



**PHYSICO- CHEMICAL PARAMETERS OF DIFFERENT HANDPUMPS SAMPLE COLLECTED
FROM MEERUT CITY, UTTAR PRADESH**

Parameters	Desirable Limit *	Medical College campus	Behind Puri petrol pump	Phool Bagh Colony, Gali No. 5 (opp. Jain Temple)	Zakir Colony (Near slaughter house)	L Block Shastri Nagar	K Block Shastri Nagar(Pravesh Vihar)	Near International public school, Cantt. Meerut Opp. Sophia School	Mohunpuri (New)	Rajban Bazar, Near Petrol pump	Kasimpur (Opp. Central Distillery)	From the field near Kali River
Colour	-	Colorless (CL)	Brownish	Yellowish	CL	CL	CL	CL	CL	CL	CL	Brownish
pH	6.5-8.5	7.56	7.20	7.28	7.35	7.33	6.54	7.10	7.11	7.30	6.93	7.15
Conductivity(?S)	-	702	967	1085	1000	805	1597	877	770	702	1090	815
Turbidity (NTU)	5.0	0.31	383.1	86.57	0.89	1.34	5.50	0.93	2.51	1.71	0.60	96.93
DO (mg/L)	-	8.05	7.65	7.93	7.93	7.60	7.59	8.24	8.59	7.99	8.02	7.43
COD(mg/L)	-	25.88	14.04	16.37	10.67	44.61	31.72	34.68	36.44	49.35	51.79	66.49
Total Solids (mg/L)	-	606	686	1058	1188	546	1182	626	592	484	1214	800
TDS (mg/L)	500	514	612	1056	116	496	892	748	466	376	264.1	600
TSS (mg/L)	-	6.00	22.00	2.00	4.00	1.00	20.00	6.00	26.0	4.00	2.00	160
Chloride (mg/L)	250	39.98	42.98	83.97	137.95	64.97	257.62	60.92	37.98	42.98	74.90	227.4
Nitrate (mg/L)	45	2.30	0.42	2.00	11.60	6.20	13.60	9.60	0.40	4.60	15.20	10.45
Bromide (mg/)	0.01**	0.68	ND	1.025	0.119	0.068	0.184	1.074	0.813	0.739	0.950	0.576
Fluoride (mg/L)	1.0	ND	0.550	1.277	1.409	1.965	1.241	1.831	1.403	1.148	1.853	0.198
Hardness(mg CaCO ₃ /L)	300	256.00	224.0	36.00	30.00	32.00	30.00	34.00	66.00	40.00	30.00	285.00
Calcium (mgCa/L)	75	102.6	89.77	14.42	12.024	12.82	8.016	13.62	26.45	16.032	12.02	114.22
Magnesium (mg/L)	50**	131.0	87.36	87.36	305.76	131.04	131.04	109.2	87.36	218.36	43.36	60.71
Phosphorus (mg/L)	-	0.033	0.1506	0.0766	ND	ND	ND	ND	0.082	0.0026	0.088	0.878
Iron (mg/L)	0.3	0.001	0.4254	1.0071	0.0097	0.0171	0.2135	0.098	0.177	0.1836	0.044	0.269
Aluminum (mg/L)	0.03	0.001	0.003	0.014	0.079	0.0017	0.0073	0.003	0.005	0.003	0.006	0.001
Chromium VI(mg/L)	0.05	ND	0.0063	ND	ND	ND	ND	ND	ND	ND	0.002	ND

*The MRL and Desirable Limits are of drinking water as specified by Bureau of Indian Standards.

**MRL as per USEPA Standards for Drinking Water



**PHYSICO- CHEMICAL PARAMETERS OF MUNICIPAL WATER SAMPLES COLLECTED
FROM DIFFERENT COLONIES OF MEERUT CITY, UTTAR PRADESH**

S. No.	Parameters	Desirable Limits	Odeon Theater (colony)	Lekha Nagar	Subash Nagar	Pallav Puram	Vijay Nagar	Shahpeer Gate
1.	Color	-	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless
2.	PH	6.5 - 8.5	7.23	7.18	7.25	7.83	7.44	7.28
3.	Turbidity (NTU)	5	0.10	1.32	0.26	0.15	0.83	0.52
4.	DO (mg/l)	-	5.68	6.56	7.12	7.93	6.60	8.11
5.	COD (mg/l)	250	7.15	91.87	106.87	99.06	175.72	607.61
6.	Total Solid (mg/l)	-	800	200	800	400	200	600
7.	TDS (mg/l)	500	665	428	722	482	563	550
8.	Conductivity (m s)	-	994	650	1087	737	839	819
9.	Chloride (mg/l)	250	74.97	21.99	69.97	25.99	53.98	43.98
10.	Nitrate (mg/l)	45	9.92	5.36	8.8	3.12	4.56	3.48
11.	Bromide (mg/l)	0.01* **	0.09	0.11	0.14	0.33	0.07	0.26
12.	Fluoride (mg/l)	1.00	0.323	0.241	0.265	0.302	0.297	0.302
13.	Hardness (mg/l)	300	112.00	160.00	220.00	180.00	210.00	170.00
14.	Calcium (mg/l)	75	44.89	64.13	88.18	72.14	84.168	68.136
15.	Magnesium (mg/l)	50**	72.94	77.31	114.44	79.49	79.06	86.48
16.	Phosphorus (mg/l)	-	ND	0.428	0.896	0.822	1.56	0.87
17.	Iron (mg/l)	0.3	0.301	0.311	0.067	0.090	0.170	0.067
18.	Chromium (mg/l)	0.05	0.0070	0.0077	0.0171	0.0052	0.0068	0.0024
19.	Aluminium (mg/l)	0.03	ND	ND	ND	ND	ND	ND
20.	Sulfate (mg/l)	200	1.381	0.345	1.090	0.545	1.127	1.118
<p><i>*MRL as per BIS Standards for Drinking Water.</i> <i>**MRL as per USEPA Standards for Drinking Water</i></p>								

