

QUALITY CONTROL (WATER) LABORATORY

NAGAR NIGAM

Arera Hills, Bhopal - 462 003 Madhya Pradesh

ANALYSIS REPORT

Source of Sample :- Water / Sewage / Chemical for purity Checking

PARTICULARS OF SAMPLE : Name and Address Bhanpur Area Bhopal

Ref. No. and Date

PARTICULARS OF SAMPLE Sample collected / Not collected by S.R.L.

Sample No.	Place of collection and details of sample	Date
1	H. No. 22 Kapil Gaur Patel Market (Tajpur)	18-9-15
2	Rajla Khedi Vidisha Road (Tanjil)	18-9-15
3	Jai Siya Ram Mandir old Bhanpur - Handi	18-9-15
4	Pump	

PARTICULARS TO BE FILLED IN THE LABORATORY

Date of Receipt 18.9.2015

Time of Receipt

Lab. Reference No.

Tested on 18-9-15

No.	Characteristics	Unit	Guidelines as per Manual on Water supply and Treatment, CPHEEO, G.O.I. May 1999		Results			
			Acceptable*	Cause for rejection**	Sample 1	Sample 2	Sample 3	Sample 4
PHYSICAL TESTS					✓	✓	✓	
1	Temperature	OC	-----	-----	27.1	27.3	27.2	1
2	Turbidity	NTU	1.0	10	0.8	0.9	2.2	
3	Colour	Pt/Co scale	5	25	NIL	NIL	NIL	
4	Taste and odour	-----	Unobjectionable	Unobjectionable	NIL	NIL	NIL	
ROUTINE CHEMICAL TESTS								
5	pH	pH scale	7.0 to 8.5	< 6.5 or > 9.2	6.80	7.30	7.0	
6	Conductivity	Micromhos per cm.2	-----	-----	1709	1336	1440	1
7	Phenolphthalein Alkalinity	mg / l	-----	-----	-	-	-	
8	Total Alkalinity as CaCO3	mg / l	200	600	360	320	340	1
9	Chloride as Cl	mg / l	200	1000	280	220	210	1
10	Nitrate as NO3	mg / l	45	45	0.04	0.2	0.2	
11	Total Hardnes	as CaCO3	mg / l	200	600	720	520	580
12	Ca. Hardness		mg / l	-----	-----	520	318	380
13	Mg Hardness		mg / l	-----	-----	200	202	200
14	Total Dissolved Solids	mg / l	500	2000	1111	868	936	
15	Iron	mg / l	0.1	1.0	0.02	0.02	0.05	
16	Sulphate as SO4	mg / l	200	400	57	39	44	
17	Fluoride as F	mg / l	1.0	1.0	-	-	-	
18	Dissolved Oxygen, as O2	mg / l			-	-	-	
19	Residual Chlorine as Cl2	mg / l	0.2	> 1.0	NIL	NIL	NIL	

अनुमोदित
मध्य प्रदेश शासन
नगरीय विकास एवं आवास विभाग

Assistant Engineer
Urban Administration and Development
M.P. BHOPAL

OTHER CHEMICALS TESTS

20	Manganese, as Mn	mg / l	0.05	0.5	-	-	-	-
21	Arsenic, as As	mg / l	0.01	0.05	-	-	-	-
22	Aluminium, as Al	mg / l	0.03	0.2	-	-	-	-
23	Mercury, as Jg	mg / l	0.001	0.001	-	-	-	-
24	Anionic Detergents, as MBAS	mg / l	0.2	1.0	-	-	-	-
25	Cyanide, as CN	mg / l	0.05	0.05	-	-	-	-
26	Lead, as Pb	mg / l			0.02	0.05	0.05	-
27	B.O.D.	mg / l			-	-	-	-
28	C.O.D.	mg / l			-	-	-	-
29	Phosphate, as PO4	mg / l			-	-	-	-
BACTERIOLOGICAL TESTS								
30	M.PN of Coliform	per 100 ml		24	24	24	NIL	-
31	Faecal Coliform	per 100 ml		484	-	-	-	-

Notes :- * The figures indicated under the column Acceptable bare the limits unto which water is generally acceptable to the consumers. ** Figures in excess of those mentioned under 'Acceptable' render the water not acceptable, hut still slay be tolerated in the absence of an alternative and better source but unto the limits indicated under column "Cause for rejection" above which the source will have to be rejected.

***Guideline values for Bacteriological Quality of Drinking Water :

In All water intended for drinking E. Coli or thermo tolerant Coliform bacteria must not be detectable in any 100 ml sample

Treated water entering in / in distribution system E. Coli or thermo tolerant Cotiform bacteria And Total Coliform bacteria must not be detectable in any 10 ml sample. In case of large supplies, where sufficient samples are examined, must not be present in 95% of samptes taken through out any 12 months period.

CHEMIST
5 MGD. T/T. PLANT
Nagar Nigam, BHOPAL

Remarks if any

To

City Engineer
Nagar Nigam
Bhopal

Pin Code

**QUALITY CONTROL (WATER) LABORATORY
NAGAR NIGAM, Arera Hills, Bhopal.(M.P.) 462003**

ANALYSIS REPORT

Kind of sample :- Water Sample

PARTICULARS OF SENDER -BHANPUR KHANTI AREA WITHIN 500 MT ..
Ref - Q Date - 26.02.2016

PARTICULARS OF SAMPLE

Sample collected /Not collected by Nagar Nigam

	Place of collection and details of sample	Date
5	TUBE WELL NO.5 HOUSE RAJAN PAHALVAN VIJAY RESTORENT W.N 72 BHANPUR	26.02.2016
6	TUBE WELL NO. 6 HOUSE NO. 22 KAPIL GOUR BHANPUR W.N 72 VIDISHA ROAD	26.02.2016
7	HANUMAN MANDIR HAND PUMP BHANPUR KHANTI	26.02.2016

PARTICULARS TO BE FILLED IN THE LABORATORY

Date of Receipt :- 26.02.2016

Lab. Reference No

Tested on :-26.02.2016

NATURE OF STUDY - CHEMICAL ANALYSIS

As Per BIS -10500:2012
For Drinking Water

Results

No.	Characteristics	Unit	Requirement (Desirable Limit)	Permissible Limit in the absence of Alternate Source	Sample 1	Sample 2	Sample 3	Sample 4
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PHYSICAL TESTS

1	Temperature	°C	-----	-----	23.8	23.8	25.1	
2	Turbidity	NTU	1.0	5.0	1.6	1.2	8.2	
3	Colour	Hazen Units	5	15	Nil	Nil	NIL	
4	Odour	-----	Agreeable	Agreeable	Nil	Nil	NIL	

CHEMICAL TESTS.

5	PH	PH scale	6.5 to 8.5	6.5 to 8.5	7.02	6.90	6.85	
6	Conductivity at 25°C	Micromhos per cm. ²	-----	-----	-	-		
7	Phenolphthalein Alkalinity	Mg / l	-----	-----	-	-		
8	Total Alkalinity as CaCO ₃	Mg / l	200	600	364	384	350	
9	Chloride as Cl	Mg / l	250	1000	216	220	310	
10	Nitrate as NO ₃	Mg / l	45	45	1.8	1.0	0.4	
11	Total Hardness as CaCO ₃	Mg / l	200	600	664	650	900	
12	Calcium as Ca++	Mg / l	75	200	510	500	600	
13	Magnesium as Mg++	Mg / l	30	100	154	150	300	
14	Total Dissolved Solids	Mg / l	500	2000	-	-		
15	Iron	Mg / l	0.3	0.3	Nil	0.05	0.5	
16	Sulphate as SO ₄	Mg / l	200	400	63	44	70	
17	Fluoride as F	Mg / l	1.0	1.5	Nil	Nil	0.01	
18	Residual Chlorine as Cl ₂	Mg / l	0.2	1.0	-	-	-	
19	Lead , As Pb	Mg / l	0.01	0.01	-	-	-	

NATURE OF STUDY - BACTERIOLOGICAL ANALYSIS

20	Total Coliform	Per 100 ml	Nil (for treated water or water in distribution system)	31	170	2400+	
21	E-coli or Thermo Tolerant Coliform	Per 100 ml	Nil	-	-	-	-

NOTE:- It is recommended that acceptable limit is to be implemented. Values in excess of those mentioned under "acceptable" render the water not suitable, but still may be tolerated in the absence of an alternative source but upto the limits indicated under the "permissible limit in the absence of alternate source" in column 4, above which the sources will have to be rejected.

Chemist's signature

Remarks if any

Assistant Engineer
Urban Administration & Development
M.P. Bhopal

INCHARGE
5MGD FILTER PLANT LABORATORY
NAGAR NIGAM Bhopal.(M.P.) 462003

No. _____ /Lab../Nagar Nigam/BPL Date

अनुपम शासन
मध्य प्रदेश शासन
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