

भारत सरकार
Government of India

राष्ट्रीय परीक्षण शाला (पूर्वी क्षेत्र)
National Test House (Eastern Region)

ब्लॉक - सी पी, सेक्टर - 5, साल्ट लेक सीटी, कोलकाता - 700 091
Block-CP, Sector-V, Salt Lake City, Kolkata - 700 091



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Test Certificate No

जारी होने की तिथि
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NTH(ER)/CH(S)/2021/00325A

24/08/2021

1630408585012

जिसे जारी करना है

NORTH POINT SENIOR SECONDARY BOARDING SCHOOL

Issued To

पता
Address

Arjunpur Branch, Tegharia, Near Baguiati Police Station,
Kolkata-700059

ग्राहक का सन्दर्भ सं एवं दिनांक
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Register No & Date

00325/NTH(ER)/CH(S)/01/09/2021

परीक्षण सामग्री का विवरण
Description of Test Item

Drinking Water.

परीक्षण सामग्री का पहचान
Identification of Test Item

Sample received in a jar labeled as "ARJUNPUR SCHOOL".

नमूना का विशिष्टि (यदि हो)
Product Specification (if any)

Nil

नमूना प्राप्ति की तिथि
Date of Receipt of the Test Item

31/08/2021

कार्य सम्पादन की तिथि
Date(s) of Performance of Tests

From: 01/09/2021

To: 24/09/2021

व्यावहृत प्रणाली का पहचान
Method(s) used for Test

As per Annexure -1.

नमूना प्रक्रिया जहाँ प्रासंगिक हो
Sampling Procedure where relevant

NA

Tested By

Debanjana Mukherjee
Debanjana Mukherjee

SO (Chemical)

Principal

Checked By

Dr. Amarnath Chakraborty
Dr. Amarnath Chakraborty

Scientist- B (Chemical)

Approved By

Dr. S. N. Bandyopadhyay
Dr. S. N. Bandyopadhyay

Scientist- C (Chemical)

Secretary

North Point Senior Secondary Boarding School
Gorakshabasi Mandir Complex
Arjunpur, Kolkata - 700059

North Point Senior Secondary Boarding School

Gorakshabasi Mandir Complex

Arjunpur, Kolkata - 700 059

Affiliated with C.B.S.E

Manish Chattopadhyay

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2

Sl. No.

Test Name

Test Result

Limit

1

Chemical
Requirements

Vide Annexure-1.

टिप्पणी
Note

NII

कैफियत
Remarks

In respect of the tests carried out, the sample meets the chemical requirements of IS 10500:2012 for Drinking Water for the parameters except Total Dissolved Solids, Calcium, Total Alkalinity and Total Hardness; which meets the requirements for absence of other sources of drinking water.

Tested By

Debanjana Mukherjee

Debanjana Mukherjee

Secretary, Boarding School

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Dr. Amarnath Chakraborty

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ANNEXURE A

Test results of Drinking water on the lines of IS 10500:2012

Table 1 Organoleptic and Physical Parameters

Sl. No.	Characteristic	Observed Value	Requirement (Acceptable Limit), Max	Permissible Limit in the Absence of Alternate Source, Max	Method of Test, Ref to
1.	Appearance	Clear, colourless liquid	-	-	-
2.	Colour, Hazen units	Recorded nearest to 1	5	15	IS 3025 (Part 4)
3.	Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
4.	pH at 23.8°C	6.61	6.5-8.5	No relaxation	IS 3025 (Part 11)
5.	Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7 & 8)
6.	Turbidity, NTU	0.1	1	5	IS 3025 (Part 10)
7.	Total dissolved solids, mg/l	596	500	2000	IS 3025 (Part 16)

Table 2 General Parameters Concerning Substances Undesirable in Excessive Amounts

Sl. No.	Characteristic	Observed Value	Requirement (Acceptable Limit), Max	Permissible Limit in the Absence of Alternate Source, Max	Method of Test, Ref to
1.	Aluminium (as Al), mg/l	< 0.01	0.03	0.2	IS 3025 (Part 55)
2.	Ammonia (as total ammonia-N), mg/l	< 0.1	0.5	No relaxation	IS 3025 (Part 34)
3.	Anionic detergents (as MBAS), mg/l	< 0.1	0.2	1.0	Annex K of 13428
4.	Barium (as Ba) mg/l	0.6	0.7	No relaxation	Annex F of 13428

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Sl. No.	Characteristic	Observed Value	Requirement (Acceptable Limit), Max	Permissible Limit in the Absence of Alternate Source, Max	Method of Test, Ref to
5.	Boron (as B), mg/l	0.5	0.5	2.4	IS 3025 (Part 57)
6.	Calcium (as Ca), mg/l	110.0	75	200	IS 3025 (Part 40)
7.	Chloride (as Cl), mg/l	100.4	250	1000	IS 3025 (Part 32)
8.	Copper (as Cu), mg/l	< 0.01	0.05	1.5	IS 3025 (Part 42)
9.	Fluoride (as F), mg/l	< 0.01	1.0	1.5	IS 3025 (Part 60)
10.	Free residual chlorine, mg/l	< 0.01	0.2	1	IS 3025 (Part 26)
11.	Iron (as Fe), mg/l	0.2	1.0	No relaxation	IS 3025 (Part 53)
12.	Magnesium (as Mg), mg/l	22.3	30	100	IS 3025 (Part 46)
13.	Manganese (as Mn), mg/l	0.01	0.1	0.3	IS 3025 (Part 59)
14.	Mineral oil, mg/l	Absent	0.5	No relaxation	IS 3025 (Part 39)
15.	Nitrate (as NO ₃), mg/l	0.5	45	No relaxation	IS 3025 (Part 34)
16.	Phenolic compounds (as C ₆ H ₅ OH), mg/l	0.002	0.001	0.002	IS 3025 (Part 43)
17.	Selenium (as Se), mg/l	< 0.005	0.01	No relaxation	IS 3025 (Part 56)
18.	Silver (as Ag), mg/l	< 0.005	0.1	No relaxation	Annex J of 13428
19.	Sulphate (as SO ₄), mg/l	3.6	200	400	IS 3025 (Part 24)
20.	Sulphide (as H ₂ S), mg/l	< 0.01	0.05	No relaxation	IS 3025 (Part 29)
21.	Total alkalinity as calcium carbonate, mg/l	381.9	200	600	IS 3025 (Part 23)
22.	Total hardness (as CaCO ₃), mg/l	366.8	200	600	IS 3025 (Part 21)

Tested By

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Debanjana Mukherjee
SO (Chemical)

Checked By

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Dr. Amarnath Chakraborty
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Sl. No.	Characteristic	Observed Value	Requirement (Acceptable Limit), Max	Permissible Limit in the Absence of Alternate Source, Max	Method of Test, Ref to
23.	Zinc (as Zn), mg/l	1.9	5	15	IS 3025 (Part 49)

Table 3: Parameters Concerning Toxic Substances

Sl. No.	Characteristic	Observed Value	Requirement (Acceptable Limit), Max	Permissible Limit in the Absence of Alternate Source, Max	Method of Test, Ref to
1.	Cadmium (as Cd), mg/l	0.002	0.003	No relaxation	IS 3025 (Part 41)
2.	Cyanide (as CN), mg/l	Absent	0.05	No relaxation	IS 3025 (Part 27)
3.	Lead (as Pb), mg/l	0.01	0.01	No relaxation	IS 3025 (Part 47)
4.	Mercury (as Hg), mg/l	< 0.001	0.001	No relaxation	IS 3025 (Part 48)
5.	Molybdenum (as Mo), mg/l	< 0.01	0.07	No relaxation	AAS
6.	Nickel (as Ni), mg/l	< 0.01	0.02	No relaxation	IS 3025 (Part 54)
7.	Total arsenic (as As), mg/l	< 0.005	0.01	No relaxation	IS 3025 (Part 37)
8.	Total chromium (as Cr), mg/l	0.01	0.05	No relaxation	IS 3025 (Part 52)

Tested By

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Dr. Amarnath Chakraborty
Scientist-B (Chemical)

Approved By

Dr. S. N. Bandyopadhyay
Dr. S. N. Bandyopadhyay
Scientist-C (Chemical)

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Manish Chatterjee
Principal

Point Senior Secondary Boarding, School
Gorakshabasi Mandir Complex
Arjunpur, Kolkata - 700 059



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NPS/ARJ/External/WHS/2021/119

Date: 31/08/2021

पंजिका सं एवं दिनांक
Register No & Date

00325/NTH(ER)/CH(S)/01/09/2021

Drinking Water.

परीक्षण सामग्री का विवरण
Description of Test Item

परीक्षण सामग्री का पहचान
Identification of Test Item

Sample received in a sealed poly jar marked as "ARJUNPUR SCHOOL".

नमूना का विनिर्दिष्टि (यदि हो)
Product Specification (if any)

Nil

नमूना प्राप्ति की तिथि
Date of Receipt of the Test Item

31/08/2021

कार्य सम्पादन की तिथि
Date(s) of Performance of Tests

From: 01/09/2021

To: 14/09/2021

On the lines of IS 10500:2012..

व्यावहृत प्रणाली का पहचान
Method(s) used for Test

NA.

नमूना प्रक्रिया वही प्रासंगिक हो
Sampling Procedure where relevant

Tested By

Anirban Bhattacharya
Anirban Bhattacharya

Checked By

Dr. Amarnath Chakraborty
Dr. Amarnath Chakraborty

Approved By

Dr. S. N. Bandyopadhyay
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Sl. No.	Test Name	Test Result	Limit
1	a) Most Probable Number (MPN) /100 ml. of Sample	2.	Not more than 10 in 100 ml of sample

2	b) E. coli /100 ml. of Sample	Absent.	Should be absent
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टिप्पणी
Note : Nil

वैकल्पिक
Remarks

: In respect of the tests carried out, the sample meets the microbiological requirements of IS 10500:2012 for Drinking Water.

Tested By

Anirban Bhattacharya

Anirban Bhattacharya

Checked By

Dr. Amarnath Chakraborty

Dr. Amarnath Chakraborty

Approved By

Dr. S. N. Bandyopadhyay

Dr. S. N. Bandyopadhyay

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