09023	BDL	BDL	BDL	BDL	BDL	0.024	0.002	0.051
41	Azamgarh	Maharajganj	Block H.Q.	25.26076	83.11155	BDL	0.199	BDL	BDL	0.075	BDL	0.004	BDL
42	Azamgarh	Mohammadpur	Block H.Q.	25.96242	83.02766	BDL	1.715	0.055	BDL	BDL	BDL	0.001	BDL
43	Baghpat	BAGHPAT	In block office	28.94399	77.22007	BDL	0.879	0.350	BDL	0.113	BDL	BDL	0.011
44	Baghpat	BARAUT	In block office	29.10699	77.26438	BDL	0.132	BDL	BDL	0.198	BDL	BDL	0.021
45	Baghpat	CHAPRAULI	In block office	29.20812	77.17869	BDL	4.778	0.338	BDL	2.741	BDL	BDL	0.030
46	Baghpat	KHEKRA	In block office	28.86913	77.28847	BDL	0.228	0.072	BDL	0.873	BDL	BDL	0.019
47	Baghpat	PILANA	In block office	28.93623	77.37222	BDL	BDL	0.065	BDL	2.116	BDL	0.001	0.023
48	Bahraich	Tejawapur	Block H.Q	27.53139	81.49583	BDL	10.657	0.223	BDL	0.156	0.041	0.001	BDL
49	Bahraich	Huzurpur	Block H.Q	27.35376	81.66348	BDL	1.201	0.051	BDL	0.058	0.129	0.001	BDL
50	Bahraich	Mahasi	Block H.Q	27.63972	81.38750	BDL	11.475	0.447	BDL	BDL	0.034	0.001	BDL
51	Bahraich	Shivpur	Block H.Q	27.81083	81.39333	BDL	2.772	0.121	BDL	BDL	0.037	0.002	BDL
52	Bahraich	Fakharpur	Block H.Q	27.41944	81.52639	BDL	9.651	0.518	BDL	0.899	0.009	0.003	BDL

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53	Bahraich	Mihipurwa	Block H.Q	28.02556	81.38361	BDL	6.299	0.165	BDL	0.298	0.014	0.002	BDL
54	Ballia	Bansdeeh	Block H.Q.	25.87439	84.21642	BDL	1.124	0.340	BDL	1.426	BDL	0.003	0.008
55	Ballia	Belhari	Block H.Q.	25.77881	84.30445	BDL	17.694	0.486	BDL	1.479	0.019	0.002	BDL
56	Ballia	Chilkahar	Block H.Q.	25.82529	83.96436	BDL	0.153	0.066	BDL	3.527	BDL	0.006	0.016
57	Ballia	Murali Chhapara	Block H.Q.	25.72846	84.50528	BDL	1.321	1.400	BDL	3.102	0.038	0.002	BDL
58	Ballia	Rasara	Block H.Q.	25.86830	83.86164	BDL	6.950	0.103	BDL	1.235	BDL	0.003	0.007
59	Ballia	Bairya	Block H.Q.	25.79578	84.47864	BDL	4.154	0.118	BDL	BDL	0.018	0.009	BDL
60	Ballia	Dubahar	Block H.Q.	25.77011	84.17503	BDL	2.289	0.070	BDL	0.068	0.035	0.003	BDL
61	Ballia	Reoti	Block H.Q.	25.84180	84.37180	BDL	0.948	0.071	BDL	0.488	0.023	0.002	BDL
62	Ballia	Sohaon	Block H.Q.	25.62909	84.00429	BDL	2.586	0.095	BDL	0.159	0.037	0.002	BDL
63	Balrampur	Balrampur	Block H.Q	27.42861	82.17111	BDL	1.020	0.152	BDL	0.160	0.017	0.002	BDL
64	Balrampur	Gaidas Buzurg	Block H.Q	27.26413	82.42056	BDL	1.129	0.063	BDL	0.352	0.008	0.001	BDL
65	Balrampur	Gainsari	Near Railway Station Gainsari, Not from Block HQ	27.52717	82.54719	BDL	0.068	0.814	BDL	BDL	BDL	BDL	0.026
66	Balrampur	Rehra Bazar	Adjacent to Block HQ. South side of Kali Mandir	27.18139	82.27816	BDL	1.226	0.307	BDL	BDL	0.002	BDL	0.033
67	Balrampur	Harraiya Satgharwa	Block H.Q	27.63611	82.17444	BDL	4.953	0.166	BDL	BDL	BDL	0.002	0.004
68	Balrampur	Tulsipur	Block H.Q	27.51168	82.29617	BDL	7.889	0.333	BDL	1.115	0.014	0.001	BDL
69	Balrampur	Utraula	Block H.Q	27.32139	82.40750	BDL	0.076	0.184	BDL	1.662	BDL	0.007	BDL
70	Banda	Naraini	Block H.Q	25.184	80.471	BD	0.08	BD	BD	0.05	BD	0.0	0.0

Post monsoon (Heavy Metals) Chemical data 2023-24 CGWB, NR , LUCKNOW													
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**Cr (mg/l)**	**Fe (mg/l)**	**Mn (mg/l)**	**Cu (mg/l)**	**Zn (mg/l)**	**As (mg/l)**	**Pb (mg/l)**	**U (mg/l)**
				82°	655°	L	7	L	L	6	L	02	08
71	Banda	Badokhar Khurd	Block H.Q	25.451466°	80.35328°	BDL	BDL	BDL	BDL	0.847	BDL	0.002	0.009
72	Banda	Baberu	Block H.Q	25.538277°	80.696009°	BDL	0.050	0.099	BDL	0.592	BDL	0.002	BDL
73	Banda	Badokhar Khurd	District H.Q	25.481093°	80.330861°	BDL	0.117	BDL	BDL	BDL	BDL	BDL	0.010
74	Barabanki	Puredalal	Block H.Q.	26.86860	81.71030	0.001	BDL	BDL	BDL	BDL	BDL	BDL	BDL
75	Barabanki	Ramnagar	Block H.Q.	27.08520	81.40530	BDL	1.023	0.135	BDL	BDL	0.003	0.002	BDL
76	Bareilly	Majhgawa	Block H.Q	28.31174	79.27350	BDL	0.561	0.115	BDL	BDL	0.002	BDL	0.005
77	Bareilly	Ram Nagar	Block H.Q	28.36955	79.12004	BDL	0.060	BDL	BDL	0.153	0.003	0.002	BDL
78	Bareilly	Faridpur	Block H.Q	28.20066	79.53943	BDL	1.736	0.134	BDL	0.937	BDL	BDL	0.004
79	Bareilly	Shergarh	Block H.Q	28.65410	79.36506	BDL	1.063	0.201	BDL	0.778	0.001	0.003	0.009
80	Basti	Gaur	Block H.Q	26.90764	82.57372	BDL	0.118	0.050	BDL	0.473	0.002	BDL	BDL
81	Basti	Paras Rampur	Block H.Q	26.90552	82.34041	BDL	1.950	0.263	BDL	0.647	0.008	0.002	BDL
82	Basti	Saughat	Block H.Q	26.83618	82.76773	BDL	BDL	BDL	BDL	1.731	BDL	0.003	0.014
83	Basti	Vikramjot	Block H.Q	26.77972	82.36611	BDL	1.161	BDL	BDL	0.870	0.002	0.001	BDL
84	Basti	Saltaua	Block H.Q	26.92996	82.71361	BDL	10.020	0.088	BDL	0.611	BDL	0.001	BDL
85	Bijnor	Jaleelpur	Block Office	29.14748	78.18623	BDL	7.158	0.065	BDL	BDL	BDL	BDL	BDL
86	Bijnor	Kiratpur	Block Office	29.499499	78.207782	BDL	13.060	0.366	BDL	BDL	0.010	BDL	0.003
87	Bijnor	Mohammadpur Deomal	Block Office	29.37647	78.13236	BDL	2.907	0.067	BDL	0.210	0.007	0.002	0.090

Post monsoon (Heavy Metals) Chemical data 2023-24 CGWB, NR , LUCKNOW													
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**Cr (mg/l)**	**Fe (mg/l)**	**Mn (mg/l)**	**Cu (mg/l)**	**Zn (mg/l)**	**As (mg/l)**	**Pb (mg/l)**	**U (mg/l)**
88	Bijnor	Noorpur	Block Office	29.151634	78.403093	BDL	0.734	0.456	BDL	0.096	0.036	0.001	BDL
89	Bijnor	Afzalgarh	Block Office	29.379398	78.731794	BDL	0.650	0.387	BDL	0.083	0.029	BDL	BDL
90	Bijnor	Aku (Nehtaur)	Block Office	29.32546	78.37433	BDL	1.887	0.308	BDL	BDL	0.009	0.003	BDL
91	Budaun	Ujhani	Block H.Q	28.00273	79.01435	BDL	0.571	0.104	BDL	2.246	BDL	0.001	0.005
92	Budaun	Quadar Chowk	Block H.Q	27.87128	79.08103	BDL	0.113	0.103	BDL	0.083	0.001	0.001	BDL
93	Budaun	Usawan	Block H.Q	27.81130	79.34828	BDL	0.166	0.142	BDL	0.082	BDL	0.001	0.003
94	Budaun	Asafpur	Block H.Q	28.39401	78.91132	BDL	6.167	0.099	BDL	BDL	0.003	BDL	0.007
95	Budaun	Salarpur	Block H.Q	28.07057	79.13302	BDL	2.251	0.244	BDL	0.458	0.002	0.002	0.013
96	Bulandshahr	BULANDSHAHAR	Block H.Q.	28.38860	77.83540	BDL	BDL	BDL	BDL	0.100	BDL	BDL	BDL
97	Bulandshahr	LAKHAOTI	Block H.Q.	28.52640	77.97740	BDL	0.249	0.067	BDL	0.147	BDL	BDL	0.012
98	Bulandshahr	SHIKARPUR	Block H.Q.	28.27910	78.00420	BDL	0.136	0.111	BDL	0.176	BDL	BDL	0.025
99	Bulandshahr	Jahangirabad	Block H.Q.	28.41397	78.08843	BDL	0.117	0.192	BDL	0.200	BDL	0.001	0.085
100	Bulandshahr	Danpur	Block H.Q.	28.19255	78.20604	BDL	0.538	BDL	BDL	0.239	BDL	BDL	0.036
101	Bulandshahr	UNCHAGAON	Block H.Q.	28.48790	78.16000	BDL	0.177	BDL	BDL	1.082	BDL	BDL	BDL
102	Chandauli	Chahniya	Block H.Q.	25.41778	83.20944	BDL	0.334	BDL	BDL	1.485	BDL	0.012	0.011
103	Chandauli	Sakaldiha	Block H.Q.	25.35528	83.25833	BDL	0.175	BDL	BDL	0.755	BDL	0.001	0.012
104	Chitrakoot	Mau	Block H.Q	25.269419°	81.371624°	BDL	0.070	BDL	BDL	0.056	BDL	0.004	0.010
105	Chitrakoot	Manikpur	Block H.Q	25.068	81.098	BD	BD	0.0	BD	0.81	BD	0.0	BD

Post monsoon (Heavy Metals) Chemical data 2023-24 CGWB, NR , LUCKNOW													
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**Cr (mg/l)**	**Fe (mg/l)**	**Mn (mg/l)**	**Cu (mg/l)**	**Zn (mg/l)**	**As (mg/l)**	**Pb (mg/l)**	**U (mg/l)**
				465°	523°	L	L	69	L	5	L	02	L
106	Chitrakoot	Karvi	Block H.Q	25.214761°	80.919702°	BDL	1.402	BDL	BDL	0.332	BDL	0.001	0.011
107	Chitrakoot	Pahari	Block H.Q	25.333062°	80.963863°	BDL	0.404	0.059	BDL	BDL	BDL	0.002	BDL
108	Deoria	Bankata	Block H.Q	26.27152	84.11324	BDL	0.559	BDL	BDL	BDL	BDL	BDL	BDL
109	Deoria	Tarkulwa	Block H.Q	26.62769	83.89101	BDL	1.521	BDL	BDL	BDL	BDL	0.001	BDL
110	Deoria	Bhaluwani	Opposite Block H.Q	26.37074	83.76155	BDL	3.714	0.058	BDL	0.179	0.001	0.001	0.032
111	Etah	Jalesar	Block H.Q	27.47980	78.30629	BDL	0.248	0.158	BDL	1.931	BDL	BDL	0.048
112	Etah	Sheetalpur	Block H.Q	27.56962	78.67305	BDL	0.327	BDL	BDL	0.294	BDL	0.001	0.016
113	Etawah	Barhpura	Block H.Q	26.71910	78.95715	0.028	BDL	BDL	BDL	BDL	BDL	0.002	0.008
114	Farrukhabad	Kamalganj	Block H.Q	27.26176	79.63240	BDL	0.348	0.629	BDL	0.098	BDL	0.001	0.006
115	Farrukhabad	Mohammdabad	Block H.Q	27.30744	79.43646	BDL	12.168	0.886	BDL	0.671	BDL	0.002	BDL
116	Farrukhabad	Rajepur	Block H.Q	27.48043	79.66195	BDL	0.077	BDL	BDL	BDL	0.003	0.001	0.041
117	Farrukhabad	Shamsabad	Block H.Q	27.53622	79.44050	BDL	1.045	0.317	BDL	0.091	BDL	0.001	0.013
118	Fatehpur	Amauli	Block H.Q	26.014233°	80.31044°	BDL	1.185	BDL	BDL	0.685	BDL	0.001	0.006
119	Fatehpur	Khajua	Block H.Q	26.05658	80.51694	BDL	0.248	BDL	BDL	0.605	BDL	0.002	0.016
120	Fatehpur	Malwan	Block H.Q	26.03640	80.70700	BDL	0.124	BDL	BDL	0.056	0.004	0.001	0.595
121	Fatehpur	Teliyani	Block H.Q	25.952118°	80.795862°	BDL	0.559	0.089	BDL	0.450	BDL	0.002	0.046
122	Fatehpur	Hathgaon	Block H.Q	25.86513	81.12705	BDL	0.697	0.051	BDL	0.449	BDL	0.002	0.021

Post monsoon (Heavy Metals) Chemical data 2023-24 CGWB, NR , LUCKNOW													
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**Cr (mg/l)**	**Fe (mg/l)**	**Mn (mg/l)**	**Cu (mg/l)**	**Zn (mg/l)**	**As (mg/l)**	**Pb (mg/l)**	**U (mg/l)**
123	Fatehpur	Asother	Block H.Q	25.75891°	80.886164°	BDL	2.235	BDL	BDL	0.104	BDL	0.002	0.009
124	Fatehpur	Bahua	Block H.Q	25.843611°	80.629875°	BDL	0.490	BDL	BDL	0.618	BDL	0.001	0.021
125	Fatehpur	Airayan	Block H.Q	25.769762°	81.102821°	BDL	1.855	0.176	BDL	3.469	BDL	0.002	0.042
126	Fatehpur	Vijayeepur	Block H.Q	25.691882°	81.058384°	0.002	BDL	BDL	BDL	BDL	0.002	0.001	0.011
127	Fatehpur	Dhata	Block H.Q	25.539295°	81.228763°	0.006	BDL	BDL	BDL	BDL	BDL	0.002	0.008
128	Firozabad	Aron	Block H.Q	27.15023	78.70482	BDL	BDL	BDL	BDL	BDL	0.002	0.001	0.017
129	Firozabad	Eka	Block H.Q	27.37907	78.60743	BDL	0.077	BDL	BDL	0.542	BDL	0.002	0.024
130	Firozabad	Firozabad	Block H.Q	27.16539	78.37906	BDL	BDL	BDL	BDL	BDL	BDL	0.002	0.010
131	Firozabad	Hathwant	Block H.Q	27.22911	78.50407	BDL	BDL	0.108	BDL	0.079	BDL	0.001	0.018
132	Firozabad	Madanpur	Block H.Q	27.02716	78.64436	BDL	0.620	BDL	BDL	0.183	BDL	0.001	0.017
133	Firozabad	Narkhi	Block H.Q	27.29036	78.40702	BDL	0.096	0.232	BDL	2.046	BDL	BDL	BDL
134	Firozabad	Tundla	Block H.Q	27.22545	78.24661	0.001	BDL	BDL	BDL	BDL	0.002	BDL	0.031
135	G.B. Nagar	BISRAKH	Block H.Q.	28.57148	77.43895	BDL	0.340	BDL	BDL	0.278	BDL	0.001	0.004
136	G.B. Nagar	JEWAR	Block H.Q	28.12416	77.56682	BDL	0.077	BDL	BDL	0.670	BDL	BDL	0.022
137	G.B. Nagar	Dadri	Block H.Q	28.55444	77.55360	BDL	0.106	0.092	BDL	0.128	BDL	0.001	0.040
138	G.B. Nagar	DANKAUR	Dist. H.Q	28.35330	77.55590	BDL	0.201	BDL	BDL	0.171	BDL	BDL	0.041
139	Ghaziabad	LONI	In block office	28.74674	77.28976	BDL	BDL	0.174	BDL	1.108	BDL	0.002	0.004
140	Ghaziabad	MURADNA	In block office	28.772	77.511	BD	4.29	0.4	BD	2.19	0.0	0.0	0.0

Post monsoon (Heavy Metals) Chemical data 2023-24 CGWB, NR , LUCKNOW													
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		GAR		84	28	L	1	02	L	6	02	05	71
141	Ghaziabad	RAZAPUR	In block office	28.71016	77.45626	BDL	0.080	0.106	BDL	0.546	BDL	0.001	0.032
142	Ghazipur	Deokali	Block H.Q.	25.55139	83.33802	BDL	4.126	0.081	BDL	0.822	BDL	0.002	0.022
143	Ghazipur	Jamania	Block H.Q.	25.41490	83.55890	BDL	2.035	0.107	BDL	1.708	BDL	0.002	0.027
144	Ghazipur	Jakhaniya	Block H.Q.	25.74263	83.37248	BDL	0.266	BDL	BDL	0.056	0.006	0.003	0.077
145	Ghazipur	Mardah	Block H.Q.	25.80020	83.56374	BDL	0.579	0.243	BDL	0.210	BDL	0.003	0.025
146	Ghazipur	Saidpur	Block H.Q.	25.54231	83.22726	BDL	2.677	0.080	BDL	0.810	BDL	0.003	0.022
147	Ghazipur	Ghazipur	Block H.Q.	25.56770	83.56025	BDL	0.295	BDL	BDL	0.274	BDL	0.006	0.078
148	Gonda	Colonelganj	Block H.Q	27.13389	81.69556	BDL	0.074	0.177	BDL	BDL	BDL	0.001	BDL
149	Gonda	Haldharmau HQ	Block H.Q	27.13900	81.76130	BDL	8.893	0.214	BDL	BDL	0.026	0.001	BDL
150	Gonda	Katra Bazar HQ	Block H.Q	27.20629	81.79379	BDL	14.219	0.543	BDL	0.421	0.115	0.001	BDL
151	Gonda	Padri Kripal HQ	Block H.Q	27.16278	81.96833	BDL	0.621	0.080	BDL	0.227	0.009	0.001	BDL
152	Gonda	Paraspur HQ	Block H.Q	27.03472	81.78639	BDL	2.644	0.124	BDL	0.070	0.017	BDL	BDL
153	Gonda	Tarabganj HQ	Block H.Q	26.95556	81.99000	BDL	0.067	0.144	BDL	BDL	BDL	0.001	0.003
154	Gonda	Jhanjhari	Block H.Q	27.11887	81.96722	BDL	0.897	0.169	BDL	0.065	0.003	0.001	BDL
155	Gorakhpur	Gagaha	Block H.Q	26.44930	83.43760	BDL	0.526	0.067	BDL	0.418	0.011	0.002	BDL
156	Gorakhpur	Kauriram	Block H.Q	26.51610	83.41520	BDL	1.516	0.230	BDL	0.917	0.008	0.001	BDL
157	Hamirpur	Muskara	Block H.Q	25.66112°	79.793648°	BDL	BDL	BDL	BDL	2.194	BDL	0.001	0.015

Post monsoon (Heavy Metals) Chemical data 2023-24 CGWB, NR , LUCKNOW													
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158	Hamirpur	Rath	Block H.Q	25.59875°	79.576894°	BDL	0.713	0.082	BDL	0.162	BDL	BDL	0.020
159	Hamirpur	Gohand	Block H.Q	25.695088°	79.54594°	BDL	0.126	BDL	BDL	0.189	BDL	0.001	0.008
160	Hamirpur	Sarila	Block H.Q	25.772784°	79.674748°	BDL	0.190	BDL	BDL	0.111	0.001	BDL	0.005
161	Hamirpur	Maudaha	Block H.Q	25.687558°	80.096145°	BDL	0.456	BDL	BDL	1.342	BDL	0.001	0.012
162	Hamirpur	Kurara	Block H.Q	25.978942°	79.984826°	BDL	0.099	BDL	BDL	0.152	BDL	BDL	BDL
163	Hapur	Dhaualana	In block office	28.63297	77.64412	BDL	0.531	0.104	BDL	0.442	BDL	0.001	0.055
164	Hapur	SIMBHOLI	In block office	28.76730	78.00006	BDL	0.489	BDL	BDL	0.091	BDL	0.003	0.008
165	Hardoi	Madhavganj	Block H.Q	27.11741	80.12575	BDL	0.078	BDL	BDL	0.070	BDL	0.001	0.009
166	Hardoi	Kachhauna	Block H.Q	27.16329	80.33552	BDL	6.789	0.452	BDL	2.579	0.002	0.002	BDL
167	Hardoi	Sandila	Block H.Q	27.05663	80.51737	BDL	0.323	BDL	BDL	0.320	BDL	BDL	0.009
168	Hardoi	Sandi	Block H.Q	28.58056	77.79056	BDL	0.141	0.278	BDL	0.066	BDL	0.001	0.046
169	Hardoi	Shahabad	Block H.Q	27.64863	79.94333	BDL	2.575	0.123	BDL	BDL	0.008	BDL	BDL
170	Hardoi	Tadiyawan	Block H.Q	27.43792	80.24056	BDL	6.133	0.165	BDL	0.187	0.016	0.002	BDL
171	Hardoi	Mallawan	Block H.Q	27.02580	80.15470	BDL	0.239	BDL	BDL	BDL	BDL	0.001	0.034
172	Hathras	HASSAIN	Block HQ	27.61202	78.26751	BDL	0.151	0.248	BDL	BDL	BDL	BDL	0.005
173	Hathras	HATHRAS	District H.Q.	27.57300	78.05510	BDL	0.155	BDL	BDL	0.231	BDL	BDL	0.045
174	Hathras	MURSAN	Block H.Q.	27.56827	77.94061	BDL	1.238	0.346	BDL	1.405	BDL	BDL	0.023
175	Hathras	SADABAD	Block H.Q.	27.446	78.040	BD	1.24	BD	BD	0.05	BD	BD	BD

Post monsoon (Heavy Metals) Chemical data 2023-24 CGWB, NR , LUCKNOW													
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**Cr (mg/l)**	**Fe (mg/l)**	**Mn (mg/l)**	**Cu (mg/l)**	**Zn (mg/l)**	**As (mg/l)**	**Pb (mg/l)**	**U (mg/l)**
				60	10	L	1	L	L	2	L	L	L
176	Hathras	SAHPAU	Block H.Q.	27.43690	78.13740	BDL	0.203	BDL	BDL	2.231	BDL	BDL	0.027
177	Hathras	SASNI	Block H.Q.	27.69110	78.07410	BDL	0.364	BDL	BDL	3.102	BDL	BDL	0.042
178	Jalaun	Dakore	Block H.Q.	25.87501	79.42484	BDL	0.496	BDL	BDL	0.146	BDL	BDL	0.010
179	Jalaun	Konch	Block H.Q.	26.00174	79.16184	BDL	0.151	BDL	BDL	0.083	BDL	0.001	0.005
180	Jalaun	Rampura	Block H.Q.	26.34813	79.18386	BDL	0.113	BDL	BDL	1.164	BDL	0.001	0.004
181	Jaunpur	Mungra Badshahpur	Block H.Q	25.65630	82.18872	BDL	0.711	BDL	BDL	0.678	BDL	0.001	0.010
182	Jaunpur	Machchli Sahar	Block H.Q	25.66820	82.39920	BDL	0.536	BDL	BDL	0.287	BDL	BDL	0.033
183	Jaunpur	Jaunpur	In Jaunpur City	25.74472	82.68444	BDL	0.971	BDL	BDL	0.208	BDL	BDL	0.015
184	Jaunpur	Ram Nagar	Block H.Q	25.55528	82.62000	BDL	3.319	0.060	BDL	0.482	BDL	0.001	0.016
185	Jaunpur	Rampur	Block H.Q	25.49028	82.57083	0.002	1.071	BDL	BDL	0.452	BDL	0.002	0.025
186	Jaunpur	Shahganj	Block H.Q	25.96611	82.67500	BDL	0.419	BDL	BDL	0.068	BDL	0.001	0.027
187	Jaunpur	Dharampur	Block H.Q	25.75250	82.74750	BDL	0.205	BDL	BDL	1.144	BDL	0.001	0.028
188	Jhansi	Babina	Block H.Q.	25.23391	78.46967	BDL	0.341	BDL	BDL	0.561	BDL	BDL	BDL
189	Jhansi	Bamaur	Block H.Q.	25.61314	79.18572	BDL	0.083	BDL	BDL	1.096	BDL	BDL	0.020
190	Jhansi	Bangra	Block H.Q.	25.31156	79.00384	BDL	0.082	BDL	BDL	0.102	BDL	0.001	0.017
191	Jhansi	Baragaon	Block H.Q.	25.47376	78.70009	0.006	BDL	BDL	BDL	0.333	BDL	0.002	0.011
192	Jhansi	Chirgaon	Block H.Q.	25.57110	78.80584	BDL	0.061	BDL	BDL	0.761	BDL	0.004	0.008

Post monsoon (Heavy Metals) Chemical data 2023-24 CGWB, NR , LUCKNOW													
S. No.	**District**	**Block**	**Location**	**Latitude**	**Longitude**	**Cr (mg/l)**	**Fe (mg/l)**	**Mn (mg/l)**	**Cu (mg/l)**	**Zn (mg/l)**	**As (mg/l)**	**Pb (mg/l)**	**U (mg/l)**
193	Jhansi	District HQ	Vikas Bhawan Jhansi	25.44363	78.57753	BDL	0.244	BDL	BDL	0.367	BDL	0.001	BDL
194	Jhansi	Gursarai	Block H.Q.	25.61314	79.18572	BDL	0.425	BDL	BDL	BDL	BDL	0.001	0.005
195	Jhansi	Mauranipur	Block H.Q.	25.25540	79.14371	BDL	0.893	BDL	BDL	0.262	BDL	0.002	0.005
196	Jhansi	Moth	Block H.Q.	25.72993	78.95227	BDL	0.090	BDL	BDL	0.925	BDL	0.001	0.005
197	Kannauj	Gugrapur	Block H.Q	27.12548	79.86535	BDL	3.208	0.083	BDL	0.152	BDL	0.001	BDL
198	Kannauj	Haseran	Block H.Q	26.91851	79.58062	BDL	0.247	0.154	BDL	0.281	0.003	0.002	0.006
199	Kanpur Dehat	Sandalpur	Block H.Q	26.42228	79.67447	BDL	0.144	0.109	BDL	0.209	BDL	0.002	0.013
200	Kanpur Dehat	Amraudha	Block H.Q	26.19597	79.77950	BDL	BDL	0.148	0.026	8.219	BDL	0.002	0.010
201	Kanpur Dehat	Derapur	Block H.Q	26.41748	79.79322	BDL	0.254	0.061	BDL	0.851	BDL	0.002	0.028
202	Kanpur Dehat	Akberpur	Block H.Q	26.38223	79.95612	BDL	BDL	BDL	BDL	0.452	0.002	0.004	0.108
203	Kanpur Dehat	Rasoolabad	Block H.Q	26.66804	79.78387	BDL	0.779	0.167	BDL	1.731	BDL	0.002	0.038
204	Kanpur Nagar	Kalyanpur	Block H.Q	26.50420	80.25477	BDL	0.236	BDL	BDL	BDL	BDL	BDL	0.006
205	Kanpur Nagar	Patara	Block H.Q	26.23330	80.19656	BDL	0.195	0.126	BDL	0.410	BDL	BDL	0.020
206	Kanpur Nagar	Bhitargaon	Block H.Q	26.21264	80.27707	BDL	0.084	BDL	BDL	0.319	BDL	0.001	0.020
207	Kanpur Nagar	Shivrajpur	Block H.Q	26.68626	80.14051	BDL	0.699	0.091	BDL	0.976	BDL	BDL	0.017
208	Kanpur Nagar	Chaubepur	Block H.Q	26.62149	80.19182	BDL	1.285	0.187	BDL	0.086	BDL	0.002	0.023
209	Kanpur Nagar	Kakwan	Block H.Q	26.74262	79.97628	BDL	0.648	0.059	BDL	BDL	BDL	0.002	0.021
210	Kasganj	Kasganj	Block H.Q	27.817	78.656	BD	0.09	BD	BD	0.39	BD	0.0	0.0

Post monsoon (Heavy Metals) Chemical data 2023-24 CGWB, NR , LUCKNOW													
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				90	15	L	3	L	L	2	L	01	09
211	Kasganj	Patiyali	Block H.Q	27.69128	78.99889	BDL	0.418	0.071	BDL	0.338	BDL	0.001	0.005
212	Kasganj	Sahawar	Block H.Q	27.79010	78.82921	BDL	2.755	0.050	BDL	BDL	BDL	0.001	0.015
213	Kasganj	Sidhpura	Block H.Q	27.63089	78.86602	BDL	0.143	0.145	BDL	1.474	BDL	0.002	0.008
214	Kasganj	Soron	Block H.Q	27.88915	78.75138	BDL	0.263	0.136	BDL	0.057	BDL	0.002	0.011
215	Kaushambi	Kara	Block H.Q	25.69530	81.35950	BDL	0.492	0.102	BDL	2.941	BDL	BDL	0.016
216	Kaushambi	Muratganj	Block H.Q	25.55500	81.53850	BDL	0.889	0.203	BDL	5.412	BDL	BDL	0.016
217	Kushinagar	Dudhai	Block H.Q	26.79790	84.15601	BDL	4.761	0.144	BDL	BDL	0.017	0.001	BDL
218	Kushinagar	Nebuwa Naurangia	Block H.Q	27.05420	83.86880	BDL	4.503	0.492	BDL	0.481	0.008	BDL	BDL
219	Kushinagar	Sewarhi	Block H.Q	26.72440	84.21640	0.002	4.304	0.149	BDL	0.312	0.007	0.001	BDL
220	Kushinagar	Fazil Nagar	Block H.Q	26.68252	84.04678	BDL	0.187	0.222	BDL	1.145	0.003	0.002	BDL
221	Kushinagar	Hata	Block H.Q	26.73953	83.73170	BDL	1.123	0.051	BDL	0.194	0.005	0.001	BDL
222	Kushinagar	Khadda	Block H.Q	27.17891	83.88130	BDL	4.344	0.264	BDL	0.225	BDL	0.002	BDL
223	Lakhimpur	Gola	Block H.Q	28.06955	80.48283	BDL	1.983	0.082	BDL	BDL	0.003	0.002	BDL
224	Lakhimpur	Pasgawan	Block H.Q	27.82056	80.16778	BDL	0.350	BDL	BDL	BDL	0.001	0.001	BDL
225	Lakhimpur Kheri	Nakaha	Block H.Q	27.88518	80.94799	BDL	1.407	0.078	BDL	BDL	0.006	0.001	BDL
226	Lakhimpur Kheri	Isanagar	Block H.Q	27.90759	81.20733	BDL	7.555	0.055	BDL	0.056	0.019	0.002	BDL
227	Lakhimpur Kheri	Nighasan	Block H.Q	28.23961	80.86365	BDL	0.072	BDL	BDL	BDL	0.016	0.001	BDL

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228	Lakhimpur Kheri	Palia Kalan	Block H.Q	28.43721	80.56035	BDL	4.807	BDL	BDL	0.157	0.042	0.006	BDL
229	Lalitpur	Bar	Block H.Q.	24.86233	78.58815	BDL	0.560	0.956	BDL	0.467	BDL	0.001	0.005
230	Lalitpur	Jakhauar	Block H.Q.	24.89603	78.33887	BDL	0.333	BDL	BDL	0.322	BDL	0.001	0.005
231	Lalitpur	Madwara	Block H.Q./ Tehsil	24.37258	78.79309	BDL	0.254	BDL	BDL	0.105	BDL	0.001	BDL
232	Lalitpur	Mehrauni	Block H.Q.	24.57686	78.72659	BDL	0.343	BDL	BDL	0.505	BDL	0.001	0.005
233	Lalitpur	Talbehat	Block H.Q.	25.03971	78.42278	BDL	0.083	BDL	BDL	0.327	BDL	0.001	0.004
234	Lucknow	Chinhat	Sarvodaya Nagar, Indra Nagar, Lucknow. Adjacent to Vikas Bhawan	26.88000	80.97420	BDL	BDL	BDL	BDL	BDL	BDL	0.002	0.016
235	Maharajganj	Ghughuli	Block H.Q	27.05659	83.71882	BDL	7.182	0.228	BDL	3.516	0.003	0.001	BDL
236	Maharajganj	Maharajganj	Block H.Q	27.14299	83.55867	BDL	8.330	0.387	BDL	0.310	0.004	0.001	BDL
237	Maharajganj	Mithaura	Block H.Q	27.22539	83.66353	BDL	0.165	BDL	BDL	0.087	0.002	0.002	BDL
238	Maharajganj	Pharenda	Block H.Q	27.09620	83.31020	BDL	2.631	0.281	BDL	1.207	0.011	0.008	0.007
239	Mahoba	Kabrai	Block H.Q	25.298552°	79.89442°	BDL	1.604	BDL	BDL	BDL	BDL	BDL	0.008
240	Mahoba	Jaitpur	Block H.Q	25.255356°	79.565872°	BDL	0.292	BDL	BDL	0.272	BDL	BDL	0.017
241	Mahoba	Panwari	Block H.Q	25.426372°	79.465452°	BDL	0.077	BDL	BDL	0.230	BDL	0.002	0.007
242	Mahoba	Charkhari	Block H.Q	25.392567°	79.747925°	BDL	1.945	0.085	BDL	0.693	BDL	BDL	0.007
243	Mainpuri	Jageer	Block H.Q	27.17030	79.10703	BDL	0.143	BDL	BDL	0.592	BDL	0.002	0.014
244	Mainpuri	Kishni	Block H.Q	27.03170	79.26637	BDL	0.233	0.052	BDL	0.576	BDL	BDL	0.026
245	Mainpuri	Karhal	Block H.Q	26.996	78.940	BD	0.09	0.1	BD	0.30	BD	0.0	0.0

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				46	73	L	3	01	L	1	L	01	29
246	Mathura	BALDEO	Block HQ	27.41192	77.82017	BDL	0.071	BDL	BDL	0.218	BDL	BDL	0.023
247	Mathura	CHAUMUHAN	Block HQ	27.62046	77.57940	0.004	0.604	BDL	BDL	BDL	BDL	BDL	0.017
248	Mathura	CHHATA	Block HQ	27.71440	77.50632	0.001	0.195	BDL	BDL	BDL	BDL	BDL	0.062
249	Mathura	MANT	Block HQ	27.63086	77.71633	BDL	0.284	BDL	BDL	1.299	BDL	BDL	0.020
250	Mathura	NANDGAON	Block HQ	27.71650	77.38480	BDL	1.542	0.303	BDL	1.233	BDL	BDL	BDL
251	Mathura	NOHJHIL	Block HQ	27.84649	77.65005	BDL	1.220	BDL	BDL	0.107	BDL	BDL	0.028
252	Mathura	RAYA	Block HQ	27.54950	77.78480	BDL	BDL	BDL	BDL	1.823	BDL	BDL	0.015
253	Mathura	Farah	Block HQ	27.32443	77.75857	BDL	0.229	0.264	BDL	0.059	BDL	BDL	0.009
254	Mathura	Mathura	Block HQ	27.47158	77.69429	BDL	0.149	BDL	BDL	BDL	BDL	BDL	0.008
255	Mathura	Govardhan	Block HQ	27.49198	77.47517	BDL	BDL	BDL	BDL	BDL	BDL	0.001	0.054
256	Maunath Bhanjan	Badraon	Block H.Q.	26.16703	83.46014	BDL	0.117	0.094	BDL	0.420	BDL	0.002	0.015
257	Maunath Bhanjan	Dohari Ghat	Block H.Q.	26.26521	83.51091	BDL	1.945	0.104	BDL	BDL	0.002	0.001	BDL
258	Meerut	HASTINAPUR	In Block office	29.15734	77.99882	BDL	BDL	BDL	BDL	1.214	BDL	BDL	0.016
259	Meerut	KHARKHODA	In Block office	28.83104	77.74662	BDL	0.164	BDL	BDL	2.552	BDL	0.001	0.018
260	Meerut	MEERUT	In Block office	28.95943	77.68291	BDL	7.729	0.164	BDL	0.297	BDL	BDL	0.025
261	Meerut	PARICHHAT GARH	In Block office	28.97823	77.92097	BDL	1.482	0.063	BDL	0.325	BDL	0.002	0.008
262	Meerut	SARDHANA	In Block office	29.14356	77.60774	BDL	0.445	0.112	BDL	0.957	BDL	BDL	0.021

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263	Mirzapur	Chhanbey	Block H.Q.	25.12722	82.39389	BDL	0.126	BDL	BDL	0.307	BDL	0.001	0.011
264	Mirzapur	Halia	Block H.Q.	24.82056	82.33500	BDL	4.217	BDL	BDL	BDL	BDL	0.001	BDL
265	Mirzapur	Jamalpur	Block H.Q.	25.15833	83.08750	BDL	0.284	BDL	BDL	1.071	BDL	0.002	0.003
266	Mirzapur	Nagar Mirzapur	Block H.Q.	25.12000	82.55611	BDL	0.286	BDL	BDL	0.051	BDL	0.002	0.012
267	Mirzapur	Narayanpur	Block H.Q.	25.20000	83.02083	BDL	0.431	BDL	BDL	0.052	0.003	BDL	0.017
268	Mirzapur	Pahari	Block H.Q.	25.20000	83.02083	0.003	BDL	BDL	BDL	BDL	BDL	0.001	BDL
269	Mirzapur	Rajgarh	Block H.Q.	24.87611	82.83694	BDL	BDL	BDL	BDL	0.054	BDL	0.002	BDL
270	Mirzapur	Kon	Block H.Q.	25.17056	82.55111	BDL	0.958	0.419	BDL	0.112	0.004	0.001	BDL
271	Moradabad	Bilari	Block Office	28.609861	78.797694	BDL	1.545	0.136	BDL	0.333	0.001	BDL	BDL
272	Moradabad	BhagatpurTanda	Block Office	28.95141	78.82683	BDL	1.307	0.096	BDL	0.197	0.008	0.001	BDL
273	Moradabad	Chhajlet	Block Office	28.977612	78.63385	BDL	1.459	0.172	BDL	BDL	0.013	0.001	0.005
274	Moradabad	Deengarpur	Block Office	28.68661	78.78786	BDL	3.372	0.296	BDL	1.246	0.002	0.001	BDL
275	Moradabad	Moondha Pandey	Block Office	28.82314	78.87967	BDL	1.928	0.136	BDL	0.122	0.018	0.001	BDL
276	Muzaffarnagar	BUDHANA	In block office	29.28866	77.47037	BDL	BDL	0.136	BDL	1.757	BDL	BDL	0.013
277	Muzaffarnagar	CHARTHAWAL	In block office	29.54593	77.58590	BDL	3.136	0.077	BDL	BDL	0.002	0.001	BDL
278	Muzaffarnagar	PURKAJI	In block office	29.64902	77.83397	BDL	0.452	0.104	BDL	9.989	BDL	0.001	BDL
279	Pilibhit	Puranpur	Block H.Q	28.50852	80.15064	BDL	0.787	0.100	BDL	BDL	0.002	0.001	BDL
280	Pilibhit	Barkhera	Block H.Q	28.455	79.806	BD	0.38	0.0	BD	0.07	0.0	BD	0.0

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				12	75	L	7	60	L	7	13	L	05
281	Pratapgarh	Baba Belkhar Nath	Block H.Q	25.90720	82.09990	BDL	0.079	BDL	BDL	0.506	BDL	BDL	0.031
282	Pratapgarh	Gaura	Block H.Q	25.74441	82.10532	BDL	0.079	BDL	BDL	BDL	BDL	0.001	0.019
283	Pratapgarh	Kalakankar	Block H.Q	25.80170	81.36920	BDL	0.219	BDL	BDL	0.839	BDL	0.002	0.008
284	Pratapgarh	Mandhata	Block H.Q	25.80160	81.85710	BDL	0.535	0.092	BDL	0.200	BDL	0.001	0.006
285	Pratapgarh	Patti	Block H.Q	25.92240	82.19830	BDL	0.229	0.102	BDL	0.072	BDL	0.001	0.009
286	Pratapgarh	Sadar	Block H.Q	25.90780	81.98000	BDL	7.495	BDL	BDL	0.531	0.001	0.001	0.008
287	Pratapgarh	Sandwa Chandrika	Block H.Q	26.03770	81.88380	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.032
288	Pratapgarh	Sangipur	Block H.Q	26.05540	81.65450	BDL	0.286	0.057	BDL	0.135	BDL	BDL	0.019
289	Pratapgarh	Babaganj	Jilla Panchayat Office	25.79917	81.58222	BDL	0.192	BDL	BDL	0.254	BDL	BDL	0.037
290	Pratapgarh	Lakshmanpur	Block H.Q	25.89581	81.75892	BDL	2.349	0.101	BDL	BDL	BDL	BDL	0.026
291	Pratapgarh	Rampur-Sangramgarh	Block H.Q	25.88870	81.55390	BDL	BDL	BDL	BDL	0.126	0.005	0.001	0.031
292	Prayagraj	Manda	Block H.Q	25.09920	82.26020	0.001	0.134	BDL	BDL	0.222	BDL	0.001	0.004
293	Prayagraj	Meja	Block H.Q	25.14390	82.10170	BDL	1.742	0.055	BDL	0.143	BDL	0.002	0.007
294	Prayagraj	Phoolpur	Block H.Q	26.15940	81.52190	BDL	0.340	BDL	BDL	0.743	BDL	0.001	0.040
295	Prayagraj	Saidabad	Block H.Q	26.15952	81.52078	BDL	0.709	0.088	BDL	0.142	0.001	0.001	0.019
296	Prayagraj	Pratappur	Block H.Q	29.20000	78.86220	BDL	0.684	0.114	BDL	3.173	BDL	BDL	0.027
297	Raebareli	Amawan	Block H.Q	26.28287	81.308027	BDL	0.104	BDL	BDL	0.651	BDL	BDL	0.013

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298	Raebareli	Lalganj	Block H.Q	26.168136	80.979256	BDL	0.476	0.117	BDL	0.321	BDL	0.001	0.051
299	Raebareli	Maharajganj	Block H.Q	26.384758	81.274382	BDL	0.474	BDL	BDL	0.256	BDL	BDL	0.026
300	Raebareli	Unchahar	Block H.Q	25.898847	81.298017	BDL	3.491	0.185	BDL	0.960	BDL	0.002	0.008
301	Rampur	Milak	CHC, Milak	28.61294	79.16812	BDL	3.052	0.224	BDL	BDL	0.011	0.002	BDL
302	Rampur	Shahbad	Block Office	28.56316	79.01111	BDL	0.159	0.065	BDL	0.989	BDL	0.002	0.008
303	Rampur	Swar	Block Office	29.0328	79.05935	0.023	3.020	0.097	BDL	0.275	BDL	0.002	0.004
304	Saharanpur	DEOBAND	In block office	29.68708	77.68307	BDL	0.188	0.188	BDL	2.416	BDL	0.003	0.015
305	Saharanpur	GANGOH	In block office	29.78406	77.26013	BDL	0.129	0.124	BDL	1.023	BDL	BDL	0.042
306	Saharanpur	NAGAL	In block office	29.84271	77.62907	BDL	0.211	0.242	BDL	0.104	0.002	BDL	0.005
307	Saharanpur	NAKUR	In block office	29.91390	77.30273	BDL	BDL	0.389	BDL	1.280	BDL	BDL	0.003
308	Saharanpur	RAMPUR	In block office	29.81354	77.45332	BDL	0.778	0.206	BDL	0.077	0.001	0.001	0.004
309	Saharanpur	SADAULI QUDIM	In block office	30.20104	77.57729	BDL	0.086	BDL	BDL	0.788	BDL	0.001	0.005
310	Saharanpur	SARSAWA	In block office	30.01166	77.39926	BDL	1.911	0.251	BDL	1.070	0.001	0.001	0.009
311	Sambhal	Baniakhera	Block Office	28.46179	78.78312	BDL	0.311	0.233	BDL	0.178	0.002	0.001	0.006
312	Sambhal	Panwasa	Block Office	28.4835	78.57948	BDL	0.747	BDL	BDL	BDL	BDL	0.002	0.003
313	Sambhal	Gunnaur	Block Office	28.23461	78.44272	BDL	0.310	0.175	BDL	0.140	BDL	0.001	0.013
314	Sant Kabir Nagar	Baghauli	Block H.Q	26.87640	83.08525	BDL	1.526	0.123	BDL	0.644	0.001	0.001	BDL
315	Sant Kabir	Khalilabad	Block H.Q	26.759	83.083	BD	2.15	0.0	BD	0.45	BD	0.0	0.0

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	Nagar			60	60	L	8	74	L	0	L	01	05
316	Sant Kabir Nagar	Nath Nagar	Block H.Q	26.66120	83.03830	BDL	0.816	0.135	BDL	BDL	0.005	0.001	BDL
317	Sant Kabir Nagar	Pauli	Block H.Q	26.58580	82.90190	BDL	0.717	0.090	BDL	0.432	0.030	0.002	BDL
318	Sant Kabir Nagar	Santha	Block H.Q	26.99843	83.04270	BDL	0.137	0.153	BDL	0.336	0.011	0.002	BDL
319	Shahjahanpur	Dadraul	Block H.Q	27.83672	79.87013	BDL	1.415	0.084	BDL	BDL	0.008	0.001	BDL
320	Shahjahanpur	Jaitipur	Block H.Q	27.99392	79.57051	BDL	2.047	0.069	BDL	BDL	0.010	0.001	BDL
321	Shahjahanpur	Mirzapur	Block H.Q	27.67052	79.54801	BDL	0.977	BDL	BDL	0.148	BDL	0.001	0.022
322	Shahjahanpur	Nigohi	Block H.Q	28.10293	79.86527	BDL	0.063	0.108	BDL	1.210	BDL	0.002	0.005
323	Shahjahanpur	Sindhauli	Block H.Q	27.97037	79.97421	BDL	1.163	0.412	BDL	0.532	BDL	0.002	0.005
324	Shahjahanpur	Jalalabad	Block H.Q	27.72222	79.66490	BDL	0.425	0.084	BDL	BDL	0.003	0.001	0.005
325	Shahjahanpur	Kalan	Block H.Q	27.70331	79.44550	BDL	2.941	0.282	BDL	BDL	BDL	0.001	0.030
326	Shahjahanpur	Khutar	Block H.Q	28.20825	80.26980	BDL	3.070	0.196	BDL	0.289	0.007	0.002	BDL
327	Shamli	KAIRANA	In block office	29.39971	77.21693	BDL	3.113	0.081	BDL	0.350	BDL	BDL	0.027
328	Shamli	KANDHALA	In block office	29.32300	77.26654	BDL	0.231	0.246	BDL	21.243	BDL	0.003	0.007
329	Shamli	THANA BHAWAN	In block office	29.59136	77.42609	BDL	1.463	0.061	BDL	1.351	0.002	0.001	0.008
330	Shravasti	Hariharpur Rani	Block H.Q	27.74000	81.83222	BDL	1.536	0.131	BDL	0.286	0.004	BDL	BDL
331	Shravasti	Ikauna	Block H.Q	27.52564	81.96968	BDL	4.783	0.143	BDL	0.807	0.002	BDL	BDL
332	Siddharthnagar	Barhni	Block H.Q	27.48917	82.77694	BDL	3.494	0.065	BDL	5.414	0.004	0.001	BDL

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333	Siddharthnagar	Bansi	Block H.Q	27.17167	82.92917	BDL	1.291	0.311	BDL	2.055	0.004	0.001	BDL
334	Siddharthnagar	Birdpur	300 m from Block campus, near house of Sh. Shobh Nath	27.36617	83.10131	BDL	0.986	0.185	BDL	BDL	0.003	0.001	BDL
335	Siddharthnagar	Jogiya	Opposite side of Block Office	27.25303	83.00817	BDL	BDL	0.151	BDL	BDL	BDL	0.002	BDL
336	Sitapur	Biswan	Block H.Q.	27.48430	80.99154	BDL	1.747	0.075	BDL	0.414	BDL	0.001	BDL
337	Sitapur	Sitapur	Block H.Q.	27.57357	80.67948	BDL	0.430	BDL	BDL	0.096	BDL	BDL	BDL
338	Sitapur	Pisawan	Block H.Q.	27.58860	80.40257	BDL	0.345	BDL	BDL	BDL	0.001	0.002	0.004
339	Sonbhadra	Anpara	Block H.Q.	24.20498	82.79668	BDL	BDL	0.060	BDL	0.490	BDL	0.001	0.004
340	Sonbhadra	Babhani	Block H.Q.	23.95028	83.07694	BDL	BDL	0.537	BDL	BDL	BDL	0.002	0.008
341	Sonbhadra	Asandih	Block H.Q.	23.90080	83.15017	BDL	1.734	0.842	BDL	0.473	BDL	0.003	BDL
342	Sonbhadra	Chopan	Block H.Q.	24.51333	83.02306	BDL	0.972	BDL	BDL	0.391	BDL	0.004	BDL
343	Sonbhadra	Ghorawal	Block H.Q.	24.74941	82.84436	0.002	BDL	BDL	BDL	0.305	BDL	0.001	0.003
344	Sonbhadra	Renukoot	Block H.Q.	24.21955	83.03550	BDL	BDL	BDL	BDL	0.127	BDL	0.001	BDL
345	Sonbhadra	Robertsganj	Block H.Q.	24.65639	83.05861	BDL	1.997	BDL	BDL	2.827	BDL	0.002	BDL
346	Sultanpur	Dubeypur	Block H.Q	26.238802	82.036125	BDL	0.105	0.061	BDL	BDL	BDL	BDL	0.009
347	Sultanpur	P.P. Kannaicha	Block H.Q	26.070656	82.304418	BDL	0.142	BDL	BDL	0.061	BDL	0.001	0.006
348	Unnao	Asoha	Block H.Q.	26.58735	80.82995	BDL	0.536	0.113	BDL	BDL	0.001	BDL	0.021
349	Unnao	Nawabganj	Block H.Q.	26.62105	80.67590	BDL	3.365	0.109	BDL	BDL	BDL	BDL	0.037
350	Unnao	Safipur	Block H.Q.	26.632	80.319	BD	0.33	BD	BD	0.16	BD	0.0	0.0

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				80	70	L	5	L	L	7	L	04	15
351	Varanasi	Baragaon	Block H.Q.	25.42972	82.80611	BDL	BDL	0.118	BDL	0.109	BDL	BDL	0.011
352	Varanasi	Cholapur	Block H.Q.	24.49667	82.99722	BDL	1.652	0.070	BDL	0.168	BDL	0.002	0.008
353	Varanasi	Harhua	Block H.Q.	25.39972	82.97000	BDL	0.160	BDL	BDL	0.480	BDL	0.002	0.007
354	Varanasi	Kashi Vidya Peeth	Block H.Q.	25.30639	82.96278	BDL	0.217	0.079	0.022	2.512	BDL	0.003	0.034
355	Varanasi	Sewapuri	Block H.Q.	25.36611	82.74806	0.002	0.064	BDL	BDL	BDL	BDL	0.002	0.011