



Briggs Analytical Bureau

ANALYTICAL TECHNICAL AND CONSULTING CHEMISTS

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"Commerce House"
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9th floor, Room No. 7A
KOLKATA-700 013

Laboratory
AA 285, SECTOR-1
Salt Lake City
KOLKATA-700 064

Registration No. L/7701

Certificate of Examination

We hereby certify that a sample of "TREATED WATER" SUBMITTED to us on the 4th July 2024 by and on account of M/s. DUTT AQUAOUS, 68/149, Amar Pally, Kolkata-700074, India. has been analysed with the following results:

BACTERIOLOGICAL EXAMINATION:

British Public Health Methods Employed:

Colonies Visible on agar in 1 ml. after 48 hours at 37 ^o C	...	x
Probable number of coli aerogenes present in 100 ml	...	x
B. Coli Faecal Type I -	x	
B. Coli Faecal Type II -	x	
Cl. Welchii	-	x

<u>B.P.H.L.</u>	
<u>ACCEPTABLE</u>	
Max	100
	Nil

CONDITION OF WATER AT TIME OF ANALYSIS:

Appearance/Colour (Hazen) - Clear	<u>D.L.</u>	<u>MAX.CPHL</u>			
	10	50	Sediment -	Nil	
Odour- Agreeable	Unobj	Unobj	Reaction PH Value -	7.4	6.5/8.5 9.2
Turbidity (NTU) -1	10	25	Free Cl. (PPM) -	Nil	0.2 0.5

ESTIMATION:

Total solids dried at 100 ^o C	-	313.0	<u>D.L.</u>	500	<u>Max C.P.H.L.</u>	2000
Alkalinity to Phenolphthalein as (CaCO ₃)	-	Nil				
Alkalinity to Methylorange as (CaCO ₃)	-	195.0				
Silica as SiO ₂	-	0.3				

RESULTS expressed in parts per Million

PROBABLE COMPOSITION OF TOTAL SOLIDS:

Oxide of Iron & Alumina	-	0.3				
Iron as Fe	-	0.2	0.3	1.0		
Manganese as Mn	-	Absent	0.1	0.5		
Lime as CaO	-	83.9	104.9	279.8		
Magnesia as MgO	-	42.4	82.9	248.7		
Sulphates as SO ₃	-	0.9	200	400		
Chlorides as Cl	-	186.2	250	1000		
Nitrates as KNO ₃	-	2.5	73.4	73.4		
Free Carbonic acid	-	0.02	-	-		

Calcium Carbonate	-	156.0
Magnesium Carbonate	-	37.9
Magnesium Sulphate	-	1.4
Sodium Sulphate	-	9.6
Magnesium Chloride	-	100.5
Sodium Chloride	-	2.9
Silica	-	0.3
Oxide of Iron & Alumina	-	0.2
Potassium Nitrate	-	2.4
Combined Water etc.	-	1.8
		313.0

	<u>grains per</u>	<u>D.L.</u>	<u>parts per</u>	<u>Max.</u>
	<u>gallon</u>	<u>PPM.</u>	<u>Million:</u>	<u>CPHL</u>
<u>HARDNESS IN</u>				
Total Hardness	17.95	300	245.5	600
Temporary Hardness	17.96		245.5	
Permanent Hardness	Absent		Absent	

REMARKS: Satisfactory.

Site - Sample Collected from Treated Water North Point Senior Secondary High School.,
Langal Pota Rajarhat. (School Building)


CHIEF EXECUTIVE



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BACTERIOLOGICAL EXAMINATION:
British Public Health Methods Employed:

Colonies Visible on agar in 1 ml. after 48 hours at 37 ^o C	...	x
Probable number of coli aerogenes present in 100 ml	...	x
B. Coli Faecal Type I -	x	
B. Coli Faecal Type II -	x	
Cl. Welchii	x	

B.P.H.L.
ACCEPTABLE
Max 100
Nil

CONDITION OF WATER AT TIME OF ANALYSIS:

Appearance/Colour (Hazen) -Clear	D.L. 10	MAX.CPHL 50	Sediment - Nil	
Odour- Agreeable	Unobj 10	Unobj 25	Reaction PH Value - 7.5	6.5/8.5 9.2
Turbidity (NTU) -Traces			Free Cl. (PPM) - Nil	0.2 0.5

Nil/10ml
Max.
D.L.CPHL

ESTIMATION:

Total solids dried at 100 ^o C	219.0	D.L. 500	Max C.P.H.L. 2000
Alkalinity to Phenolphthalein as (CaCO ₃)	Nil		
Alkalinity to Methylorange as (CaCO ₃)	92.1		
Silica as SiO ₂	0.4		

RESULTS expressed in parts per Million

PROBABLE COMPOSITION OF TOTAL SOLIDS:

Calcium Carbonate	- 21.4
Magnesium Carbonate	- 28.7
Magnesium Chloride	- 23.9
Sodium Chloride	-140.1
Silica	- 0.4
Oxide of Iron & Alumina	- 0.2
Potassium Nitrate	- 2.5
Combined Water etc.	- 1.8
	219.0

	grains per gallon	D.L. PPM.	parts per Million:	Max. CPHL
HARDNESS IN				
Total Hardness	30.08	300	431.2	600
Temporary Hardnes	30.08		431.2	
Permanent Hardness	Absent		Absent	

REMARKS: Satisfactory.

Site - Sample Collected from Treated Water North Point Senior Secondary High School.,
 Langal Pota Rajarhat. (Boys Hostel)

Date of Collection: 04/7/2024

(Signature)
CHIEF EXECUTIVE



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BACTERIOLOGICAL EXAMINATION:

British Public Health Methods Employed:

B.P.H.L.
ACCEPTABLE
 Max 100
 Nil

Colonies Visible on agar in 1 ml. after 48 hours at 37^oC ... x
 Probable number of coli aerogenes present in 100 ml ... x
 B. Coli Faecal Type I - x
 B. Coli Faecal Type II - x
 Cl. Welchii - x

CONDITION OF WATER AT TIME OF ANALYSIS:

Appearance/Colour (Hazen) - Clear	<u>D.L.</u> 10	<u>MAX.CPHL</u> 50	Sediment - Nil	
Odour- Agreeable	Unobj	Unobj	Reaction PH Value - 7.5	6.5/8.5 9.2
Turbidity (NTU) -1	10	25	Free Cl. (PPM) - Nil	0.2 0.5

ESTIMATION:

Total solids dried at 100^oC - 252.0
 Alkalinity to Phenolphthalein as (CaCO₃) - Nil
 Alkalinity to Methylorange as (CaCO₃) - 495.0
 Silica as SiO₂ - 0.5

RESULTS expressed in parts per Million

<u>D.L.</u> 252.0	<u>Max C.P.H.L.</u> 500	<u>PROBABLE COMPOSITION OF TOTAL SOLIDS:</u>
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Calcium Carbonate - 25.6
 Magnesium Carbonate - 20.10
 Magnesium Chloride - 93.3
 Sodium Chloride - 108.2
 Silica - 0.5
 Oxide of Iron & Alumina - 0.3
 Potassium Nitrate - 2.5
 Combined Water etc. - 1.5
252.0

Oxide of Iron & Alumina	-	0.3	
Iron as Fe	-	0.3	0.3 1.0
Manganese as Mn	-	Absent	0.1 0.5
Lime as CaO	-	143.2	104.9 279.8
Magnesia as MgO	-	71.7	82.9 248.7
Sulphates as SO ₃	-	8.9	200 400
Chlorides as Cl	-	661.3	250 1000
Nitrates as KNO ₃	-	2.5	73.4 73.4
Free Carbonic acid	-	0.3	-

	<u>grains per gallon</u>	<u>D.L. PPM.</u>	<u>parts per Million:</u>	<u>Max. CPHL</u>
HARDNESS IN				
Total Hardness	30.35	300	433.6	600
Temporary Hardness	30.35		433.6	
Permanent Hardness	Absent		Absent	

REMARKS: Satisfactory.

Site - Sample Collected from Treated Water North Point Senior Secondary High School., Langal Pota Rajarhat, (Girls Hostel) *[Signature]*
CHIEF EXECUTIVE

Date of Collection: 04/07/2024