



Indore Institute of Science & Technology

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7.1.4 Water conservation facilities available in the Institution

Rainwater harvesting.

Bore well /Open well recharge.

Construction of tanks and bunds.

Wastewater recycling.

Maintenance of water bodies and distribution system in the campus.

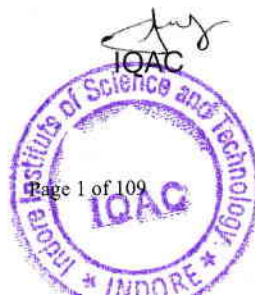
Response: 4 or All the Above

Table of Content

1.	Water Conservation facilities available at IIST	3
2.	Consultancy Service bill for rainwater harvesting.....	3
3.	Rainwater Harvesting Report (2023-2024).....	4
4.	Soil and Water Testing Report.....	7
5.	Drinking Water Testing Report	8
a.	RO Canteen Water Report Dated 14 Aug 2024	8
b.	RO Water IIST Building Report Dated- 12 Aug 2024	14
c.	RO Water Boys Hostel IIST Report Dated- 12 Aug 2024.....	20
d.	RO Water IIST Building Report Dated- 12 Aug 2024	26
e.	RO Water Girls Hostel IIST Report Dated- 12 Aug 2024	32
f.	RO Water IIP Building Report Dated- 12 Aug 2024.....	38
g.	Bore Well Water Basket Ball Ground Report Dated- 12 Aug 2024	44
h.	Open Well Water C-Block Report Dated- 12 Aug 2024.....	50
i.	Bore Bell Water Farming Land Report Dated- 12 Aug 2024	56
j.	Bore Well Water Khajoor Tree Report Dated- 12 Aug 2024	62
k.	Bore Bell Water Staff Flat Report Dated- 14 Aug 2024	68
l.	Drinking Water Boys Hostel Report Dated- 15 Octo 2024	80
m.	Drinking Water Girls Hostel Report Dated- 15 Octo 2024	86
n.	Drinking Water Staff Quarter Report Dated- 15 Octo 2024.....	92
6.	Geotagged Photo for Rain water harvesting	98

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7. Geotagged Photo for Borewell /Open well recharge	101
8. Geotagged Photo for Construction of tanks and bunds	102
9. Maintenance of Water Bodies and Distribution system	104
10. Geotagged Photo for Water Conservation through Sprinkler System for watering	104
11. PO of Sewage Treatment Plant (STP) Plant	108
12. Water Conservation Policy at IIST	109

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1. Water Conservation facilities available at IIST

The following Water Conservation Facilities are available in the Institute.

1. Rainwater harvesting
2. Borewell /Open well recharge
3. Construction of tanks and bunds
4. Maintenance of water bodies and distribution system in the campus

2. Consultancy Service bill for rainwater harvesting.

25/09/24
JV-53

BSR

7-C Vandana Nagar Main Road, Indore
452015
Mob No: 09827241395, Phone No. 0731
2497610

BHOOJAL SURVEY & RECHARGING

IIST College: RAU Pithampur Road, Indore
Date: 10/09/24
OUR GSTIN: 23ABTP2062H1E2N

QUOTATION

S No.	Item Description	AMOUNT
1	Consultancy Service Charges for Rainwater Harvesting Planning, Calculations and Structure Design.	10,000/-
2	Visit Charges (2 visits)	5,000/-
TOTAL		15,000/-
SGST @ 9%		1,350/-
CGST @ 9%		1,350/-
GRAND-TOTAL		17,700/-

Rs in words :- Seventeen Thousand Seven Hundred Only.

Terms & Conditions:
1.) 100 % advance by cheque along with work order.

Bank Details:-
Syndicate Bank Kanadiga Road Indore
A/c No. 7803 307 000 2555
IFSC code SYNB 0007803
Beneficiary :- Bhoojal Survey & Recharging

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For Bhoojal Survey & Recharging

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Chief Administrative Officer



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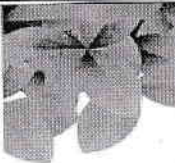

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3. Rainwater Harvesting Report (2023-2024)



Indore Institute of Science & Technology
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Rain Water Harvesting Project at Indore Institute of Science and Technology Report (2023-2024)

In the year 2018-2019 IIST started initiative for water harvesting project, that completed in three Phases-

- Phase- I - Utilizing Roof water.
- Phase - II - Construction of Injection Bore well inside Existing Open Well near Transformer Yard (Generator Room)
- Phase - III - Utilizing storm water of existing Nallah.

Phase- I

Projected Collection and Utilization of Roof Water from IIST (ALL Blocks)
Total roof area is 3357 m² including 2657 m² is considered for ground water recharging through pits

- Roof Area = 2657 m²

Formula for calculation of Average Ground Water Recharge -
= (Area X Runoff Factor X Mean annual rainfall) / 1000


Average Ground Water Recharge = (2657 x 0.8 x 941.4) / 1000
= 2001.03 m³ / year (Projected)

Actual Collection and Utilization of Roof Water from IIST (ALL Blocks)

Rain water harvesting pits size details.

Drain deposits tank of rain water will be made from building away from 3 meters.

S. No.	Building Name	Rain harvesting Water Store Pit Point	Pit Size			Total Area 'm ² '
			L 'm'	W 'm'	H 'm'	
1.	IIST- Building	a.) A- Block Back Side	3	3	2	18
		b.) B- Block Back Side	3	3	2	18
		c.) C- Block Back Side (Pit-1)	3	3	2	18
		d.) C- Block Back Side(Pit-2)	2	2	2	08



Opp. IIM(Indore), Rau-Pithampur Road, Rau, Indore (MP) - 453331
 ☎ 822 407 1000 / 2000 / 3000 / 4000 / 5000 | Tel: (0731) 4010520 | Fax: (0731) 4010522 | Toll Free: 1800 103 3069

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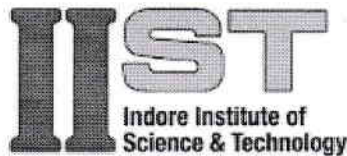
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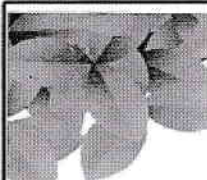


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Yearly Rainfall(in mm) trends for Indore for Year 2023

TABLE -1

YEAR	NORMAL RAINFALL (mm)	ACTUAL RAINFALL (mm)
2023	941.4	1062

Table-1 showing the total rainfall occurs at Indore in corresponding years, normal rainfall occurs 941.4mm annually in the city but according to Indian Water Resources Information System actual rainfall data is differ, shown as above.

Total water Harvested at IIST based on above rainfall data

Particular	Unit- m ³ /Year
Collecting Roof Water from IIST(Block-A) & Ground water recharge	2257.38


Formula for calculation of Average Ground Water Recharge -
 = Area X Runoff Factor X Mean annual rainfall / 1000
Total water Harvested in Year 2023
 = (2657 * 0.8 * 1062) / 1000
 = 2257.38 m³/Year

Phase-II

Projected Collection of Roof Water from IIST (Block-A) & Harvesting it into Existing Openwell

Total roof area is 3357 m², 700 m² is considered for ground water recharging through existing open well

Formula for calculation of Average Ground Water Recharge:
 = (Area X Runoff Factor X Mean annual rainfall) / 1000
 Projected average Ground Water Recharge = 700 x 0.8 x 941.4 / 1000
 = 527.18 m³/year



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Actual Collection of Roof Water from IIST (Block-A) & Harvesting it into Existing Openwell

Total water Harvested in Open Well at IIST based on above Rainfall data

Unit- m³/Year

Particular	2023
Collecting Roof Water from IIST(Block-A) & Harvesting it into Existing Open well	594.72

Formula for calculation of Average Ground Water Recharge -

$$= (\text{Area} \times \text{Runoff Factor} \times \text{Mean annual rainfall}) / 1000$$

• Total water Harvested in Year 2023

$$= (700 \times 0.8 \times 1062) / 1000$$

$$= 594.72 \text{ m}^3/\text{Year}$$

Phase-III

Projected Collection Runoff Water from Existing Nallah

$$= (90' \times 150') = 1254 \text{ m}^2$$

Formula for calculation of Average Ground Water Recharge -

$$= (\text{Area} \times \text{Runoff Factor} \times \text{Mean annual rainfall}) / 1000$$

$$\text{Average Ground Water Recharge will be} = 1254 \times 0.4 \times 941.4 / 1000$$

$$= 472.206 \text{ m}^3/\text{year}$$

Actual Collection Runoff Water from Existing Nallah

Unit- m³/Year

Particular	2023
Collecting Runoff Water from Existing Nallah	532.69

Total water Harvested in Year 2023

$$= (1254 \times 0.4 \times 1062) / 1000$$

$$= 532.69 \text{ m}^3/\text{Year}$$

Total water Harvested in year 2023 by three phases =

$$= 2257.38 + 594.72 + 532.69$$

$$= 3384.79 \text{ m}^3/\text{Year}$$

(Project In charge)



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4. Soil and Water Testing Report

मिट्टी परीक्षण सेवा योजना,
राजमाता विजयाराजे विंधिया कृषि विश्व विद्यालय,
ग्वालियर।
कृषि महाविद्यालय, इन्दौर

क्रमांक : STS/2020-21 / 32-36 दिनांक 16/07/2021

नाम :	Indore Institute of Technology (IIST)		
पता :	गाँव -	तहसील इन्दौर	जिला इन्दौर
खेत की पहचान:	R No. 37	Dist.	
Soil / Water Samples collected and supplied by the party			

मिट्टी विश्लेषण परिणाम

क्रमांक	पहचान	(pH) (1-2)	(EC) (1-2) dSm ⁻¹	Organic Carbon %	Available Nitrogen	Available Phosphorus kg/ha	Available Potash
1	Girls Hostel	1/5	7.65	0.90	0.42	184	9.6
2	Arhar 1	2/5	7.90	0.63	0.60	240	13.6
3	Arhar 2	3/5	7.97	0.49	0.52	204	11.2
4	Aonla Field	4/5	7.75	0.22	0.55	218	11.2
5	Moong	5/5	7.82	0.42	0.45	190	9.6
तुलना के लिए मध्यम स्तर		6.5-7.50	<0.80	0.50	250-400	>10	400

~~संकेत~~
हस्ताक्षर
मिट्टी परीक्षण अधिकारी
कृषि महाविद्यालय, इन्दौर

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Page 1 of 109



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5. Drinking Water Testing Report

a. RO Canteen Water Report Dated 14 Aug 2024

CERTIFICATE OF ANALYSIS							
		Issued from: Choksi Laboratories Limited (Building - 2 "Pasteur") Survey No. 9/1, Balaji Tulsiyana Industrial Estate, Kumed, Off. M.R. 10 Toif Naka, Indore - 452010 (M.P.) INDIA					
Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE Madhya Pradesh India - 453331		CoA ID: 01700490/24-25 Report No.: 01700490/24-25 (v1) Issue date: 14-08-2024 Customer Ref(s): N/M Customer ID: I1210045					
Sample Name: RO WATER (From : Canteen Building-RO) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 08-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M		Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 10-07-2024 Analysis End Date: 12-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 1 of 4					
Description :- Clear colorless liquid without suspended particles							
TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)							
Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Chemical							
1.	Colour	Hazen unit	Less than 1	NMT 5	N/M	IS 3025 (Part 4) 2021	NMT 15
2.	Odour	Not Applicable	Agreeable	Agreeable	N/M	IS 3025 (Part 5)2018	Agreeable
3.	Taste	Not Applicable	Agreeable	Agreeable	N/M	IS3025(Part -8) 2023	Agreeable
4.	Turbidity	NTU	0.3	NMT 1	N/M	IS 3025 (Part 10): 2023	NMT 5
5.	Total Dissolved Solids	mg/L	277	NMT 500	N/M	IS 3025 (Part 16): 2023	NMT 2000
6.	pH value	Not Applicable	6.8	6.5-8.5	N/M	IS 3025 (Part 11) 2022	No Relaxation
7.	Total Hardness (as CaCO ₃)	mg/L	124.8	NMT 200	N/M	IS 3025 (Part-21): 2009	NMT 600
8.	Calcium (asCa)	mg/L	43.7	NMT 75	N/M	IS3025 (Part 40)1991	NMT 200
9.	Boron (as B)	mg/L	Not Detected	NMT 0.5	0.04	Annexure H of IS13428-2005	No Relaxation
10.	Chloride (as Cl)	mg/L	10.1	NMT 250	N/M	IS3025 (Part 32)1988	NMT 1000
11.	Sulphate (as SO ₄)	mg/L	7.1	NMT 200	1.0	IS 3025 (Part 24)1986	NMT 400
		IDR00336 14-08-2024 11:54:35 Authorised Signatory			IDR01250 14-08-2024 12:25:44 QA Approver		
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Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP. IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331	CoA ID: 01700490/24-25 Report No.: 01700490/24-25 (v1) Issue date: 14-08-2024 Customer Ref(s): N/M Customer ID: I1210045
Sample Name: RO WATER (From : Canteen Building-RO) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 08-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M	Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 10-07-2024 Analysis End Date: 12-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 2 of 4
Description :- Clear colorless liquid without suspended particles	

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
12.	Nitrate (asNO ₃)	mg/L	0.57	NMT 45	0.1	IS3025 (Part 34)1988	No Relaxation
13.	Fluoride (asF)	mg/L	Less than 0.1	NMT 1.0	0.1	IS3025 (Part 60) 2008	NMT 1.5
14.	Phenolic Compounds(asC ₆ H ₅ OH)	mg/L	Not Detected	NMT 0.001	0.001	IS3025 (Part 43)1992	NMT 0.002
15.	Ammonia (as Total ammonia - N)	mg/L	0.02	NMT 0.5	0.01	IS 3025 (Part 34) 1988	No Relaxation
16.	Chloramines (as Cl ₂)	mg/L	Not detected	NMT 4.0	0.05	APHA (4500-CL)F	No Relaxation
17.	Sulphide (asH ₂ S)	mg/L	Less than 0.05	NMT 0.05	0.05	IS3025 (Part 29) 2022	No Relaxation
18.	Cyanide (asCN)	mg/L	Not Detected	NMT 0.05	0.008	IS 3025(Part 27)1986	No Relaxation
19.	Anionic Detergent (asMBAS)	mg/L	Not Detected	NMT 0.2	0.05	Annexure Kof IS 13428-2005	NMT 1.0
20.	Mineral oil	mg/L	Not detected	NMT 1.0	0.1	IS 3025 (Part-39) 2021	No Relaxation
21.	Residual free chlorine(as Cl ₂)	ppm	Not detected	NLT 0.2	0.05	APHA (4500-CL)F	NLT 1
22.	Total Alkalinity(asCaCO ₃)	mg/L	171.8	NMT 200	N/M	IS3025 (Part 23) : 2023	NMT 600
23.	Magnesium (asMg)	mg/L	3.8	NMT 30	N/M	IS 3025 (Part 46) 2023	NMT 100

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Heavy Metal							
1.	Copper, as Cu	mg/L	Below Detection Limit	NMT 0.05	0.00510	APHA 3125B	NMT 1.5



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Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
2.	Iron, as Fe	mg/L	Not Detected	NMT 1	0.00510	APHA 3125B	NMT 0.3
3.	Manganese, as Mn	mg/L	Below Detection Limit	NMT 0.1	0.00510	APHA 3125B	NMT 0.3
4.	Mercury, as Hg	mg/L	Not Detected	NMT 0.001	0.00051	APHA 3125B	No Relaxation
5.	Cadmium, as Cd	mg/L	Not Detected	NMT 0.003	0.00255	APHA 3125B	No Relaxation
6.	Selenium, as Se	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No Relaxation
7.	Total arsenic, as As	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No Relaxation
8.	Barium, as Ba	mg/L	Below Detection Limit	NMT 0.7	0.00510	APHA 3125B	No Relaxation
9.	Molybdenum, as Mo	mg/L	Below Detection Limit	NMT 0.07	0.00510	APHA 3125B	No Relaxation
10.	Nickel, as Ni	mg/L	Not Detected	NMT 0.02	0.00510	APHA 3125B	No Relaxation
11.	Silver, as Ag	mg/L	Below Detection Limit	NMT 0.1	0.00510	APHA 3125B	No Relaxation
12.	Lead, as Pb	mg/L	Not Detected	NMT 0.01	0.00510	APHA 3125B	No Relaxation
13.	Zinc, as Zn	mg/L	0.01	NMT 5	0.00510	APHA 3125B	NMT 15
14.	Total Chromium, as Cr	mg/L	Not Detected	NMT 0.05	0.00510	APHA 3125 B	No Relaxation
15.	Aluminium, as Al	mg/L	0.05	NMT 0.03	0.00510	APHA 3125B	NMT 0.2

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Biological							
1.	Escherichia coli	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185-2016	Should not be detected
2.	Total Coliform	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185:2016	Should not be detected

[End of Report]



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Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331	CoA ID: 01700490/24-25 Report No.: 01700490/24-25 (v1) Issue date: 14-08-2024 Customer Ref(s): N/M Customer ID: I210045
Sample Name: RO WATER (From : Canteen Building-RO) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 08-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M	Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 10-07-2024 Analysis End Date: 12-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 4 of 4

Description :- Clear colorless liquid without suspended particles

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Remarks:

1. Sample not drawn by CLL representative and sample information as furnished by customer.
2. Test report shall not be reproduced either in part or in full, without written approval of CLL Management.
3. MDL Refer to Method Detection Limit
4. It is recommended that the acceptable limit (specification) 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 up to the limits indicated under 'permissible' limit in the absence of alternate source. , above which the source will have to be rejected.
5. Free Residual Chlorine Limit To be applicable only when water is chlorinated.
6. pH value is reported as at 25 °C.
7. Subject to terms and conditions mentioned at the end of the CoA.
8. The certificate refers only the particular item tested and reported parameters submitted for analysis .



IDR00336
14-08-2024 11:54:35

Authorised Signatory

IDR01250
14-08-2024 12:25:44

QA Approver

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For IIST/ IIP/ IIMR

Chief Administrative Officer



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Indore Institute of Science
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Monday, 23 December 2024



Indore Institute of Science & Technology

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IMPORTANT INFORMATION FOR CERTIFICATE OF ANALYSIS (CoA) / CERTIFICATE OF CALIBRATION (CoC):

1. Sample(s) / Instruments are drawn and submitted by the client unless otherwise stated.
2. This certificate refers only the particular item and reported parameters submitted for calibration / analysis.
3. The results reported in this certificate are valid for the sample / instrument received as is and at the time of and under the stipulated conditions of measurement.
4. This certificate is for the customer's information only, and can neither be used in part nor in full, in any media or court of law, without prior written permission of CLL.
5. Endorsement of products is neither inferred nor implied.
6. In case of any dispute, Indore jurisdiction is applicable.
7. Perishable samples will be destroyed after testing; toxic / hazardous samples will be returned to the customer or shall be forwarded for incineration.
8. Total Liability of CLL is limited to the invoiced amount.
9. In the event, no zone is mentioned, CoA/CoC must be considered for Domestic (India) only

CLL LABS - APPROVALS / ACCREDITATIONS BY:



Note: Each CLL lab has different approvals / accreditations. Please check with the on-site BD cell for any specific registrations / submissions prior to sending test request. Your test request must mention the purpose / regulatory body / agency for which the testing is to be carried out.

CLL's SERVICE AREAS

Food & Beverages Testing Services

Agro Products (Food Raw Materials & Products, Milk & Milk Products, Agrochemicals, Fertilizers, Food Additives)

Drugs and Chemicals Testing Services:

Pharmaceuticals, Herbs, Cosmetics, Ayurvedic - Raw Materials, Formulations & Chemicals Analysis

Building Materials Testing Services:

Metals, Sand/Aggregate, Bricks, Paving Block, Cement, Paints, Minerals, PVC/HDPE Pipes, Packaging Materials & Wood Products, On-site inspection services for soil and constructions sites.

Water & Waste Water:

Drinking Water (IS:10500), Purified water for pharmaceutical use, Recreational Water, EPA / WHO Water, Water for Injections, Water for food processing, Water for dialysis etc.

Calibration Services:

Thermal, Mechanical (Mass, Volume, Speed, Pressure, Vacuum), Area / Autoclave / Steam tunnel Mapping, Electro-technical, Dimension, etc.

Other Testing, Research & Validation services:

Toys testing, Disinfectants / Sanitizers testing, Consumer products (such as Water purifiers, Sterilizers etc.), Soil investigation & analysis, Waste / Used oil for recycling / Incineration, etc.

Environment Services:

Indoor and Outdoor Monitoring for workplaces / hotels / hospitals / homes etc., Industrial monitoring - ambient and stack, River/Lake water quality survey.

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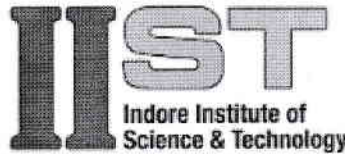
For IIST/ IIP/ IIMR

Chief Administrative Officer



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Monday, 23 December 2024



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CLL's LAB LOCATIONS

Indore Laboratory (Corporate Office & Center of Excellence) Survey No. 9/1, Balaji Tulsiyana Industrial Estate, Kumedi, Off MR10 Toll Plaza, Indore (M.P.) - 452010 Tel: +91-731-3501112 (60 lines) E-mail : bd@choksilab.com	
CLL Baroda Laboratory 829 GIDC, Makarpura Baroda - 390010 Tel: +91-265-2978001 E-mail : baroda@choksilab.com	CLL Panchkula Laboratory Plot No. 362, Industrial Area, Phase -II, Panchkula - 734 112 (Haryana) Tel: +91-172-5048600 / 01 / 02 E-mail : panchkula@choksilab.com
CLL Vapi Laboratory 32, Vibrant Business Park, Opp. UPL, N.H. - 48, Vapi, Gujarat, India 396195 Tel: +91-260-2433488, 2432715, 2432731 E-mail : vapi@choksilab.com	CLL Goa Laboratory C-18, C-20 Verna Industrial Estate, Phase - 1A, Verna - 403722, Goa (India) Tel: +91-838-0033301 / 02 / 03 / 04 E-mail : goa@choksilab.com

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Monday, 23 December 2024



Indore Institute of Science & Technology

Approved by AICTE, New Delhi, Affiliated to RGPV, Bhopal, Recognized by UGC under Section 2(f) 2023-2024

b. RO Water IIST Building Report Dated- 12 Aug 2024

CERTIFICATE OF ANALYSIS							
		Issued from: Choksi Laboratories Limited (Building - 2 "Pasteur") Survey No. 9/1, Balaji Tulsiyana Industrial Estate, Kumed, Off. M.R. 10 Toll Naka, Indore - 452010 (M.P.) INDIA					
Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331		CoA ID: 01700491/24-25 Report No.: 01700491/24-25 (v1) Issue date: 12-08-2024 Customer Ref(s): N/M Customer ID: II210045					
Sample Name: RO WATER (From : IIST Building-RO) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 08-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M		Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 1 of 4					
TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)							
Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Chemical							
1.	Colour	Hazen unit	Less than 1	NMT 5	N/M	IS 3025 (Part 4) 2021	NMT 15
2.	Odour	Not Applicable	Agreeable	Agreeable	N/M	IS 3025 (Part 5) 2018	Agreeable
3.	Taste	Not Applicable	Agreeable	Agreeable	N/M	IS3025(Part -8) 2023	Agreeable
4.	Turbidity	NTU	0.3	NMT 1	N/M	IS 3025 (Part 10): 2023	NMT 5
5.	Total Dissolved Solids	mg/L	171	NMT 500	N/M	IS 3025 (Part 16): 2023	NMT 2000
6.	pH value	Not Applicable	6.8	6.5-8.5	N/M	IS 3025 (Part 11) 2022	No Relaxation
7.	Total Hardness (as CaCO ₃)	mg/L	105.3	NMT 200	N/M	IS 3025 (Part-21): 2009	NMT 600
8.	Calcium (asCa)	mg/L	31.2	NMT 75	N/M	IS3025 (Part 40)1991	NMT 200
9.	Boron (as B)	mg/L	Not Detected	NMT 0.5	0.04	Annexure H of IS13428-2005	No Relaxation
10.	Chloride (as Cl)	mg/L	16.1	NMT 250	N/M	IS3025 (Part 32)1988	NMT 1000
11.	Sulphate (as SO ₄)	mg/L	4.7	NMT 200	1.0	IS 3025 (Part 24)1986	NMT 400
12.	Nitrate (asNO ₃)	mg/L	9.6	NMT 45	0.1	IS3025 (Part 34)1988	No Relaxation
13.	Fluoride (asF)	mg/L	Less than 0.1	NMT 1.0	0.1	IS3025 (Part 60) 2008	NMT 1.5
		IDR00012 12-08-2024 16:01:04 Authorised Signatory			IDR01250 12-08-2024 16:08:23 QA Approver		
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For IIST/ IIP/ IIMR

Chief Administrative Officer



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Indore Institute of Science and Technology

Monday, 23 December 2024



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Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331	CoA ID: 01700491/24-25 Report No.: 01700491/24-25 (v1) Issue date: 12-08-2024 Customer Ref(s): N/M Customer ID: I1210045
Sample Name: RO WATER (From : IIST Building-RO) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 08-07-2024 Batch Number: N/M Batch Size: N/M A. R. Number: N/M Expiry / Retest Date: N/M	Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 2 of 4

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
14.	Phenolic Compounds(asC6H5OH)	mg/L	Not Detected	NMT 0.001	0.001	IS3025 (Part 43)1992	NMT 0.002
15.	Ammonia (as Total ammonia - N)	mg/L	0.02	NMT 0.5	0.01	IS 3025 (Part 34) 1988	No Relaxation
16.	Chloramines (as Cl2)	mg/L	Not Detected	NMT 4.0	0.05	APHA (4500-CL)F	No Relaxation
17.	Sulphide (asH2S)	mg/L	Less than 0.05	NMT 0.05	0.05	IS3025 (Part 29) 2022	No Relaxation
18.	Cyanide (asCN)	mg/L	Not Detected	NMT 0.05	0.008	IS 3025(Part 27)1986	No Relaxation
19.	Anionic Detergent (asMBA5)	mg/L	Not Detected	NMT 0.2	0.05	Annexure Kof IS 13428-2005	NMT 1.0
20.	Mineral oil	mg/L	Not Detected	NMT 1.0	0.1	IS 3025 (Part-39) 2021	No Relaxation
21.	Residual free chlorine(as cl2)	ppm	Not detected	NLT 0.2	0.05	APHA (4500-CL)F	NLT 1
22.	Total Alkalinity(asCaCO3)	mg/L	132.8	NMT 200	N/M	IS3025 (Part 23) : 2023	NMT 600
23.	Magnesium (asMg)	mg/L	6.6	NMT 30	N/M	IS 3025 (Part 46) 2023	NMT 100

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Heavy Metal							
1.	Copper, as Cu	mg/L	0.01	NMT 0.05	0.00510	APHA 3125B	NMT 1.5
2.	Iron, as Fe	mg/L	Below Detection Limit	NMT 1	0.00510	APHA 3125B	NMT 0.3
3.	Manganese, as Mn	mg/L	Below Detection Limit	NMT 0.1	0.00510	APHA 3125B	NMT 0.3
4.	Mercury, as Hg	mg/L	Not Detected	NMT 0.001	0.00051	APHA 3125B	No Relaxation
5.	Cadmium, as Cd	mg/L	Not Detected	NMT 0.003	0.00255	APHA 3125B	No Relaxation
6.	Selenium, as Se	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No Relaxation



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12-08-2024 16:01:04

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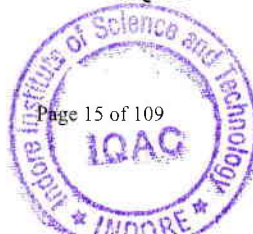
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For IIST/ IIP/ IIRs

Chief Administrative Officer



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Indore Institute of Science and Technology, Indore
Monday, 23 December 2024



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TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
7.	Total arsenic, as As	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No Relaxation
8.	Barium, as Ba	mg/L	Below Detection Limit	NMT 0.7	0.00510	APHA 3125B	No Relaxation
9.	Molybdenum, as Mo	mg/L	Below Detection Limit	NMT 0.07	0.00510	APHA 3125B	No Relaxation
10.	Nickel, as Ni	mg/L	Not Detected	NMT 0.02	0.00510	APHA 3125B	No Relaxation
11.	Silver, as Ag	mg/L	Below Detection Limit	NMT 0.1	0.00510	APHA 3125B	No Relaxation
12.	Lead, as Pb	mg/L	Not Detected	NMT 0.01	0.00510	APHA 3125B	No Relaxation
13.	Zinc, as Zn	mg/L	0.04	NMT 5	0.00510	APHA 3125B	NMT 15
14.	Total Chromium, as Cr	mg/L	Not Detected	NMT 0.05	0.00510	APHA 3125 B	No Relaxation
15.	Aluminium, as Al	mg/L	Not Detected	NMT 0.03	0.00510	APHA 3125B	NMT 0.2

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Biological							
1.	Escherichia coli	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185-2016	Should not be detected
2.	Total Coliform	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185:2016	Should not be detected

[End of Report]

Remarks:

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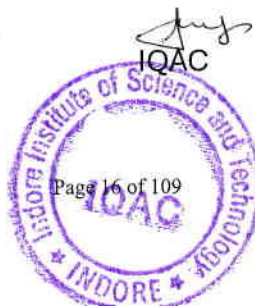
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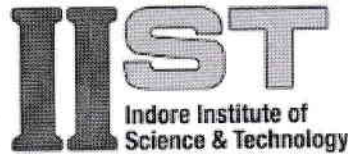
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Indore Institute of Science and Technology, Indore
Monday, 23-December-2024



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- Subject to terms and conditions mentioned at the end of the CoA.



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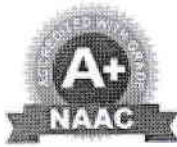
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Indore Institute of Science
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Monday, 23 December 2024



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4. This certificate is for the customer's information only, and can neither be used in part nor in full, in any media or court of law, without prior written permission of CLL.
5. Endorsement of products is neither inferred nor implied.
6. In case of any dispute, Indore jurisdiction is applicable.
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Drugs and Chemicals Testing Services:

Pharmaceuticals, Herbals, Cosmetics, Ayurvedic - Raw Materials, Formulations & Chemicals Analysis

Building Materials Testing Services:

Metals, Sand/Aggregate, Bricks, Paving Block, Cement, Paints, Minerals, PVC/HDPE Pipes, Packaging Materials & Wood Products, On-site inspection services for soil and constructions sites.

Water & Waste Water:

Drinking Water (IS:10500), Purified water for pharmaceutical use, Recreational Water, EPA / WHO Water, Water for Injections, Water for food processing, Water for dialysis etc.

Calibration Services:

Thermal, Mechanical (Mass, Volume, Speed, Pressure, Vacuum), Area / Autoclave / Steam tunnel Mapping, Electro-technical, Dimension, etc.

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For IIST/ IIP/ IIMR

Chief Administrative Officer



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CLL's LAB LOCATIONS

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CLL Baroda Laboratory 829 GIDC, Makarpura Baroda - 390010 Tel: +91-265-2978001 E-mail : baroda@choksilab.com	CLL Panchkula Laboratory Plot No. 362, Industrial Area, Phase -II, Panchkula - 734 112 (Haryana) Tel: +91-172-5048600 / 01 / 02 E-mail : panchkula@choksilab.com
CLL Vapi Laboratory 32, Vibrant Business Park, Opp. UPL, N.H. - 48, Vapi, Gujarat, India 396195 Tel: +91-260-2433488, 2432715, 2432731 E-mail : vapi@choksilab.com	CLL Goa Laboratory C-18, C-20 Verna Industrial Estate, Phase - 1A, Verna - 403722, Goa (India) Tel: +91-838-0033301 / 02 / 03 / 04 E-mail : goa@choksilab.com

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Chief Administrative Officer







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c. RO Water Boys Hostel IIST Report Dated- 12 Aug 2024

CERTIFICATE OF ANALYSIS							
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Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331		CoA ID: 01700492/24-25 Report No.: 01700492/24-25 (v1) Issue date: 12-08-2024 Customer Ref(s): N/M Customer ID: I1210045					
Sample Name: RO WATER (From : Boys Hostel Building-RO) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 08-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M		Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 1 of 4					
Description :- Clear colorless liquid without suspended particles							
TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)							
Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Chemical							
1.	Colour	Hazen unit	Less than 1	NMT 5	N/M	IS 3025 (Part 4) 2021	NMT 15
2.	Odour	Not Applicable	Agreeable	Agreeable	N/M	IS 3025 (Part 5) 2018	Agreeable
3.	Taste	Not Applicable	Agreeable	Agreeable	N/M	IS3025(Part -8) 2023	Agreeable
4.	Turbidity	NTU	0.4	NMT 1	N/M	IS 3025 (Part 10): 2023	NMT 5
5.	Total Dissolved Solids	mg/L	287	NMT 500	N/M	IS 3025 (Part 16): 2023	NMT 2000
6.	pH value	Not Applicable	6.7	6.5-8.5	N/M	IS 3025 (Part 11) 2022	No Relaxation
7.	Total Hardness (as CaCo3)	mg/L	167.5	NMT 200	N/M	IS 3025 (Part-21): 2009	NMT 600
8.	Calcium (asCa)	mg/L	56.2	NMT 75	N/M	IS3025 (Part 40)1991	NMT 200
9.	Boron (as B)	mg/L	Not Detected	NMT 0.5	0.04	Annexure H of IS13428-2005	No Relaxation
10.	Chloride (as Cl)	mg/L	20.1	NMT 250	N/M	IS3025 (Part 32)1988	NMT 1000
11.	Sulphate (as SO4)	mg/L	6.5	NMT 200	1.0	IS 3025 (Part 24)1986	NMT 400
		IDR00012 12-08-2024 15:55:43 Authorised Signatory			IDR01250 12-08-2024 16:24:10 QA Approver		
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Principal

For IIST/ IIP/ IIMR

Chief Administrative Officer



Indore Institute of Science and Technology, Indore

Monday, 23 December 2024



CERTIFICATE OF ANALYSIS



Issued from:
Choksi Laboratories Limited (Building - 2 "Pasteur")
Survey No. 9/1, Balaji Tulsiyana Industrial Estate,
Kumedi, Off. M.R. 10 Toll Naka,
Indore - 452010 (M.P.) INDIA

Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331	CoA ID: 01700492/24-25 Report No.: 01700492/24-25 (v1) Issue date: 12-08-2024 Customer Ref(s): N/M Customer ID: I1210045
Sample Name: RO WATER (From : Boys Hostel Building-RO) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 08-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M	Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 2 of 4
Description :- Clear colorless liquid without suspended particles	

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
12.	Nitrate (asNO3)	mg/L	6.1	NMT 45	0.1	IS3025 (Part 34)1988	No Relaxation
13.	Fluoride (asF)	mg/L	Less than 0.1	NMT 1.0	0.1	IS3025 (Part 60) 2008	NMT 1.5
14.	Phenolic Compounds(asC6H5OH)	mg/L	Not Detected	NMT 0.001	0.001	IS3025 (Part 43)1992	NMT 0.002
15.	Ammonia (as Total ammonia - N)	mg/L	0.02	NMT 0.5	0.01	IS 3025 (Part 34) 1988	No Relaxation
16.	Chloramines (as Cl2)	mg/L	Not Detected	NMT 4.0	0.05	APHA (4500-CL)F	No Relaxation
17.	Sulphide (asH2S)	mg/L	Less than 0.05	NMT 0.05	0.05	IS3025 (Part 29) 2022	No Relaxation
18.	Cyanide (asCN)	mg/L	Not Detected	NMT 0.05	0.008	IS 3025(Part 27)1986	No Relaxation
19.	Anionic Detergent (asMBAS)	mg/L	Not Detected	NMT 0.2	0.05	Annexure Kof IS 13428-2005	NMT 1.0
20.	Mineral oil	mg/L	Not Detected	NMT 1.0	0.1	IS 3025 (Part-39) 2021	No Relaxation
21.	Residual free chlorine(as cl2)	ppm	Not detected	NLT 0.2	0.05	APHA (4500-CL)F	NLT 1
22.	Total Alkalinity(asCaCO3)	mg/L	238.2	NMT 200	N/M	IS3025 (Part 23) : 2023	NMT 600
23.	Magnesium (asMg)	mg/L	6.6	NMT 30	N/M	IS 3025 (Part 46) 2023	NMT 100

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Heavy Metal							
1.	Copper, as Cu	mg/L	Below Detection Limit	NMT 0.05	0.00510	APHA 3125B	NMT 1.5



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12-08-2024 16:24:10

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For IIST/ IIP/ IIMR

Chief Administrative Officer



Principal

Indore Institute of Science

Technology, Indore
Monday, 23 December 2024



Indore Institute of Science & Technology

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CERTIFICATE OF ANALYSIS



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Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331	CoA ID: 01700492/24-25 Report No.: 01700492/24-25 (v1) Issue date: 12-08-2024 Customer Ref(s): N/M Customer ID: H210045
Sample Name: RO WATER (From : Boys Hostel Building-RO) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 08-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M	Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 3 of 4
Description :- Clear colorless liquid without suspended particles	

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
2.	Iron, as Fe	mg/L	Not Detected	NMT 1.0	0.00510	APHA 3125B	No Relaxation
3.	Manganese, as Mn	mg/L	Below Detection Limit	NMT 0.1	0.00510	APHA 3125B	NMT 0.3
4.	Mercury, as Hg	mg/L	Not Detected	NMT 0.001	0.00051	APHA 3125B	No Relaxation
5.	Cadmium, as Cd	mg/L	Not Detected	NMT 0.003	0.00255	APHA 3125B	No Relaxation
6.	Selenium, as Se	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No Relaxation
7.	Total arsenic, as As	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No Relaxation
8.	Barium, as Ba	mg/L	0.01	NMT 0.7	0.00510	APHA 3125B	No Relaxation
9.	Molybdenum, as Mo	mg/L	Below Detection Limit	NMT 0.07	0.00510	APHA 3125B	No Relaxation
10.	Nickel, as Ni	mg/L	Not Detected	NMT 0.02	0.00510	APHA 3125B	No Relaxation
11.	Silver, as Ag	mg/L	Below Detection Limit	NMT 0.1	0.00510	APHA 3125B	No Relaxation
12.	Lead, as Pb	mg/L	Not Detected	NMT 0.01	0.00510	APHA 3125B	No Relaxation
13.	Zinc, as Zn	mg/L	0.01	NMT 5	0.00510	APHA 3125B	NMT 15
14.	Total Chromium, as Cr	mg/L	Not Detected	NMT 0.05	0.00510	APHA 3125 B	No Relaxation
15.	Aluminium, as Al	mg/L	Not Detected	NMT 0.03	0.00510	APHA 3125B	NMT 0.2

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Biological							
1.	Escherichia coli	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185-2016	Should not be detected
2.	Total Coliform	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185:2016	Should not be detected

[End of Report]



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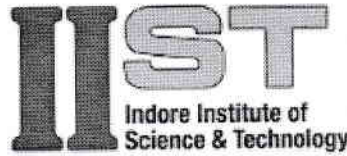
For IIST/ IIR/ IIMR

Chief Administrative Officer



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Indore Institute of Science and Technology, Indore
Monday, 23 December 2024



Indore Institute of Science & Technology

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CERTIFICATE OF ANALYSIS



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Choksi Laboratories Limited (Building - 2 "Pasteur")
Survey No. 9/1, Balaji Tulsiyana Industrial Estate,
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Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE Madhya Pradesh India - 453331	CoA ID: 01700492/24-25 Report No.: 01700492/24-25 (v1) Issue date: 12-08-2024 Customer Ref(s): N/M Customer ID: I1210045
Sample Name: RO WATER (From : Boys Hostel Building-RO) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 08-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M	Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 4 of 4

Description :- Clear colorless liquid without suspended particles

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Remarks:

1. Sample not drawn by CLL representative and sample information as furnished by customer.
2. Test report shall not be reproduced either in part or in full, without written approval of CLL Management.
3. MDL Refer to Method Detection Limit
4. It is recommended that the acceptable limit (specification) 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 up to the limits indicated under 'permissible' limit in the absence of alternate source. , above which the source will have to be rejected.
5. Free Residual Chlorine Limit To be applicable only when water is chlorinated.
6. pH value is reported as at 25 °C.
7. Subject to terms and conditions mentioned at the end of the CoA.
8. The certificate refers only the particular item tested and reported parameters submitted for analysis .



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Chief Administrative Officer



Principal

Indore Institute of Science
& Technology, Indore

Monday, 23 December 2024



IMPORTANT INFORMATION FOR CERTIFICATE OF ANALYSIS (CoA) / CERTIFICATE OF CALIBRATION (CoC):

1. Sample(s) / Instruments are drawn and submitted by the client unless otherwise stated.
2. This certificate refers only the particular item and reported parameters submitted for calibration / analysis.
3. The results reported in this certificate are valid for the sample / instrument received as is and at the time of and under the stipulated conditions of measurement.
4. This certificate is for the customer's information only, and can neither be used in part nor in full, in any media or court of law, without prior written permission of CLL.
5. Endorsement of products is neither inferred nor implied.
6. In case of any dispute, Indore jurisdiction is applicable.
7. Perishable samples will be destroyed after testing; toxic / hazardous samples will be returned to the customer or shall be forwarded for incineration.
8. Total Liability of CLL is limited to the invoiced amount.
9. In the event, no zone is mentioned, CoA/CoC must be considered for Domestic (India) only

CLL LABS - APPROVALS / ACCREDITATIONS BY:



Note: Each CLL lab has different approvals / accreditations. Please check with the on-site BD cell for any specific registrations / submissions prior to sending test request. Your test request must mention the purpose / regulatory body / agency for which the testing is to be carried out.

CLL's SERVICE AREAS

Food & Beverages Testing Services

Agro Products (Food Raw Materials & Products, Milk & Milk Products, Agrochemicals, Fertilizers, Food Additives)

Drugs and Chemicals Testing Services:

Pharmaceuticals, Herbs, Cosmetics, Ayurvedic - Raw Materials, Formulations & Chemicals Analysis

Building Materials Testing Services:

Metals, Sand/Aggregate, Bricks, Paving Block, Cement, Paints, Minerals, PVC/HDPE Pipes, Packaging Materials & Wood Products, On-site inspection services for soil and constructions sites.

Water & Waste Water:

Drinking Water (IS:10500), Purified water for pharmaceutical use, Recreational Water, EPA / WHO Water, Water for Injections, Water for food processing, Water for dialysis etc.

Calibration Services:

Thermal, Mechanical (Mass, Volume, Speed, Pressure, Vacuum), Area / Autoclave / Steam tunnel Mapping, Electro-technical, Dimension, etc.

Other Testing, Research & Validation services:

Toys testing, Disinfectants / Sanitizers testing, Consumer products (such as Water purifiers, Sterilizers etc.), Soil investigation & analysis, Waste / Used oil for recycling / incineration, etc.

Environment Services:

Indoor and Outdoor Monitoring for workplaces / hotels / hospitals / homes etc., Industrial monitoring - ambient and stack, River/Lake water quality survey.

Admin

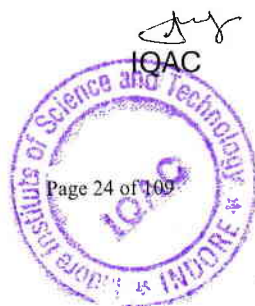
IOAC

Principal

Indore Institute of Science
& Technology, Indore

Monday, 23 December 2024

For IIST/ IIP/ IIMR
Chief Administrative Officer





Indore Institute of Science & Technology

Approved by AICTE, New Delhi, Affiliated to RGPV, Bhopal, Recognized by UGC under Section 2(f) 2023-2024

CLL's LAB LOCATIONS

Indore Laboratory (Corporate Office & Center of Excellence) Survey No. 9/1, Balaji Tulsiyana Industrial Estate, Kumedi, Off MR10 Toll Plaza, Indore (M.P.) - 452010 Tel: +91-731-3501112 (60 lines) E-mail : bd@choksilab.com	
CLL Baroda Laboratory 829 GIDC, Makarpura Baroda - 390010 Tel: +91-265-2978001 E-mail : baroda@choksilab.com	CLL Panchkula Laboratory Plot No. 362, Industrial Area, Phase -II, Panchkula - 734 112 (Haryana) Tel: +91-172-5048600 / 01 / 02 E-mail : panchkula@choksilab.com
CLL Vapi Laboratory 32, Vibrant Business Park, Opp, UPL, N.H. - 48, Vapi, Gujarat, India 396195 Tel: +91-260-2433488, 2432715, 2432731 E-mail : vapi@choksilab.com	CLL Goa Laboratory C-18, C-20 Verna Industrial Estate, Phase - 1A, Verna - 403722, Goa (India) Tel: +91-838-0033301 / 02 / 03 / 04 E-mail : goa@choksilab.com

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Chief Administrative Officer

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Indore Institute of Science and Technology Indore



Monday, 23 December 2024



Indore Institute of Science & Technology

Approved by AICTE, New Delhi, Affiliated to RGPV, Bhopal, Recognized by UGC under Section 2(f) 2023-2024


d. RO Water IIST Building Report Dated- 12 Aug 2024

CERTIFICATE OF ANALYSIS							
		Issued from: Choksi Laboratories Limited (Building - 2 "Pasteur") Survey No. 9/1, Balaji Tulsiyana Industrial Estate, Kumed, Off. M.R. 10 Toll Naka, Indore - 452010 (M.P.) INDIA					
Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331		CoA ID: 01700493/24-25 Report No.: 01700493/24-25 (v1) Issue date: 12-08-2024 Customer Ref(s): N/M Customer ID: I1210045					
Sample Name: RO WATER (From : IIMR Building-RO) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 08-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M		Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 1 of 4					
Test specification as per IS 10500:2012 (Amendment-4)							
TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)							
Description :- Clear colorless liquid without suspended particles							
Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Chemical							
1.	Colour	Hazen unit	Less than 1	NMT 5	N/M	IS 3025 (Part 4) 2021	NMT 15
2.	Odour	Not Applicable	Agreeable	Agreeable	N/M	IS 3025 (Part 5) 2018	Agreeable
3.	Taste	Not Applicable	Agreeable	Agreeable	N/M	IS 3025 (Part -8) 2023	Agreeable
4.	Turbidity	NTU	0.4	NMT 1	N/M	IS 3025 (Part 10) 2023	NMT 5
5.	Total Dissolved Solids	mg/L	140	NMT 500	N/M	IS 3025 (Part 16) 2023	NMT 2000
6.	pH value	Not Applicable	6.8	6.5-8.5	N/M	IS 3025 (Part 11) 2022	No Relaxation
7.	Total Hardness (as CaCo3)	mg/L	97.5	NMT 200	N/M	IS 3025 (Part-21) 2009	NMT 600
8.	Calcium (asCa)	mg/L	28.1	NMT 75	N/M	IS 3025 (Part 40) 1991	NMT 200
9.	Boron (as B)	mg/L	Not Detected	NMT 0.5	0.04	Annexure H of IS 13428-2005	NMT 1.0
10.	Chloride (as Cl)	mg/L	14.1	NMT 250	N/M	IS 3025 (Part 32) 1988	NMT 1000
11.	Sulphate (as SO4)	mg/L	5.1	NMT 200	1.0	IS 3025 (Part 24) 1986	NMT 400
		IDR00336 10-08-2024 16:40:47 Authorised Signatory			IDR01250 12-08-2024 09:29:35 QA Approver		
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 For IIST/ IIP, IIMR

 Chief Administrative Officer




 Principal
 Indore Institute of Science and Technology, Indore
 Monday, 23 December 2024



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Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331	CoA ID: 01700493/24-25 Report No.: 01700493/24-25 (v1) Issue date: 12-08-2024 Customer Ref(s): N/M Customer ID: I1210045
Sample Name: RO WATER (From : IIMR Building-RO) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 08-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M	Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 2 of 4

Test specification as per IS 10500:2012 (Amendment-4)

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
12.	Nitrate (asNO3)	mg/L	6.4	NMT 45	0.1	IS3025 (Part 34)1988	No Relaxation
13.	Fluoride (asF)	mg/L	Less than 0.1	NMT 1.0	0.1	IS3025 (Part 60) 2008	NMT 1.5
14.	Phenolic Compounds(asC6H5OH)	mg/L	Not Detected	NMT 0.001	0.001	IS3025 (Part 43)1992	NMT 0.002
15.	Ammonia (as Total ammonia - N)	mg/L	0.02	NMT 0.5	0.01	IS 3025 (Part 34) 1988	No relaxation
16.	Chloramines (as Cl2)	mg/L	Not Detected	NMT 4.0	0.05	APHA (4500-CL)F	No relaxation
17.	Sulphide (asH2S)	mg/L	Less than 0.05	NMT 0.05	0.05	IS3025 (Part 29) 2022	No relaxation
18.	Cyanide (asCN)	mg/L	Not Detected	NMT 0.05	0.008	IS 3025(Part 27)1986	No Relaxation
19.	Anionic Detergent (asMBAS)	mg/L	Not Detected	NMT 0.2	0.05	Annexure Kof IS 13428-2005	NMT 1.0
20.	Mineral oil	mg/L	Not Detected	NMT 1.0	0.1	IS 3025 (Part-39) 2021	No Relaxation
21.	Residual free chlorine(as cl2)	ppm	Not detected	NLT 0.2	0.05	APHA (4500-CL)F	NLT 1
22.	Total Alkalinity(asCaCO3)	mg/L	25	NMT 200	N/M	IS3025 (Part 23) : 2023	NMT 600
23.	Magnesium (asMg)	mg/L	6.6	NMT 30	N/M	IS 3025 (Part 46) 2023	NMT 100

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Heavy Metal							
1.	Copper, as Cu	mg/L	Below Detection Limit	NMT 0.05	0.00510	APHA 3125B	NMT 1.5



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10-08-2024 16:40:47

Authorised Signatory

IDR01250
12-08-2024 09:29:35

QA Approver

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For IIST/ IIP/ IIMR

Chief Administrative Officer

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Indore Institute of Science
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Sample Name: RO WATER (From : IIMR Building-RO) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 08-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M	Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 3 of 4

Test specification as per IS 10500:2012 (Amendment-4)

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
2.	Iron, as Fe	mg/L	Not Detected	NMT 1.0	0.00510	APHA 3125B	No relaxation
3.	Manganese, as Mn	mg/L	Below Detection Limit	NMT 0.1	0.00510	APHA 3125B	NMT 0.3
4.	Mercury, as Hg	mg/L	Not Detected	NMT 0.001	0.00051	APHA 3125B	No relaxation
5.	Cadmium, as Cd	mg/L	Not Detected	NMT 0.003	0.00255	APHA 3125B	No relaxation
6.	Selenium, as Se	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No relaxation
7.	Total arsenic, as As	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No relaxation
8.	Barium, as Ba	mg/L	Below Detection Limit	NMT 0.7	0.00510	APHA 3125B	No relaxation
9.	Molybdenum, as Mo	mg/L	Not Detected	NMT 0.07	0.00510	APHA 3125B	No relaxation
10.	Nickel, as Ni	mg/L	Below Detection Limit	NMT 0.02	0.00510	APHA 3125B	No relaxation
11.	Silver, as Ag	mg/L	Below Detection Limit	NMT 0.1	0.00510	APHA 3125B	No relaxation
12.	Lead, as Pb	mg/L	Not Detected	NMT 0.01	0.00510	APHA 3125B	No relaxation
13.	Zinc, as Zn	mg/L	0.04	NMT 5	0.00510	APHA 3125B	NMT 15
14.	Total Chromium, as Cr	mg/L	Below Detection Limit	NMT 0.05	0.00510	APHA 3125 B	No relaxation
15.	Aluminium, as Al	mg/L	Not Detected	NMT 0.03	0.00510	APHA 3125B	NMT 0.2

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Biological							
1.	Escherichia coli	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185-2016	Should not be detected
2.	Total Coliform	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185:2016	Should not be detected

[End of Report]



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QA Approver

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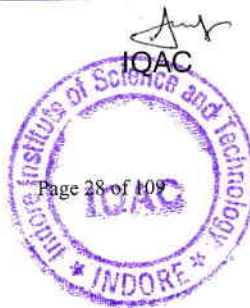
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IOAC

Principal

For IIST/ IIP/ IIMR

Chief Administrative Officer



Indore Institute of Science
& Technology, Indore
Monday, 23 December 2024



Indore Institute of Science & Technology

Approved by AICTE, New Delhi, Affiliated to RGPV, Bhopal, Recognized by UGC under Section 2(f) 2023-2024

CERTIFICATE OF ANALYSIS



Issued from:
Choksi Laboratories Limited (Building - 2 "Pasteur")
Survey No. 9/1, Balaji Tulsiyana Industrial Estate,
Kumedi, Off. M.R. 10 Toll Naka,
Indore - 452010 (M.P.) INDIA

Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP. IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331	CoA ID: 01700493/24-25 Report No.: 01700493/24-25 (v1) Issue date: 12-08-2024 Customer Ref(s): N/M Customer ID: I1210045
Sample Name: RO WATER (From : IIMR Building-RO) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 08-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M	Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 4 of 4

Test specification as per IS 10500:2012 (Amendment-4)

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Remarks:

1. Sample not drawn by CLL representative and sample information as furnished by customer.
2. Test report shall not be reproduced either in part or in full, without written approval of CLL Management.
3. MDL Refer to Method Detection Limit
4. It is recommended that the acceptable limit (specification) 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 up to the limits indicated under 'permissible' limit in the absence of alternate source. , above which the source will have to be rejected.
5. Free Residual Chlorine Limit To be applicable only when water is chlorinated.
6. pH value is reported as at 25 °C.
7. Subject to terms and conditions mentioned at the end of the CoA.
8. The certificate refers only the particular item tested and reported parameters submitted for analysis .



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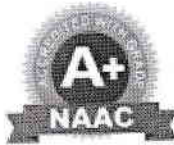
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Monday, 23 December 2024



IMPORTANT INFORMATION FOR CERTIFICATE OF ANALYSIS (CoA) / CERTIFICATE OF CALIBRATION (CoC):

1. Sample(s) / Instruments are drawn and submitted by the client unless otherwise stated.
2. This certificate refers only the particular item and reported parameters submitted for calibration / analysis.
3. The results reported in this certificate are valid for the sample / instrument received as is and at the time of and under the stipulated conditions of measurement.
4. This certificate is for the customer's information only, and can neither be used in part nor in full, in any media or court of law, without prior written permission of CLL.
5. Endorsement of products is neither inferred nor implied.
6. In case of any dispute, Indore jurisdiction is applicable.
7. Perishable samples will be destroyed after testing; toxic / hazardous samples will be returned to the customer or shall be forwarded for incineration.
8. Total Liability of CLL is limited to the invoiced amount.
9. In the event, no zone is mentioned, CoA/CoC must be considered for Domestic (India) only

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CLL's SERVICE AREAS

Food & Beverages Testing Services

Agro Products (Food Raw Materials & Products, Milk & Milk Products, Agrochemicals, Fertilizers, Food Additives)

Drugs and Chemicals Testing Services:

Pharmaceuticals, Herbs, Cosmetics, Ayurvedic - Raw Materials, Formulations & Chemicals Analysis

Building Materials Testing Services:

Metals, Sand/Aggregate, Bricks, Paving Block, Cement, Paints, Minerals, PVC/HDPE Pipes, Packaging Materials & Wood Products, On-site inspection services for soil and constructions sites.

Water & Waste Water:

Drinking Water (IS:10500), Purified water for pharmaceutical use, Recreational Water, EPA / WHO Water, Water for Injections, Water for food processing, Water for dialysis etc.

Calibration Services:

Thermal, Mechanical (Mass, Volume, Speed, Pressure, Vacuum), Area / Autoclave / Steam tunnel Mapping, Electro-technical, Dimension, etc.

Other Testing, Research & Validation services:

Toys testing, Disinfectants / Sanitizers testing, Consumer products (such as Water purifiers, Sterilizers etc.), Soil investigation & analysis, Waste / Used oil for recycling / incineration, etc.

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Indoor and Outdoor Monitoring for workplaces / hotels / hospitals / homes etc., Industrial monitoring - ambient and stack, River/Lake water quality survey.

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For IIST/ IIP/ IIMR

Chief Administrative Officer

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CLL's LAB LOCATIONS

Indore Laboratory (Corporate Office & Center of Excellence) Survey No. 9/1, Balaji Tulsiyana Industrial Estate, Kumed, Off MR10 Toll Plaza, Indore (M.P.) - 452010 Tel: +91-731-3501112 (60 lines) E-mail : bd@choksilab.com	
CLL Baroda Laboratory 829 GIDC, Makarpura Baroda - 390010 Tel: +91-265-2978001 E-mail : baroda@choksilab.com	CLL Panchkula Laboratory Plot No. 362, Industrial Area, Phase -II, Panchkula - 734 112 (Haryana) Tel: +91-172-5048600 / 01 / 02 E-mail : panchkula@choksilab.com
CLL Vapi Laboratory 32, Vibrant Business Park, Opp. UPL, N.H. - 48, Vapi, Gujarat, India 396195 Tel: +91-260-2433488, 2432715, 2432731 E-mail : vapi@choksilab.com	CLL Goa Laboratory C-18, C-20 Verna Industrial Estate, Phase - 1A, Verna - 403722, Goa (India) Tel: +91-838-0033301 / 02 / 03 / 04 E-mail : goa@choksilab.com

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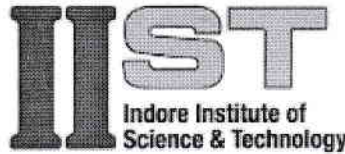
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e. RO Water Girls Hostel IIST Report Dated- 12 Aug 2024

CERTIFICATE OF ANALYSIS							
		Issued from: Choksi Laboratories Limited (Building - 2 "Pasteur") Survey No. 9/1, Balaji Tulsiyana Industrial Estate, Kumedi, Off. M.R. 10 Toll Naka, Indore - 452010 (M.P.) INDIA					
Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331		CoA ID: 01700494/24-25 Report No.: 01700494/24-25 (v1) Issue date: 12-08-2024 Customer Ref(s): N/M Customer ID: I1210045					
Sample Name: RO WATER (From : Girls Hostel Building-RO) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 08-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M		Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 1 of 4					
TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)							
Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Chemical							
1.	Colour	Hazen unit	Less than 1	NMT 5	N/M	IS 3025 (Part 4) 2021	NMT 15
2.	Odour	Not Applicable	Agreeable	Agreeable	N/M	IS 3025 (Part 5)2018	Agreeable
3.	Taste	Not Applicable	Agreeable	Agreeable	N/M	IS3025(Part -8) 2023	Agreeable
4.	Turbidity	NTU	0.3	NMT 1	N/M	IS 3025 (Part 10): 2023	NMT 5
5.	Total Dissolved Solids	mg/L	276	NMT 500	N/M	IS 3025 (Part 16): 2023	NMT 2000
6.	pH value	Not Applicable	6.8	6.5-8.5	N/M	IS 3025 (Part 11) 2022	No Relaxation
7.	Total Hardness (as CaCO3)	mg/L	156	NMT 200	N/M	IS 3025 (Part-21): 2009	NMT 600
8.	Calcium (asCa)	mg/L	51.5	NMT 75	N/M	IS3025 (Part 40)1991	NMT 200
9.	Boron (as B)	mg/L	Not Detected	NMT 0.5	0.04	Annexure H of IS13428-2005	No Relaxation
10.	Chloride (as Cl)	mg/L	18.1	NMT 250	N/M	IS3025 (Part 32)1988	NMT 1000
11.	Sulphate (as SO4)	mg/L	7.2	NMT 200	1.0	IS 3025 (Part 24)1986	NMT 400
12.	Nitrate (asNO3)	mg/L	6.7	NMT 45	0.1	IS3025 (Part 34)1988	No Relaxation
		IDR00336 12-08-2024 17:32:36 Authorised Signatory			IDR01250 12-08-2024 17:39:20 QA Approver		
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For IIST/ IIP/ IIMR

Chief Administrative Officer



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Monday, 23 December 2024



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TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
13.	Fluoride (asF)	mg/L	Less than 0.1	NMT 1.0	0.1	IS3025 (Part 60) 2008	NMT 1.5
14.	Phenolic Compounds(asC6H5OH)	mg/L	Not Detected	NMT 0.001	0.001	IS3025 (Part 43)1992	NMT 0.002
15.	Ammonia (as Total ammonia - N)	mg/L	0.02	NMT 0.5	0.01	IS 3025 (Part 34) 1988	No Relaxation
16.	Chloramines (as Cl2)	mg/L	Not Detected	NMT 4.0	0.05	APHA (4500-CL)F	No Relaxation
17.	Sulphide (asH2S)	mg/L	Less than 0.05	NMT 0.05	0.05	IS3025 (Part 29) 2022	No Relaxation
18.	Cyanide (asCN)	mg/L	Not Detected	NMT 0.05	0.008	IS 3025(Part 27)1986	No Relaxation
19.	Anionic Detergent (asMBAS)	mg/L	Not Detected	NMT 0.2	0.05	Annexure Kof IS 13428-2005	NMT 1.0
20.	Mineral oil	mg/L	Not Detected	NMT 1.0	0.1	IS 3025 (Part-39) 2021	No Relaxation
21.	Residual free chlorine(as cl2)	ppm	Not detected	NLT 0.2	0.05	APHA (4500-CL)F	NLT 1
22.	Total Alkalinity(asCaCO3)	mg/L	219.8	NMT 200	N/M	IS3025 (Part 23) : 2023	NMT 600
23.	Magnesium (asMg)	mg/L	6.6	NMT 30	N/M	IS 3025 (Part 46) 2023	NMT 100

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Heavy Metal							
1.	Copper, as Cu	mg/L	0.06	NMT 0.05	0.00510	APHA 3125B	NMT 1.5
2.	Iron, as Fe	mg/L	Not Detected	NMT 1.0	0.00510	APHA 3125B	No Relaxation
3.	Manganese, as Mn	mg/L	Below Detection Limit	NMT 0.1	0.00510	APHA 3125B	NMT 0.3



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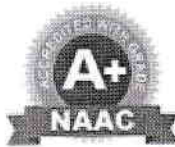
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TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
4.	Mercury, as Hg	mg/L	Not Detected	NMT 0.001	0.00051	APHA 3125B	No Relaxation
5.	Cadmium, as Cd	mg/L	Not Detected	NMT 0.003	0.00255	APHA 3125B	No Relaxation
6.	Selenium, as Se	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No Relaxation
7.	Total arsenic, as As	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No Relaxation
8.	Barium, as Ba	mg/L	Below Detection Limit	NMT 0.7	0.00510	APHA 3125B	No Relaxation
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10.	Nickel, as Ni	mg/L	Not Detected	NMT 0.02	0.00510	APHA 3125B	No Relaxation
11.	Silver, as Ag	mg/L	Not Detected	NMT 0.1	0.00510	APHA 3125B	No Relaxation
12.	Lead, as Pb	mg/L	Not Detected	NMT 0.01	0.00510	APHA 3125B	No Relaxation
13.	Zinc, as Zn	mg/L	0.01	NMT 5	0.00510	APHA 3125B	NMT 15
14.	Total Chromium, as Cr	mg/L	Not Detected	NMT 0.05	0.00510	APHA 3125 B	No Relaxation
15.	Aluminium, as Al	mg/L	0.07	NMT 0.03	0.00510	APHA 3125B	NMT 0.2

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Biological							
1.	Escherichia coli	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185-2016	Should not be detected
2.	Total Coliform	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185:2016	Should not be detected

[End of Report]

Remarks:

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- pH value is reported as at 25 °C.
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Monday, 23 December 2024



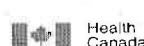
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4. This certificate is for the customer's information only, and can neither be used in part nor in full, in any media or court of law, without prior written permission of CLL.
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Other Testing, Research & Validation services:

Toys testing, Disinfectants / Sanitizers testing, Consumer products (such as Water purifiers, Sterilizers etc.), Soil investigation & analysis, Waste / Used oil for recycling / incineration, etc.

Environment Services:

Indoor and Outdoor Monitoring for workplaces / hotels / hospitals / homes etc., Industrial monitoring - ambient and stack, River/Lake water quality survey.

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For IIST/ IIP/ IIMR

Chief Administrative Officer



Principal
Principal
Indore Institute of Science
and Technology
Monday, 25 December 2024



Indore Institute of Science & Technology

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CLL's LAB LOCATIONS

Indore Laboratory (Corporate Office & Center of Excellence) Survey No. 9/1, Balaji Tulsiyana Industrial Estate, Kumedi, Off MR10 Toll Plaza, Indore (M.P.) - 452010 Tel: +91-731-3501112 (60 lines) E-mail : bd@choksilab.com	
CLL Baroda Laboratory 829 GIDC, Makarpura Baroda - 390010 Tel: +91-265-2978001 E-mail : baroda@choksilab.com	CLL Panchkula Laboratory Plot No. 362, Industrial Area, Phase -II, Panchkula - 734 112 (Haryana) Tel: +91-172-5048600 / 01 / 02 E-mail : panchkula@choksilab.com
CLL Vapi Laboratory 32, Vibrant Business Park, Opp. UPL, N.H. - 48, Vapi, Gujarat, India 396195 Tel: +91-260-2433488, 2432715, 2432731 E-mail : vapi@choksilab.com	CLL Goa Laboratory C-18, C-20 Verna Industrial Estate, Phase - 1A, Verna - 403722, Goa (India) Tel: +91-838-0033301 / 02 / 03 / 04 E-mail : goa@choksilab.com

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Page 37 of 109

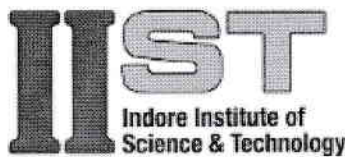
Principal

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Indore Institute of Science

and Technology, Indore

Monday, 22 December 2024



Indore Institute of Science & Technology

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f. RO Water IIP Building Report Dated- 12 Aug 2024

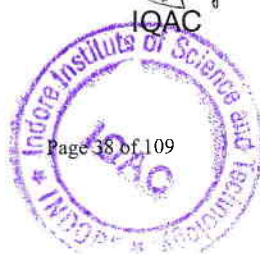
CERTIFICATE OF ANALYSIS							
		Issued from: Choksi Laboratories Limited (Building - 2 "Pasteur") Survey No. 9/1, Balaji Tulsiyana Industrial Estate, Kumedi, Off, M.R. 10 Toll Naka, Indore - 452010 (M.P.) INDIA					
Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP. IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE Madhya Pradesh India - 453331		CoA ID: 01700495/24-25 Report No.: 01700495/24-25 (v1) Issue date: 12-08-2024 Customer Ref(s): N/M Customer ID: I1210045					
Sample Name: RO WATER (From : IIP Building-RO) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 08-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M		Sample Quantity: 5 Liter+ 500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 1 of 4					
Test specification as per IS 10500:2012 (Amendment-4)							
TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)							
Description :- Clear colorless liquid without suspended particles							
Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Chemical							
1.	Colour	Hazen unit	Less than 1	NMT 5	N/M	IS 3025 (Part 4) 2021	NMT 15
2.	Odour	Not Applicable	Agreeable	Agreeable	N/M	IS 3025 (Part 5) 2018	Agreeable
3.	Taste	Not Applicable	Agreeable	Agreeable	N/M	IS 3025 (Part -8) 2023	Agreeable
4.	Turbidity	NTU	0.3	NMT 1	N/M	IS 3025 (Part 10): 2023	NMT 5
5.	Total Dissolved Solids	mg/L	150	NMT 500	N/M	IS 3025 (Part 16): 2023	NMT 2000
6.	pH value	Not Applicable	7.0	6.5-8.5	N/M	IS 3025 (Part 11) 2022	No Relaxation
7.	Total Hardness (as CaCO3)	mg/L	101.4	NMT 200	N/M	IS 3025 (Part-21): 2009	NMT 600
8.	Calcium (asCa)	mg/L	29.7	NMT 75	N/M	IS 3025 (Part 40) 1991	NMT 200
9.	Boron (as B)	mg/L	Not Detected	NMT 0.5	0.04	Annexure H of IS 13428-2005	No Relaxation
10.	Chloride (as Cl)	mg/L	14.1	NMT 250	N/M	IS 3025 (Part 32) 1988	NMT 1000
11.	Sulphate (as SO4)	mg/L	4.3	NMT 200	1.0	IS 3025 (Part 24) 1986	NMT 400
		IDR00012 12-08-2024 15:59:39 Authorised Signatory			IDR01250 12-08-2024 16:11:16 QA Approver		
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Chief Administrative Officer

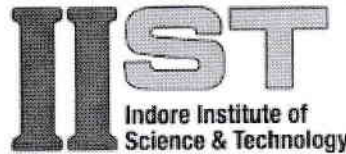
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Principal

Indore Institute of Science

and Technology, Indore
Monday, 23 December 2024



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CERTIFICATE OF ANALYSIS



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Indore - 452010 (M.P.) INDIA

Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331	CoA ID: 01700495/24-25 Report No.: 01700495/24-25 (v1) Issue date: 12-08-2024 Customer Ref(s): N/M Customer ID: I1210045
Sample Name: RO WATER (From : IIP Building-RO) Manufacturer License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 08-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M	Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 2 of 4

Test specification as per IS 10500:2012 (Amendment-4)

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
12.	Nitrate (asNO3)	mg/L	7.1	NMT 45	0.1	IS3025 (Part 34)1988	No Relaxation
13.	Fluoride (asF)	mg/L	Less than 0.1	NMT 1.0	0.1	IS3025 (Part 60) 2008	NMT 1.5
14.	Phenolic Compounds(asC6H5OH)	mg/L	Not Detected	NMT 0.001	0.001	IS3025 (Part 43)1992	NMT 0.002
15.	Ammonia (as Total ammonia - N)	mg/L	0.02	NMT 0.5	0.01	IS 3025 (Part 34) 1988	No Relaxation
16.	Chloramines (as Cl2)	mg/L	Not Detected	NMT 4.0	0.05	APHA (4500-CL)F	No Relaxation
17.	Sulphide (asH2S)	mg/L	Less than 0.05	NMT 0.05	0.05	IS3025 (Part 29) 2022	No Relaxation
18.	Cyanide (asCN)	mg/L	Not Detected	NMT 0.05	0.008	IS 3025(Part 27)1986	No Relaxation
19.	Anionic Detergent (asMBAS)	mg/L	Not Detected	NMT 0.2	0.05	Annexure Kof IS 13428-2005	NMT 1.0
20.	Mineral oil	mg/L	Not Detected	NMT 1.0	0.1	IS 3025 (Part-39) 2021	No Relaxation
21.	Residual free chlorine(as cl2)	ppm	Not detected	NLT 0.2	0.05	APHA (4500-CL)F	NLT 1
22.	Total Alkalinity(asCaCO3)	mg/L	119.1	NMT 200	N/M	IS3025 (Part 23) : 2023	NMT 600
23.	Magnesium (asMg)	mg/L	6.6	NMT 30	N/M	IS 3025 (Part 46) 2023	NMT 100

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Heavy Metal							
1.	Copper, as Cu	mg/L	Below Detection Limit	NMT 0.05	0.00510	APHA 3125B	NMT 1.5



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Chief Administrative Officer



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Indore Institute of Science and Technology, Indore
Monday, 23 December 2024



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Test specification as per IS 10500:2012 (Amendment-4)

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
2.	Iron, as Fe	mg/L	Not Detected	NMT 1.0	0.00510	APHA 3125B	No Relaxation
3.	Manganese, as Mn	mg/L	Below Detection Limit	NMT 0.1	0.00510	APHA 3125B	NMT 0.3
4.	Mercury, as Hg	mg/L	Not Detected	NMT 0.001	0.00051	APHA 3125B	No Relaxation
5.	Cadmium, as Cd	mg/L	Not Detected	NMT 0.003	0.00255	APHA 3125B	No Relaxation
6.	Selenium, as Se	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No Relaxation
7.	Total arsenic, as As	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No Relaxation
8.	Barium, as Ba	mg/L	Below Detection Limit	NMT 0.7	0.00510	APHA 3125B	No Relaxation
9.	Molybdenum, as Mo	mg/L	Below Detection Limit	NMT 0.07	0.00510	APHA 3125B	No Relaxation
10.	Nickel, as Ni	mg/L	Not Detected	NMT 0.02	0.00510	APHA 3125B	No Relaxation
11.	Silver, as Ag	mg/L	Below Detection Limit	NMT 0.1	0.00510	APHA 3125B	No Relaxation
12.	Lead, as Pb	mg/L	Not Detected	NMT 0.01	0.00510	APHA 3125B	No Relaxation
13.	Zinc, as Zn	mg/L	0.03	NMT 5	0.00510	APHA 3125B	NMT 15
14.	Total Chromium, as Cr	mg/L	Not Detected	NMT 0.05	0.00510	APHA 3125 B	No Relaxation
15.	Aluminium, as Al	mg/L	0.04	NMT 0.03	0.00510	APHA 3125B	NMT 0.2

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Biological							
1.	Escherichia coli	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185-2016	Should not be detected
2.	Total Coliform	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185:2016	Should not be detected

[End of Report]



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For IIST/ IIP/ IIMR

Chief Administrative Officer

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Indore Institute of Science and Technology

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Indore - 452010 (M.P.) INDIA

Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331	CoA ID: 01700495/24-25 Report No.: 01700495/24-25 (v1) Issue date: 12-08-2024 Customer Ref(s): N/M Customer ID: IIZ10045
Sample Name: RO WATER (From : IIP Building-RO) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 08-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M	Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 4 of 4

Test specification as per IS 10500:2012 (Amendment-4)

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Remarks:

1. Sample not drawn by CLL representative and sample information as furnished by customer.
2. Test report shall not be reproduced either in part or in full, without written approval of CLL Management.
3. MDL Refer to Method Detection Limit
4. It is recommended that the acceptable limit (specification) 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 up to the limits indicated under 'permissible' limit in the absence of alternate source. , above which the source will have to be rejected.
5. Free Residual Chlorine Limit To be applicable only when water is chlorinated.
6. pH value is reported as at 25 °C.
7. Subject to terms and conditions mentioned at the end of the CoA.
8. The certificate refers only the particular item tested and reported parameters submitted for analysis .



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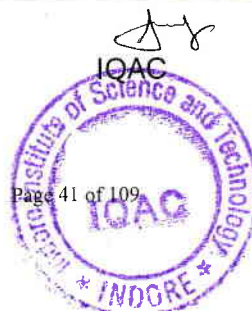
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IMPORTANT INFORMATION FOR CERTIFICATE OF ANALYSIS (CoA) / CERTIFICATE OF CALIBRATION (CoC):

1. Sample(s) / Instruments are drawn and submitted by the client unless otherwise stated.
2. This certificate refers only the particular item and reported parameters submitted for calibration / analysis.
3. The results reported in this certificate are valid for the sample / instrument received as is and at the time of and under the stipulated conditions of measurement.
4. This certificate is for the customer's information only, and can neither be used in part nor in full, in any media or court of law, without prior written permission of CLL.
5. Endorsement of products is neither inferred nor implied.
6. In case of any dispute, Indore jurisdiction is applicable.
7. Perishable samples will be destroyed after testing; toxic / hazardous samples will be returned to the customer or shall be forwarded for incineration.
8. Total Liability of CLL is limited to the invoiced amount.
9. In the event, no zone is mentioned, CoA/CoC must be considered for Domestic (India) only

CLL LABS - APPROVALS / ACCREDITATIONS BY:



Note: Each CLL lab has different approvals / accreditations. Please check with the on-site BD cell for any specific registrations / submissions prior to sending test request. Your test request must mention the purpose / regulatory body / agency for which the testing is to be carried out.

CLL's SERVICE AREAS

Food & Beverages Testing Services

Agro Products (Food Raw Materials & Products, Milk & Milk Products, Agrochemicals, Fertilizers, Food Additives)

Drugs and Chemicals Testing Services:

Pharmaceuticals, Herbs, Cosmetics, Ayurvedic - Raw Materials, Formulations & Chemicals Analysis

Building Materials Testing Services:

Metals, Sand/Aggregate, Bricks, Paving Block, Cement, Paints, Minerals, PVC/HDPE Pipes, Packaging Materials & Wood Products, On-site inspection services for soil and constructions sites.

Water & Waste Water:

Drinking Water (IS:10500), Purified water for pharmaceutical use, Recreational Water, EPA / WHO Water, Water for Injections, Water for food processing, Water for dialysis etc.

Calibration Services:

Thermal, Mechanical (Mass, Volume, Speed, Pressure, Vacuum), Area / Autoclave / Steam tunnel Mapping, Electro-technical, Dimension, etc.

Other Testing, Research & Validation services:

Toys testing, Disinfectants / Sanitizers testing, Consumer products (such as Water purifiers, Sterilizers etc.), Soil investigation & analysis, Waste / Used oil for recycling / incineration, etc.

Environment Services:

Indoor and Outdoor Monitoring for workplaces / hotels / hospitals / homes etc., Industrial monitoring - ambient and stack, River/Lake water quality survey.

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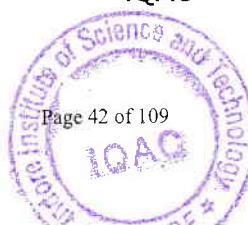
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Indore Institute of Science

and Technology, Indore

For IIST/ IIP/ IIMR

Chief Administrative Officer





Indore Institute of Science & Technology

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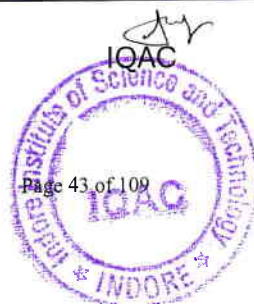
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CLL Baroda Laboratory 829 GIDC, Makarpura Baroda - 390010 Tel: +91-265-2978001 E-mail : baroda@choksilab.com	CLL Panchkula Laboratory Plot No. 362, Industrial Area, Phase -II, Panchkula - 734 112 (Haryana) Tel: +91-172-5048600 / 01 / 02 E-mail : panchkula@choksilab.com
CLL Vapi Laboratory 32, Vibrant Business Park, Opp. UPL, N.H. - 48, Vapi, Gujarat, India 396195 Tel: +91-260-2433488, 2432715, 2432731 E-mail : vapi@choksilab.com	CLL Goa Laboratory C-18, C-20 Verna Industrial Estate, Phase - 1A, Verna - 403722, Goa (India) Tel: +91-838-0033301 / 02 / 03 / 04 E-mail : goa@choksilab.com

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g. Bore Well Water Basket Ball Ground Report Dated- 12 Aug 2024

CERTIFICATE OF ANALYSIS							
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Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331		CoA ID: 01700496/24-25 Report No.: 01700496/24-25 (v1) Issue date: 12-08-2024 Customer Ref(s): N/M Customer ID: I1210045					
Sample Name: BORE WELL WATER (At Basket Ball Ground) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 08-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M		Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 1 of 4					
Description :- Clear colorless liquid without suspended particles							
TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)							
Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Chemical							
1.	Colour	Hazen unit	Less than 1	NMT 5	N/M	IS 3025 (Part 4) 2021	NMT 15
2.	Odour	Not Applicable	Agreeable	Agreeable	N/M	IS 3025 (Part 5) 2018	Agreeable
3.	Taste	Not Applicable	Agreeable	Agreeable	N/M	IS3025(Part -8) 2023	Agreeable
4.	Turbidity	NTU	0.6	NMT 1	N/M	IS 3025 (Part 10): 2023	NMT 5
5.	Total Dissolved Solids	mg/L	303	NMT 500	N/M	IS 3025 (Part 16): 2023	NMT 2000
6.	pH value	Not Applicable	6.8	6.5-8.5	N/M	IS 3025 (Part 11) 2022	No Relaxation
7.	Total Hardness (as CaCo3)	mg/L	243.8	NMT 200	N/M	IS 3025 (Part-21): 2009	NMT 600
8.	Calcium (asCa)	mg/L	58.6	NMT 75	N/M	IS3025 (Part 40)1991	NMT 200
9.	Boron (as B)	mg/L	Not Detected	NMT 0.5	0.04	Annexure H of IS13428-2005	No Relaxation
10.	Chloride (as Cl)	mg/L	35.2	NMT 250	N/M	IS3025 (Part 32)1988	NMT 1000
11.	Sulphate (as SO4)	mg/L	11.3	NMT 200	1.0	IS 3025 (Part 24)1986	NMT 400
		IDR00012 12-08-2024 15:54:49 Authorised Signatory			IDR01250 12-08-2024 16:26:14 QA Approver		
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Indore Institute of Science and Technology, Indore
Monday, 23 December 2024



Indore Institute of Science & Technology

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Sample Name: BORE WELL WATER (At Basket Ball Ground) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 08-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M	Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 2 of 4

Description :- Clear colorless liquid without suspended particles

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
12.	Nitrate (asNO3)	mg/L	8.2	NMT 45	0.1	IS3025 (Part 34)1988	No Relaxation
13.	Fluoride (asF)	mg/L	Less than 0.1	NMT 1.0	0.1	IS3025 (Part 60) 2008	NMT 1.5
14.	Phenolic Compounds(asC6H5OH)	mg/L	Not Detected	NMT 0.001	0.001	IS3025 (Part 43)1992	NMT 0.002
15.	Ammonia (as Total ammonia - N)	mg/L	0.03	NMT 0.5	0.01	IS 3025 (Part 34) 1988	No Relaxation
16.	Chloramines (as Cl2)	mg/L	Not detected	NMT 4.0	0.05	APHA (4500-CL)F	No Relaxation
17.	Sulphide (asH2S)	mg/L	Less than 0.05	NMT 0.05	0.05	IS3025 (Part 29) 2022	No Relaxation
18.	Cyanide (asCN)	mg/L	Not Detected	NMT 0.05	0.008	IS 3025 (Part 27)1986	No Relaxation
19.	Anionic Detergent (asMBAS)	mg/L	Not Detected	NMT 0.2	0.05	Annexure Kof IS 13428-2005	NMT 1.0
20.	Mineral oil	mg/L	Not Detected	NMT 1.0	0.1	IS 3025 (Part-39) 2021	No Relaxation
21.	Residual free chlorine(as cl2)	ppm	Not detected	NLT 0.2	0.05	APHA (4500-CL)F	NLT 1
22.	Total Alkalinity(asCaCO3)	mg/L	103.1	NMT 200	N/M	IS3025 (Part 23) : 2023	NMT 600
23.	Magnesium (asMg)	mg/L	23.7	NMT 30	N/M	IS 3025 (Part 46) 2023	NMT 100

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Heavy Metal							
1.	Copper, as Cu	mg/L	0.01	NMT 0.05	0.00510	APHA 3125B	NMT 1.5



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Principal

For IIST/ IIP/ IIMR

Chief Administrative Officer



Indore Institute of Science and Technology, Indore
Monday, 23 December 2024



Indore Institute of Science & Technology

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CERTIFICATE OF ANALYSIS



Issued from:
Choksi Laboratories Limited (Building - 2 "Pasteur")
Survey No. 9/1, Balaji Tulsiyana Industrial Estate,
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Indore - 452010 (M.P.) INDIA

Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331	CoA ID: 01700496/24-25 Report No.: 01700496/24-25 (v1) Issue date: 12-08-2024 Customer Ref(s): N/M Customer ID: I1210045
Sample Name: BORE WELL WATER (At Basket Ball Ground) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 08-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M	Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 3 of 4
Description :- Clear colorless liquid without suspended particles	

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
2.	Iron, as Fe	mg/L	Not Detected	NMT 1.0	0.00510	APHA 3125B	No Relaxation
3.	Manganese, as Mn	mg/L	Below Detection Limit	NMT 0.1	0.00510	APHA 3125B	NMT 0.3
4.	Mercury, as Hg	mg/L	Not Detected	NMT 0.001	0.00051	APHA 3125B	No Relaxation
5.	Cadmium, as Cd	mg/L	Not Detected	NMT 0.003	0.00255	APHA 3125B	No Relaxation
6.	Selenium, as Se	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No Relaxation
7.	Total arsenic, as As	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No Relaxation
8.	Barium, as Ba	mg/L	Below Detection Limit	NMT 0.7	0.00510	APHA 3125B	No Relaxation
9.	Molybdenum, as Mo	mg/L	Below Detection Limit	NMT 0.07	0.00510	APHA 3125B	No Relaxation
10.	Nickel, as Ni	mg/L	Not Detected	NMT 0.02	0.00510	APHA 3125B	No Relaxation
11.	Silver, as Ag	mg/L	Below Detection Limit	NMT 0.1	0.00510	APHA 3125B	No Relaxation
12.	Lead, as Pb	mg/L	Not Detected	NMT 0.01	0.00510	APHA 3125B	No Relaxation
13.	Zinc, as Zn	mg/L	0.01	NMT 5	0.00510	APHA 3125B	NMT 15
14.	Total Chromium, as Cr	mg/L	Below Detection Limit	NMT 0.05	0.00510	APHA 3125 B	No Relaxation
15.	Aluminium, as Al	mg/L	Not Detected	NMT 0.03	0.00510	APHA 3125B	NMT 0.2

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Biological							
1.	Escherichia coli	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185-2016	Should not be detected
2.	Total Coliform	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185:2016	Should not be detected

[End of Report]



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Chief Administrative Officer



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Description :- Clear colorless liquid without suspended particles	

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Remarks:

1. Sample not drawn by CLL representative and sample information as furnished by customer.
2. Test report shall not be reproduced either in part or in full, without written approval of CLL Management.
3. MDL Refer to Method Detection Limit
4. It is recommended that the acceptable limit (specification) 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 up to the limits indicated under 'permissible' limit in the absence of alternate source, above which the source will have to be rejected.
5. Free Residual Chlorine Limit To be applicable only when water is chlorinated.
6. pH value is reported as at 25 °C.
7. Subject to terms and conditions mentioned at the end of the CoA.
8. The certificate refers only the particular item tested and reported parameters submitted for analysis.



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IMPORTANT INFORMATION FOR CERTIFICATE OF ANALYSIS (CoA) / CERTIFICATE OF CALIBRATION (CoC):

1. Sample(s) / Instruments are drawn and submitted by the client unless otherwise stated.
2. This certificate refers only the particular item and reported parameters submitted for calibration / analysis.
3. The results reported in this certificate are valid for the sample / instrument received as is and at the time of and under the stipulated conditions of measurement.
4. This certificate is for the customer's information only, and can neither be used in part nor in full, in any media or court of law, without prior written permission of CLL.
5. Endorsement of products is neither inferred nor implied.
6. In case of any dispute, Indore jurisdiction is applicable.
7. Perishable samples will be destroyed after testing; toxic / hazardous samples will be returned to the customer or shall be forwarded for incineration.
8. Total Liability of CLL is limited to the invoiced amount.
9. In the event, no zone is mentioned, CoA/CoC must be considered for Domestic (India) only

CLL LABS - APPROVALS / ACCREDITATIONS BY:



Note: Each CLL lab has different approvals / accreditations. Please check with the on-site BD cell for any specific registrations / submissions prior to sending test request. Your test request must mention the purpose / regulatory body / agency for which the testing is to be carried out.

CLL's SERVICE AREAS

Food & Beverages Testing Services

Agro Products (Food Raw Materials & Products, Milk & Milk Products, Agrochemicals, Fertilizers, Food Additives)

Drugs and Chemicals Testing Services:

Pharmaceuticals, Herbals, Cosmetics, Ayurvedic - Raw Materials, Formulations & Chemicals Analysis

Building Materials Testing Services:

Metals, Sand/Aggregate, Bricks, Paving Block, Cement, Paints, Minerals, PVC/HDPE Pipes, Packaging Materials & Wood Products, On-site inspection services for soil and constructions sites.

Water & Waste Water:

Drinking Water (IS:10500), Purified water for pharmaceutical use, Recreational Water, EPA / WHO Water, Water for Injections, Water for food processing, Water for dialysis etc.

Calibration Services:

Thermal, Mechanical (Mass, Volume, Speed, Pressure, Vacuum), Area / Autoclave / Steam tunnel Mapping, Electro-technical, Dimension, etc.

Other Testing, Research & Validation services:

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Environment Services:

Indoor and Outdoor Monitoring for workplaces / hotels / hospitals / homes etc., Industrial monitoring - ambient and stack, River/Lake water quality survey.

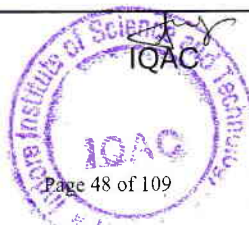
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Chief Administrative Officer



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Monday, 23 December 2024



Indore Institute of Science & Technology

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CLL's LAB LOCATIONS


Indore Laboratory (Corporate Office & Center of Excellence) Survey No. 9/1, Balaji Tulsiana Industrial Estate, Kumed, Off MR10 Toll Plaza, Indore (M.P.) - 452010 Tel: +91-731-3501112 (60 lines) E-mail : bd@choksilab.com	
CLL Baroda Laboratory 829 GIDC, Makarpura Baroda - 390010 Tel: +91-265-2978001 E-mail : baroda@choksilab.com	CLL Panchkula Laboratory Plot No. 362, Industrial Area, Phase -II, Panchkula - 734 112 (Haryana) Tel: +91-172-5048600 / 01 / 02 E-mail : panchkula@choksilab.com
CLL Vapi Laboratory 32, Vibrant Business Park, Opp. UPL, N.H. - 48, Vapi, Gujarat, India 396195 Tel: +91-260-2433488, 2432715, 2432731 E-mail : vapi@choksilab.com	CLL Goa Laboratory C-18, C-20 Verna Industrial Estate, Phase - 1A, Verna - 403722, Goa (India) Tel: +91-838-0033301 / 02 / 03 / 04 E-mail : goa@choksilab.com

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h. Open Well Water C-Block Report Dated- 12 Aug 2024

CERTIFICATE OF ANALYSIS							
		Issued from: Choksi Laboratories Limited (Building - 2 "Pasteur") Survey No. 9/1, Balaji Tulsiyana Industrial Estate, Kumedi, Off. M.R. 10 Toll Naka, Indore - 452010 (M.P.) INDIA					
Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP. IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331		CoA ID: 01700497/24-25 Report No.: 01700497/24-25 (v1) Issue date: 12-08-2024 Customer Ref(s): N/M Customer ID: I1210045					
Sample Name: OPEN WELL WATER (At C-Block) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 08-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M		Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 1 of 4					
Description :- Clear colorless liquid without suspended particles							
TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)							
Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Chemical							
1.	Colour	Hazen unit	Less than 1	NMT 5	N/M	IS 3025 (Part 4) 2021	NMT 15
2.	Odour	Not Applicable	Agreeable	Agreeable	N/M	IS 3025 (Part 5) 2018	Agreeable
3.	Taste	Not Applicable	Agreeable	Agreeable	N/M	IS 3025 (Part -8) 2023	Agreeable
4.	Turbidity	NTU	0.6	NMT 1	N/M	IS 3025 (Part 10): 2023	NMT 5
5.	Total Dissolved Solids	mg/L	300	NMT 500	N/M	IS 3025 (Part 16): 2023	NMT 2000
6.	pH value	Not Applicable	6.9	6.5-8.5	N/M	IS 3025 (Part 11) 2022	No Relaxation
7.	Total Hardness (as CaCo3)	mg/L	234	NMT 200	N/M	IS 3025 (Part-21): 2009	NMT 600
8.	Calcium (asCa)	mg/L	54.7	NMT 75	N/M	IS 3025 (Part 40) 1991	NMT 200
9.	Boron (as B)	mg/L	Not Detected	NMT 0.5	0.04	Annexure H of IS 13428-2005	No Relaxation
10.	Chloride (as Cl)	mg/L	25.2	NMT 250	N/M	IS 3025 (Part 32) 1988	NMT 1000
11.	Sulphate (as SO4)	mg/L	9.2	NMT 200	1.0	IS 3025 (Part 24) 1986	NMT 400
12.	Nitrate (asNO3)	mg/L	8.7	NMT 45	0.1	IS 3025 (Part 34) 1988	No Relaxation
		IDR00012 12-08-2024 15:58:23 Authorised Signatory			IDR01250 12-08-2024 16:14:30 QA Approver		
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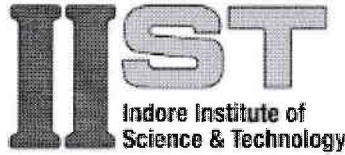
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For IIST/ IIP/ IIMR

Chief Administrative Officer



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Indore Institute of Science
and Technology, Indore
Monday, 23 December 2024



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Description :- Clear colorless liquid without suspended particles

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
13.	Fluoride (asF)	mg/L	Less than 0.1	NMT 1.0	0.1	IS3025 (Part 60) 2008	NMT 1.5
14.	Phenolic Compounds(asC6H5OH)	mg/L	Not Detected	NMT 0.001	0.001	IS3025 (Part 43)1992	NMT 0.002
15.	Ammonia (as Total ammonia - N)	mg/L	0.02	NMT 0.5	0.01	IS 3025 (Part 34) 1988	No Relaxation
16.	Chloramines (as Cl2)	mg/L	Not Detected	NMT 4.0	0.05	APHA (4500-CL)F	No Relaxation
17.	Sulphide (asH2S)	mg/L	Less than 0.05	NMT 0.05	0.05	IS3025 (Part 29) 2022	No Relaxation
18.	Cyanide (asCN)	mg/L	Not Detected	NMT 0.05	0.008	IS 3025(Part 27)1986	No Relaxation
19.	Anionic Detergent (asMBAS)	mg/L	Not Detected	NMT 0.2	0.05	Annexure Kof IS 1342B-2005	NMT 1.0
20.	Mineral oil	mg/L	Not Detected	NMT 1.0	0.1	IS 3025 (Part-39) 2021	No Relaxation
21.	Residual free chlorine(as Cl2)	ppm	Not Detected	NLT 0.2	0.05	APHA (4500-CL)F	NLT 1
22.	Total Alkalinity(asCaCO3)	mg/L	217.5	NMT 200	N/M	IS3025 (Part 23) : 2023	NMT 600
23.	Magnesium (asMg)	mg/L	23.7	NMT 30	N/M	IS 3025 (Part 46) 2023	NMT 100

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Heavy Metal							
1.	Copper, as Cu	mg/L	0.01	NMT 0.05	0.00510	APHA 3125B	NMT 1.5
2.	Iron, as Fe	mg/L	Not Detected	NMT 1.0	0.00510	APHA 3125B	No Relaxation
3.	Manganese, as Mn	mg/L	0.01	NMT 0.1	0.00510	APHA 3125B	NMT 0.3



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Description :- Clear colorless liquid without suspended particles

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
4.	Mercury, as Hg	mg/L	Below Detection Limit	NMT 0.001	0.00051	APHA 3125B	No Relaxation
5.	Cadmium, as Cd	mg/L	Not Detected	NMT 0.003	0.00255	APHA 3125B	No Relaxation
6.	Selenium, as Se	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No Relaxation
7.	Total arsenic, as As	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No Relaxation
8.	Barium, as Ba	mg/L	0.01	NMT 0.7	0.00510	APHA 3125B	No Relaxation
9.	Molybdenum, as Mo	mg/L	Below Detection Limit	NMT 0.07	0.00510	APHA 3125B	No Relaxation
10.	Nickel, as Ni	mg/L	Not Detected	NMT 0.02	0.00510	APHA 3125B	No Relaxation
11.	Silver, as Ag	mg/L	Below Detection Limit	NMT 0.1	0.00510	APHA 3125B	No Relaxation
12.	Lead, as Pb	mg/L	Not Detected	NMT 0.01	0.00510	APHA 3125B	No Relaxation
13.	Zinc, as Zn	mg/L	0.01	NMT 5	0.00510	APHA 3125B	NMT 15
14.	Total Chromium, as Cr	mg/L	Below Detection Limit	NMT 0.05	0.00510	APHA 3125 B	No Relaxation
15.	Aluminium, as Al	mg/L	Not Detected	NMT 0.03	0.00510	APHA 3125B	NMT 0.2

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Biological							
1.	Escherichia coli	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185-2016	Should not be detected
2.	Total Coliform	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185:2016	Should not be detected

[End of Report]

Remarks:

- Sample not drawn by CLL representative and sample information as furnished by customer.
- Test report shall not be reproduced either in part or in full, without written approval of CLL Management.



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Chief Administrative Officer

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Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331	CoA ID: 01700497/24-25 Report No.: 01700497/24-25 (v1) Issue date: 12-08-2024 Customer Ref(s): N/M Customer ID: I1210045
Sample Name: OPEN WELL WATER (At C-Block) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 08-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M	Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 4 of 4
Description :- Clear colorless liquid without suspended particles	

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

- MDL Refer to Method Detection Limit
- It is recommended that the acceptable limit (specification) 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 up to the limits indicated under 'permissible' limit in the absence of alternate source. , above which the source will have to be rejected.
- Free Residual Chlorine Limit To be applicable only when water is chlorinated.
- pH value is reported as at 25 °C.
- Subject to terms and conditions mentioned at the end of the CoA.
- The certificate refers only the particular item tested and reported parameters submitted for analysis .



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12-08-2024 15:58:23

Authorised Signatory

IDR01250
12-08-2024 16:14:30

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For IIST/ IIP/ IIMR
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IOAC



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Indore Institute of Science
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Monday, 23 December 2024



Indore Institute of Science & Technology

Approved by AICTE, New Delhi, Affiliated to RGPV, Bhopal, Recognized by UGC under Section 2(f) 2023-2024

IMPORTANT INFORMATION FOR CERTIFICATE OF ANALYSIS (CoA) / CERTIFICATE OF CALIBRATION (CoC):

1. Sample(s) / Instruments are drawn and submitted by the client unless otherwise stated.
2. This certificate refers only the particular item and reported parameters submitted for calibration / analysis.
3. The results reported in this certificate are valid for the sample / instrument received as is and at the time of and under the stipulated conditions of measurement.
4. This certificate is for the customer's information only, and can neither be used in part nor in full, in any media or court of law, without prior written permission of CLL.
5. Endorsement of products is neither inferred nor implied.
6. In case of any dispute, Indore jurisdiction is applicable.
7. Perishable samples will be destroyed after testing; toxic / hazardous samples will be returned to the customer or shall be forwarded for incineration.
8. Total Liability of CLL is limited to the invoiced amount.
9. In the event, no zone is mentioned, CoA/CoC must be considered for Domestic (India) only

CLL LABS - APPROVALS / ACCREDITATIONS BY:



Note: Each CLL lab has different approvals / accreditations. Please check with the on-site BD cell for any specific registrations / submissions prior to sending test request. Your test request must mention the purpose / regulatory body / agency for which the testing is to be carried out.

CLL's SERVICE AREAS

Food & Beverages Testing Services

Agro Products (Food Raw Materials & Products, Milk & Milk Products, Agrochemicals, Fertilizers, Food Additives)

Drugs and Chemicals Testing Services:

Pharmaceuticals, Herbs, Cosmetics, Ayurvedic - Raw Materials, Formulations & Chemicals Analysis

Building Materials Testing Services:

Metals, Sand/Aggregate, Bricks, Paving Block, Cement, Paints, Minerals, PVC/HDPE Pipes, Packaging Materials & Wood Products, On-site inspection services for soil and constructions sites.

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Drinking Water (IS:10500), Purified water for pharmaceutical use, Recreational Water, EPA / WHO Water, Water for Injections, Water for food processing, Water for dialysis etc.

Calibration Services:

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Other Testing, Research & Validation services:

Toys testing, Disinfectants / Sanitizers testing, Consumer products (such as Water purifiers, Sterilizers etc.), Soil investigation & analysis, Waste / Used oil for recycling / incineration, etc.

Environment Services:

Indoor and Outdoor Monitoring for workplaces / hotels / hospitals / homes etc., Industrial monitoring - ambient and stack, River/Lake water quality survey.

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Monday, 23 December 2024



CLL's LAB LOCATIONS

<p>Indore Laboratory (Corporate Office & Center of Excellence)</p> <p>Survey No. 9/1, Balaji Tulsiyana Industrial Estate, Kumed, Off MR10 Toll Plaza, Indore (M.P.) - 452010 Tel: +91-731-3501112 (60 lines) E-mail : bd@choksilab.com</p>	
<p>CLL Baroda Laboratory</p> <p>829 GIDC, Makarpura Baroda - 390010 Tel: +91-265-2978001 E-mail : baroda@choksilab.com</p>	<p>CLL Panchkula Laboratory</p> <p>Plot No. 362, Industrial Area, Phase -II, Panchkula - 734 112 (Haryana) Tel: +91-172-5048600 / 01 / 02 E-mail : panchkula@choksilab.com</p>
<p>CLL Vapi Laboratory</p> <p>32, Vibrant Business Park, Opp. UPL, N.H. - 48, Vapi, Gujarat, India 396195 Tel: +91-260-2433488, 2432715, 2432731 E-mail : vapi@choksilab.com</p>	<p>CLL Goa Laboratory</p> <p>C-18, C-20 Verna Industrial Estate, Phase - 1A, Verna - 403722, Goa (India) Tel: +91-838-0033301 / 02 / 03 / 04 E-mail : goa@choksilab.com</p>

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For IIST/ IIP/ IIMR

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Indore Institute of Science & Technology

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i. Bore Bell Water Farming Land Report Dated- 12 Aug 2024

CERTIFICATE OF ANALYSIS							
		Issued from: Choksi Laboratories Limited (Building - 2 "Pasteur") Survey No. 9/1, Balaji Tulsiyana Industrial Estate, Kumed, Off. M.R. 10 Toll Naka, Indore - 452010 (M.P.) INDIA					
Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331				CoA ID: 01700498/24-25 Report No.: 01700498/24-25 (v1) Issue date: 12-08-2024 Customer Ref(s): N/M Customer ID: I1210045			
Sample Name: BORE WELL WATER (At Farming Land) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 08-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M				Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 1 of 4			
Description :- Clear colorless liquid without suspended particles							
TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)							
Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Chemical							
1.	Colour	Hazen unit	Less than 1	NMT 5	N/M	IS 3025 (Part 4) 2021	NMT 15
2.	Odour	Not Applicable	Agreeable	Agreeable	N/M	IS 3025 (Part 5) 2018	Agreeable
3.	Taste	Not Applicable	Agreeable	Agreeable	N/M	IS3025(Part -8) 2023	Agreeable
4.	Turbidity	NTU	0.6	NMT 1	N/M	IS 3025 (Part 10): 2023	NMT 5
5.	Total Dissolved Solids	mg/L	283	NMT 500	N/M	IS 3025 (Part 16): 2023	NMT 2000
6.	pH value	Not Applicable	6.9	6.5-8.5	N/M	IS 3025 (Part 11) 2022	No Relaxation
7.	Total Hardness (as CaCO3)	mg/L	152.1	NMT 200	N/M	IS 3025 (Part-21): 2009	NMT 600
8.	Calcium (asCa)	mg/L	50	NMT 75	N/M	IS3025 (Part 40)1991	NMT 200
9.	Boron (as B)	mg/L	Not Detected	NMT 0.5	0.04	Annexure H of IS13428-2005	No Relaxation
10.	Chloride (as Cl)	mg/L	14.1	NMT 250	N/M	IS3025 (Part 32)1988	NMT 1000
11.	Sulphate (as SO4)	mg/L	7.2	NMT 200	1.0	IS 3025 (Part 24)1986	NMT 400
		IDR00012 12-08-2024 15:57:28 Authorised Signatory			IDR01250 12-08-2024 16:18:25 QA Approver		
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Admin

For IIST/ IIP/ IIMR

Chief Administrative Officer



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CERTIFICATE OF ANALYSIS



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Description :- Clear colorless liquid without suspended particles

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
12.	Nitrate (asNO3)	mg/L	7.0	NMT 45	0.1	IS3025 (Part 34)1988	No Relaxation
13.	Fluoride (asF)	mg/L	Less than 0.1	NMT 1.0	0.1	IS3025 (Part 60) 2008	NMT 1.5
14.	Phenolic Compounds(asC6H5OH)	mg/L	Not Detected	NMT 0.001	0.001	IS3025 (Part 43)1992	NMT 0.002
15.	Ammonia (as Total ammonia - N)	mg/L	0.03	NMT 0.5	0.01	IS 3025 (Part 34) 1988	No Relaxation
16.	Chloramines (as Cl2)	mg/L	Not detected	NMT 4.0	0.05	APHA (4500-CL)F	No Relaxation
17.	Sulphide (asH2S)	mg/L	Less than 0.05	NMT 0.05	0.05	IS3025 (Part 29) 2022	No Relaxation
18.	Cyanide (asCN)	mg/L	Not Detected	NMT 0.05	0.008	IS 3025(Part 27)1986	No Relaxation
19.	Anionic Detergent (asMBAS)	mg/L	Not Detected	NMT 0.2	0.05	Annexure Kof IS 1342B-2005	NMT 1.0
20.	Mineral oil	mg/L	Not Detected	NMT 1.0	0.1	IS 3025 (Part-39) 2021	No Relaxation
21.	Residual free chlorine(as Cl2)	ppm	Not detected	NLT 0.2	0.05	APHA (4500-CL)F	NLT 1
22.	Total Alkalinity(asCaCO3)	mg/L	224.4	NMT 200	N/M	IS3025 (Part 23) : 2023	NMT 600
23.	Magnesium (asMg)	mg/L	6.6	NMT 30	N/M	IS 3025 (Part 46) 2023	NMT 100

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Heavy Metal							
1.	Copper, as Cu	mg/L	0.01	NMT 0.05	0.00510	APHA 3125B	NMT 1.5



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Description :- Clear colorless liquid without suspended particles

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
2.	Iron, as Fe	mg/L	Not Detected	NMT 1.0	0.00510	APHA 3125B	No Relaxation
3.	Manganese, as Mn	mg/L	0.01	NMT 0.1	0.00510	APHA 3125B	NMT 0.3
4.	Mercury, as Hg	mg/L	Not Detected	NMT 0.001	0.00051	APHA 3125B	No Relaxation
5.	Cadmium, as Cd	mg/L	Not Detected	NMT 0.003	0.00255	APHA 3125B	No Relaxation
6.	Selenium, as Se	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No Relaxation
7.	Total arsenic, as As	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No Relaxation
8.	Barium, as Ba	mg/L	Below Detection Limit	NMT 0.7	0.00510	APHA 3125B	No Relaxation
9.	Molybdenum, as Mo	mg/L	Below Detection Limit	NMT 0.07	0.00510	APHA 3125B	No Relaxation
10.	Nickel, as Ni	mg/L	Not Detected	NMT 0.02	0.00510	APHA 3125B	No Relaxation
11.	Silver, as Ag	mg/L	Not Detected	NMT 0.1	0.00510	APHA 3125B	No Relaxation
12.	Lead, as Pb	mg/L	Not Detected	NMT 0.01	0.00510	APHA 3125B	No Relaxation
13.	Zinc, as Zn	mg/L	Below Detection Limit	NMT 5	0.00510	APHA 3125B	NMT 15
14.	Total Chromium, as Cr	mg/L	Below Detection Limit	NMT 0.05	0.00510	APHA 3125 B	No Relaxation
15.	Aluminium, as Al	mg/L	Not Detected	NMT 0.03	0.00510	APHA 3125B	NMT 0.2

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Biological							
1.	Escherichia coli	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185-2016	Should not be detected
2.	Total Coliform	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185:2016	Should not be detected

[End of Report]



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Description :- Clear colorless liquid without suspended particles

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Remarks:

1. Sample not drawn by CLL representative and sample information as furnished by customer.
2. Test report shall not be reproduced either in part or in full, without written approval of CLL Management.
3. MDL Refer to Method Detection Limit
4. It is recommended that the acceptable limit (specification) 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 up to the limits indicated under 'permissible' limit in the absence of alternate source. , above which the source will have to be rejected.
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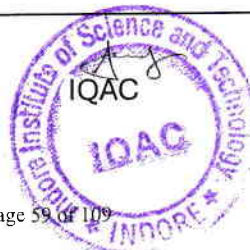
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4. This certificate is for the customer's information only, and can neither be used in part nor in full, in any media or court of law, without prior written permission of CLL.
5. Endorsement of products is neither inferred nor implied.
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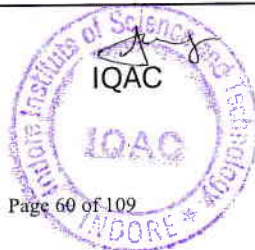
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Indoor and Outdoor Monitoring for workplaces / hotels / hospitals / homes etc., Industrial monitoring - ambient and stack, River/Lake water quality survey.

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Chief Administrative Officer

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Indore Institute of Science and Technology, Indore
Monday, 23 December 2024



Indore Institute of Science & Technology

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CLL's LAB LOCATIONS

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CLL Baroda Laboratory 829 GIDC, Makarpura Baroda - 390010 Tel: +91-265-2978001 E-mail : baroda@choksilab.com	CLL Panchkula Laboratory Plot No. 362, Industrial Area, Phase -II, Panchkula - 734 112 (Haryana) Tel: +91-172-5048600 / 01 / 02 E-mail : panchkula@choksilab.com
CLL Vapi Laboratory 32, Vibrant Business Park, Opp. UPL. N.H. - 48, Vapi, Gujarat, India 396195 Tel: +91-260-2433488, 2432715, 2432731 E-mail : vapi@choksilab.com	CLL Goa Laboratory C-18, C-20 Verna Industrial Estate, Phase - 1A, Verna - 403722, Goa (India) Tel: +91-838-0033301 / 02 / 03 / 04 E-mail : goa@choksilab.com

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j. Bore Well Water Khajoor Tree Report Dated- 12 Aug 2024

CERTIFICATE OF ANALYSIS							
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Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Chemical							
1.	Colour	Hazen unit	Less than 1	NMT 5	N/M	IS 3025 (Part 4) 2021	NMT 15
2.	Odour	Not Applicable	Agreeable	Agreeable	N/M	IS 3025 (Part 5)2018	Agreeable
3.	Taste	Not Applicable	Agreeable	Agreeable	N/M	IS3025(Part -8) 2023	Agreeable
4.	Turbidity	NTU	0.5	NMT 1	N/M	IS 3025 (Part 10): 2023	NMT 5
5.	Total Dissolved Solids	mg/L	287	NMT 500	N/M	IS 3025 (Part 16): 2023	NMT 2000
6.	pH value	Not Applicable	7.0	6.5-8.5	N/M	IS 3025 (Part 11) 2022	No Relaxation
7.	Total Hardness (as CaCo3)	mg/L	171.6	NMT 200	N/M	IS 3025 (Part-21): 2009	NMT 600
8.	Calcium (asCa)	mg/L	57.8	NMT 75	N/M	IS3025 (Part 40)1991	NMT 200
9.	Boron (as B)	mg/L	Not Detected	NMT 0.5	0.04	Annexure H of IS13428-2005	NMT 1.0
10.	Chloride (as Cl)	mg/L	22.14	NMT 250	N/M	IS3025 (Part 32)1988	NMT 1000
11.	Sulphate (as SO4)	mg/L	7.5	NMT 200	1.0	IS 3025 (Part 24)1986	NMT 400
12.	Nitrate (asNO3)	mg/L	6.2	NMT 45	0.1	IS3025 (Part 34)1988	No Relaxation
		IDR00336 10-08-2024 16:41:15 Authorised Signatory			IDR01250 10-08-2024 17:26:57 QA Approver		
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Page 62 of 109

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CERTIFICATE OF ANALYSIS



Issued from:
Choksi Laboratories Limited (Building - 2 "Pasteur")
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Indore - 452010 (M.P.) INDIA

Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP,IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331	CoA ID: 01700499/24-25 Report No.: 01700499/24-25 (v1) Issue date: 10-08-2024 Customer Ref(s): N/M Customer ID: I1210045
Sample Name: BORE WELL WATER (Near Khajoor Tree) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 08-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M	Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 2 of 4

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
13.	Fluoride (asF)	mg/L	Less than 0.1	NMT 1.0	0.1	IS3025 (Part 60) 2008	NMT 1.5
14.	Phenolic Compounds(asC6H5OH)	mg/L	Not Detected	NMT 0.001	0.001	IS3025 (Part 43)1992	NMT 0.002
15.	Ammonia (as Total ammonia - N)	mg/L	0.03	NMT 0.5	0.01	IS 3025 (Part 34) 1988	No relaxation
16.	Chloramines (as Cl2)	mg/L	Not detected	NMT 4.0	0.05	APHA (4500-CL)F	No relaxation
17.	Sulphide (asH2S)	mg/L	Less than 0.05	NMT 0.05	0.05	IS3025 (Part 29) 2022	No relaxation
18.	Cyanide (asCN)	mg/L	Not Detected	NMT 0.05	0.008	IS 3025(Part 27)1986	No Relaxation
19.	Anionic Detergent (asMBAS)	mg/L	Not Detected	NMT 0.2	0.05	Annexure Kof IS 13428-2005	NMT 1.0
20.	Mineral oil	mg/L	Not Detected	NMT 1.0	0.1	IS 3025 (Part-39) 2021	No Relaxation
21.	Residual free chlorine(as cl2)	ppm	Not detected	NLT 0.2	0.05	APHA (4500-CL)F	NLT 1
22.	Total Alkalinity(asCaCO3)	mg/L	229	NMT 200	N/M	IS3025 (Part 23): 2023	NMT 600
23.	Magnesium (asMg)	mg/L	6.6	NMT 30	N/M	IS 3025 (Part 46) 2023	NMT 100

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Heavy Metal							
1.	Copper, as Cu	mg/L	0.01	NMT 0.05	0.00510	APHA 3125B	NMT 1.5
2.	Iron, as Fe	mg/L	Not Detected	NMT 1.0	0.00510	APHA 3125B	No relaxation
3.	Manganese, as Mn	mg/L	Below Detection Limit	NMT 0.1	0.00510	APHA 3125B	NMT 0.3



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TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
4.	Mercury, as Hg	mg/L	Not Detected	NMT 0.001	0.00051	APHA 3125B	No relaxation
5.	Cadmium, as Cd	mg/L	Not Detected	NMT 0.003	0.00255	APHA 3125B	No relaxation
6.	Selenium, as Se	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No relaxation
7.	Total arsenic, as As	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No relaxation
8.	Barium, as Ba	mg/L	Below Detection Limit	NMT 0.7	0.00510	APHA 3125B	No relaxation
9.	Molybdenum, as Mo	mg/L	Below Detection Limit	NMT 0.07	0.00510	APHA 3125B	No relaxation
10.	Nickel, as Ni	mg/L	Not Detected	NMT 0.02	0.00510	APHA 3125B	No relaxation
11.	Silver, as Ag	mg/L	Not Detected	NMT 0.1	0.00510	APHA 3125B	No relaxation
12.	Lead, as Pb	mg/L	Not Detected	NMT 0.01	0.00510	APHA 3125B	No relaxation
13.	Zinc, as Zn	mg/L	0.05	NMT 5	0.00510	APHA 3125B	NMT 15
14.	Total Chromium, as Cr	mg/L	Not Detected	NMT 0.05	0.00510	APHA 3125 B	No relaxation
15.	Aluminium, as Al	mg/L	0.02	NMT 0.03	0.00510	APHA 3125B	NMT 0.2

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Biological							
1.	Escherichia coli	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185-2016	Should not be detected
2.	Total Coliform	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185:2016	Should not be detected

[End of Report]

Remarks:

- Test report shall not be reproduced either in part or in full, without written approval of CLL Management.
- Sample not drawn by CLL representative and sample information as furnished by customer.
- MDL Refer to Method Detection Limit



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TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

- It is recommended that the acceptable limit (specification) 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 up to the limits indicated under 'permissible' limit in the absence of alternate source. , above which the source will have to be rejected.
- Free Residual Chlorine Limit To be applicable only when water is chlorinated.
- pH value is reported as at 25 °C.
- Subject to terms and conditions mentioned at the end of the CoA.



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IMPORTANT INFORMATION FOR CERTIFICATE OF ANALYSIS (CoA) / CERTIFICATE OF CALIBRATION (CoC):

1. Sample(s) / Instruments are drawn and submitted by the client unless otherwise stated.
2. This certificate refers only the particular item and reported parameters submitted for calibration / analysis.
3. The results reported in this certificate are valid for the sample / instrument received as is and at the time of and under the stipulated conditions of measurement.
4. This certificate is for the customer's information only, and can neither be used in part nor in full, in any media or court of law, without prior written permission of CLL.
5. Endorsement of products is neither inferred nor implied.
6. In case of any dispute, Indore jurisdiction is applicable.
7. Perishable samples will be destroyed after testing; toxic / hazardous samples will be returned to the customer or shall be forwarded for incineration.
8. Total Liability of CLL is limited to the invoiced amount.
9. In the event, no zone is mentioned, CoA/CoC must be considered for Domestic (India) only

CLL LABS - APPROVALS / ACCREDITATIONS BY:



Note: Each CLL lab has different approvals / accreditations. Please check with the on-site BD cell for any specific registrations / submissions prior to sending test request. Your test request must mention the purpose / regulatory body / agency for which the testing is to be carried out.

CLL's SERVICE AREAS

Food & Beverages Testing Services

Agro Products (Food Raw Materials & Products, Milk & Milk Products, Agrochemicals, Fertilizers, Food Additives)

Drugs and Chemicals Testing Services:

Pharmaceuticals, Herbs, Cosmetics, Ayurvedic - Raw Materials, Formulations & Chemicals Analysis

Building Materials Testing Services:

Metals, Sand/Aggregate, Bricks, Paving Block, Cement, Paints, Minerals, PVC/HDPE Pipes, Packaging Materials & Wood Products, On-site inspection services for soil and constructions sites.

Water & Waste Water:

Drinking Water (IS:10500), Purified water for pharmaceutical use, Recreational Water, EPA / WHO Water, Water for Injections, Water for food processing, Water for dialysis etc.

Calibration Services:

Thermal, Mechanical (Mass, Volume, Speed, Pressure, Vacuum), Area / Autoclave / Steam tunnel Mapping, Electro-technical, Dimension, etc.

Other Testing, Research & Validation services:

Toys testing, Disinfectants / Sanitizers testing, Consumer products (such as Water purifiers, Sterilizers etc.), Soil investigation & analysis, Waste / Used oil for recycling / incineration, etc.

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Indore Institute of Science & Technology

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CLL's LAB LOCATIONS

Indore Laboratory (Corporate Office & Center of Excellence) Survey No. 9/1, Balaji Tulsiyana Industrial Estate, Kumedi, Off MR10 Toll Plaza, Indore (M.P.) - 452010 Tel: +91-731-3501112 (60 lines) E-mail : bd@choksilab.com	
CLL Baroda Laboratory 829 GIDC, Makarpura Baroda - 390010 Tel: +91-265-2978001 E-mail : baroda@choksilab.com	CLL Panchkula Laboratory Plot No. 362, Industrial Area, Phase -II, Panchkula - 734 112 (Haryana) Tel: +91-172-5048600 / 01 / 02 E-mail : panchkula@choksilab.com
CLL Vapi Laboratory 32, Vibrant Business Park, Opp. UPL, N.H. - 48, Vapi, Gujarat, India 396195 Tel: +91-260-2433488, 2432715, 2432731 E-mail : vapi@choksilab.com	CLL Goa Laboratory C-18, C-20 Verna Industrial Estate, Phase - 1A, Verna - 403722, Goa (India) Tel: +91-838-0033301 / 02 / 03 / 04 E-mail : goa@choksilab.com

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k. Bore Bell Water Staff Flat Report Dated- 14 Aug 2024

CERTIFICATE OF ANALYSIS							
		Issued from: Choksi Laboratories Limited (Building - 2 "Pasteur") Survey No. 9/L, Balaji Tulsiyana Industrial Estate, Kumed, Off. M.R. 10 Toll Naka, Indore - 452010 (M.P.) INDIA					
Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331				CoA ID: 01700511/24-25 Report No.: 01700511/24-25 (v1) Issue date: 14-08-2024 Customer Ref(s): N/M Customer ID: IIZ10045			
Sample Name: BORE WELL WATER (Near Staff Flat) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 09-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M				Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 18-07-2024 Analysis End Date: 14-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 1 of 4			
TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)							
Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Chemical							
1.	Colour	Hazen unit	Less than 1	NMT 5	N/M	IS 3025 (Part 4) 2021	NMT 15
2.	Odour	Not Applicable	Agreeable	Agreeable	N/M	IS 3025 (Part 5) 2018	Agreeable
3.	Taste	Not Applicable	Agreeable	Agreeable	N/M	IS3025(Part -8) 2023	Agreeable
4.	Turbidity	NTU	0.6	NMT 1	N/M	IS 3025 (Part 10): 2023	NMT 5
5.	Total Dissolved Solids	mg/L	265	NMT 500	N/M	IS 3025 (Part 16): 2023	NMT 2000
6.	pH value	Not Applicable	7.3	6.5-8.5	N/M	IS 3025 (Part 11) 2022	No Relaxation
7.	Total Hardness (as CaCo3)	mg/L	159.9	NMT 200	N/M	IS 3025 (Part-21): 2009	NMT 600
8.	Calcium (asCa)	mg/L	53.1	NMT 75	N/M	IS3025 (Part 40)1991	NMT 200
9.	Boron (as B)	mg/L	Not Detected	NMT 0.5	0.04	Annexure H of IS13428-2005	No Relaxation
10.	Chloride (as Cl)	mg/L	4.0	NMT 250	N/M	IS3025 (Part 32)1968	NMT 1000
11.	Sulphate (as SO4)	mg/L	3.20	NMT 200	1.0	IS 3025 (Part 24)1986	NMT 400
12.	Nitrate (asNO3)	mg/L	0.6	NMT 45	0.1	IS3025 (Part 34)1988	No Relaxation
		IDR00336 14-08-2024 17:57:09 Authorised Signatory			IDR01250 14-08-2024 17:58:09 QA Approver		
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TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
13.	Fluoride (asF)	mg/L	Less than .1	NMT 1.0	0.1	IS3025 (Part 60) 2008	NMT 1.5
14.	Phenolic Compounds(asC6H5OH)	mg/L	Not Detected	NMT 0.001	0.001	IS3025 (Part 43)1992	NMT 0.002
15.	Ammonia (as Total ammonia - N)	mg/L	0.03	NMT 0.5	0.01	IS 3025 (Part 34) 1988	No Relaxation
16.	Chloramines (as Cl2)	mg/L	Not detected	NMT 4.0	0.05	APHA (4500-CL)F	No Relaxation
17.	Sulphide (asH2S)	mg/L	Less than 0.05	NMT 0.05	0.05	IS3025 (Part 29) 2022	No Relaxation
18.	Cyanide (asCN)	mg/L	Not Detected	NMT 0.05	0.008	IS 3025(Part 27)1986	No Relaxation
19.	Anionic Detergent (asMBAS)	mg/L	Not Detected	NMT 0.2	0.05	Annexure Kof IS 13428-2005	NMT 1.0
20.	Mineral oil	mg/L	Not Detected	NMT 1.0	0.1	IS 3025 (Part-39) 2021	No Relaxation
21.	Residual free chlorine(as Cl2)	ppm	Not detected	NLT 0.2	0.05	APHA (4500-CL)F	NLT 1
22.	Total Alkalinity(asCaCO3)	mg/L	224.4	NMT 200	N/M	IS3025 (Part 23) : 2023	NMT 600
23.	Magnesium (asMg)	mg/L	6.6	NMT 30	N/M	IS 3025 (Part 46) 2023	NMT 100

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Heavy Metal							
1.	Copper, as Cu	mg/L	0.01	NMT 0.05	0.00510	APHA 3125B	NMT 1.5
2.	Iron, as Fe	mg/L	Below Detection Limit	NMT 1.0	0.00510	APHA 3125B	No Relaxation
3.	Manganese, as Mn	mg/L	Below Detection Limit	NMT 0.1	0.00510	APHA 3125B	NMT 0.3



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TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
4.	Mercury, as Hg	mg/L	Not Detected	NMT 0.001	0.00051	APHA 3125B	No Relaxation
5.	Cadmium, as Cd	mg/L	Not Detected	NMT 0.003	0.00255	APHA 3125B	No Relaxation
6.	Selenium, as Se	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No Relaxation
7.	Total arsenic, as As	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No Relaxation
8.	Barium, as Ba	mg/L	0.01	NMT 0.7	0.00510	APHA 3125B	No Relaxation
9.	Molybdenum, as Mo	mg/L	Below Detection Limit	NMT 0.07	0.00510	APHA 3125B	No Relaxation
10.	Nickel, as Ni	mg/L	Below Detection Limit	NMT 0.02	0.00510	APHA 3125B	No Relaxation
11.	Silver, as Ag	mg/L	Below Detection Limit	NMT 0.1	0.00510	APHA 3125B	No Relaxation
12.	Lead, as Pb	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No Relaxation
13.	Zinc, as Zn	mg/L	0.03	NMT 5	0.00510	APHA 3125B	NMT 15
14.	Total Chromium, as Cr	mg/L	0.01	NMT 0.05	0.00510	APHA 3125 B	No Relaxation
15.	Aluminium, as Al	mg/L	Below Detection Limit	NMT 0.03	0.00510	APHA 3125B	NMT 0.2

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Biological							
1.	Escherichia coli	in 100 mL	not detected	Should not be detected	N/M	IS:15185-2016	Should not be detected
2.	Total Coliform	in 100 mL	not detected	Should not be detected	N/M	IS:15185:2016	Should not be detected

[End of Report]

Remarks:

1. Test report shall not be reproduced either in part or in full, without written approval of CLL Management.
2. Sample not drawn by CLL representative and sample information as furnished by customer.
3. MDL Refer to Method Detection Limit



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IDR01250
14-08-2024 17:58:09

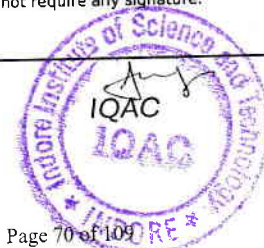
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For IIST/ IIP/ IIMR

Chief Administrative Officer

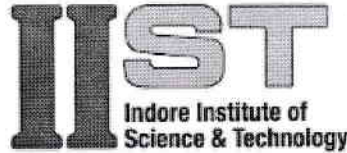


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Monday, 23 December 2024



Indore Institute of Science & Technology

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CERTIFICATE OF ANALYSIS



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Indore - 452010 (M.P.) INDIA

Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331	CoA ID: 01700511/24-25 Report No.: 01700511/24-25 (v1) Issue date: 14-08-2024 Customer Ref(s): N/M Customer ID: I1210045
Sample Name: BORE WELL WATER (Near Staff Flat) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 09-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M	Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 18-07-2024 Analysis End Date: 14-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 4 of 4

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

- It is recommended that the acceptable limit (specification) 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 up to the limits indicated under 'permissible' limit in the absence of alternate source. , above which the source will have to be rejected.
- Free Residual Chlorine Limit To be applicable only when water is chlorinated.
- pH value is reported as at 25 °C.
- Subject to terms and conditions mentioned at the end of the CoA.



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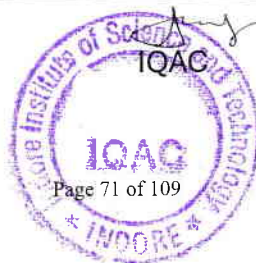
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IMPORTANT INFORMATION FOR CERTIFICATE OF ANALYSIS (CoA) / CERTIFICATE OF CALIBRATION (CoC):

1. Sample(s) / Instruments are drawn and submitted by the client unless otherwise stated.
2. This certificate refers only the particular item and reported parameters submitted for calibration / analysis.
3. The results reported in this certificate are valid for the sample / instrument received as is and at the time of and under the stipulated conditions of measurement.
4. This certificate is for the customer's information only, and can neither be used in part nor in full, in any media or court of law, without prior written permission of CLL.
5. Endorsement of products is neither inferred nor implied.
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7. Perishable samples will be destroyed after testing; toxic / hazardous samples will be returned to the customer or shall be forwarded for incineration.
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9. In the event, no zone is mentioned, CoA/CoC must be considered for Domestic (India) only

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CLL's SERVICE AREAS

Food & Beverages Testing Services

Agro Products (Food Raw Materials & Products, Milk & Milk Products, Agrochemicals, Fertilizers, Food Additives)

Drugs and Chemicals Testing Services:

Pharmaceuticals, Herbals, Cosmetics, Ayurvedic - Raw Materials, Formulations & Chemicals Analysis

Building Materials Testing Services:

Metals, Sand/Aggregate, Bricks, Paving Block, Cement, Paints, Minerals, PVC/HDPE Pipes, Packaging Materials & Wood Products, On-site inspection services for soil and constructions sites.

Water & Waste Water:

Drinking Water (IS:10500), Purified water for pharmaceutical use, Recreational Water, EPA / WHO Water, Water for Injections, Water for food processing, Water for dialysis etc.

Calibration Services:

Thermal, Mechanical (Mass, Volume, Speed, Pressure, Vacuum), Area / Autoclave / Steam tunnel Mapping, Electro-technical, Dimension, etc.

Other Testing, Research & Validation services:

Toys testing, Disinfectants / Sanitizers testing, Consumer products (such as Water purifiers, Sterilizers etc.), Soil investigation & analysis, Waste / Used oil for recycling / Incineration, etc.

Environment Services:

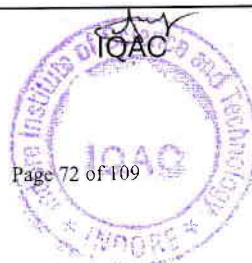
Indoor and Outdoor Monitoring for workplaces / hotels / hospitals / homes etc., Industrial monitoring - ambient and stack, River/Lake water quality survey.

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CLL's LAB LOCATIONS

Indore Laboratory (Corporate Office & Center of Excellence) Survey No. 9/1, Balaji Tulsiyana Industrial Estate, Kurnedi, Off MR10 Toll Plaza, Indore (M.P.) - 452010 Tel: +91-731-3501112 (60 lines) E-mail : bd@choksilab.com	
CLL Baroda Laboratory 829 GIDC, Makarpura Baroda - 390010 Tel: +91-265-2978001 E-mail : baroda@choksilab.com	CLL Panchkula Laboratory Plot No. 362, Industrial Area, Phase -II, Panchkula - 734 112 (Haryana) Tel: +91-172-5048600 / 01 / 02 E-mail : panchkula@choksilab.com
CLL Vapi Laboratory 32, Vibrant Business Park, Opp. UPL, N.H. - 48, Vapi, Gujarat, India 396195 Tel: +91-260-2433488, 2432715, 2432731 E-mail : vapi@choksilab.com	CLL Goa Laboratory C-18, C-20 Verna Industrial Estate, Phase - 1A, Verna - 403722, Goa (India) Tel: +91-838-0033301 / 02 / 03 / 04 E-mail : goa@choksilab.com

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Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331	CoA ID: 01700512/24-25 Report No.: 01700512/24-25 (v1) Issue date: 16-08-2024 Customer Ref(s): N/M Customer ID: I1210045
Sample Name: BORE WELL WATER (Bore at Nallah) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 09-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M	Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 18-07-2024 Analysis End Date: 14-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 1 of 4
Description :- Clear colorless liquid without suspended particles	

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Chemical							
1.	Colour	Hazen unit	Less than 1	NMT 5	N/M	IS 3025 (Part 4) 2021	NMT 15
2.	Odour	Not Applicable	Agreeable	Agreeable	N/M	IS 3025 (Part 5) 2018	Agreeable
3.	Taste	Not Applicable	Agreeable	Agreeable	N/M	IS3025(Part -8) 2023	Agreeable
4.	Turbidity	NTU	0.6	NMT 1	N/M	IS 3025 (Part 10): 2023	NMT 5
5.	Total Dissolved Solids	mg/L	278	NMT 500	N/M	IS 3025 (Part 16): 2023	NMT 2000
6.	pH value	Not Applicable	7.3	6.5-8.5	N/M	IS 3025 (Part 11) 2022	No Relaxation
7.	Total Hardness (as CaCO ₃)	mg/L	214.5	NMT 200	N/M	IS 3025 (Part-21): 2009	NMT 600
8.	Calcium (asCa)	mg/L	59.3	NMT 75	N/M	IS3025 (Part 40)1991	NMT 200
9.	Boron (as B)	mg/L	Not Detected	NMT 0.5	0.04	Annexure H of IS13428-2005	NMT 1.0
10.	Chloride (as Cl)	mg/L	20.1	NMT 250	N/M	IS3025 (Part 32)1988	NMT 1000
11.	Sulphate (as SO ₄)	mg/L	9.1	NMT 200	1.0	IS 3025 (Part 24)1986	NMT 400



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Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331	CoA ID: 01700512/24-25 Report No.: 01700512/24-25 (v1) Issue date: 16-08-2024 Customer Ref(s): N/M Customer ID: I210045
Sample Name: BORE WELL WATER (Bore at Nallah) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 09-07-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M	Sample Quantity: 5 Liter+500 ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 18-07-2024 Analysis End Date: 14-08-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 2 of 4

Description :- Clear colorless liquid without suspended particles

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
12.	Nitrate (asNO3)	mg/L	0.3	NMT 45	0.1	IS3025 (Part 34)1988	No Relaxation
13.	Fluoride (asF)	mg/L	Less than .1	NMT 1.0	0.1	IS3025 (Part 60) 2008	NMT 1.5
14.	Phenolic Compounds(asC6H5OH)	mg/L	Not Detected	NMT 0.001	0.001	IS3025 (Part 43)1992	NMT 0.002
15.	Ammonia (as Total ammonia - N)	mg/L	0.03	NMT 0.5	0.01	IS 3025 (Part 34) 1988	No relaxation
16.	Chloramines (as Cl2)	mg/L	Not detected	NMT 4.0	0.05	APHA (4500-CL)F	No relaxation
17.	Sulphide (asH2S)	mg/L	Less than 0.05	NMT 0.05	0.05	IS3025 (Part 29) 2022	No relaxation
18.	Cyanide (asCN)	mg/L	Not Detected	NMT 0.05	0.008	IS 3025(Part 27)1986	No Relaxation
19.	Anionic Detergent (asMBAS)	mg/L	Not Detected	NMT 0.2	0.05	Annexure Kof IS 13428-2005	NMT 1.0
20.	Mineral oil	mg/L	Not detected	NMT 1.0	0.1	IS 3025 (Part-39) 2021	No Relaxation
21.	Residual free chlorine(as cl2)	ppm	Not detected	NLT 0.2	0.05	APHA (4500-CL)F	NLT 1
22.	Total Alkalinity(asCaCO3)	mg/L	238.2	NMT 200	N/M	IS3025 (Part 23) : 2023	NMT 600
23.	Magnesium (asMg)	mg/L	16.1	NMT 30	N/M	IS 3025 (Part 46) 2023	NMT 100

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Heavy Metal							
1.	Copper, as Cu	mg/L	0.02	NMT 0.05	0.00510	APHA 3125B	NMT 1.5



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Chief Administrative Officer



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Description :- Clear colorless liquid without suspended particles	

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
2.	Iron, as Fe	mg/L	Not Detected	NMT 1.0	0.00510	APHA 3125B	No relaxation
3.	Manganese, as Mn	mg/L	Below Detection Limit	NMT 0.1	0.00510	APHA 3125B	NMT 0.3
4.	Mercury, as Hg	mg/L	Below Detection Limit	NMT 0.001	0.00051	APHA 3125B	No relaxation
5.	Cadmium, as Cd	mg/L	Not Detected	NMT 0.003	0.00255	APHA 3125B	No relaxation
6.	Selenium, as Se	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No relaxation
7.	Total arsenic, as As	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No relaxation
8.	Barium, as Ba	mg/L	0.01	NMT 0.7	0.00510	APHA 3125B	No relaxation
9.	Molybdenum, as Mo	mg/L	Below Detection Limit	NMT 0.07	0.00510	APHA 3125B	No relaxation
10.	Nickel, as Ni	mg/L	Below Detection Limit	NMT 0.02	0.00510	APHA 3125B	No relaxation
11.	Silver, as Ag	mg/L	Below Detection Limit	NMT 0.1	0.00510	APHA 3125B	No relaxation
12.	Lead, as Pb	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No relaxation
13.	Zinc, as Zn	mg/L	0.06	NMT 5	0.00510	APHA 3125B	NMT 15
14.	Total Chromium, as Cr	mg/L	0.01	NMT 0.05	0.00510	APHA 3125 B	No relaxation
15.	Aluminium, as Al	mg/L	0.09	NMT 0.03	0.00510	APHA 3125B	NMT 0.2

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Biological							
1.	Escherichia coli	in 100 mL	not detected	Should not be detected	N/M	IS:15185-2016	Should not be detected
2.	Total Coliform	in 100 mL	not detected	Should not be detected	N/M	IS:15185:2016	Should not be detected

[End of Report]



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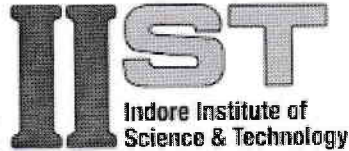
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Remarks:

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2. Test report shall not be reproduced either in part or in full, without written approval of CLL Management.
3. MDL Refer to Method Detection Limit
4. It is recommended that the acceptable limit (specification) 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 up to the limits indicated under 'permissible' limit in the absence of alternate source. , above which the source will have to be rejected.
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4. This certificate is for the customer's information only, and can neither be used in part nor in full, in any media or court of law, without prior written permission of CLL.
5. Endorsement of products is neither inferred nor implied.
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Water & Waste Water:

Drinking Water (IS:10500), Purified water for pharmaceutical use, Recreational Water, EPA / WHO Water, Water for Injections, Water for food processing, Water for dialysis etc.

Calibration Services:

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Other Testing, Research & Validation services:

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Environment Services:

Indoor and Outdoor Monitoring for workplaces / hotels / hospitals / homes etc., Industrial monitoring - ambient and stack, River/Lake water quality survey.

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CLL's LAB LOCATIONS

<p>Indore Laboratory (Corporate Office & Center of Excellence)</p> <p>Survey No. 9/1, Balaji Tulsiyana Industrial Estate, Kumed, Off MR10 Toll Plaza, Indore (M.P.) - 452010 Tel: +91-731-3501112 (60 lines) E-mail : bd@choksilab.com</p>	
<p>CLL Baroda Laboratory</p> <p>829 GIDC, Makarpura Baroda - 390010 Tel: +91-265-2978001 E-mail : baroda@choksilab.com</p>	<p>CLL Panchkula Laboratory</p> <p>Plot No. 362, Industrial Area, Phase -II, Panchkula - 734 112 (Haryana) Tel: +91-172-5048600 / 01 / 02 E-mail : panchkula@choksilab.com</p>
<p>CLL Vapi Laboratory</p> <p>32, Vibrant Business Park, Opp. UPL. N.H. - 48, Vapi, Gujarat, India 396195 Tel: +91-260-2433488, 2432715, 2432731 E-mail : vapi@choksilab.com</p>	<p>CLL Goa Laboratory</p> <p>C-18, C-20 Verna Industrial Estate, Phase - 1A, Verna - 403722, Goa (India) Tel: +91-838-0033301 / 02 / 03 / 04 E-mail : goa@choksilab.com</p>

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1. Drinking Water Boys Hostel Report Dated- 15 Octo 2024

CERTIFICATE OF ANALYSIS							
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Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331		CoA ID: 01700891/24-25 Report No.: 01700891/24-25 (v1) ULR No.: TC638424000002361F Issue date: 15-10-2024 Customer Ref(s): N/M Customer ID: IJ210045					
Sample Name: DRINKING WATER (Boys Hostel) Manufacture License No.: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 26-09-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M		Sample Quantity: 10 Liter+500ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 30-09-2024 Analysis End Date: 15-10-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 1 of 4					
Description :- Clear colorless liquid without suspended particles							
TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)							
Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Discipline: Chemical Group: Water Subgroup: Drinking Water Chemical Parameters							
1.	Colour	Hazen unit	Less than 1	NMT 5	N/M	IS : 3025(Part 4)-2021	NMT 15
2.	Odour	Not Applicable	Agreeable	Agreeable	N/M	IS : 3025(Part 5)-2018	Agreeable
3.	Taste	Not Applicable	Agreeable	Agreeable	N/M	IS : 3025(Part 8)-2023	Agreeable
4.	Turbidity	NTU	0.2	NMT 1	N/M	IS : 3025(Part 10)-2023	NMT 5
5.	Total dissolved solids	mg/L	383	NMT 500	N/M	IS : 3025(Part 16)-2023	NMT 2000
6.	pH value	Not Applicable	7.1	6.5-8.5	N/M	IS : 3025(Part 11)-2022	No relaxation
7.	Total Hardness, as CaCO ₃	mg/L	246.2	NMT 200	N/M	IS : 3025(Part 21)-2009	NMT 600
8.	Calcium, as Ca	mg/L	66.4	NMT 75	N/M	IS : 3025(Part 40)-1991	NMT 200
9.	Boron, as B	mg/L	Not Detected	NMT 0.5	0.04	Annex H of IS : 13428-2005	NMT 1.0
10.	Chloride, as Cl	mg/L	25.2	NMT 250	N/M	IS : 3025(Part 32)-1988	NMT 1000
		IDR00336 15-10-2024 15:24:20 Authorised Signatory			IDR01250 15-10-2024 16:29:06 QA Approver		
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Admin

For IIST/ IIP/ NMR

Chief Administrative Officer



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Monday, 23 December 2024



CERTIFICATE OF ANALYSIS



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Indore - 452010 (M.P.) INDIA



TC-6384

Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331	CoA ID: 01700891/24-25 Report No.: 01700891/24-25 (v1) ULR No.: TC638424000002361F Issue date: 15-10-2024 Customer Ref(s): N/M Customer ID: I1210045
Sample Name: DRINKING WATER (Boys Hostel) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 26-09-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M	Sample Quantity: 10 Liter+500ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 30-09-2024 Analysis End Date: 15-10-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 2 of 4

Description :- Clear colorless liquid without suspended particles

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
11.	Sulphate, as SO4	mg/L	9.4	NMT 200	1.0	IS : 3025(Part 24)-1986	NMT 400
12.	Nitrate, as NO3	mg/L	4.7	NMT 45	0.1	IS : 3025(Part 34)-1988	No relaxation
13.	Fluoride, as F	mg/L	Less than 0.1	NMT 1.0	N/M	IS : 3025(Part 60)-2008	NMT 1.5
14.	Phenolic Compounds, as C6H5OH	mg/L	Not Detected	NMT 0.001	0.001	IS : 3025(Part 43)-1992	NMT 0.002
15.	Ammonia (as total ammonia-N)	mg/L	0.02	NMT 0.5	0.01	IS : 3025(Part 34)-1988	No relaxation
16.	Chloramines (as Cl2)	mg/L	Not Detected	NMT 4.0	0.05	APHA 4500 Cl F	No relaxation
17.	Sulphide, as H2S	mg/L	Less than 0.05	NMT 0.05	0.05	IS : 3025(Part 29) 2022	No relaxation
18.	Cyanide, as CN	mg/L	Not Detected	NMT 0.05	0.0008	IS : 3025(Part 27)-1986	No relaxation
19.	Anionic Detergents, as MBAS	mg/L	Not Detected	NMT 0.2	0.05	Annex K of IS : 13428-2005	NMT 1.0
20.	Mineral oil	mg/L	Not Detected	NMT 1.0	0.1	IS : 3025(Part 39)-2021	No relaxation
21.	Residual free chlorine, as Cl2	mg/L	Not Detected	NLT 0.2	0.05	APHA 4500 Cl F	NLT 1
22.	Total Alkalinity, as CaCO3	mg/L	206.1	NMT 200	N/M	IS : 3025(Part 23) 2023	NMT 600
23.	Magnesium, as Mg	mg/L	19.1	NMT 30	N/M	IS : 3025(Part 46)-2023	NMT 100



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15-10-2024 16:29:06

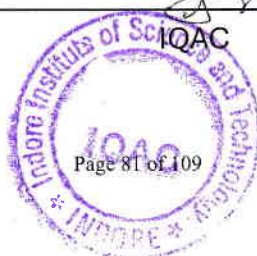
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Admin

For IIST/ IIP/ IIMR

[Signature]
Chief Administrative Officer



Principal

Principal

Indore Institute of Science
and Technology, Indore

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Description :- Clear colorless liquid without suspended particles

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Discipline: Chemical Group: Water Subgroup: Drinking Water Heavy Metal							
1.	Copper, as Cu	mg/L	Not Detected	NMT 0.05	0.00510	APHA (3125 B)	NMT 1.5
2.	Iron, as Fe	mg/L	Not Detected	NMT 1.0	0.00510	APHA (3125 B)	No relaxation
3.	Manganese, as Mn	mg/L	Not Detected	NMT 0.1	0.00510	APHA (3125 B)	NMT 0.3
4.	Mercury, as Hg	mg/L	Below Detection Limit	NMT 0.001	0.000510	APHA (3125 B)	No relaxation
5.	Selenium, as Se	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA (3125 B)	No relaxation
6.	Total Arsenic, as As	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA (3125 B)	No relaxation
7.	Barium, as Ba	mg/L	0.01	NMT 0.7	0.00510	APHA (3125 B)	No relaxation
8.	Molybdenum, as Mo	mg/L	Below Detection Limit	NMT 0.07	0.00510	APHA (3125 B)	No relaxation
9.	Nickel, as Ni	mg/L	Not Detected	NMT 0.02	0.00510	APHA (3125 B)	No relaxation
10.	Silver, as Ag	mg/L	Not Detected	NMT 0.1	0.00105	APHA (3125 B)	No relaxation
11.	Lead, as Pb	mg/L	Not Detected	NMT 0.01	0.00510	APHA (3125 B)	No relaxation
12.	Zinc, as Zn	mg/L	0.01	NMT 5	0.00510	APHA (3125 B)	NMT 15
13.	Total chromium, as Cr	mg/L	Below Detection Limit	NMT 0.05	0.00510	APHA (3125 B)	No relaxation
14.	Aluminium, as Al	mg/L	Below Detection Limit	NMT 0.03	0.00510	APHA (3125 B)	NMT 0.2
15.	Cadmium, as Cd	mg/L	Not Detected	NMT 0.003	0.00255	APHA (3125 B)	No relaxation



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15-10-2024 16:29:06

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IQAC

Principal

For IIST/ IIP/ IIMR

Chief Administrative Officer

Principal

Indore Institute of Science
and Technology, Indore

Monday, 23 December 2024



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Description :- Clear colorless liquid without suspended particles

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Discipline: Biological Group: Water Subgroup: Drinking Water Microbiological							
1.	Total Coliform Bacteria	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185:2016	Should not be detected
2.	Escherichia coli	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185:2016	Should not be detected

[End of Report]

Remarks:

- Sample not drawn by CLL representative and sample information as furnished by customer.
- Test report shall not be reproduced either in part or in full, without written approval of CLL Management.
- MDL Refer to Method Detection Limit
- It is recommended that the acceptable limit (specification) 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 up to the limits indicated under 'permissible' limit in the absence of alternate source. , above which the source will have to be rejected.
- Free Residual Chlorine Limit To be applicable only when water is chlorinated.
- pH value is reported as at 25 °C.
- Subject to terms and conditions mentioned at the end of the CoA.
- This certificate refers only the particular item tested and reported parameters submitted for analysis
- This certificate is for the customer's information only, and can neither be used in part nor in full, in any media or court of law, without prior written permission of CLL.
- Endorsement of products is neither inferred nor implied.
- In case of any dispute, Indore jurisdiction is applicable.
- Total Liability of CLL is limited to the invoiced amount.



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Chief Administrative Officer



Page 83 of 109

Monday, 23 December 2024

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IMPORTANT INFORMATION FOR CERTIFICATE OF ANALYSIS (CoA) / CERTIFICATE OF CALIBRATION (CoC):

1. Sample(s) / Instruments are drawn and submitted by the client unless otherwise stated.
2. This certificate refers only the particular item and reported parameters submitted for calibration / analysis.
3. The results reported in this certificate are valid for the sample / Instrument received as is and at the time of and under the stipulated conditions of measurement.
4. This certificate is for the customer's information only, and can neither be used in part nor in full, in any media or court of law, without prior written permission of CLL.
5. Endorsement of products is neither inferred nor implied.
6. In case of any dispute, Indore jurisdiction is applicable.
7. Perishable samples will be destroyed after testing; toxic / hazardous samples will be returned to the customer or shall be forwarded for incineration.
8. Total Liability of CLL is limited to the invoiced amount.
9. In the event, no zone is mentioned, CoA/CoC must be considered for Domestic (India) only

CLL LABS - APPROVALS / ACCREDITATIONS BY:



Note: Each CLL lab has different approvals / accreditations. Please check with the on-site BD cell for any specific registrations / submissions prior to sending test request. Your test request must mention the purpose / regulatory body / agency for which the testing is to be carried out.

CLL's SERVICE AREAS

Food & Beverages Testing Services

Agro Products (Food Raw Materials & Products, Milk & Milk Products, Agrochemicals, Fertilizers, Food Additives)

Drugs and Chemicals Testing Services:

Pharmaceuticals, Herbals, Cosmetics, Ayurvedic - Raw Materials, Formulations & Chemicals Analysis

Building Materials Testing Services:

Metals, Sand/Aggregate, Bricks, Paving Block, Cement, Paints, Minerals, PVC/HDPE Pipes, Packaging Materials & Wood Products, On-site inspection services for soil and constructions sites.

Water & Waste Water:

Drinking Water (IS:10500), Purified water for pharmaceutical use, Recreational Water, EPA / WHO Water, Water for Injections, Water for food processing, Water for dialysis etc.

Calibration Services:

Thermal, Mechanical (Mass, Volume, Speed, Pressure, Vacuum), Area / Autoclave / Steam tunnel Mapping, Electro-technical, Dimension, etc.

Other Testing, Research & Validation services:

Toys testing, Disinfectants / Sanitizers testing, Consumer products (such as Water purifiers, Sterilizers etc.), Soil investigation & analysis, Waste / Used oil for recycling / Incineration, etc.

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Indoor and Outdoor Monitoring for workplaces / hotels / hospitals / homes etc., Industrial monitoring - ambient and stack, River/Lake water quality survey.

Admin

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Monday, 23 December 2024

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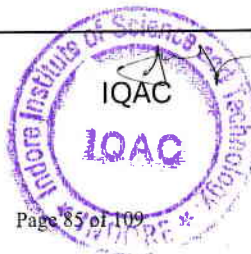
CLL's LAB LOCATIONS

<p>Indore Laboratory (Corporate Office & Center of Excellence)</p> <p>Survey No. 9/1, Balaji Tulsiyana Industrial Estate, Kumedi, Off MR10 Toll Plaza, Indore (M.P.) - 452010 Tel: +91-731-3501112 (60 lines) E-mail : bd@choksilab.com</p>	
<p>CLL Baroda Laboratory</p> <p>829 GIDC, Makarpura Baroda - 390010</p> <p>Tel: +91-265-2978001 E-mail : baroda@choksilab.com</p>	<p>CLL Panchkula Laboratory</p> <p>Plot No. 362, Industrial Area, Phase -II, Panchkula - 734 112 (Haryana) Tel: +91-172-5048600 / 01 / 02 E-mail : panchkula@choksilab.com</p>
<p>CLL Vapi Laboratory</p> <p>32, Vibrant Business Park, Opp. UPL, N.H. - 48, Vapi, Gujarat, India 396195 Tel: +91-260-2433488, 2432715, 2432731 E-mail : vapi@choksilab.com</p>	<p>CLL Goa Laboratory</p> <p>C-18, C-20 Verna Industrial Estate, Phase - 1A, Verna - 403722, Goa (India) Tel: +91-838-0033301 / 02 / 03 / 04 E-mail : goa@choksilab.com</p>

Admin

For IIST/ IIP/ IIMR

Chief Administrative Officer



Principal

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Monday, 23 December 2024



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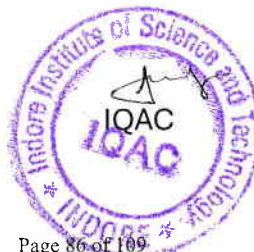
m. Drinking Water Girls Hostel Report Dated- 15 Octo 2024

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Discipline: Chemical Group: Water Subgroup: Drinking Water Chemical Parameters							
1.	Colour	Hazen unit	Less than 1	NMT 5	N/M	IS : 3025(Part 4)-2021	NMT 15
2.	Odour	Not Applicable	Agreeable	Agreeable	N/M	IS : 3025(Part 5)-2018	Agreeable
3.	Taste	Not Applicable	Agreeable	Agreeable	N/M	IS : 3025(Part 8)-2023	Agreeable
4.	Turbidity	NTU	0.3	NMT 1	N/M	IS : 3025(Part 10)-2023	NMT 5
5.	Total dissolved solids	mg/L	152	NMT 500	N/M	IS : 3025(Part 16)-2023	NMT 2000
6.	pH value	Not Applicable	7.2	6.5-8.5	N/M	IS : 3025(Part 11)-2022	No relaxation
7.	Total Hardness, as CaCO3	mg/L	59.1	NMT 200	N/M	IS : 3025(Part 21)-2009	NMT 600
8.	Calcium, as Ca	mg/L	10.9	NMT 75	N/M	IS : 3025(Part 40)-1991	NMT 200
9.	Boron, as B	mg/L	Not Detected	NMT 0.5	0.04	Annex H of IS : 13428-2005	NMT 1.0
10.	Chloride, as Cl	mg/L	6	NMT 250	N/M	IS : 3025(Part 32)-1988	NMT 1000
		IDR00336 15-10-2024 14:54:03 Authorized Signatory			IDR01250 15-10-2024 16:33:02 QA Approver		
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For IIST/ IIP/ IIMP

Chief Administrative Officer



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Description :- Clear colorless liquid without suspended particles

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Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
11.	Sulphate, as SO4	mg/L	Not Detected	NMT 200	1.0	IS : 3025(Part 24)-1986	NMT 400
12.	Nitrate, as NO3	mg/L	Not Detected	NMT 45	0.1	IS : 3025(Part 34)-1988	No relaxation
13.	Fluoride, as F	mg/L	Less than 0.1	NMT 1.0	N/M	IS : 3025(Part 60)-2008	NMT 1.5
14.	Phenolic Compounds, as C6H5OH	mg/L	Not Detected	NMT 0.001	0.001	IS : 3025(Part 43)-1992	NMT 0.002
15.	Ammonia (as total ammonia-N)	mg/L	0.02	NMT 0.5	0.01	IS : 3025(Part 34)-1988	No relaxation
16.	Chloramines (as Cl2)	mg/L	Not Detected	NMT 4.0	0.05	APHA 4500 Cl F	No relaxation
17.	Sulphide, as H2S	mg/L	Less than 0.05	NMT 0.05	0.05	IS : 3025(Part 29) 2022	No relaxation
18.	Cyanide, as CN	mg/L	Not Detected	NMT 0.05	0.0008	IS : 3025(Part 27)-1986	No relaxation
19.	Anionic Detergents, as MBAS	mg/L	Not Detected	NMT 0.2	0.05	Annex K of IS : 13428-2005	NMT 1.0
20.	Mineral oil	mg/L	Not Detected	NMT 1.0	0.1	IS : 3025(Part 39)-2021	No relaxation
21.	Residual free chlorine, as Cl2	mg/L	Not Detected	NLT 0.2	0.05	APHA 4500 Cl F	NLT 1
22.	Total Alkalinity, as CaCO3	mg/L	36.6	NMT 200	N/M	IS : 3025(Part 23) 2023	NMT 600
23.	Magnesium, as Mg	mg/L	7.6	NMT 30	N/M	IS : 3025(Part 46)-2023	NMT 100



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15-10-2024 14:54:03

Authorised Signatory

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15-10-2024 16:33:02

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TC-6384

Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331	CoA ID: 01700892/24-25 Report No.: 01700892/24-25 (v1) ULR No.: TC638424000002363F Issue date: 15-10-2024 Customer Ref(s): N/M Customer ID: I1210045
Sample Name: DRINKING WATER (Girls Hostel) Manufacture License No: N/M Manufacturer Name: N/M Manufacturing Date: N/M Reference of Letter: N/M Date of Letter: N/M Date of Receipt: 26-09-2024 Batch Number: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M	Sample Quantity: 10 Liter+500ml Sealed / Unsealed: Unsealed Packing: PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 30-09-2024 Analysis End Date: 14-10-2024 Sampling Date: N/M Sampled By: Client Sampling Location: N/M Page Number: 3 of 4

Description :- Clear colorless liquid without suspended particles

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Discipline: Chemical Group: Water Subgroup: Drinking Water Heavy Metal							
1.	Copper, as Cu	mg/L	0.01	NMT 0.05	0.00510	APHA (3125 B)	NMT 1.5
2.	Iron, as Fe	mg/L	Not Detected	NMT 1.0	0.00510	APHA (3125 B)	No relaxation
3.	Manganese, as Mn	mg/L	Below Detection Limit	NMT 0.1	0.00510	APHA (3125 B)	NMT 0.3
4.	Mercury, as Hg	mg/L	Not Detected	NMT 0.001	0.000510	APHA (3125 B)	No relaxation
5.	Selenium, as Se	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA (3125 B)	No relaxation
6.	Total Arsenic, as As	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA (3125 B)	No relaxation
7.	Barium, as Ba	mg/L	Below Detection Limit	NMT 0.7	0.00510	APHA (3125 B)	No relaxation
8.	Molybdenum, as Mo	mg/L	Below Detection Limit	NMT 0.07	0.00510	APHA (3125 B)	No relaxation
9.	Nickel, as Ni	mg/L	Not Detected	NMT 0.02	0.00510	APHA (3125 B)	No relaxation
10.	Silver, as Ag	mg/L	Below Detection Limit	NMT 0.1	0.00105	APHA (3125 B)	No relaxation
11.	Lead, as Pb	mg/L	Not Detected	NMT 0.01	0.00510	APHA (3125 B)	No relaxation
12.	Zinc, as Zn	mg/L	0.09	NMT 5	0.00510	APHA (3125 B)	NMT 15
13.	Total chromium, as Cr	mg/L	Below Detection Limit	NMT 0.05	0.00510	APHA (3125 B)	No relaxation
14.	Aluminium, as Al	mg/L	0.01	NMT 0.03	0.00510	APHA (3125 B)	NMT 0.2
15.	Cadmium, as Cd	mg/L	Below Detection Limit	NMT 0.003	0.00255	APHA (3125 B)	No relaxation



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For IIST/ IIP/ IIMR

Chief Administrative Officer



Principal

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Indore Institute of Science
and Technology, Indore
Monday, 23 December 2024



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CERTIFICATE OF ANALYSIS



Issued from:
Choksi Laboratories Limited (Building - 2 "Pasteur")
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Description :- Clear colorless liquid without suspended particles

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Discipline: Biological Group: Water Subgroup: Drinking Water Microbiological							
1.	Total Coliform Bacteria	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185:2016	Should not be detected
2.	Escherichia coli	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185:2016	Should not be detected

[End of Report]

Remarks:

- Sample not drawn by CLL representative and sample information as furnished by customer.
- Test report shall not be reproduced either in part or in full, without written approval of CLL Management.
- MDL Refer to Method Detection Limit
- It is recommended that the acceptable limit (specification) 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 up to the limits indicated under 'permissible' limit in the absence of alternate source. , above which the source will have to be rejected.
- Free Residual Chlorine Limit To be applicable only when water is chlorinated.
- pH value is reported as at 25 °C.
- Subject to terms and conditions mentioned at the end of the CoA.
- This certificate refers only the particular item tested and reported parameters submitted for analysis
- This certificate is for the customer's information only, and can neither be used in part nor in full, in any media or court of law, without prior written permission of CLL.
- Endorsement of products is neither inferred nor implied.
- In case of any dispute, Indore jurisdiction is applicable.
- Total Liability of CLL is limited to the invoiced amount.



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IMPORTANT INFORMATION FOR CERTIFICATE OF ANALYSIS (CoA) / CERTIFICATE OF CALIBRATION (CoC):

1. Sample(s) / Instruments are drawn and submitted by the client unless otherwise stated.
2. This certificate refers only the particular item and reported parameters submitted for calibration / analysis.
3. The results reported in this certificate are valid for the sample / instrument received as is and at the time of and under the stipulated conditions of measurement.
4. This certificate is for the customer's information only, and can neither be used in part nor in full, in any media or court of law, without prior written permission of CLL.
5. Endorsement of products is neither inferred nor implied.
6. In case of any dispute, Indore jurisdiction is applicable.
7. Perishable samples will be destroyed after testing; toxic / hazardous samples will be returned to the customer or shall be forwarded for incineration.
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9. In the event, no zone is mentioned, CoA/CoC must be considered for Domestic (India) only

CLL LABS - APPROVALS / ACCREDITATIONS BY:



Note: Each CLL lab has different approvals / accreditations. Please check with the on-site BD cell for any specific registrations / submissions prior to sending test request. Your test request must mention the purpose / regulatory body / agency for which the testing is to be carried out.

CLL's SERVICE AREAS

Food & Beverages Testing Services

Agro Products (Food Raw Materials & Products, Milk & Milk Products, Agrochemicals, Fertilizers, Food Additives)

Drugs and Chemicals Testing Services:

Pharmaceuticals, Herbals, Cosmetics, Ayurvedic - Raw Materials, Formulations & Chemicals Analysis

Building Materials Testing Services:

Metals, Sand/Aggregate, Bricks, Paving Block, Cement, Paints, Minerals, PVC/HDPE Pipes, Packaging Materials & Wood Products. On-site inspection services for soil and constructions sites.

Water & Waste Water:

Drinking Water (IS:10500), Purified water for pharmaceutical use, Recreational Water, EPA / WHO Water, Water for Injections, Water for food processing, Water for dialysis etc.

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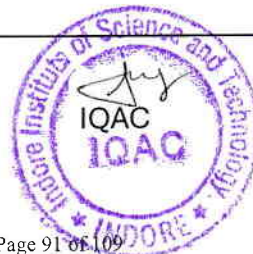
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CLL's LAB LOCATIONS*

Indore Laboratory (Corporate Office & Center of Excellence)	
Survey No. 9/1, Balaji Tulsiyana Industrial Estate, Kumedi, Off MR10 Toll Plaza, Indore (M.P.) - 452010 Tel: +91-731-3501112 (60 lines) E-mail : bd@choksilab.com	
CLL Baroda Laboratory	CLL Panchkula Laboratory
829 GIDC, Makarpura Baroda - 390010 Tel: +91-265-2978001 E-mail : baroda@choksilab.com	Plot No. 362, Industrial Area, Phase -II, Panchkula - 734 112 (Haryana) Tel: +91-172-5048600 / 01 / 02 E-mail : panchkula@choksilab.com
CLL Vapi Laboratory	CLL Goa Laboratory
32, Vibrant Business Park, Opp. UPL, N.H. - 48, Vapi, Gujarat, India 396195 Tel: +91-260-2433488, 2432715, 2432731 E-mail : vapi@choksilab.com	C-18, C-20 Verna Industrial Estate, Phase - 1A, Verna - 403722, Goa (India) Tel: +91-838-0033301 / 02 / 03 / 04 E-mail : goa@choksilab.com

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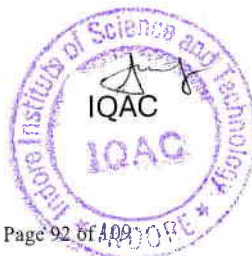
n. Drinking Water Staff Quarter Report Dated- 15 Octo 2024

CERTIFICATE OF ANALYSIS							
		Issued from: Choksi Laboratories Limited (Building - 2 "Pasteur") Survey No. 9/1, Balaji Tulsiyana Industrial Estate, Kumed, Off. M.R. 10 Toll Naka, Indore - 452010 (M.P.) INDIA			 TC-6384		
Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331		CoA ID: 01700893/24-25 Report No.: 01700893/24-25 (v1) ULR No.: TC638424000002364F Issue date: 15-10-2024 Customer Ref(s): N/M Customer ID: I1210045		Sample Name: DRINKING WATER (Staff Quarter) Sample Quantity: 10 Liter+500ml Manufacturer License No: N/M Sealed / Unsealed: Unsealed Manufacturer Name: N/M Packing: PLASTIC CAN+ PLASTIC BOTTLE Manufacturing Date: N/M Analysis Start Date: 30-09-2024 Reference of Letter: N/M Analysis End Date: 14-10-2024 Date of Letter: N/M Sampling Date: N/M Date of Receipt: 26-09-2024 Sampled By: Client Batch Number: N/M Sampling Location: N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date: N/M		Page Number: 1 of 4	
Description :- Clear colorless liquid without suspended particles							
TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)							
Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Discipline: Chemical Group: Water Subgroup: Drinking Water Chemical Parameters							
1.	Colour	Hazen unit	Less than 1	NMT 5	N/M	IS : 3025(Part 4)-2021	NMT 15
2.	Odour	Not Applicable	Agreeable	Agreeable	N/M	IS : 3025(Part 5)-2016	Agreeable
3.	Taste	Not Applicable	Agreeable	Agreeable	N/M	IS : 3025(Part 8)-2023	Agreeable
4.	Turbidity	NTU	0.3	NMT 1	N/M	IS : 3025(Part 10)-2023	NMT 5
5.	Total dissolved solids	mg/L	385	NMT 500	N/M	IS : 3025(Part 16)-2023	NMT 2000
6.	pH value	Not Applicable	7.2	6.5-8.5	N/M	IS : 3025(Part 11)-2022	No relaxation
7.	Total Hardness, as CaCO3	mg/L	285.6	NMT 200	N/M	IS : 3025(Part 21)-2009	NMT 500
8.	Calcium, as Ca	mg/L	78.1	NMT 75	N/M	IS : 3025(Part 40)-1991	NMT 200
9.	Boron, as B	mg/L	Not Detected	NMT 0.5	0.04	Annex H of IS : 13428-2005	NMT 1.0
10.	Chloride, as Cl	mg/L	45.3	NMT 250	N/M	IS : 3025(Part 32)-1988	NMT 1000
		IDR00336 15-10-2024 14:53:29 Authorised Signatory			IDR01250 15-10-2024 16:35:05 QA Approver		
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Description :- Clear colorless liquid without suspended particles	

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
11.	Sulphate, as SO4	mg/L	8.3	NMT 200	1.0	IS : 3025(Part 24)-1986	NMT 400
12.	Nitrate, as NO3	mg/L	5.0	NMT 45	0.1	IS : 3025(Part 34)-1988	No relaxation
13.	Fluoride, as F	mg/L	Less than 0.1	NMT 1.0	N/M	IS : 3025(Part 60)-2008	NMT 1.5
14.	Phenolic Compounds, as C6H5OH	mg/L	Not Detected	NMT 0.001	0.001	IS : 3025(Part 43)-1992	NMT 0.002
15.	Ammonia (as total ammonia-N)	mg/L	0.02	NMT 0.5	0.01	IS : 3025(Part 34)-1988	No relaxation
16.	Chloramines (as Cl2)	mg/L	Not Detected	NMT 4.0	0.05	APHA 4500 Cl F	No relaxation
17.	Sulphide, as H2S	mg/L	Less than 0.05	NMT 0.05	0.05	IS : 3025(Part 29) 2022	No relaxation
18.	Cyanide, as CN	mg/L	Not Detected	NMT 0.05	0.0008	IS : 3025(Part 27)-1986	No relaxation
19.	Anionic Detergents, as MBAS	mg/L	Not Detected	NMT 0.2	0.05	Annex K of IS : 13428-2005	NMT 1.0
20.	Mineral oil	mg/L	Not Detected	NMT 1.0	0.1	IS : 3025(Part 32)-2021	No relaxation
21.	Residual free chlorine, as Cl2	mg/L	Not Detected	NLT 0.2	0.05	APHA 4500 Cl F	NLT 1
22.	Total Alkalinity, as CaCO3	mg/L	251.9	NMT 200	N/M	IS : 3025(Part 23) 2023	NMT 600
23.	Magnesium, as Mg	mg/L	21.5	NMT 30	N/M	IS : 3025(Part 46)-2023	NMT 100



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For IIST/ IIP/ IIMR

Chief Admin's Office Officer



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Monday, 23 December 2024



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Description :- Clear colorless liquid without suspended particles

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Discipline: Chemical Group: Water Subgroup: Drinking Water Heavy Metal							
1.	Copper, as Cu	mg/L	Not Detected	NMT 0.05	0.00510	APHA (3125 B)	NMT 1.5
2.	Iron, as Fe	mg/L	Not Detected	NMT 1.0	0.00510	APHA (3125 B)	No relaxation
3.	Manganese, as Mn	mg/L	Below Detection Limit	NMT 0.1	0.00510	APHA (3125 B)	NMT 0.3
4.	Mercury, as Hg	mg/L	Not Detected	NMT 0.001	0.000510	APHA (3125 B)	No relaxation
5.	Selenium, as Se	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA (3125 B)	No relaxation
6.	Total Arsenic, as As	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA (3125 B)	No relaxation
7.	Barium, as Ba	mg/L	0.01	NMT 0.7	0.00510	APHA (3125 B)	No relaxation
8.	Molybdenum, as Mo	mg/L	Below Detection Limit	NMT 0.07	0.00510	APHA (3125 B)	No relaxation
9.	Nickel, as Ni	mg/L	Not Detected	NMT 0.02	0.00510	APHA (3125 B)	No relaxation
10.	Silver, as Ag	mg/L	Below Detection Limit	NMT 0.1	0.00105	APHA (3125 B)	No relaxation
11.	Lead, as Pb	mg/L	Not Detected	NMT 0.01	0.00510	APHA (3125 B)	No relaxation
12.	Zinc, as Zn	mg/L	0.02	NMT 5	0.00510	APHA (3125 B)	NMT 15
13.	Total chromium, as Cr	mg/L	Below Detection Limit	NMT 0.05	0.00510	APHA (3125 B)	No relaxation
14.	Aluminium, as Al	mg/L	Below Detection Limit	NMT 0.03	0.00510	APHA (3125 B)	NMT 0.2
15.	Cadmium, as Cd	mg/L	Not Detected	NMT 0.003	0.00255	APHA (3125 B)	No relaxation



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Description :- Clear colorless liquid without suspended particles

TEST SPECIFICATION AS PER IS : 10500-2012 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Discipline: Biological Group: Water Subgroup: Drinking Water Microbiological							
1.	Total Coliform Bacteria	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185:2016	Should not be detected
2.	Escherichia coli	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185:2016	Should not be detected

[End of Report]

Remarks:

- Sample not drawn by CLL representative and sample information as furnished by customer.
- Test report shall not be reproduced either in part or in full, without written approval of CLL Management.
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- pH value is reported as at 25 °C.
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4. This certificate is for the customer's information only, and can neither be used in part nor in full, in any media or court of law, without prior written permission of CLL.
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7. Perishable samples will be destroyed after testing; toxic / hazardous samples will be returned to the customer or shall be forwarded for incineration.
8. Total Liability of CLL is limited to the invoiced amount.
9. In the event, no zone is mentioned, CoA/CoC must be considered for Domestic (India) only

CLL LABS - APPROVALS / ACCREDITATIONS BY:



Note: Each CLL lab has different approvals / accreditations. Please check with the on-site BD cell for any specific registrations / submissions prior to sending test request. Your test request must mention the purpose / regulatory body / agency for which the testing is to be carried out.

CLL's SERVICE AREAS

Food & Beverages Testing Services

Agro Products (Food Raw Materials & Products, Milk & Milk Products, Agrochemicals, Fertilizers, Food Additives)

Drugs and Chemicals Testing Services:

Pharmaceuticals, Herbals, Cosmetics, Ayurvedic - Raw Materials, Formulations & Chemicals Analysis

Building Materials Testing Services:

Metals, Sand/Aggregate, Bricks, Paving Block, Cement, Paints, Minerals, PVC/HDPE Pipes, Packaging Materials & Wood Products, On-site inspection services for soil and constructions sites.

Water & Waste Water:

Drinking Water (IS:10500), Purified water for pharmaceutical use, Recreational Water, EPA / WHO Water, Water for Injections, Water for food processing, Water for dialysis etc.

Calibration Services:

Thermal, Mechanical (Mass, Volume, Speed, Pressure, Vacuum), Area / Autoclave / Steam tunnel Mapping, Electro-technical, Dimension, etc.

Other Testing, Research & Validation services:

Toys testing, Disinfectants / Sanitizers testing, Consumer products (such as Water purifiers, Sterilizers etc.), Soil investigation & analysis, Waste / Used oil for recycling / Incineration, etc.

Environment Services:

Indoor and Outdoor Monitoring for workplaces / hotels / hospitals / homes etc., Industrial monitoring - ambient and stack, River/Lake water quality survey.

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Page | A

For IIST/ IIP/ IIMR

Chief Administrative Officer



Page 96 of 109

Principal
Monday, 23 December 2024
Indore Institute of Science
and Technology, Indore



Indore Institute of Science & Technology

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CLL's LAB LOCATIONS

Indore Laboratory (Corporate Office & Center of Excellence) Survey No. 9/1, Balaji Tulsiyana Industrial Estate, Kumedi, Off MR10 Toll Plaza, Indore (M.P.) - 452010 Tel: +91-731-3501112 (60 lines) E-mail : bd@choksilab.com	
CLL Baroda Laboratory 829 GIDC, Makarpura Baroda - 390010 Tel: +91-265-2978001 E-mail : baroda@choksilab.com	CLL Panchkula Laboratory Plot No. 362, Industrial Area, Phase -II, Panchkula - 734 112 (Haryana) Tel: +91-172-5048600 / 01 / 02 E-mail : panchkula@choksilab.com
CLL Vapi Laboratory 32, Vibrant Business Park, Opp. UPL, N.H. - 48, Vapl, Gujarat, India 396195 Tel: +91-260-2433488, 2432715, 2432731 E-mail : vapi@choksilab.com	CLL Goa Laboratory C-18, C-20 Verna Industrial Estate, Phase - 1A, Verna - 403722, Goa (India) Tel: +91-838-0033301 / 02 / 03 / 04 E-mail : goa@choksilab.com

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Page | 8

Admin



Principal

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Monday, 23 December 2024

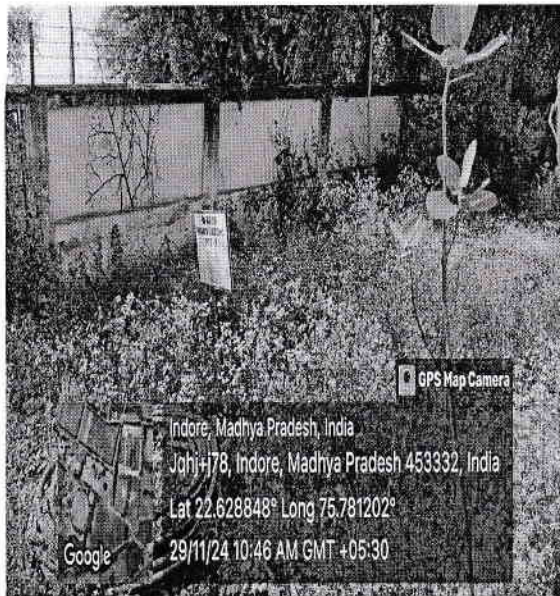
FOR IIST/ IIP/ IIMR

[Signature]
Chief Administrative Officer

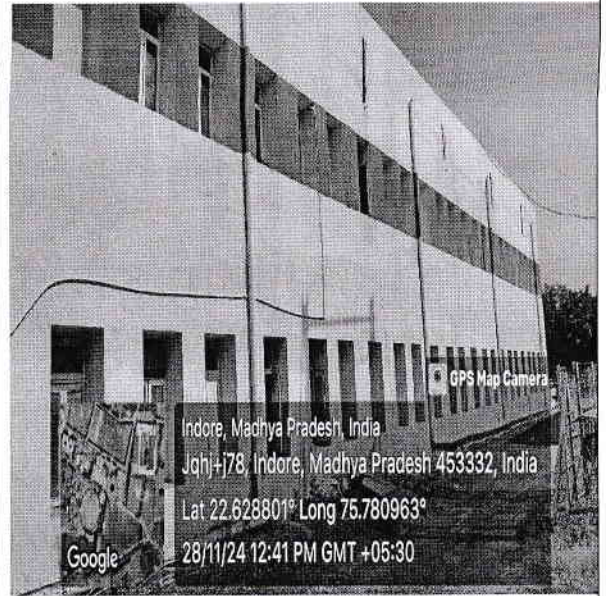


6. Geotagged Photo for Rain water harvesting

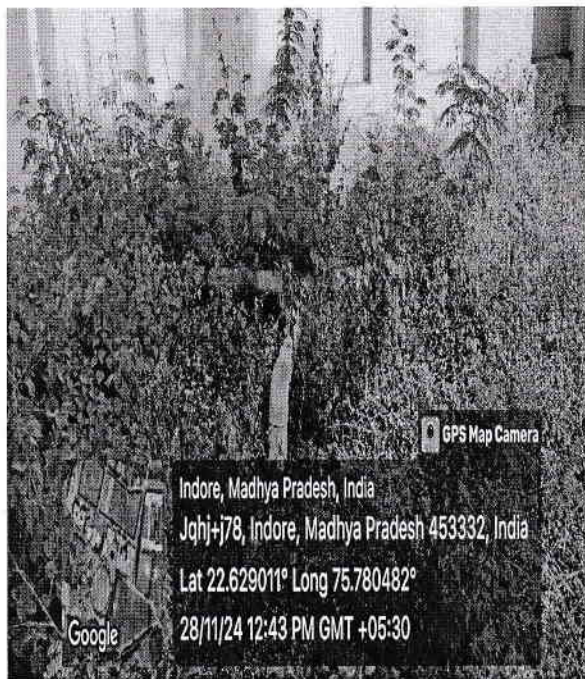
Pit at Back side of A-Block



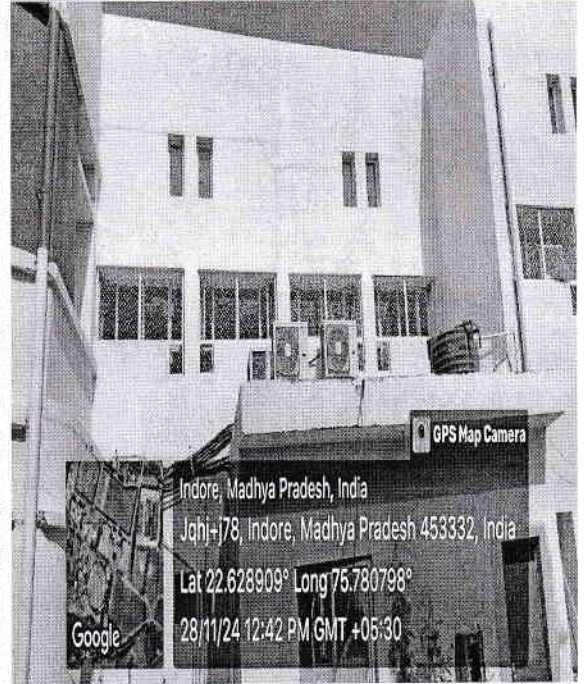
Pipes at Back side IIST (A-Block)



Pit at Back side of IIST (B-Block)



Pipes at Back side IIST (B-Block)



Admin



Principal



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For IIST/ IIP/ IIMR

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Indore Institute of Science
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Monday, 23 December 2024



IIST

Indore Institute of Science & Technology

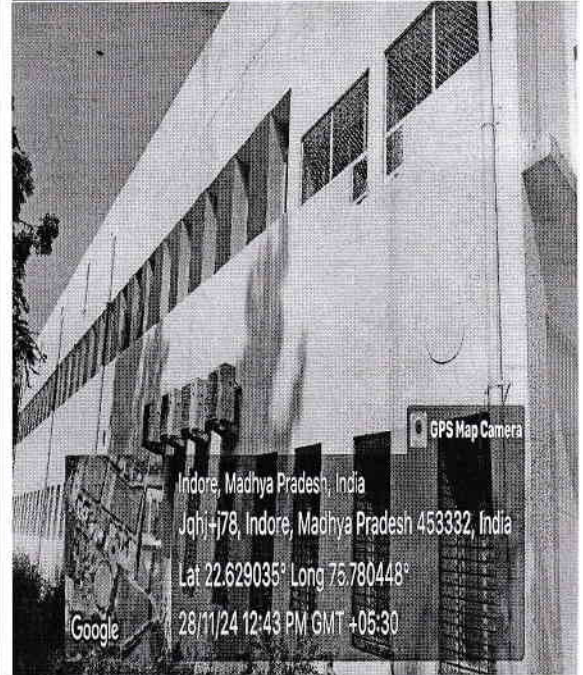
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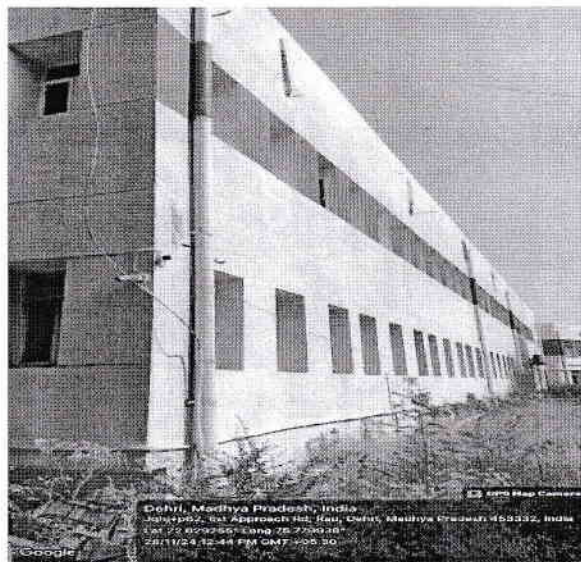
pit at parking side of IIST (A-Block)



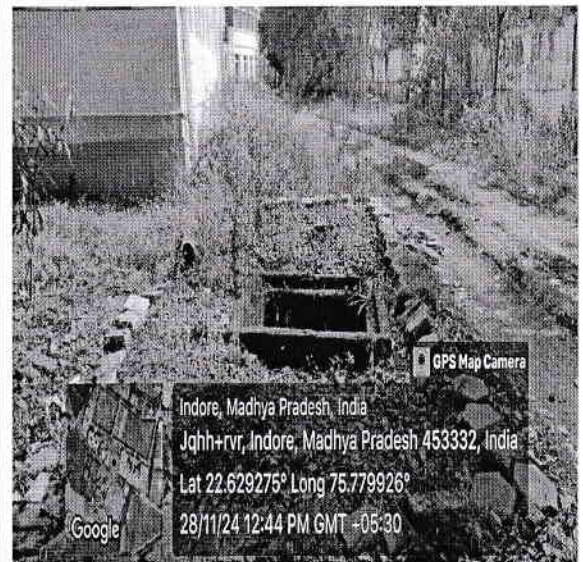
Full view of Pipe line A-C block



Back side IIST (C-Block)



Pit at Back side IIST (C-Block)



Pit at Back side of IIST (B-Block)

Admin

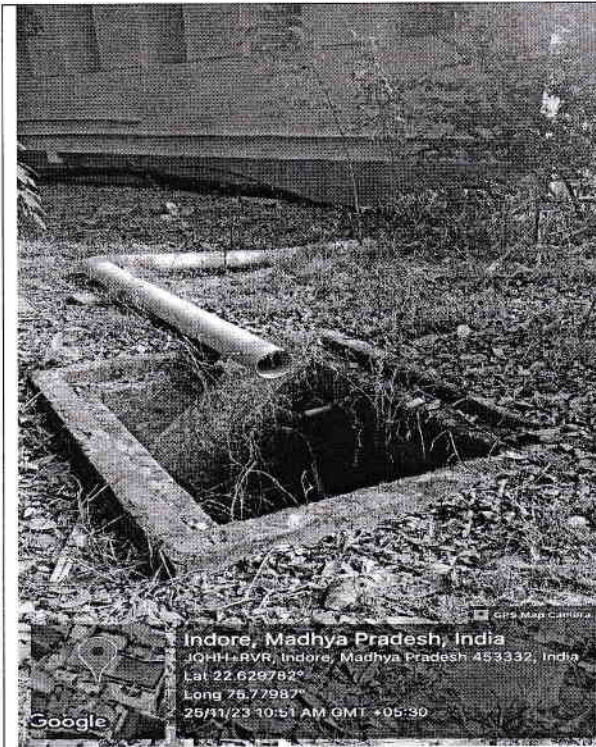


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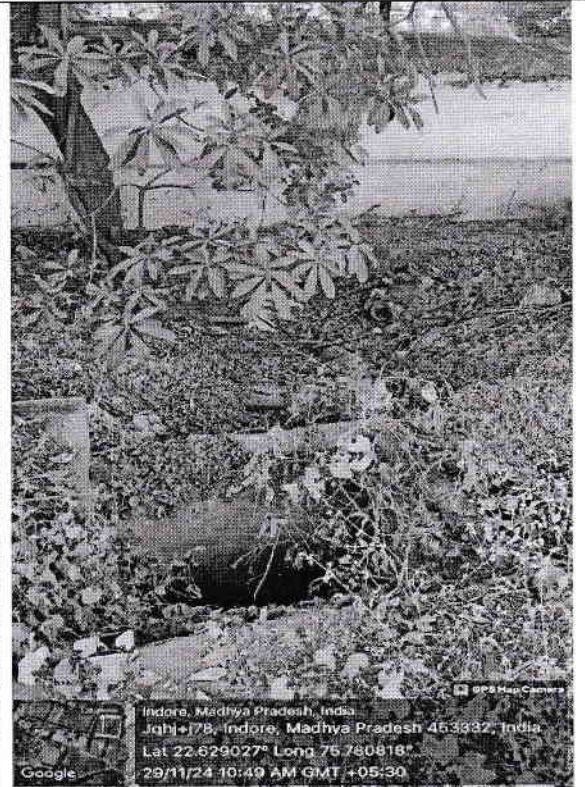
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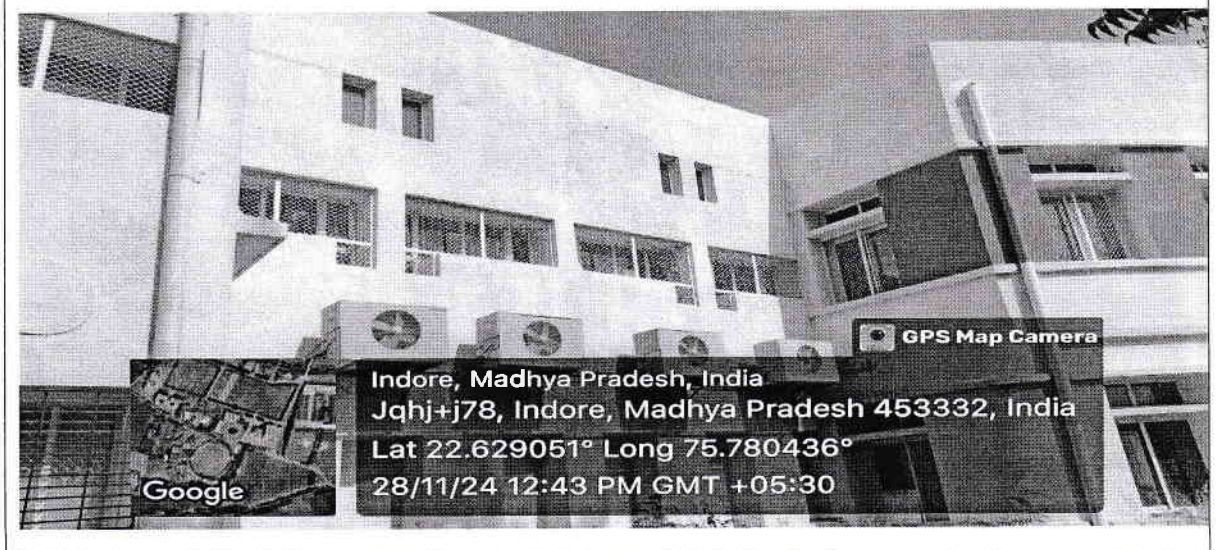
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Pit at Back side IIST (C-Block)



Pit at Back side of IIST (B-Block)



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Monday, 23 December 2024



7. Geotagged Photo for Borewell /Open well recharge

An open well located in the college campus is recharged by the rainwater. The artificial recharge to ground water aims at augmentation of ground water reservoir by modifying the natural movement of surface water utilizing suitable civil construction techniques. Artificial recharge techniques normally address to following issues –

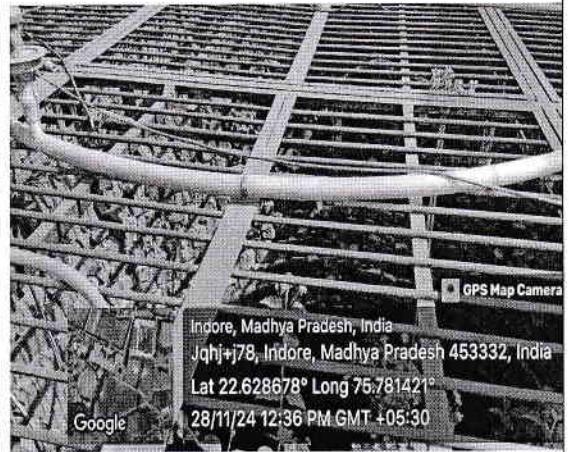
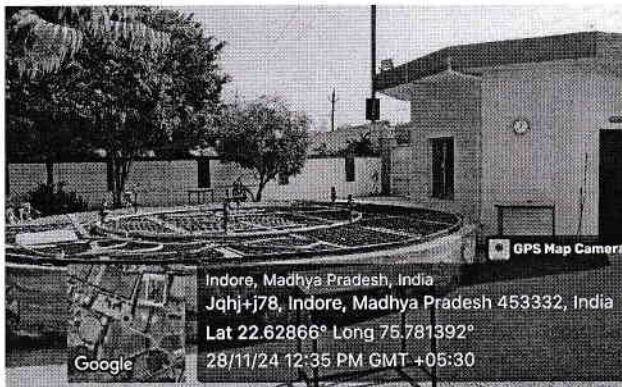
To enhance the sustainable yield in areas where over-development has depleted the aquifer.

Conservation and storage of excess surface water for future requirements since these requirements often change within a season or a period.

To improve the quality of existing ground water through dilution.

To remove bacteriological and other impurities from sewage and wastewater so that water is suitable for re-use. The basic purpose of artificial recharging of ground water is to restore supplies from aquifers depleted due to excessive ground water development.

Open well at side of Main Gate



Top view of open well

Admin

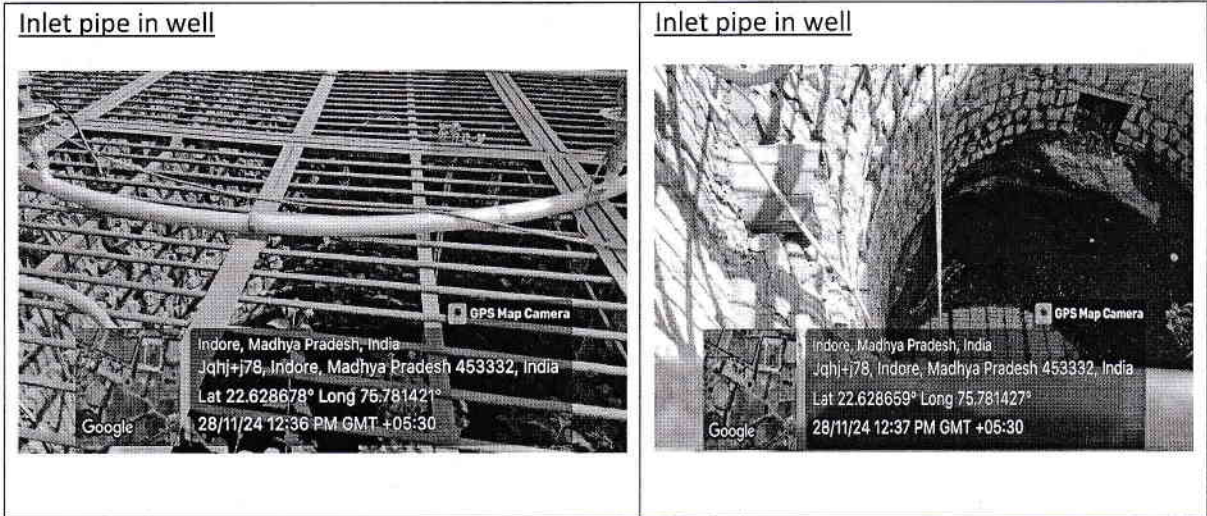


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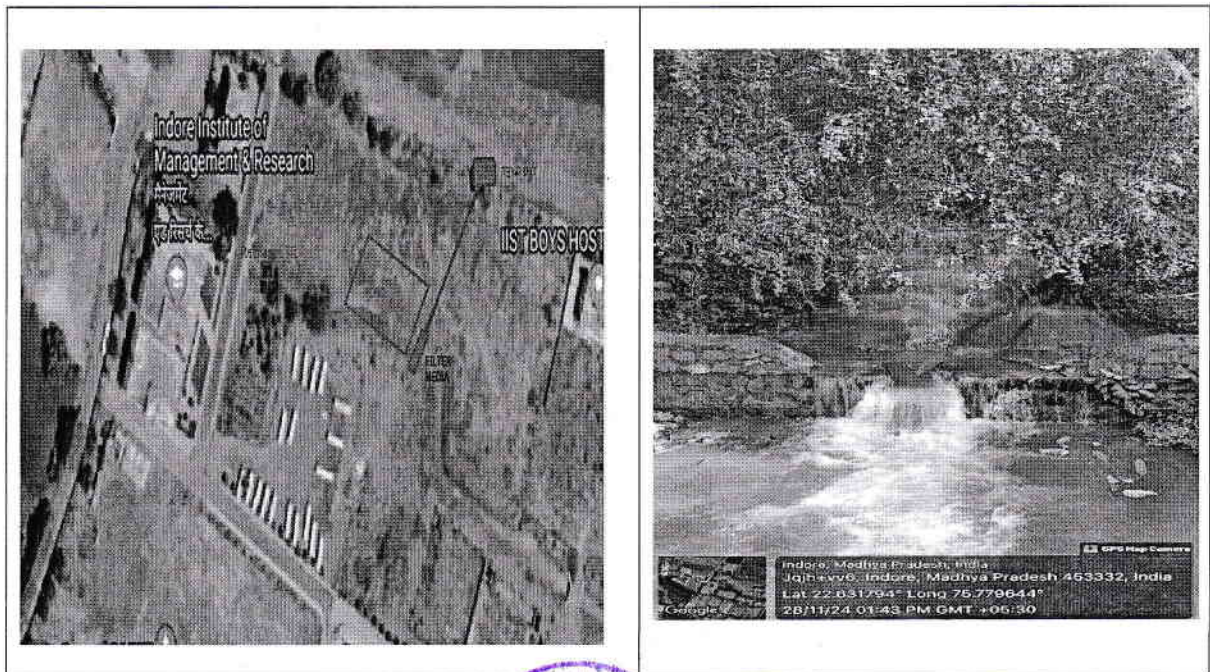
For IIST/ IIR/ IIMR

[Handwritten Signature]
Chief Administrative Officer



8. Geotagged Photo for Construction of tanks and bunds

Runoff generated in the campus is collected using small masonry bund (check dam) in the campus on a natural canal passing through the campus. In the Institute Bunds are constructed to control the water table within the reclamation area and control the flow of the discharge water in the fill area. It is Masonry bund. Water retention is the primary purpose of such bund.



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For IIST/ IIP/ IIMR

[Signature]
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Monday, 23 December 2024

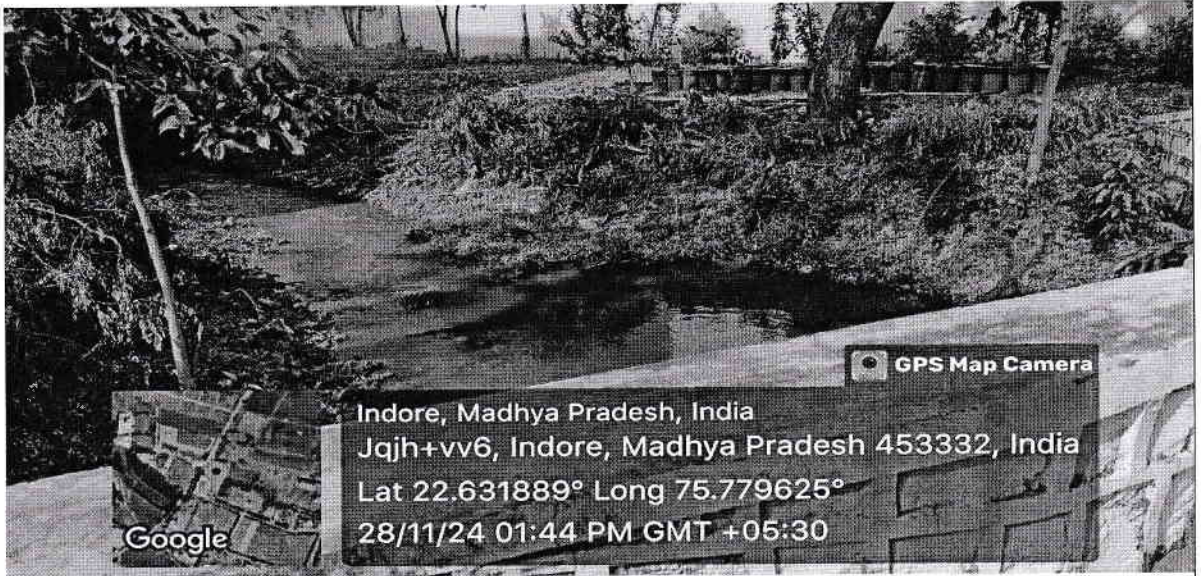


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Opposite Girls Hostel IIST



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9. Maintenance of Water Bodies and Distribution system

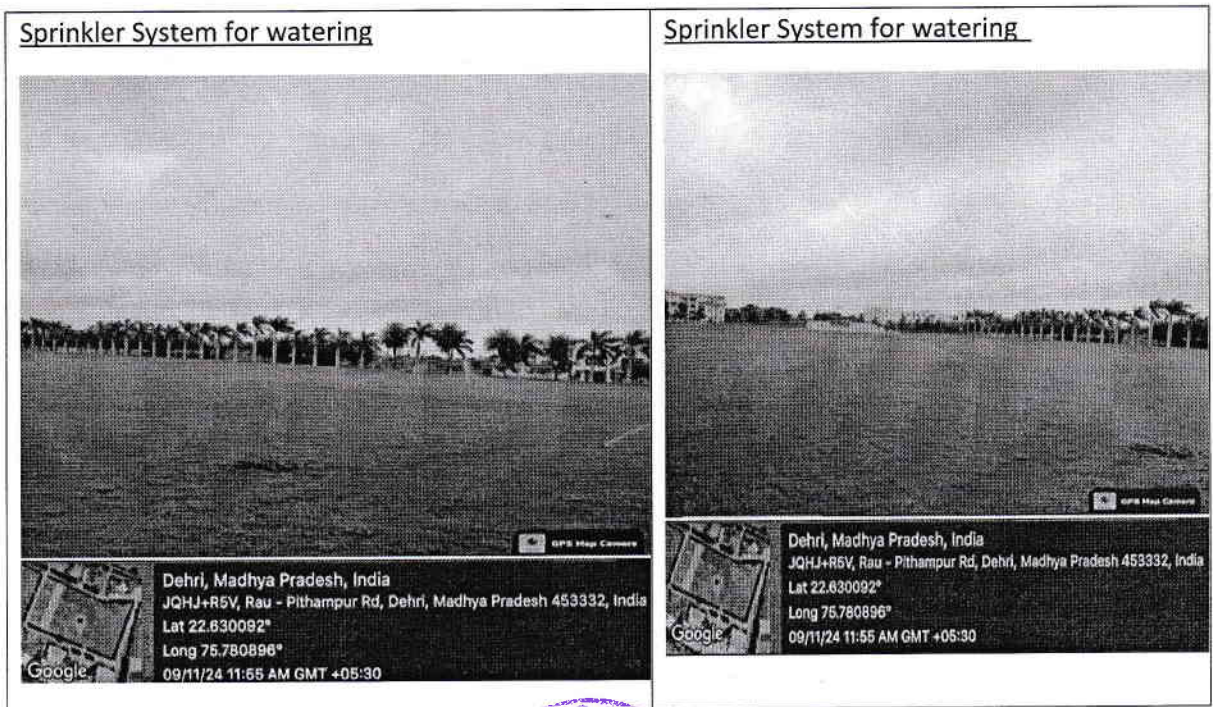
Total 7 numbers of Bore well and 2 numbers of open well are available in the IIST Campus. The location of Bore well as follows –

- One Bore Well situated to the near Basketball Court
- One Bore Well situated opposite to the Guest House
- One Bore Well situated to the near Sports Complex
- One Bore Well situated opposite to the Staff Quarter
- One Bore Well situated at Laundry (Back to Boys Hostel)
- Two Bore Well situated in the Farm (Near Mango Trees)

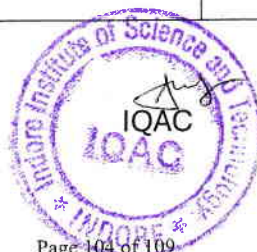
Maintenance of open well

Video Link of open well cleaning

10. Geotagged Photo for Water Conservation through Sprinkler System for watering



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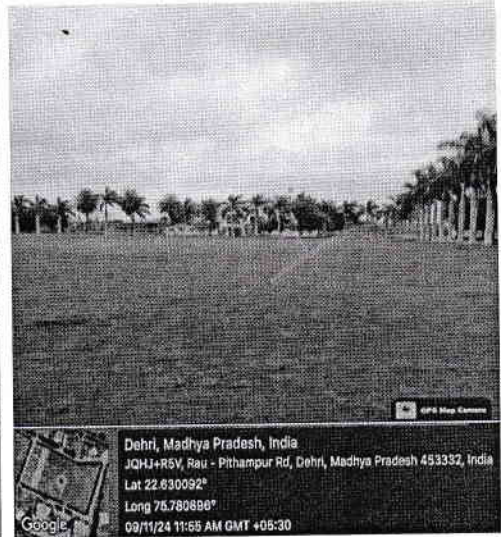
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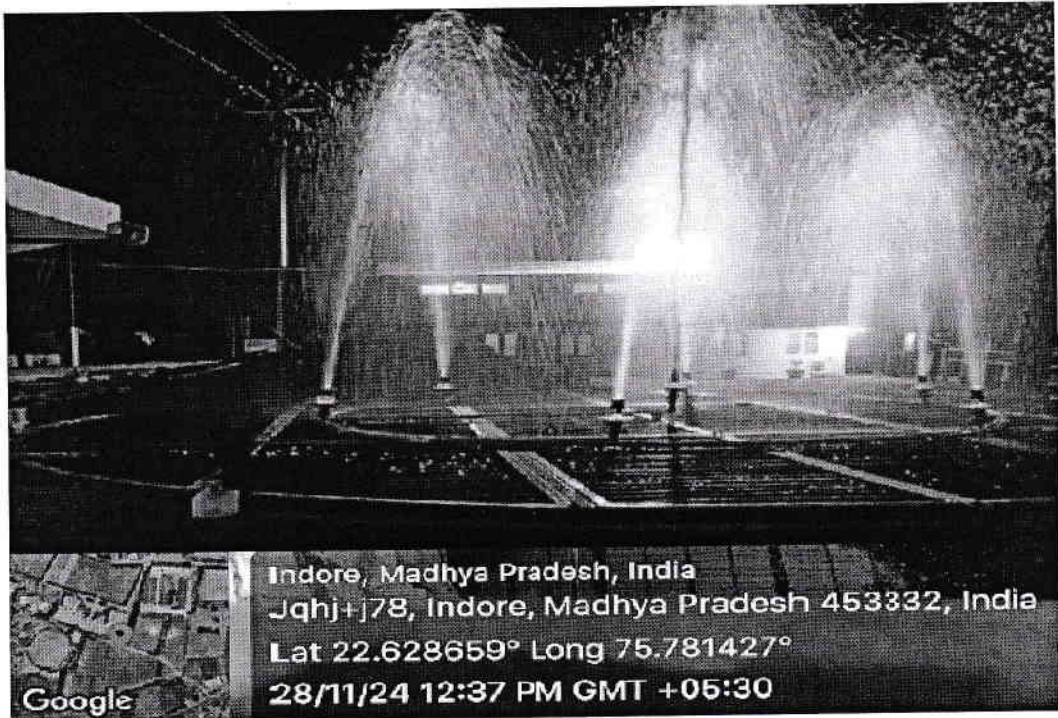
Sprinkler System for watering



Sprinkler System for watering



Fountain at Well



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Chief Administrative Officer



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Principal

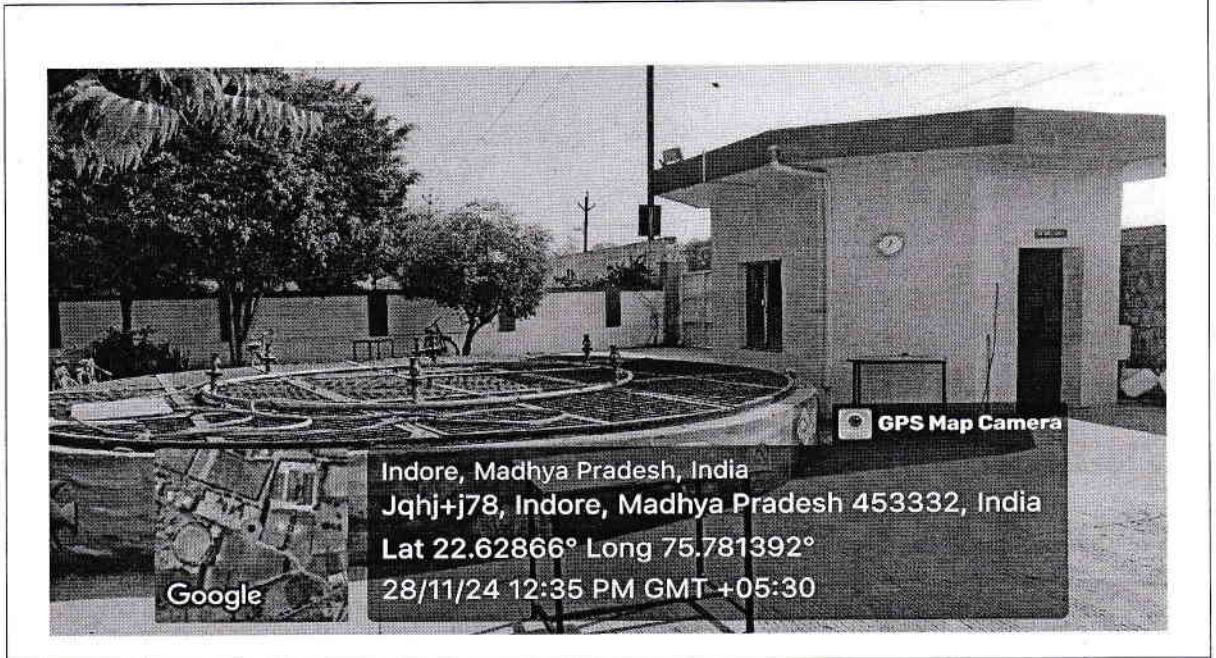
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Monday, 23 December 2024



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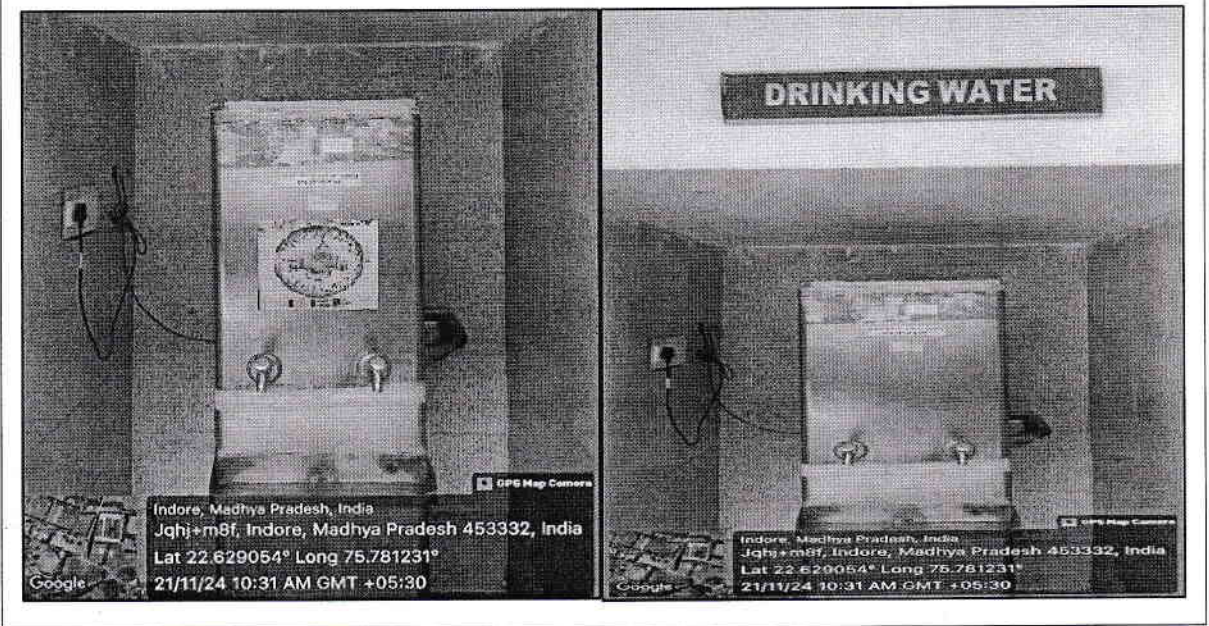
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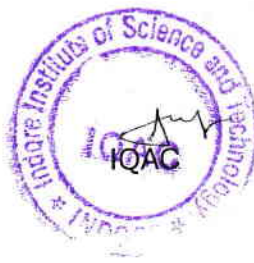


Saving Water

SAVE WATER POSTER AT WATER COOLER A-BLOCK



Admin



(Handwritten signature)
Principal
Principal

Indore Institute of Science
Monday, 23 December 2024

For IIST/ IIP/ IIMR
(Handwritten signature)
Chief Administrative Officer



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2023-2024



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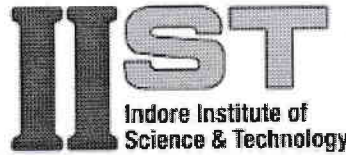
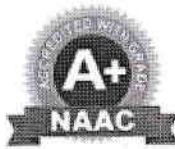


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11. PO of Sewage Treatment Plant (STP) Plant

Sewage Treatment Plant (STP) established in the Institute by the Enviroessential Pvt. Ltd The Work Order/Purchase Order are as follows.

Shail Educational and Welfare Society

Work Order

PO No: SEWS/WO/2021-22/282 Date: - 17.01.2022
PR / CIVIL P/83

To,
M/s ENVIRO ESSENTIALS
Mr. Ajit Kumar Bhaskar Gaikwad
41, Naykumgar, Wadanwadi, Ahmednagar,
Maharashtra (414001)
Local Add. Branch Office 19, Mangal NK Beside petrol pump,
Sukhiya, Indore (M.P.-452010)
Mob.9039433403, 9503221150, 7709380770

Subject : Work order for Sewage treatment Plant Installation.

Dear Sir,
With reference to your quotation, we are pleased to award you work order for the same



**Basis of Design-
Sewage Treatment Plant:-**


a) Plant Capacity	:	100KLD (m ³ /day)
b) Operation Time	:	20 hrs.
c) Hourly Flow (Feed to STP)	:	5m ³ /hr
d) Mode of Operation	:	Manual.
e) Process	:	MBBR Technology




1. **Characteristics of Raw & Treated Sewage**
The characteristics of raw sewage assume data given below:

Sr. No.	Parameters	Unit	Raw Sewage	Treated Sewage
1	pH	-	5.5 - 8	6.5 - 7.2
2	Biochemical Oxygen Demand (BOD)	mg/l	300	≤ 10
3	Chemical Oxygen Demand (COD)	mg/l	400	≤ 20
4	Total Suspended Solids (TSS)	mg/l	250	≤ 20
5	Oil & Grease	mg/l	15	≤ 5

1


 Nishant Dora
 17/1/2022

Dept. 194, New Pithampur Road, Indore - 452003 | www.indoreinstitute.com
 info@indoreinstitute.com | 0731-4700000 | Fax: 0731-4019502 | Toll Free: 020-3082009

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Chief Administrative Officer



Principal

Principal

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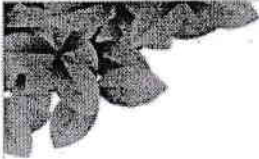
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12. Water Conservation Policy at IIST





Indore Institute of Science & Technology
Affiliated to - RGPV (Bhopal) & Approved by - AICTE (New Delhi)


POLICY DOCUMENT ON WATER CONSERVATION


Water Conservation Policy

The Water Conservation policy aims to encourage all personnel of the INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE to realistically understand the importance of water conservation as well as increase water conservation in college campus through methods that are consistent with a safe and secure environment.


Objectives of Policy:

1. Emphasize water conservation practices across the campus to reduce overall water consumption.
2. Promote the reuse of treated wastewater for non-potable purposes like irrigation, flushing toilets, or cleaning.
3. To increase the recharge of groundwater by capturing and storing rainwater, by rainwater harvesting from rooftops and run-offs.
4. To store the water for gardening & washing purposes.
5. To Reduce wastage of water
6. Cleanliness drive to prevent water runoffs and clogging of waste material into nearby water sources.








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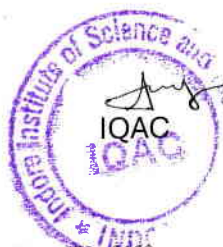


Opp. IIM (Indore), Rau, Pithampur Road, Rau, Indore (MP) - 453331
 ☎ 822 407 1000 / 2900 / 3900 / 4000 / 5000 | Tel: (0731) 4016520 | Fax: (0731) 4016522 | Toll Free: 1800 103 3063

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