

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

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

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For IIST/ IIP MR
Chief Administration Officer



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Monday, 23 December 2024



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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.

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		QEOYATIO	N	
3	S No.	Item Description	AMOUNT	
	704	Consultancy Service Charges for Rainwater Harvesting Planning , Calculations and Structure Design	(11,000)-	man-ngayanan y
	2	Viet Charges ( 2 visits )	5,000/-	
		TOTAL SGST @ 9% CGST #29%	15,860/- 1,350/- 1,350/-	1
		GRAND FOTAL	-17,7604	principal
	Rs in we	urds - ; Seventeen Tenuesand Seven Hundred Only	6	principal solore instance of and technology
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3. Rainwater Harvesting Report (2023-2024)





Indore Institute of Science & Technology



### Rain Water Harvesting Project at Indore Institute of Science and

### Technology Report (2023-2024)

In the year 2018-2019 HST 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

Yard (Generator Room)

Phase - III - Utilizing storm water of existing Nallah.

#### Phase-I

Projected Collection and Utilization of Roof Water from HST (ALL Blocks)

Total roof area is 3357 m<sup>2</sup> including 2657 m<sup>2</sup> is considered for ground water recharging through pits

Roof Area = 2657 m<sup>2</sup>

Formula f or 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 m<sup>3</sup>/year (Projected)

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

### Rain water harvesting pits size details.

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

and an interest of		Rain harvesting Water		Total Area		
S. No.	Building Name Store Pit Point L	L 'm'	W'm'	H 'm'	'm3"	
		a.) A- Block Back Side	3	3	2	18
	POSSON 194 WARRO	b.) B- Block Back Side	3	3	2	18
1.	HST- Building	c.) C- Block Back Side (Pit-1)	3	3	2	18
		d.) C- Block Back Side(Pit-2)	2	2	2	08

Green Waves Club

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For IIST/ IIP/ IIMR

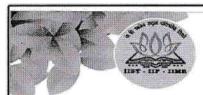
Chief Address Vivo Officer



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

#### TABLE -1

YEAR	NORMAL	ACTUAL
	RAINFALL (mm)	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 HST based on above rainfall data

Unit- m3/Year

	Particular	2023
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 m<sup>3</sup>/Year

#### Phase-II

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

Total roof area is 3357 m<sup>2</sup>, 700 m<sup>2</sup> 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 m<sup>3</sup>/year

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Admin

For IIST/ IIP/IMR
Chief Administrative Difficer



Principal
Indore Institute of Science
Monday, 23-December 2024



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Indore Institute of Science & Technology



Actual Collection of Roof Water from IIST (Block-A) & Harvesting it into Existing Openwell Total water Harvested in Open Well at HST 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 -

- = (Area X Runoff Factor X Mean annual rainfall) / 1000
  - Total water Harvested in Year 2023
- = (700\*0.8\*1062)/1000
- $= 594.72 \text{ m}^3/\text{Year}$

#### Phase-III

Projected Collection Runoff Water from Existing Nallah

≈ (90°x150°) =1254 m<sup>2</sup>

Formula for calculation of Average Ground Water Recharge -

= ( Area X Runoff Factor X Mean annual rainfall) / 1000

Average Ground Water Recharge will be =1254 x 0.4 x 941.4/1000

= 472.206 m³/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\*0.4\*1062)/1000
- = 532.69 m<sup>3</sup>/Year

Total water Harvested in year 2023 by three phases =

= 2257.38 + 594.72 + 532.69

= 3384.79 m<sup>3</sup>/Year

(Project In charge)

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Admin

For IIST/ IID Chief M



Principal Indore Institute of Science



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4. Soil and Water Testing Report

मिद्टी पश्चिक्षण सेवा योजना, राजमाता विजयादाजे सिंधिया कृषि विश्व विद्यालय, ग्वालियद।

कृषि महाविद्यालय, इन्होंब

вна : STS/2020-21/32-36

दिनाक 16 | 07 | 2021

नाम १	Indore Institu	ite of Technology	(HST)		
पता इ	गॉव -	तहसील इन्दीर	जिला	इन्दीर	
खेत की पहचानः	R No. 37	D	1.		
	Soil / Water S	amples collected and	supplied by	the party	

मिन्द्री विश्लेषण परिपास

		12.65	Con Lower Law.	AL 2017/23/05	*				
कंगाक	पहचान		(pH) (1:2)	(EC) (1:2) dSm <sup>-1</sup>	Organic Carbon	Available Nerogen	Available Phosphorus kg/ha	Available Potash	
1	Girls Hostel	1/5	7:65	0.90	0.42	184	9,6	440	
2	Arhar I	2/5	7.90	0.63	0.60	240	13.6	560	
3	Arhar 2	3/5	7.97	0.49	0.52	204	11.2	480	
4	Aonla Field	4/5	7.75	0.22	0.55	218	11.2	520	
5	Moong	5/5	7.82	0.42	0.45	190	9.6	480	
	वुलना के लिए मध्यम स्तर		6.5-7.50	< 0.80	0.50	250-400	>10	400	

ऑड़ कर्ता

हरताक्षर मिट्टी परिक्षण अधिकारी किस विकास कार्य कार्य कार्य कराविद्यालय, इन्हें र

Admin

For IIST/ IIP/ IIMR

Chief Adamstra Wa Officer



Principal Indere Institute of Science



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- 5. Drinking Water Testing Report
- RO Canteen Water Report Dated 14 Aug 2024

#### CERTIFICATE OF ANALYSIS

CHOKS I

Sample Name:

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

RO WATER ( From : Canteen

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE . Madhya Pradesh India - 453331

CoA ID: Report No.: Issue date: Customer Ref(s): Customer ID:

01700490/24-25 01700490/24-25 (v1) 14-08-2024 N/M II210045

Sample Quantity: Sealed / Unsealed:

5 Liter+500 ml Unsealed PLASTIC CAN+ PLASTIC BOTTLE

RO WATER ( Buitding-RO) o:N/M N/M N/M N/M N/M 08-07-2024 N/M N/M N/M Manufacture License Manufacturer Name: Manufacturing Date: Reference of Letter: Date of Letter: Date of Receipt: Batch Number: Batch Size: A.R. Number: Expiry / Retest Date: 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							9.05-002-110-102-1011 
1.	Colour	Hazen unit	Less than 1	NMT 5	N/M	IS 3025 (Part 4) 2021	NMT 15
2.	Odour	Not Applicabl e	Agreeable	Agreeable	N/M	IS 3025 (Part 5)2018	Agreeable
3.	Taste	Not Applicabl e	Agrecable	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 Applicabl e	6.8	6,5-8,5	N/M	IS 3025 (Part 11) 2022	No Relaxation
7,	Total Hardness (as CaCo3)	mg/L	174.8	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 504)	mg/L	7,1	NMT 200	1.0	IS 3025 (Part 24)1986	NMT 460

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**Authorised Signatory** 

IDR01250 14-08-2024 12:25:44

**QA Approver** 

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For IIST/ IIP/ IIMK

ve Officer Chief Admi

Page 8 of 109

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and Technology, Indore Monday, 23 December 2024



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#### CERTIFICATE OF ANALYSIS

CoA ID:

Report No.:

Issued from:

CHOKSI LASCHATORIES

Sample Name:

Batch Size: A.R. Number: 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

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY,

OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE

, Madhya Pradesh India - 453331

01700490/24-25 01700490/24-25 (v1) 14-08-2024

Issue date: Customer Ref(s): Customer ID:

N/M 11210045

RO WATER ( From : Canteen Building-RO)

Manufacture License N N/M N/M

Manufacturer Name: Manufacturing Date: Reference of Letter: Date of Letter: N/M N/M Date of Receipt: Batch Number:

08-07-2024 N/M N/M N/M

5 Liter+500 ml Sample Quantity: Sealed / Unsealed: Unsealed
PLASTIC CAN+ PLASTIC BOTTLE Packing:

Analysis Start Date: 10-07-2024 Analysis End Date: 12-08-2024 Sampling Date: Sampled By: N/M Client

Sampling Location: N/M 2 of 4 Page Number:

Expiry / Retest Date: 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	0.57	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(asC6H5OH)	mg/L	Not Detected	NMT 0,001	0.001	153025 (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 ci2)	ppm	Not detected	NLT 0.2	0.05	APHA (4500-CL)F	NLT 1
22.	Total Alkalinity(asCaCO3)	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
	etal		( <del></del>				
Heavy Mo	etai						

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IDR01250 14-08-2024 12:25:44 QA Approver

**Authorised Signatory** 

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For IIST Chief Ar



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Indore Institute of Science

Te Monday 23 December 2024



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#### CERTIFICATE OF ANALYSIS

Issued from:

RO WATER ( From : Canteen

CHOKSI CAHORATORIES

Sample Name:

Date of Letter:

Batch Number: Batch Size:

A.R. Number:

Date of Receipt:

Manufacturer Name: Manufacturing Date: Reference of Letter: 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,

> N/M N/M N/M

> > N/M N/M

N/M

INDORE

, Madhya Pradesh India - 453331

Building-RO)
Manufacture License No:N/M

CoA ID: Report No.: Issue date: Customer Ref(s): 01700490/24-25 01700490/24-25 (v1) 14-08-2024

11210045

Customer ID: 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: Sampled By: N/M

Sampling Location: N/M
Page Number: 3 of

Expiry / Retest Date: N/M Description:- Clear colorless liquid without suspended particles

08-07-2024

### 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	0.00510	APHA 3125B	E_0 TMN
3.	Manganese, as Mn	mg/L	Below Detection Limit	NMT 0.1	0.00510	APHA 3125B	E 0 TMN
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 31258	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
Bloiogica	I						
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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**Authorised Signatory** 

IDR01250 14-08-2024 12:25:44

QA Approver

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Officer Chief Administ

Principal

Indore Institute of Science To Monday, 23 December 2024



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#### CERTIFICATE OF ANALYSIS

Issued from:

RO WATER ( From : Canteen

CHOKSI

Sample Name:

Manufacturer Name: Manufacturing Date:

Reference of Letter: Date of Letter: Date of Receipt:

**Batch Number:** Batch Size: A.R. Number:

ISSUEU Trom:
Choksi Laboratories Limited (Bullding - 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

Building-RO)
Manufacture License No:N/M

Customer Ref(s): Customer ID:

5 Liter+500 ml Unsealed
PLASTIC CAN+ PLASTIC BOTTLE

01700490/24-25

01700490/24-25 (v1) 14-08-2024

Sample Quantity: 5 Liter+500
Sealed / Unsealed: Unsealed
Packing: PLASTIC CAN
Analysis Start Date: 10-07-2024
Analysis End Date: 12-08-2024
N/M
Client

CoA ID: Report No.:

Issue date:

11210045

Sampling Date: Sampled By: Sampling Location: N/M Page Number: 4 of

Expiry / Retest Date: N/M Description :- Clear colorless liquid without suspended particles

N/M

N/M N/M 08-07-2024

N/M N/M

N/M

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.
- 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.
- 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

**Authorised Signatory** 

IDR01250 14-08-2024 12:25:44

QA Approver

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Admin

For IIST/ IIP/ IIMR Chief Adm



Principalncipal Indore Institute of Science and Technology, Indore

Monday, 23 December 2024



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):

Sample(s) / Instruments are drawn and submitted by the client unless otherwise stated.

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

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.

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.

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

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

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.

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.

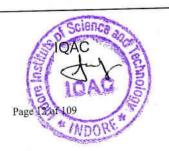
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For IIST/ IIP/ IIMR

Officer



Indore Institute of Science chnology, Indore 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 Vapl 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 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 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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Admin

For IIST/ IIP/ IIMR

Chief Administrative Officer

Page 13 of 109

Principal Principal

Indere Institute of Science

and Technology Badasa 2024



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:

C H O K S I

Sample Name:

Expiry / Retest Date:

Issued from:
Choksi Laboratories Limited (Building - 2 "Pasteur")
Survey No. 971, 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

RO WATER ( From : IIST Building-RO)

Sample Name: RO V
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: 08-0
Batch Number: N/M
A.R. Number: N/M
A.R. Number: N/M

N/M 08-07-2024 N/M N/M N/M N/M

CoA ID: Report No.: Issue date:

Customer Ref(s): Customer ID:

01700491/24-25 01700491/24-25 (v1) 12-08-2024 N/M 11210045

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

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 Applicabl e	Agreeable	Agreeable	N/M	IS 3025 (Part 5)2018	Agreeable
3,	Taste	Not Applicabl e	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 Applicabl e	6.8	6_5-8,5	N/M	IS 3025 (Part 11) 2022	No Relaxation
7.	Total Hardness (as CaCo3)	mg/L	105,3	NMT 200	N/M	IS 3025 (Part-21): 2009	NMT 600
θ.	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 CI)	mg/L	16.1	NMT 250	N/M	153025 (Part 32)1988	NMT 1000
11.	Sulphate (as 504)	mg/L	4.7	NMT 200	1.0	IS 3025 (Part 24)1986	NMT 400
12.	Nitrate (asNO3)	mg/L	9.6	NMT 45	0,1	(53025 (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

TO AMENDMENT-4)

IDR00012 12-08-2024 16:01:04

Authorised Signatory

IDR01250 12-08-2024 16:08:23

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Indere Institute of Science And Technology 23 December 2024



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

#### **CERTIFICATE OF ANALYSIS**

CHOKSIO

Issued from:

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,

Madhya Pradesh India - 453331 Sample Name:

RO WATER ( From : IIST Building-RO)

Manufacture License No:N/M
Manufacturer Name: N/M
Manufacturing Date: N/M Reference of Letter: Date of Letter: Date of Receipt: N/M

08-07-2024 Batch Number: Batch Size: N/M N/M A.R. Number: N/M Expiry / Retest Date:

CoA ID: 01700491/24-25 Report No.: Issue date: Customer Ref(s): Customer ID:

01700491/24-25 (v1) 12-08-2024 N/M

11210045

Sample Quantity: Sealed / Unsealed: 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 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.	Phenalic 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	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 Me	etal		1 19				***************************************
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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**Authorised Signatory** 

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Page 15 of 109

Principalincipal Indore Institute of Science

and Technology, Indore Monday, 23 December 2024



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#### **CERTIFICATE OF ANALYSIS**

Issued from:

CHOKSI LABORATORIES

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,

OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU,

INDORE , Madhya Pradesh India - 453331

Report No.: Issue date: Customer Ref(s): Customer ID:

CoA ID:

01700491/24-25 01700491/24-25 (v1) 12-08-2024

N/M

11210045

Sample Name: RO W Manufacture License No:N/M RO WATER ( From : IIST Building-RO)

Manufacturing Date: Reference of Letter: N/M Date of Letter: Date of Receipt: N/M 08-07-2024

Batch Number: Batch Size: N/M A.R. Number: N/M Expiry / Retest Date:

Sample Quantity: Sealed / Unsealed: 5 Liter+500 ml Unsealed PLASTIC CAN+ PLASTIC BOTTLE

 
 Packing:
 PLASTIC CA

 Analysis Start Date:
 10-08-2024

 Analysis End Date:
 10-08-2024

 Sampling Date:
 N/M
 Sampled By: Client Sampling Location: N/M Client 3 of 4 Page Number:

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
Biologica	i						
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	I5:15185:2016	Should not be detected

[ End of Report ]

- 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.

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,

5. Free Residual Chlorine Limit To be applicable only when water is chlorinated.

IDR00012 12-08-2024 16:01:04 **Authorised Signatory** 

IDR01250 12-08-2024 16:08:23

QA Approver

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For IIS Chief A

WOORE

Indore Institute of Science and Technology Indo 224



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#### CERTIFICATE OF ANALYSIS

CHOKSI

LABORATORIES

Sample Name:

Issued from:

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

RO WATER ( From : IIST Building-RO)

Manufacture License No:N/M Manufacturer Name: N/M Manufacturing Date: Reference of Letter: N/M Date of Letter: Date of Receipt: N/M 08-07-2024 N/M

Batch Number: Batch Size: N/M N/M A.R. Number: Expiry / Retest Date: N/M

01700491/24-25 CoA ID: 01700491/24-25 (v1) 12-08-2024 Report No.:

Issue date: Customer Ref(s): Customer ID:

11210045

5 Liter+500 ml Sample Quantity: Sealed / Unsealed:

Unsealed
PLASTIC CAN+ PLASTIC BOTTLE Packing: PLASTIC CAI
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 of 4

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

6. pH value is reported as at 25 °C,

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

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**Authorised Signatory** 

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e Officer Ohief

Indore Institute of Science Technology Inderen24 Monday, 25 December 2024



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

- Sample(s) / Instruments are drawn and submitted by the client unless otherwise stated.
- This certificate refers only the particular item and reported parameters submitted for calibration / analysis.
- 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.
- 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.
- 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.
- 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

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

**Drugs and Chemicals Testing Services:** 

Pharmaceuticals, Herbais, 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, Onsite 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,

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



Indore Institute of Science Monday, 23 December 2024



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 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 Panchkula Laboratory

Plot No. 362, Industrial Area, Phase -II, Panchkula - 734 112 (Haryana) Tel: +91-172-5048600 / 01 / 02 E-mail : panchkula@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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FOR IIST/ KIP

Chief Administrative

Page 19 of 109

rincipal Indore Institute of Science Monday, 23 December 2024



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

RO Water Boys Hostel IIST Report Dated- 12 Aug 2024

#### **CERTIFICATE OF ANALYSIS**

CHOKSI

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

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE

OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU,

INDORE , Madhya Pradesh

India - 453331

RO WATER ( From : Boys Hostel

Building-RO) Manufacture License No:N/M Manufacturer Name: N/M N/M

Sample Name:

Manufacturing Date:
Reference of Letter:
Date of Letter:
Date of Receipt:
Batch Number:
Batch Size: 0B-07-2024

N/M N/M A.R. Number: N/M Explry / Retest Date:

01700492/24-25 01700492/24-25 (v1) 12-08-2024 N/M

Report No.: Issue date: Customer Ref(s): Customer ID:

11210045

Sample Quantity: 5 Liter+500 ml Sealed / Unsealed:

Unsealed PLASTIC CAN+ PLASTIC BOTTLE Packing: PLASTIC CA
Analysis Start Date: 10-07-2024

10-08-2024 N/M

Analysis End Date: Sampling Date: Sampled By: Client Sampling Location: N/M
Page Number: 1 of

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						The state of the s	
1.	Colour	Hazen unit	Less than 1	NMT 5	N/M	(5 3025 (Part 4) 2021	NMT 15
2;	Odour	Not Applicabl e	Agreeable	Agreeable	N/M	IS 3025 (Part 5)2018	Agreeable
3.	Taste	Not Applicabl e	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 Applicabl e	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 CI)	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	(5 3025 (Part 24)1986	NMT 400



IDR00012 12-08-2024 15:55:43

**Authorised Signatory** 

IDR01250 12-08-2024 16:24:10

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IIMR For IIST/ IIP/ ve Officer

Indore Institute of Science Technology 23 December 2024



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

#### **CERTIFICATE OF ANALYSIS**

CHOKSI

Laumaatobiss

Issued from: Choksi Laboratories Limited (Bullding - 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,

OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331

Customer ID:

RO WATER ( From : Boys Hostel Building-RO) Sample Name:

Manufacture License N Manufacturer Name: o:N/M Manufacturing Date: Reference of Letter: N/M N/M Date of Letter: Date of Receipt: N/M

**Batch Number:** N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date:

08-07-2024

CoA ID: Report No.: Issue date: Customer Ref(s): 01700492/24-25 01700492/24-25 (v1) 12-08-2024

11210045

5 Liter+500 ml Unsealed PLASTIC CAN+ PLASTIC BOTTLE Sample Quantity: Sealed / Unsealed:

Packing: PLASTIC CA Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024 Sampling Date: Sampled By: Sampling Location: Client 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	I53025 (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 CI2)	mg/L	Not Detected	NMT 4.0	0.05	APHA (4500-CL)F	No Relaxation
17.	Sulphide (asH25)	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/∟	Not Detected	NMT 1,0	0.1	IS 3025 (Part-39) 2021	No Relaxation
21.	Residual free chlorine(as ci2)	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 Me	etal						
1.	Copper, as Cu	mg/L	Below Detection Limit	NMT 0,05	0.00510	APHA 3125B	NMT 1,5



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**Authorised Signatory** 

IDR01250 12-08-2024 16:24:10

QA Approver

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For IIST/MP/

e Officer



Indore Institute of Science Technology 23 December 2024



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#### **CERTIFICATE OF ANALYSIS**

Issued from:

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

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE
OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU,

INDORE , Madhya Pradesh India - 453331

RO WATER ( From : Boys Hostel

Building-RO)
Manufacture License No:N/M N/M N/M Manufacturer Name: Manufacturing Date: Reference of Letter: Date of Letter: N/M N/M Date of Receipt: 08-07-2024

CHOKSI

Sample Name:

N/M Batch Number: Batch Size: A.R. Number: N/M N/M Expiry / Retest Date: Description :- Clear colorless liquid without suspended particles

N/M

CoA ID: 01700492/24-25 Report No.: 01700492/24-25 (v1)

Issue date: Customer Ref(s): 12-08-2024 N/M Customer ID: 11210045

5 Liter+500 ml Sample Quantity: 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 (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 31258	NMT 0.3
4.	Mercury, as Hg	mg/L	Not Detected	NMT 0.001	0.00051	APHA 3125B	No Relaxation
5.	Cadmlum, 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 31258	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

5r.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Biologica							
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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**Authorised Signatory** 

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#### **CERTIFICATE OF ANALYSIS**

CHOKSI

Manufacture License N

Manufacturer Name: Manufacturer Name: Manufacturing Date: Reference of Letter: Date of Letter: Date of Receipt:

Batch Number: Batch Size:

A.R. Number: Expiry / Retest Date:

Issued from: ISSUEG Trom:
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

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY,

OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE

Building-RO)

08-07-2024

p:N/M

N/M

N/M

N/M N/M

N/M

, Madhya Pradesh India - 453331 RO WATER ( From : Boys Hostel Sample Name:

CoA ID: Report No.: Issue date:

01700492/24-25 01700492/24-25 (v1) 12-08-2024

Customer Ref(s): Customer ID: 11210045

Packing: PLASTIC CAN+ PLASTIC BOTTLE
Analysis Start Date: 10-07-2024
Analysis End Date: 10-08-2024
Sampling Date: Sampling Dat

Sampling Date: Sampled By: Sampling Location: N/M Page Number:

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:

- 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.
- 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
- Physical Cristines and Conditions mentioned at the end of the CoA.
   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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#### IMPORTANT INFORMATION FOR CERTIFICATE OF ANALYSIS (CoA) / CERTIFICATE OF CALIBRATION (CoC):

- Sample(s) / Instruments are drawn and submitted by the client unless otherwise stated.
- This certificate refers only the particular item and reported parameters submitted for calibration / analysis.
- 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,
- 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.
- Perishable samples will be destroyed after testing; toxic / hazardous samples will be returned to the customer or shall be forwarded for incineration.
- 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

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

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

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.

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

#### 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, Kumedi, Off MR10 Toll Plaza, Indore (M.P.) - 452010 Tel: +91-731-350112 (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 Vapl Laboratory

32, Vibrant Business Park, Opp, UPL, N.H. - 48, Vapl, Gujarat, India 396195 Tel: +91-260-2433488, 2432715, 2432731 E-mall : vapi@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 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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For IIST/ IIP/ IIMR

Chief Anniets tratife Officer

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Indere Institute of Science
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d. RO Water IIST Building Report Dated- 12 Aug 2024

#### CERTIFICATE OF ANALYSIS

CHOKSI

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

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331

CoA ID: Report No.: Issue date: Customer Ref(s): Customer ID:

Sample Quantity: Sealed / Unsealed:

01700493/24-25 01700493/24-25 (v1) 12-08-2024

N/M 11210045

5 Liter+500 ml

RO WATER ( From : IIMR Building-RO) Sample Name: Manufacture License No:N/M Manufacturer Name: Manufacturing Date: Reference of Letter: Date of Letter: N/M N/M N/M N/M Date of Receipt: Batch Number:

Batch Size: A.R. Number:

Expiry / Retest Date:

08-07-2024 N/M N/M N/M

N/M Test specification as per IS 10500:2012 (Amendment-4) Packing: PLASTIC CAI
Analysis Start Date: 10-07-2024
Analysis End Date: 10-08-2024
Sampling Date: N/M
Sampling Location: N/M
Page Number: 1 of 4

Unsealed
PLASTIC CAN+ PLASTIC BOTTLE

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		*		-1101			V = 111
1.	Colour	Hazen unit	Less than 1	NMT 5	N/M	IS 3025 (Part 4) 2021	NMT 15
2.	Odour	Not Applicabl e	Agreeable	Agreeable	N/M	IS 3025 (Part 5)2018	Agreeable
3,	Taste	Not Applicabl e	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	140	NMT 500	N/M	IS 3025 (Part 16): 2023	NMT 2000
6.	pH value	Not Applicabl e	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	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 CI)	mg/L	14.1	NMT 250	N/M	IS3025 (Part 32)1988	NMT 1000
11,	Sulphate (as SO4)	mg/L	5.1	NMT 200	1.0	15 3025 (Part 24)1986	NMT 400



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IDR01250 12-08-2024 09:29:35

**Authorised Signatory** 

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For IIST/ IIP

Principal Indore Institute of Science

and Technology, Indore Monday, 23 December 2024



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#### CERTIFICATE OF ANALYSIS

CHOKSI

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INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, Issued to:

INDORE
OPP,IIM (INDORE) RAU-PITHAMPUR ROAD, RAU,
INDORE

Report No.: Issue date: Customer Ref(s): Customer ID:

CoA ID:

01700493/24-25 01700493/24-25 (v1)

Sample Quantity:

12-08-2024 N/M H210045

5 Liter+500 ml

, Madhya Pradesh India - 453331 RO WATER ( From : IIMR Building-Sample Name:

Manufacture License No:N/M Manufacturer Name: Manufacturing Date:

N/M N/M N/M 08-07-2024 Sealed / Unsealed: Packing:

Unsealed
PLASTIC CAN+ PLASTIC BOTTLE

PLASTIC CAI 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:

Manufacturing Date:
Reference of Letter:
Date of Letter:
Date of Recelpt:
Batch Number:
Batch Size: N/M N/M A.R. Number: N/M Expiry / Retest Date:

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 Me	etal						
1,	Copper, as Cu	mg/L	Below Detection Limit	NMT 0.05	0.00510	APHA 3125B	NMT 1.5



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#### **CERTIFICATE OF ANALYSIS**

Issued from

CHOKSI

Batch Number:

Batch Size: A.R. Number: Choksi Laboratories Limited (Building - 2 "Pasteur") Survey No. 9/1, Balaji Tulsiyana Industrial Estate, Kumedi, Off. M.R. 10 Toll Naka,

Kumedi, Off. M.R. 10 Toll Naka Indore - 452010 (M.P.) INDIA

ed to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP,IIM (INDORE) RAU-PITHAMPUR ROAD, RAU,

OPP,IIM (INDORE) RAU-PITHAMPUR ROAD, R INDORE . Madhva Pradesh

, Madhya Pradesh India - 453331 CoA ID: Report No.: Issue date: 01700493/24-25 01700493/24-25 (v1) 12-08-2024

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-

N/M N/M 08-07-2024 N/M

N/M N/M N/M N/M Sample Quantity: Sealed / Unsealed:

5 Liter+500 ml Unsealed PLASTIC CAN+ PLASTIC BOTTLE

Packing: PLASTIC CAN+
Analysis Start Date: 10-07-2024
Analysis End Date: 10-08-2024

Analysis End Date: 10-08-202
Sampling Date: N/M
Sampled By: Client
Sampling Location: N/M
Page Number: 3 of 4

Expiry / Retest Date: N/M
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
Biologica	l						w
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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Authorised Signatory

IDR01250 12-08-2024 09:29:35

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Principal Indore Institute of Science

Monday, 23 December 2024



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

#### **CERTIFICATE OF ANALYSIS**

CoA ID:

Report No.: Issue date:

Customer ID:

Customer Ref(s):

CHOKSI

Issued from:

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

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP\_IIM (INDORE) RAU-PITHAMPUR ROAD, RAU,

Madhya Pradesh

India - 453331

RO WATER ( From ; IIMR Building-

Manufacture License No:N/M Manufacturer Name: N/M Manufacturing Date: Reference of Letter: Date of Letter: N/M N/M N/M 08-07-2024

Date of Receipt: Batch Number: N/M Batch Size: N/M Expiry / Retest Date: N/M

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

01700493/24-25

01700493/24-25 (v1) 12-08-2024 N/M

11210045

5 Liter+500 ml Unsealed PLASTIC CAN+ PLASTIC BOTTLE

Sample Quantity: 5 Liter+500
Sealed / Unsealed: Unsealed
Packing: Analysis Start Date: 10-07-2024
Analysis End Date: 10-08-2024

ampled By: Client Sampling Location: N/M Page Number: 4

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

Sample Name:

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 MDI 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.

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 .

IDR00336 10-08-2024 16:40:47

**Authorised Signatory** 

IDR01250 12-08-2024 09:29:35

**OA Approver** 

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For IIST/ IIP/

Chief Adm



Principal ~ Indore Institute of Science Monday, 23 December indore



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

Sample(s) / Instruments are drawn and submitted by the client unless otherwise stated.

This certificate refers only the particular item and reported parameters submitted for calibration / analysis.

- 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.

  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.

Perishable samples will be destroyed after testing; toxic / hazardous samples will be returned to the customer or shall be forwarded for incineration.

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

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

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.

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

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.

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

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





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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 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 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 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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For IIST/ IID/ IIMR



Principal Principal Indore Institute of Science



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RO Water Girls Hostel IIST Report Dated- 12 Aug 2024

#### CERTIFICATE OF ANALYSIS

CHOKSI CLIMITED

Issued from: Choksl Laboratories Limited (Building - 2 "Pasteur") Survey No. 91, Baaliji 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, CoA ID: 01700494/24-25 Report No.; Issue date: Customer Ref(s); Customer ID: 01700494/24-25 (v1) 12-08-2024 N/M II210045 INDORE , Madhya Pradesh India - 453331 Sample Quantity: 5 Liter+500 ml
Sealed / Unsealed: Unsealed
PLASTIC CAN+ PLASTIC BOTTLE
Analysis Start Date: 10-08-2024
Analysis End Date: 10-08-2024
Sampling Date: N/M
Sampled By: Client
Sampling Location: N/M
Page Number: 1 of 4 Sample Name: RO WATER ( From ; Girls Hostel Building-RO) p:N/M Manufacture License Manufacturer Name: Manufacturing Date: Reference of Letter: Date of Recelpt: Date of Recelpt: Batch Number: Batch Size: A.R. Number: Expiry / Retest Date: N/M 08-07-2024 N/M N/M N/M N/M

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				ettlere i constitution in the			
1.	Colour	Hazen unit	Less than 1	NMT 5	N/M	IS 3025 (Part 4) 2021	NMT 15
2.	Odour	Not Applicabl e	Agreeable	Agreeable	N/M	IS 3025 (Part 5)2018	Agreeable
3,	Taste	Not Applicabl	Agreeable	Agreeable	N/M	(53025( Part -8) 2023	Agreeable
4.	Turbidity	NTU	6.0	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 Applicabl e	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	I53025 (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 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

Page 32 of 109. TI 145

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



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#### **CERTIFICATE OF ANALYSIS**

CoA ID:

CHOKSI

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

RO WATER ( From : Girls Hostel

N/M

Sample Name: Manufacture License No:N/M
Manufacturer Name: N/M

Manufacturer Name: Manufacturing Date:
Reference of Letter:
Date of Letter:
Date of Receipt:
Batch Number: N/M N/M 08-07-2024

Batch Size: A.R. Number: N/M N/M Expiry / Retest Date:

Report No.: Issue date: Customer Ref(s): 01700494/24-25 (v1) 12-08-2024 N/M Customer ID: 11210045

01700494/24-25

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: Cilient
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	I53025 (Part 60) 2008	NM⊤ 1.5
14.	Phenolic Compounds(asC6H5OH)	mg/L	Not Detected	NMT 0.001	0,001	153025 (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	OE TMN	N/M	IS 3025 (Part 46) 2023	NMT 100

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Heavy Me	tal		•				
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	E_0 TMN



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Monday, 23 December 2024 Indore



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#### CERTIFICATE OF ANALYSIS

CHOKSI LASORATORIES

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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

RO WATER ( From : Girls Hostel Building-RO)

Manufacture License No:N/M Manufacture License
Manufacturer Name:
Manufacturing Date:
Reference of Letter:
Date of Letter:
Date of Receipt: N/M N/M N/M N/M 08-07-2024

Sample Name:

Batch Number: Batch Size: N/M N/M A.R. Number: N/M Expiry / Retest Date: N/M CoA ID: Report No.: Issue date: Customer Ref(s): 01700494/24-25 01700494/24-25 (v1) 12-08-2024 N/M

11210045 Customer ID:

5 Liter+500 ml Unsealed PLASTIC CAN+ PLASTIC BOTTLE Sample Quantity: Sealed / Unsealed:

Sealed / Unsealed | Unsealed | Placking: PlaSTIC CA | 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

### 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	0.01	NMT 5	0.00510	APHA 3125B	NMT 15
	Total Chromium, as Cr	mg/L	Not Detected	NMT 0.05	0.00510	APHA 3125 B	No Relaxation
	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
Biologica				17/1			
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	I5:15185:2016	Should not be detected

[ End of Report ]

- 1. 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.

3. MDL Refer to Method Detection Limit

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**Authorised Signatory** 

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Monday, 23 December 2024re



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#### CERTIFICATE OF ANALYSIS

CHOKSI LABORATORIES

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Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE

N/M

N/M

, Madhya Pradesh India - 453331

Report No.: Issue date: Customer Ref(s): Customer ID:

CoA ID:

01700494/24-25 01700494/24-25 (v1) 12-08-2024

N/M

11210045

RO WATER ( From : Girls Hostel Sample Name: Building-RO)
Manufacture License No:N/M

Manufacturer Name: N/M N/M N/M Manufacturing Date: Reference of Letter: Date of Letter: Date of Receipt: N/M 08-07-2024

**Batch Number:** Batch Size: A.R. Number: Expiry / Retest Date: Sample Quantity: 5 Liter+500 ml
Sealed / Unsealed: Unsealed
Packing: PLASTIC CAN+ PLASTIC BOTTLE

Sealed / Unsealed: Unsealed Placking: PLASTIC CAl Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024 Sampling Date: N/M Sampled By: Client Date: N/M Client Sampled By: Sampling Location: N/M Page Number: 4

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

- 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.

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Principal Indore Institute of Science Monday, 23 December 2024



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

- Sample(s) / Instruments are drawn and submitted by the client unless otherwise stated,
- This certificate refers only the particular item and reported parameters submitted for calibration / analysis,
- The results reported in this certificate are valid for the sample / instrument received as is and at the time of and under the stinulated conditions of measurement.
- 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.
   Perishable samples will be destroyed after testing; toxic / hazardous samples will be returned to the customer or shall be forwarded for incineration.
- 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, Onsite inspection services for soil and constructions sites.

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.

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, Kumedi, Off MR10 Toli 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 Vapl 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 Panchkula Laboratory

Plot No. 362, Industrial Area, Phase -ll, Panchkula - 734 112 (Haryana) Tel: +91-172-5048600 / 01 / 02 E-mail: panchkula@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 2024dore



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RO Water IIP Building Report Dated- 12 Aug 2024

### CERTIFICATE OF ANALYSIS

CoA ID:

CHOKSI CHOKSI

ISSUED TOM: Choksi Laboratories Limited (Building - 2 "Pasteur") Survey No. 971, Balaji Tulsiyana Industrial Estate, Kumedi, Off. M.R. 10 Toil Naka, Indore - 452010 (M.P.) INDIA

Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU,

Sample Name: RO WATER (From : IIP Building-RO)
Manufacturer Name: N/M
Manufacturing Date: N/M
Reference of Letter: N/M
Date of Receipt: 08-07-2024
Batch Number: N/M
Batch Size: N/M
BAR. Number: N/M

N/M N/M N/M N/M A.R. Number: Expiry / Retest Date:

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

01700495/24-25 01700495/24-25 (v1) 12-08-2024

Report No.: Issue date: Customer Ref(s): Customer ID: N/M II210045

Sample Quantity: S Liter+500 ml
Sealed / Unsealed: Unsealed
Packing: PLASTIC CAN+ PLASTIC BOTTLE
Analysis Start Date: 10-08-2024
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)

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 Applicabl e	Agreeable	Agreeable	N/M	IS 3025 (Part 5)2018	Agreeable
3.	Taste	Not Applicabi e	Agreeable	Agreeable	N/M	153025( 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 Applicabl e	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	153025 (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 504)	mg/L	4,3	NMT 200	1.0	IS 3025 (Part 24)1986	NMT 400

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**Authorised Signatory** 

IDR01250 12-08-2024 16:11:16

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Principal Principal Indore Institute of Science Monday, 23 December 2024



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### CERTIFICATE OF ANALYSIS

CHOKSI

Issued from: Survey No. 9/1, Balaji Tulsiyana Industrial Estate, Kumedi, Off, M.R., 10 Toll Naka,

Indore - 452010 (M.P.) INDIA

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE

, Madhya Pradesh India - 453331

RO WATER ( From : IIP Building-RO)

Manufacture License No:N/M Manufacture License
Manufacturer Name:
Manufacturing Date:
Reference of Letter:
Date of Letter:
Date of Receipt: N/M N/M N/M

Batch Number: Batch Size:

issued to:

A.R. Number:

N/M 08-07-2024 N/M N/M

Expiry / Retest Date:

N/M

CoA ID: Report No.:

01700495/24-25 01700495/24-25 (v1) 12-08-2024 Issue date: Customer Ref(s): Customer ID:

N/M

11210045

Packing: 5 Liter+500 ml
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: Clien
Sampling Location: N/M
Page Number: 2 of Client 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	153025 (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	100,0 TMN	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 (asH25)	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 Met	al						
1,	Copper, as Cu	mg/L	Below Detection Limit	NMT 0.05	0.00510	APHA 3125B	NMT 1,5



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Page 39 of 109

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Indore Institute of Science

and Technology, Indore Monday, 23 December 2024



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# **CERTIFICATE OF ANALYSIS**

CHOKSI

Issued from: Choksl 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

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY,

OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE

, Madhya Pradesh India - 453331

RO WATER ( From ; IIP Building-RO) Sample Name:

Manufacture License No:N/M
Manufacturer Name: N/M
Manufacturing Date: N/M Manufacturing Date: Reference of Letter: N/M N/M

Date of Letter: Date of Receipt: 08-07-2024 N/M Batch Number: Batch Size: N/M A.R. Number:

Expiry / Retest Date: N/M Test specification as per IS 10500:2012 (Amendment-4) COA ID: Report No.: Issue date: Customer Ref(s): Customer ID: 01700495/24-25 01700495/24-25 (v1) 12-08-2024

N/M 11210045

Sample Quantity: Sealed / Unsealed: 5 Liter+500 ml

Unsealed
PLASTIC CAN+ PLASTIC BOTTLE

Packing: PLASTIC CAI Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024 Sampling Date: Sampled By: N/M Client Sampling Location: N/M Page Number: 3 of

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
	Manganese, as Mn	mg/L	Below Detection Limit	NMT 0.1	0.00510	APHA 3125B	NMT 0.3
	Mercury, as Hg	mg/L	Not Detected	NMT 0.001	0.00051	APHA 3125B	No Relaxation
	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
	Molybdenum, as Mo	mg/L	Below Detection Limit	NMT 0.07	0.00510	APHA 31258	No Relaxation
	Nickel, as Ni	mg/L	Not Detected	NMT 0.02	0.00510	APHA 3125B	No Relaxation
	Silver, as Ag	mg/L	Below Detection Limit	NMT 0.1	0.00510	APHA 3125B	No Relaxation
	Lead, as Pb	mg/L	Not Detected	NMT 0.01	0.00510	APHA 3125B	No Relaxation
	Zinc, as Zn	mg/L	0.03	NMT 5	0.00510	APHA 3125B	NMT 15
14.		mg/L	Not Detected	NMT 0.05	0.00510	APHA 3125 B	No Relaxation
	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
Biologica	1						
1.	. Escherichia coli	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185-2016	Should not b detected
2.	. Total Coliform	in 100 mL	Not Detected	Should not be detected	N/M	15:15185:2016	Should not be detected

[ End of Report ]



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**Authorised Signatory** 

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## CERTIFICATE OF ANALYSIS

Issued from:

CHOKSI

ISSUED Trom:
Choksi Laboratories Limited (BulldIng - 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

RO WATER ( From : IIP Building-RO)

Manufacture License No:N/M Manufacturer Name: N/M Manufacturing Date: Reference of Letter: N/M Date of Letter: Date of Receipt: N/M 08-07-2024

Sample Name:

Batch Number: Batch Size: N/M A.R. Number: Expiry / Retest Date:

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

01700495/24-25 CoA ID: Report No.: 01700495/24-25 (v1)

12-08-2024 Issue date: Customer Ref(s): 11210045 Customer ID:

Sample Quantity: Sealed / Unsealed: 5 Liter+500 ml

Unsealed
PLASTIC CAN+ PLASTIC BOTTLE Packing: PLASTIC CA Analysis Start Date: 10-07-2024

Analysis Start Date: 10-08-2024
Analysis End Date: 10-08-2024
Sampling Date: N/M
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)

#### Remarks:

- 1. 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,
- 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.
- 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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**Authorised Signatory** 

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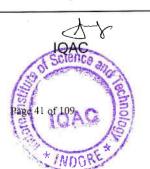
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For IIST/ IIP/ IIMR

e Officer



Principal

Indore Institute of Science

and Technology, Indore 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.
- 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, Onsite 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.

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, 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

E-mail: vapi@choksilab.com

### CLL Vapi Laboratory

32, Vibrant Business Park, Opp. UPL, N.H. - 48, Vapl, Gujarat, India 396195 Tel: +91-260-2433488, 2432715, 2432731

### CLL Panchkula Laboratory

Plot No. 362, Industrial Area, Phase -li, Panchkula - 734 112 (Haryana) Tel: +91-172-5048600 / 01 / 02 E-mail : panchkula@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

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

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

## CERTIFICATE OF ANALYSIS

Issued from:

CHOKSI LIMITED

Expiry / Retest Date:

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.

INJUNE OPP\_IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331

CoA ID: Report No.: Issue date: Customer Ref(s): Customer ID:

01700496/24-25 01700496/24-25 (v1) 12-08-2024

11210045

BORE WELL WATER ( At Basket Ball Sample Name: Manufacture License Manufacturer Name: Manufacturing Date: Reference of Letter: Date of Letter: Date of Receipt: Batch Number: Batch Size: A.R. Number:

N/M 08-07-2024 N/M N/M N/M N/M

Sample Quantity: 5 Liter+500 ml
Sealed / Unsealed: Unsealed
Packing: PLASTIC CAN+ PLASTIC BOTTLE
Analysis Start 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 Applicabl e	Agreeable	Agreeable	N/M	IS 3025 (Part 5)2018	Agreeable
3,	Taste	Not Applicabl e	Agreeable	Agreeable	N/M	IS3025( Part -8) 2023	Agreeable
4.	Turbidity	NTU	0,6	NMT1	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 Applicabl e	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

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For IIST



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



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 Toli Naka, Indore - 452010 (M.P.) INDIA

Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY. OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE

, Madhya Pradesh India - 453331

BORE WELL WATER ( At Basket Ball Ground )
Manufacture License No:N/M

Manufacturer Name: N/M Manufacturing Date: Reference of Letter: N/M Date of Letter: Date of Receipt: N/M 08-07-2024 Batch Number: Batch Size:

A.R. Number: Expiry / Retest Date:

CHOKSI

Sample Name:

N/M N/M N/M N/M

CoA ID: Report No.: Issue date:

01700496/24-25 01700496/24-25 (v1) 12-0B-2024

Customer Ref(s): Customer ID: 11210045

Sample Quantity: Sealed / Unsealed:

5 Liter+500 ml Unsealed PLASTIC CAN+ PLASTIC BOTTLE Packing: Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024

Sampling Date: Sampled By: N/M Client Sampling Location: N/M Page Number: 2 of

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	153025 (Part 60) 2008	NMT 1.5
14.	Phenolic Compounds(asC6H5OH)	mg/L	Not Detected	NMT 0.001	0.001	I53025 (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 Me	tal					HAVE THE PARTY OF	
1.	Copper, as Cu	mg/L	0.01	NMT 0.05	0.00510	APHA 3125B	NMT 1.5



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**Authorised Signatory** 

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For IIST/ IIP/ IIMR

officer



Principal Indore Institute of Science aMonday, 23 December 2024



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### CERTIFICATE OF ANALYSIS

CHOKSI

LABORATORIES

Sample Name:

Issued from:

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

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY. INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU,

INDORE Madhya Pradesh

India - 453331

BORE WELL WATER ( At Basket Ball

Ground )

Manufacture License No:N/M N/M

Manufacturer Name: Manufacturing Date: Reference of Letter: Date of Letter: N/M Date of Receipt: Batch Number: 08-07-2024 N/M

Batch Size: A.R. Number: N/M Expiry / Retest Date:

N/M Description :- Clear colorless liquid without suspended particles

01700496/24-25 CoA ID: Report No.: 01700496/24-25 (v1) Issue date: Customer Ref(s):

12-08-2024

11210045 **Customer ID:** 

5 Liter+500 ml Unsealed PLASTIC CAN+ PLASTIC BOTTLE Sample Quantity: Sealed / Unsealed: Packing:

Analysis Start Date: 10-07-2024 10-08-2024 N/M

Analysis Start Date: 10-0
Analysis End Date: 10-0
Sampling Date: N/M
Sampled By: Clier
Sampling Location: N/M Client Page Number: 3 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
2.	Iron, as Fe	mg/L	Not Detected	NMT 1.0	0.00510	APHA 31258	No Relaxation
3.	Manganese, as Mn	mg/L	Below Detection Limit	NMT 0,1	0.00510	APHA 3125B	E_0 TMN
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 31258	No Relaxation
В.	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.		mg/L	Below Detection Limit	NMT 0.05	0.00510	APHA 3125 B	No Relaxation
	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
Biologica	l		- 4				
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 ]



IDR00012 12-08-2024 15:54:49

**Authorised Signatory** 

IDR01250 12-08-2024 16:26:14

**QA Approver** 

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For HST/ IN



Principal Indere Institute of Science and Technology, Indore

Monday, 23 December 2024



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

# CERTIFICATE OF ANALYSIS

CHOKSI LABORATORIES

Manufacturer Name:

Batch Number: Batch Size:

A.R. Number:

Issued from:

aboratories 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, OPP\_IIM (INDORE) RAU-PITHAMPUR ROAD, RAU,

INDORE , Madhya Pradesh India - 453331 COA ID: Report No.: Issue date: Customer Ref(s):

Customer ID:

01700496/24-25 01700496/24-25 (v1) 12-08-2024

N/M 11210045

BORE WELL WATER ( At Basket Ball Sample Name:

Ground ) Manufacture License No:N/M N/M

Manufacturing Date: N/M Reference of Letter: N/M 08-07-2024 N/M

Date of Letter: Date of Receipt: N/M Expiry / Retest Date:

5 Liter+500 mł Unsealed PLASTIC CAN+ PLASTIC BOTTLE Sample Quantity: Sealed / Unsealed: Packing: PLASTIC CA Analysis Start Date: 10-07-2024

Analysis End Date: 10-08-2024 Sampling Date: Sampled By: Client

Sampling Location: 4 of 4 Page Number:

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
- 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.
- Free Residual Chlorine Limit To be applicable only when water is chlorinated.
- 6. 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 .

IDR00012 12-08-2024 15:54:49

**Authorised Signatory** 

IDR01250 12-08-2024 16:26:14

QA Approver

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Admin

For IIST/ IXP7

Officer



Principal rincipal Indore Institute of Science Monday, 23 December 2024



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.
- 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.
- 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

# **Bullding Materials Testing Services:**

Metals, Sand/Aggregate, Bricks, Paving Block, Cement, Paints, Minerals, PVC/HDPE Pipes, Packaging Materials & Wood Products, Onsite 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:**

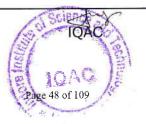
Indoor and Outdoor Monitoring for workplaces / hotels / hospitals / homes etc., Industrial monitoring – ambient and stack, River/Lake water quality survey.

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For IIST/ I/P/ II)R



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Indore Institute of Science

Monday, 23 December 2024 e



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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 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 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 Goa Laboratory

C-18, C-20 Verna Industrial Estate, Phase – 1A, Verna – 403722, Goa (India) Tel: +91-838-0033301 / 02 / 03 / 04

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Indore Institute of Science and Technology, Indore

Monday, 23 December 2024



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

# **CERTIFICATE OF ANALYSIS**

CHOKSI

Sample Name: OPER
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: 08-0
Batch Number: N/M
A.R. Number: N/M
Faulty States N/M
A.R. Number: N/M

Sample Name:

Issued from:

OPEN WELL WATER ( At C-Block )

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

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, Issued to: INDORE
OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331

Report No.: Issue date: Customer Ref(s): Customer ID:

01700497/24-25 01700497/24-25 (v1)

12-08-2024 N/M II210045

5 Liter+500 ml

Unsealed PLASTIC CAN+ PLASTIC BOTTLE

Sample Quantity: 5 Liter+500
Sealed / Unsealed: Unsealed
Packing: 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

Expiry / Retest Date: N/M Description :- Clear colorless liquid without suspended particles

N/M 08-07-2024

# 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		= 200 2777					
1,	Colour	Hazen unit	Less than 1	NMT 5	N/M	IS 3025 (Part 4) 2021	NMT 15
2.	Odour	Not Applicabl e	Agreeable	Agreeable	N/M	IS 3025 (Part 5)2018	Agreeable
3.	Taste	Not Applicabl e	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	300	NMT 500	N/M	IS 3025 (Part 16): 2023	NMT 2000
6.	pH value	Not Applicabl e	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.	Calclum (asCa)	mg/L	54.7	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	25.2	NMT 250	N/M	IS3025 (Part 32)1988	NMT 1000
11,	Sulphate (as 504)	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	IS3025 (Part 34)1988	No Relaxation

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IDR01250 12-08-2024 16:14:30

**Authorised Signatory** 

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Page 50 of 109

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



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### CERTIFICATE OF ANALYSIS

CHOKSI

Issued from:

Tobacca 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 INSTITUTE OF SOCIETY OF THE INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh

India - 453331

Manufacture License No:N/M Manufacturer Name: N/M Manufacturing Date: N/M Manufacturing Date:
Reference of Letter:
Date of Letter:
Date of Receipt:
Batch Number:
Batch Size: N/M

Sample Name:

N/M N/M A.R. Number: Expiry / Retest Date: N/M Description :- Clear colorless liquid without suspended particles

OPEN WELL WATER ( At C-Block )

08-07-2024

CoA ID:

01700497/24-25 Report No.: 01700497/24-25 (v1) 12-08-2024

Customer Ref(s): Customer ID:

11210045

Sample Quantity:

5 Liter+500 ml

Packing: PLASTIC CAN+ PLASTIC BOTTLE
Analysis Start Date: 10-07-2024 10-08-2024 N/M

Analysis End Date: 10-0
Sampling Date: N/M
Sampled By: Clier
Sampling Location: N/M Client 2 of 4 Page Number:

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 CI2)	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	NM⊤ 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)	NMT 100

Sr.No.	Characteristics	Unit	Result	Specification	MDL	Reference Method	Permissible Limits
Heavy Me	etal		AMMINISTRATION OF THE PROPERTY				***************************************
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 31258	No Relaxation
3.	Manganese, as Mn	mg/L	0,01	NMT 0.1	0.00510	APHA 3125B	E.O TMN



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**Authorised Signatory** 

**QA Approver** 

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III e Officer



Principal Principal Indore Institute of Science

and Technology, Indore Monday, 23 December 2024



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# CERTIFICATE OF ANALYSIS

CHOKSI

Issued to:

Issued from: Choksi Laboratories Limited (Building - 2 "Pasteur")

Choksi Caboratores Clinical Salaria Tulsiyana Industrial Estate, Survey No. 9/1. Balaji Tulsiyana Industrial Estate, Kumedi, Off. M.R., 10 Toll Naka, Indore - 452010 (M.P.) INDIA

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY,

INDORE
OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh

India - 453331

OPEN WELL WATER ( At C-Block ) Sample Name:

Manufacture License No:N/M Manufacturer Name: N/M N/M N/M Manufacturing Date: Reference of Letter: Date of Letter: Date of Receipt: N/M

08-07-2024 N/M N/M Batch Number: **Batch Size:** 

N/M Expiry / Retest Date:

CoA ID: Report No.: Issue date:

01700497/24-25 01700497/24-25 (v1) 12-08-2024

Customer Ref(s): Customer ID:

N/M 11210045

5 Liter+500 ml Sample Quantity: Sealed / Unsealed: Unsealed
PLASTIC CAN+ PLASTIC BOTTLE

Packing: PLASTIC CAI Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024 Sampling Date: Sampled By: N/M Client

Sampling Location: N/M 3 of 4 Page Number:

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	Vnit	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
	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.		mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No Relaxation
	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 31258	NMT 15
14.	Total Chromlum, as Cr	mg/L	Below Detection Limit	NMT 0.05	0.00510	APHA 3125 B	No Relaxation
	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
Blologica							
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 ]

- 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.

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**Authorised Signatory** 

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For IIST/ I Officer

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Indore Institute of Science Monday, 23 December 2024 OFE



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## CERTIFICATE OF ANALYSIS

Issued from:

CHOKSI

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

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE
OPP\_IIM (INDORE) RAU-PITHAMPUR ROAD, RAU,

INDORE , Madhya Pradesh

India - 453331

Sample Quantity:

Report No.:

CoA ID:

01700497/24-25 01700497/24-25 (v1) 12-08-2024 N/M

5 Liter+500 ml

Issue date: Customer Ref(s): Customer ID:

11210045

OPEN WELL WATER ( At C-Block ) Sample Name:

Manufacture License No:N/M Manufacturer Name: N/M N/M N/M Manufacturing Date: Reference of Letter: Date of Letter: Date of Receipt:

Batch Size:

N/M 08-07-2024 N/M N/M Batch Number: A.R. Number: Expiry / Retest Date: NI/M N/M

Sealed / Unsealed: Packing: Unscaled PLASTIC CAN+ PLASTIC BOTTLE Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024

Sampling Date: Sampled By: N/M Sampling Location: N/M Page Number: 4 of

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)

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.

pH value is reported as at 25 °C.

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 .

IDR00012 12-08-2024 15:58:23 **Authorised Signatory** 

IDR01250 12-08-2024 16:14:30

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Monday, 23 December 2024



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# IMPORTANT INFORMATION FOR CERTIFICATE OF ANALYSIS (COA) / CERTIFICATE OF CALIBRATION (COC):

- Sample(s) / Instruments are drawn and submitted by the client unless otherwise stated,
- This certificate refers only the particular item and reported parameters submitted for calibration / analysis,
   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,
- 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.
- 7. Perishable samples will be destroyed after testing; toxic / hazardous samples will be returned to the customer or shall be forwarded for incineration.
- 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, Onsite inspection services for soil and constructions sites.

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.

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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Monday, 23 December 2024 Inclore



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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 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 Panchkula Laboratory**

Piot No. 362, Industrial Area, Phase -il, Panchkula - 734 112 (Haryana) Tel: +91-172-5048600 / 01 / 02 E-mail : panchkula@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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For HST/ HP/IIM



Principal

Principal

Indor Monday, 23 December 2024



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

Bore Bell Water Farming Land Report Dated- 12 Aug 2024

# CERTIFICATE OF ANALYSIS

CoA ID:

BORE WELL WATER ( At Farming

CHOKSI

Manufacture License No:N/M Manufacturer Name: N/M

Manufacturer Name: Manufacturing Date: Reference of Letter: Date of Letter: Date of Receipt: Batch Number:

Sample Name:

Batch Size:

A.R. Number:

Issued from: 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

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, Issued to:

Report No.: Issue date: OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE

, Madhya Pradesh India - 453331

Customer Ref(s): Customer ID:

5 Liter+500 ml

01700498/24-25

1210045

01700498/24-25 (v1) 12-08-2024 N/M

Unsealed PLASTIC CAN+ PLASTIC BOTTLE

Sample Quantity: 5 Liter+500
Sealed / Unsealed: Unsealed
Packing: PLASTIC CAM
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

N/M Expiry / Retest Date: N/M Description :- Clear colorless liquid without suspended particles

N/M N/M N/M 08-07-2024 N/M N/M

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						di —	W.
1.	Colour	Hazen unit	Less than 1	NMT 5	N/M	IS 3025 (Part 4) 2021	NMT 15
2.	Odour	Not Applicabl e	Agreeable	Agreeable	N/M	IS 3025 (Part 5)2018	Agreeable
3.	Taste	Not Applicabl e	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 Applicabl e	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 CI)	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

IDR01250 12-08-2024 16:18:25

**Authorised Signatory** 

QA Approver

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Admin

Principal

Principal

Indore In Monday, 23 December 2024

and Technology, Indore



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

### CERTIFICATE OF ANALYSIS

CHOKSI

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

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, Issued to:

INDORE
OPP,IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE

, Madhya Pradesh India - 453331

BORE WELL WATER ( At Farming

Land )
Manufacture License No:N/M

N/M N/M N/M

Sample Name:

Manufacture License
Manufacturer Name:
Manufacturing Date:
Reference of Letter:
Date of Letter:
Date of Receipt: N/M 08-07-2024 N/M

Batch Number: Batch Size: A.R. Number: N/M Expiry / Retest Date: N/M CoA ID:

Report No.: Issue date: Customer Ref(s): Customer ID:

01700498/24-25 01700498/24-25 (v1) 12-08-2024 N/M

11210045

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	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	153025 (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 CI2)	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. Co	pper, as Cu	mg/L	0.01	NMT 0.05	0.00510	APHA 3125B	NMT 1.5



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**Authorised Signatory** 

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



01700498/24-25 01700498/24-25 (v1)

12-08-2024 N/M

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

# CERTIFICATE OF ANALYSIS

CoA ID:

CHOKSI LABORATORIES

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, OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU,

INDORE , Madhya Pradesh India - 453331

Report No.: Issue date: Customer Ref(s): Customer ID:

BORE WELL WATER ( At Farming Sample Name: Land )
Manufacture License No:N/M

N/M N/M Manufacturer Name: Manufacturing Date: Reference of Letter: Date of Letter: Date of Recelpt: Batch Number: N/M N/M 08-07-2024

N/M Batch Size: N/M A.R. Number: Expiry / Retest Date: N/M Sealed / Unsealed: Unsealed Packing: Unsealed 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

Sampling Location: N/M
Page Number: 3 of

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	E,0 TMN
4.	Mercury, as Hg	mg/L	Not Detected	NMT 0.001	0.00051	APHA 31258	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 Aq	mg/L	Not Detected	NMT 0.1	0.00510	APHA 31258	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
Blologica	i						
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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and TeMenday 23 December 2024



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### **CERTIFICATE OF ANALYSIS**

CHOKSI

Manufacture License No

Manufacturer Name: Manufacturing Date:

Reference of Letter: Date of Letter: Date of Receipt:

Expiry / Retest Date:

Batch Number: Batch Size:

A.R. Number:

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,

OPP,IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE

Land)

:N/M

N/M

N/M

N/M

N/M

, Madhya Pradesh India - 453331 BORE WELL WATER ( At Farming Sample Name:

CoA ID: Report No.: Issue date: 01700498/24-25 01700498/24-25 (v1) 12-08-2024

Customer Ref(s): 11210045 Customer ID:

5 Liter+500 ml Sample Quantity: Sealed / Unsealed:

Unsealed PLASTIC CAN+ PLASTIC BOTTLE

Packing: Analysis Start Date: 10-07-2024 Analysis End Date: 10-08-2024

Sampling Date: Sampled By: N/M Client Sampling Location: N/M Page Number:

Description :- Clear coloriess liquid without suspended particles

08-07-2024

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

#### 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,
- 3 MDI 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.
- Free Residual Chlorine Limit To be applicable only when water is chlorinated.
- 6. pH value is reported as at 25 °C.
- 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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Authorised Signatory

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**QA Approver** 

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For IIST/ Officer

Principal

Principal Indore Institute of Science

and To Monday 23/December 2024



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

- Sample(s) / Instruments are drawn and submitted by the client unless otherwise stated.
- This certificate refers only the particular item and reported parameters submitted for calibration / analysis,
- 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.
- 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.
- In case of any dispute, Indore jurisdiction is applicable.
- Perishable samples will be destroyed after testing; toxic / hazardous samples will be returned to the customer or shall be forwarded for incineration.
- 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, Onsite inspection services for soil and constructions sites.

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.

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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Indore Institute of Science and 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-mall : baroda@choksilab.com

### CLL Vapl 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 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 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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For IIST/ IIP/ IIMR

Chief Officer



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Indere institute of Science Monday, 23 December 2024



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Bore Well Water Khajoor Tree Report Dated- 12 Aug 2024

# CERTIFICATE OF ANALYSIS

BORE WELL WATER ( Near Khajoor

CHOKSI

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

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, Issued to: INDORE
OPP.JIM (INDORE) RAU-PITHAMPUR ROAD, RAU,
INDORE

N/M N/M 08-07-2024

, Madhya Pradesh India - 453331

Sample Name: BORE
Tree :

Manufacture License No:N/M
Manufacturer Name: N/M
Reference of Letter: N/M
Date of Letter: N/M
Date of Receipt: 09-07
Batch Number: N/M
A.R. Number: N/M
Expiry / Retest Date: N/M

Sample Name:

Report No.: Issue date: Customer Ref(s): Customer ID:

CoA ID:

01700499/24-25 01700499/24-25 (v1)

10-08-2024 N/M II210045

5 Liter+500 ml Unsealed PLASTIC CAN+ PLASTIC BOTTLE Sample Quantity: Sealed / Unsealed:

| Sealed / Unsealed | Unsealed | PLASTIC CAT |
| PackIng | PLASTIC CAT |
| PlasTic

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 Applicabl	Agreeable	Agreeable	N/M	IS 3025 (Part 5)2018	Agreeable
3.	Taste	Not Applicabl	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 Applicabl e	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 504)	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



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IDR01250 10-08-2024 17:26:57

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### CERTIFICATE OF ANALYSIS

CHOKSI

Tree )
Manufacture License No:N/M

Sample Name:

Batch Number: Batch Size:

A.R. Number:

Manufacturer Name: Manufacturing Date: Reference of Letter: Date of Letter: Date of Receipt:

Expiry / Retest Date:

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

BORE WELL WATER ( Near Khajoor

Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY,

INDORE
OPP,IIM (INDORE) RAU-PITHAMPUR ROAD, RAU,

INDORE , Madhya Pradesh India - 453331

N/M

N/M N/M

N/M 08-07-2024

N/M N/M

N/M

CoA ID: Report No.: Issue date: Customer Ref(s): Customer ID:

01700499/24-25 01700499/24-25 (v1)

10-08-2024 N/M 11210045

Sample Quantity: Sealed / Unsealed:

5 Liter+500 ml Unsealed PLASTIC CAN+ PLASTIC BOTTLE Packing: PLASTIC CA Analysis Start Date: 10-07-2024

Analysis End Date: 10-08-2024
Sampling Date: N/M
Sampled By: Client 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	153025 (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	153025 (Part 23) a 2023	NMT 600
23.	Magneslum (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 Me	etal	0.01					
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



IDR00336 10-08-2024 16:41:15

Authorised Signatory

IDR01250 10-08-2024 17:26:57

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Admin For IIST/MP Officer



Principal Principal Indore Institute of Science and Monday 23 December 2024



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### **CERTIFICATE OF ANALYSIS**

CHOKSI

Sample Name:

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, OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU,

INDORE , Madhya Pradesh India - 453331

BORE WELL WATER ( Near Khaigor Tree )
Manufacture License No:N/M N/M

Manufacturer Name: Manufacturing Date: Reference of Letter: Date of Letter: Date of Receipt: Batch Number: N/M 08-07-2024

Batch Size: N/M Expiry / Retest Date: N/M

01700499/24-25 01700499/24-25 (v1) CoA ID: Report No.: Issue date: 10-08-2024 N/M

Customer Ref(s): Customer ID: 11210045

Sample Quantity: Sealed / Unsealed:

5 Liter+500 ml Unsealed PLASTIC CAN+ PLASTIC BOTTLE Packing: PLASTIC CA
Analysis Start Date: 10-08-2024
Analysis End Date: 10-08-2024
Sampling Date: N/M

Sampled By: Cllent Sampling Location: N/M Page Number:

# 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
Biologíca		***************************************	E:				
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.
- Sample not drawn by CLL representative and sample information as furnished by customer.

MDL Refer to Method Detection Limit

IDR00336 10-08-2024 16:41:15

Authorised Signatory

IDR01250 10-08-2024 17:26:57

**QA Approver** 

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Admin

Principal

Principal

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



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### **CERTIFICATE OF ANALYSIS**

CHOKSI

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

OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331

Report No.: Issue date: Customer Ref(s): Customer ID:

01700499/24-25 01700499/24-25 (v1) 10-08-2024 N/M

CoA ID:

11210045

BORE WELL WATER ( Near Khajoor

Manufacture License No:N/M Manufacturer Name: Manufacturing Date: Reference of Letter: Date of Letter: Date of Receipt: N/M

Sample Name:

08-07-2024 Batch Number: Batch Size: N/M N/M A.R. Number: N/M Expiry / Retest Date:

Sample Quantity: Sealed / Unsealed: 5 Liter+500 ml Unsealed
PLASTIC CAN+ PLASTIC BOTTLE

Packing: PLASTIC CA
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 (INCLUSIVE OF ALL AMENDMENTS AS ON DATE - UP TO AMENDMENT-4)

- $oldsymbol{4}_{\mathrm{c}}$  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

IDR00336 10-08-2024 16:41:15

**Authorised Signatory** 

IDR01250 10-08-2024 17:26:57

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Indore Institute of Science 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.
- This certificate refers only the particular item and reported parameters submitted for calibration / analysis.
- 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.

  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

Bullding Materials Testing Services:

Metals, Sand/Aggregate, Bricks, Paving Block, Cement, Paints, Minerals, PVC/HDPE Pipes, Packaging Materials & Wood Products, Onsite 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, 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 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 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 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

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

Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP,IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE

> N/M 09-07-2024 N/M N/M N/M

, Madhya Pradesh India - 453331

Manufacture License No:N/M

Manufacture License
Manufacturing Date:
Meference of Letter:
Date of Receipt:
Batch Number:
Batch Size:
A.R. Number:

Expiry / Retest Date:

01700511/24-25 01700511/24-25 (v1) 14-08-2024

II210045

CoA ID: Report No.; Issue date: Customer Ref(s): Customer ID:

5 Liter+500 ml BORE WELL WATER ( Near Staff Flat

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
Analysis End Date: 14-08-2024
Sampling Date: N/M
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 Applicabl e	Agreeable	Agreeable	N/M	IS 3025 (Part 5)2018	Agreeable
3.	Taste	Not Applicabl e	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 Applicabl e	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)1988	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

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**Authorised Signatory** 

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: Report No.: Issue date: Customer Ref(s):

01700511/24-25 01700511/24-25 (v1)

14-08-2024 N/M

Sample Name: BORE WELL WATER ( Near Staff Flat

N/M

N/M

Manufacture License No:N/M Manufacturer Name: N/M N/M

Manufacturing Date: Reference of Letter: Date of Letter: N/M Date of Receipt: Batch Number:

Batch Size: A.R. Number: Expiry / Retest Date:

09-07-2024 N/M Sampling Location: N/M
Page Number: 2 of 4 Page Number:

Seample 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 Learner

# 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	153025 (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 M	etal						***************************************
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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# CERTIFICATE OF ANALYSIS

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INDORE INSTITUTE OF SCIENCE & TECHNOLOGY,

OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE

, Madhya Pradesh

India - 453331

BORE WELL WATER ( Near Staff Flat

Manufacture License No:N/M Manufacturer Name: N/M Manufacturing Date: Reference of Letter: N/M Date of Letter: 09-07-2024

Date of Receipt: Batch Number: Batch Size:

Sample Name:

N/M A.R. Number: Expiry / Retest Date: N/M COA ID: Report No.: Issue date:

01700511/24-25 01700511/24-25 (v1) 14-08-2024

Customer Ref(s): 11210045 **Customer ID:** 

5 Liter+500 ml Sample Quantity: Sealed / Unsealed:

Unsealed
PLASTIC CAN+ PLASTIC BOTTLE Packing: PLASTIC CAI Analysis Start Date: 18-07-2024

Analysis End Date: 14-0
Sampling Date: N/M
Sampled By: Clier
Sampling Location: N/M 3 of 4 Page Number:

14-08-2024 N/M Client

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
		mg/L	Not Detected	NMT 0.001	0.00051	APHA 3125B	No Relaxation
	Mercury, as Hg		Not Detected	NMT 0.003	0.00255	APHA 3125B	No Relaxation
5.	Cadmium, as Cd	mg/L			0.00510	APHA 3125B	No Relaxation
6.	Selenium, as Se	mg/L	Below Detection Limit				No Relaxation
7	Total arsenic, as As	mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	
		mg/L	0.01	NMT 0.7	0.00510	APHA 31258	No Relaxation
1,400	Barium, as Ba	_	Below Detection Limit	NMT 0.07	0.00510	APHA 3125B	No Relaxation
9.	Molybdenum, as Mo	mg/L			0.00510	APHA 3125B	No Relaxation
10.	Nickel, as Ni	mg/L	Below Detection Limit	NMT 0.02	_		No Delevation
	Silver, as Ag	mg/L	Below Detection Limit	NMT 0.1	0.00510	APHA 3125B	No Relaxation
		mg/L	Below Detection Limit	NMT 0.01	0.00510	APHA 3125B	No Relaxation
12.	Lead, as Pb			NMT 5	0.00510	APHA 3125B	NMT 15
13,	Zinc, as Zn	mg/L	0.03	-11	-	APHA 3125 B	No Relaxation
14.	Total Chromium, as Cr	mg/L	0.01	NMT 0,05	0.00510		
	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
Biologica 1.	Escherichia coli	in 100	not detected	Should not be detected	N/M	IS:15185-2016	Should not be detected
2.	. Total Coliform	in 100	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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## CERTIFICATE OF ANALYSIS

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ISSUED Trom:
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Survey No. 9/1, Balaji Tulsiyana Industrial Estate,
Kumedi, Off. M.R. 10 Toll Naka,
Indore - 452010 (M.P.) INDIA

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY,

INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU,

INDORE

, Madhya Pradesh India - 453331

BORE WELL WATER ( Near Staff Flat

Manufacture License No:N/M Manufacturer Name: Manufacturing Date: N/M N/M Reference of Letter: Date of Letter: N/M N/M Date of Receipt: 09-07-2024 Batch Number: N/M

Sample Name:

Batch Size: A.R. Number: N/M Expiry / Retest Date: N/M

CoA ID: Report No.: Issue date: Customer Ref(s): 01700511/24-25 01700511/24-25 (v1) 14-08-2024

11210045 Customer ID:

Sample Quantity: Sealed / Unsealed: 5 Liter+500 ml Unsealed

Packing: PLASTIC CAN+ PLASTIC BOTTLE
Analysis Start Date: 18-07-2024

14-08-2024 N/M Analysis End Date: Sampling Date: N/M Sampled By: Clier Sampling Location: N/M Client Page Number:

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

- 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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**Authorised Signatory** 

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For IIST,

Chief Admi



Principal

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- 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.
- 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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#### 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, Onsite 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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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 Vapi Laboratory**

32, Vibrant Business Park, Opp. UPL, N.H. - 48, Vapl, Gujarat, India 396195 Tel: +91-260-2433488, 2432715, 2432731 E-mall : vapi@choksílab.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 Goa Laboratory

C-18, C-20 Verna industrial Estate, Phase - 1A, Verna - 403722, Goa (India) Tel: +91-838-0033301 / 02 / 03 / 04

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Chief Administrative Officer



Principal Principa

Indore Institute of Scient

and Monday, 23 December 2024



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### **CERTIFICATE OF ANALYSIS**

Issued from:

CHOKSI LABORATORIES

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, OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU,

INDORE

, Madhya Pradesh India - 453331

CoA ID: Report No.: Issue date: 01700512/24-25 01700512/24-25 (v1) 16-08-2024

Customer Ref(s): Customer ID: N/M 11210045

BORE WELL WATER ( Bore at Nallah

Manufacture License No:N/M Manufacturer Name: Manufacturer Name: Manufacturing Date: Reference of Letter: Date of Letter: Date of Recelpt: N/M N/M 09-07-2024

Sample Name:

**Batch Number:** N/M Batch Size: N/M A.R. Number: N/M Expiry / Retest Date:

5 Liter+500 ml Sample Quantity: Sealed / Unsealed: Unsealed
PLASTIC CAN+ PLASTIC BOTTLE Packing:

Analysis Start Date: 18-07-2024 Analysis End Date: 14-08-2024 Sampling Date: Sampled By: N/M Client

Sampling Location: N/M Page Number: 1 of

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	MÐL	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 Applicabl e	Agreeable	Agreeable	N/M	IS 3025 (Part 5)2018	Agreeable
Э.	Taste	Not Applicabl e	Agreeable	Agreeable	N/M	IS3025( Part -8) 2023	Agreeable
4.	Turbidity	NTU	0.6	NMT 1	N/M	(S 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 Applicabl e	7.3	6,5-8.5	N/M	IS 3025 (Part 11) 2022	No Relaxation
7.	Total Hardness (as CaCo3)	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 504)	mg/L	9.1	NMT 200	1.0	IS 3025 (Part 24)1986	NMT 400

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**Authorised Signatory** 

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QA Approver

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Principal Principal

Indore Institute of Science and Menday, 23 December 2024



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### **CERTIFICATE OF ANALYSIS**

Issued from:

CHOKSI LAGODATODIES

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.

, Madhya Pradesh India - 453331

CoA ID: Report No.:

01700512/24-25 01700512/24-25 (v1) 16-08-2024

Customer Ref(s): Customer ID: 11210045

BORE WELL WATER ( Bore at Nallah Sample Name:

Manufacture License No:N/M N/M N/M

Manufacturer License
Manufacturer Name:
Manufacturing Date:
Reference of Letter:
Date of Letter:
Date of Receipt: N/M 09-07-2024 Batch Number: Batch Size: N/M N/M

A.R. Number: Expiry / Retest Date: Description :- Clear colorless liquid without suspended particles

5 Liter+500 ml Sample Quantity:

Sealed / Unsealed: Unsealed
Packing: PLASTIC CAN+ PLASTIC BOTTLE
Analysis Start Date: 18-07-2024

14-08-2024 N/M Cllent

Analysis Start Date: 18-0
Analysis End Date: 14-0
Sampling Date: N/M
Sampled By: Clier
Sampling Location: N/M
Page Number: 2 of 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
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 CI2)	mg/L	Not detected	NMT 4.0	0.05	APHA (4500-CL)F	No relaxation
17,	Sulphide (asH25)	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 Me	tal			- M			
			0.02	NMT 0.05	0.00510	APHA 3125B	NMT 1.5



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Principal

Principal Indore institute of Science



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### CERTIFICATE OF ANALYSIS

CHOKSI LABORATORISS

Sample Name:

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, OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE

, Madhya Pradesh India - 453331

BORE WELL WATER ( Bore at Nallah

Manufacture License No:N/M Manufacturer Name: Manufacturing Date: Reference of Letter: Date of Letter: Date of Receipt: Batch Number: N/M N/M N/M 09-07-2024

N/M Batch Size: N/M A.R. Numbers N/M Expiry / Retest Date: N/M

Description :- Clear colorless liquid without suspended particles

01700512/24-25 CoA ID: Report No.: Issue date: 01700512/24-25 (v1) 16-08-2024

Customer Ref(s): Customer ID: 11210045

Sample Quantity: Sealed / Unsealed: 5 Liter+500 ml

Unsealed PLASTIC CAN+ PLASTIC BOTTLE Packing: Analysis Start Date: 18-07-2024 Analysis End Date: 14-08-2024

Sampling Date: Sampled By: N/M Client Sampling Location: N/M Page Number: 3 of

### 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.	Cadmlum, 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 31258	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 31258	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
Biologica	i						
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	15:15185:2016	Should not be detected

[ End of Report ]



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### **CERTIFICATE OF ANALYSIS**

CHOKSI

LABORATORIES

Sample Name:

Batch Size: A.R. Number:

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,

OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU,

INDORE , Madhya Pradesh India - 453331

Report No.: Issue date: Customer Ref(s):

CoA ID:

01700512/24-25 01700512/24-25 (v1)

16-08-2024 N/M IIZ10045

Customer ID:

5 Liter+500 ml Sample Quantity: Sealed / Unsealed: Packing: BORE WELL WATER ( Bore at Nallah Unsealed
PLASTIC CAN+ PLASTIC BOTTLE

Analysis Start Date: 18-07-2024
Analysis End Date: 14-08-2024
Sampling Date: N/M Manufacturer Name: Manufacturing Date: Manufacturing Date: Reference of Letter: Date of Letter: Date of Recelpt: Batch Number: N/M N/M N/M Cllent

Sampling Date: Sampled By: Sampling Location: Page Number: 4 of 4

N/M Expiry / Retest Date: Description :- Clear colorless liquid without suspended particles

N/M N/M

09-07-2024 N/M

### 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.
- 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.
- 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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**Authorised Signatory** 

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For IIST/ IID

Officer



Principal Principal

Indore Institute of Science

Monday, 23 December 2024



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

- Sample(s) / Instruments are drawn and submitted by the client unless otherwise stated.
- This certificate refers only the particular item and reported parameters submitted for calibration / analysis.
- 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,
- 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.
- 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, Onsite 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.

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, 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 Vapl Laboratory**

32, Vibrant Business Park, Opp. UPL. N.H. - 48, Vapl, Gujarat, India 396195 Tel: +91-260-2433488, 2432715, 2432731 E-mail : vapi@choksllab.com

### CLL Panchkula Laboratory

Plot No. 362, Industrial Area, Phase -ll, Panchkula - 734 112 (Haryana) Tel: +91-172-5048600 / 01 / 02 E-mail : panchkula@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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Drinking Water Boys Hostel Report Dated- 15 Octo 2024

### CERTIFICATE OF ANALYSIS

CHOKSI

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

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY,

INDORE
OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE

, Madhya Pradesh India - 453331

DRINKING WATER ( Boys Hostel ) Sample Name:

Sample Name: DRI/
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: 26-0
Batch Number: N/M
A.R. Number: N/M
A.R. Number: N/M

Explry / Retest Date:

26-09-2024 N/M N/M N/M N/M

Description :- Clear colorless liquid without suspended particles

CoA ID: Report No.: ULR No.: Issue date: Customer Ref(s): Customer ID:

01700891/24-25 01700891/24-25 (v1) TC638424000002361F 15-10-2024

11210045 10 Liter+500ml

Sample Quantity: Sealed / Unsealed: Unsealed PLASTIC CAN+ PLASTIC BOTTLE

Sealed / Unsealed: Unsealed Packing: PLASTIC CAR Analysis Start Date: 30-09-2024 Analysis End Date: 15-10-2024 Sampling Date: N/M Client Sampled By: Client Sampled By: 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
Group: Wa Subgroup:	Chemical ater Drinking Water Parameters						
1.	Colour	Hazen unit	Less than 1	NMT 5	N/M	IS: 3025(Part 4)-2021	NMT 15
2.	Odour	Not Applicabl e	Agreeable	Agreeable	N/M	IS : 3025(Part 5)-2018	Agreeable
3,	Taste	Not Applicabl e	Agreeable	Agreeable	N/M	IS : 3025(Part 8)-2023	Agreeable
4.	Turbidity	NTU	0.2	NMT1	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 Applicabl	7.1	6.5-8,5	N/M	IS: 3025(Part 11)-2022	No relaxation
7.	Total Hardness, as CaCO3	mg/L	246.2	NMT 200	N/M	IS : 3025(Part 21)-2009	NMT 600
8,	Calclum, 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



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**Authorised Signatory** 

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For IIST/

Principal Principal Indore Institute of Science an Monday, 23 December 2024



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### **CERTIFICATE OF ANALYSIS**

CHOKSI

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

DRINKING WATER ( Boys Hostel )

Manufacture License No:N/M Manufacturer Name: N/M

Manufacturing Date: N/M N/M Reference of Letter:

Sample Name:

Date of Letter: Date of Receipt: N/M 26-09-2024 Batch Number: N/M Batch Size:

A.R. Number: Explry / Retest Date: N/M CoA ID: Report No.: ULR No.:

01700891/24-25 01700891/24-25 (v1) TC638424000002361F 15-10-2024

Issue date: Customer Ref(s): Customer ID: 11210045

Sample Quantity: 10 Liter+500ml

Sealed / Unsealed: Packing: Unsealed PLASTIC CAN+ PLASTIC BOTTLE

Analysis Start Date: 30-09-2024 Analysis End Date: 15-10-2024

Sampling Date: N/M Sampled By: Client N/M 2 of 4 Sampling Location: Page Number:

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	1S : 3025(Part 60)-2008	NM⊤ 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 CI2)	mg/L	Not Detected	NMT 4.0	0.05	APHA 4500 CI 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	8000.0	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 CI 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	0E TMN	N/M	IS: 3025(Part 46)- 2023	NMT 100



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15-10-2024 15:24:20 **Authorised Signatory** 

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For IIST/ IIP/ IIMR Officer

Principal

Principal Indore Institute of Science

and Monday, 23 December 2024



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

### **CERTIFICATE OF ANALYSIS**



Expiry / Retest Date:

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, 01700891/24-25 CoA ID: Report No.: ULR No.: 01700891/24-25 (v1) OPP\_IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE TC638424000002361F 15-10-2024 Issue date: Customer Ref(s): Customer ID: , Madhya Pradesh India - 453331 11210045 DRINKING WATER ( Boys Hostel ) Sample Quantity: 10 Liter+500ml Sample Name: Sealed / Unsealed: Unsealed Packing: PLASTIC CAI Analysis Start Date: 30-09-2024 Analysis End Date: 15-10-2024 Manufacture License N o:N/M Unsealed
PLASTIC CAN+ PLASTIC BOTTLE N/M Manufacturer Name: Manufacturing Date: N/M Reference of Letter: Date of Letter: N/M N/M Sampling Date: N/M Sampled By: Clier Sampling Location: N/M Date of Receipt: 26-09-2024 Client Batch Number: N/M 3 of 4 Batch Size: N/M Page Number: N/M A.R. Number:

Description :- Clear colorless liquid without suspended particles

N/M

### 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: Group: Wa Subgroup: Heavy Me	ter Drinking Water						
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	rng/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.	Barlum, 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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**Authorised Signatory** 

**QA Approver** 

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### CERTIFICATE OF ANALYSIS



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



INDORE		CoA ID: Report No.: ULR No.: Issue date: Customer Ref(s): Customer ID:	01700891/24-25 01700891/24-25 (v1) TC638424000002361F 15-10-2024 N/M II210045		
Sample Name: Manufacture License N Manufacturer Name: Manufacturing Date: Reference of Letter: Date of Letter: Date of Receipt: Batch Number: Batch Size: A.R. Number: Expiry / Retest Date:	DRINKING WATER ( Boys Hostel )  IO:N/M N/M N/M N/M N/M N/M N/M N/M N/M N/M	Sample Quantity: Sealed / Unsealed: Packing: Analysis Start Date Analysis End Date: Sampling Date: Sampled By: Sampling Location: Page Number:	PLASTIC CAN+ PLASTIC BOTTLE :30-09-2024 15-10-2024 N/M Client		

### 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
Group: Wa	: Drinking Water						
MICLODIO							
	Total Coliform Bacteria	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185:2016	Should not be detected

- 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.
- Subject to terms and conditions mentioned at the end of the CoA.
- 8. This certificate refers only the particular item tested and reported parameters submitted for analysis
  9. 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.
- 10. Endorsement of products is neither inferred nor implied.

Description :- Clear colorless liquid without suspended particles

- 11. In case of any dispute, Indore jurisdiction is applicable.
- 12. Total Liability of CLL is limited to the invoiced amount.



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



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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.
- This certificate refers only the particular item and reported parameters submitted for calibration / analysis.
- 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.
- 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, Onsite 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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Chief Admistra (v) Officer

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Indore Institute of Science Monday, 23 December 2024578



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

### CERTIFICATE OF ANALYSIS

CHOKSI

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



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE Issued to:

OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331

DRINKING WATER ( Girls Hostel )

Sample Name: DRIF
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-C
Batch Number: N/M
Batch Size: N/M
A.R. Number: N/M

Sample Name:

N/M 26-09-2024 N/M N/M Expiry / Retest Date: Description :- Clear colorless liquid without suspended particles CoA ID: Report No.: ULR No.: Issue date: Customer Ref(s): Customer ID:

01700692/24-25 01700892/24-25 (v1) TC638424000002363F 15-10-2024 N/M II210045

Sample Quantity:
Sealed / Unsealed:
Packing:
Analysis Start Date: 30-09-2024
Analysis End Date: 14-10-2024
Sampling Date:
Sampled By:
Client
Sampling Location:
N/M
Page Number:
10 10 Llter+500ml
PLASTIC CAN+ PLASTIC BOTTLE
Analysis End Date: 14-10-2024
Client
Sampling Date:
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
Group: Wa Subgroup:	Chemical ster Drinking Water Parameters						
1.	Colour	Hazen unit	Less than 1	NMT 5	N/M	I5 : 3025(Part 4)-2021	NMT 15
2,	Odour	Not Applicabl e	Agreeable	Agreeable	N/M	I5 : 3025(Part 5)-2018	Agreeable
3.	Taste	Not Applicabl e	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 Applicabl e	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



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For IIST Chief Adn

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### CERTIFICATE OF ANALYSIS

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Indore - 452010 (M.P.) INDIA



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE

N/M

N/M 26-09-2024 N/M

N/M

N/M

INDORE

Manufacture License No:N/M Manufacturer Name: N/M

Manufacturing Date: Reference of Letter:

Sample Name:

Date of Letter: Date of Receipt:

Batch Number: Batch Size:

A.R. Number: Expiry / Retest Date:

OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU,

DRINKING WATER ( Girls Hostel )

, Madhya Pradesh India - 453331

ULR No.: Issue date: Customer Ref(s):

CoA ID:

Report No.:

01700892/24-25 01700892/24-25 (v1) TC638424000002363F

15-10-2024 N/M 11210045

Customer ID:

Sample Quantity: Sealed / Unsealed: 10 Liter+500ml Unsealed

PLASTIC CAN+ PLASTIC BOTTLE

Packing: PLASTIC CA Analysis Start Date: 30-09-2024

Analysis End Date: Sampling Date: 14-10-2024 N/M Sampled By: Client Sampling Location: N/M

Page Number:

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	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	I5 : 3025(Part 34)-1988	No relaxation
16.	Chloramines (as CI2)	mg/L	Not Detected	NMT 4.0	0.05	APHA 4500 CI 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	I5 : 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 CI 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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Monday, 23 December 2024





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### CERTIFICATE OF ANALYSIS

CoA ID:

Issue date:

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Issued from:

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Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY,

OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU,

, Madhya Pradesh India - 453331

DRINKING WATER ( Girls Hostel )

Sample Name: DRIN Manufacture License No:N/M Manufacturing Date: N/M Reference of Letter: Date of Letter: N/M

26-09-2024 Date of Receipt: Batch Number: Batch Size: A.R. Number: Expiry / Retest Date: N/M

N/M N/M

Description :- Clear colorless liquid without suspended particles

01700892/24-25 Report No.:

01700892/24-25 (v1) TC638424000002363F

15-10-2024 N/M Customer Ref(s): 11210045 Customer ID:

Sample Quantity: Sealed / Unsealed: 10 Liter+500ml

Unscaled
PLASTIC CAN+ PLASTIC BOTTLE

Packing: PLASTIC CAI Analysis Start Date: 30-09-2024 Analysis End Date: 14-10-2024 Sampling Date: Sampled By: N/M Sampling Location: N/M
Page Number: 3 of

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: Group: Wal Subgroup: Heavy Me	ter Drinking Water			-			T
1.	Copper, as Cu	mg/L	0.01	NMT 0.05	0.00510	APHA (3125 B)	NMT 1,5
2.		mg/L	Not Detected	NMT 1,0	0.00510	APHA (3125 B)	No relaxation
3.		mg/L	Below Detection Limit	NMT 0.1	0.00510	APHA (3125 B)	E.0 TMN
4.		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.		mg/L	Below Detection Limit	NMT 0.1	0.00105	APHA (3125 B)	No relaxation
11.		mg/L	Not Detected	NMT 0.01	0.00510	APHA (3125 B)	No relaxation
		mg/L	0.09	NMT 5	0.00510	APHA (3125 B)	NMT 15
12,		mg/L	Below Detection Limit	NMT 0.05	0.00510	APHA (3125 B)	No relaxation
13.		mg/L	0.01	NMT 0.03	0.00510	APHA (3125 B)	NMT 0.2
	Aluminium, as Al	mg/L	Below Detection Limit		0.00255	APHA (3125 B)	No relaxation



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### CERTIFICATE OF ANALYSIS

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Indore - 452010 (M.P.) INDIA



Sealed / Unsealed: Packing: Analysis Start Date Analysis End Date: Sampling Date: Sampled By:	Unsealed PLASTIC CAN+ PLASTIC BOTTLE :30-09-2024 14-10-2024 N/M Client	
20 1 1 1 1 1 1 1	Sealed / Unsealed: Packing: Analysis Start Date Analysis End Date: Sampling Date: Sampled By: Sampling Location:	seaied / 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

### 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
Group: Wa	: Drinking Water		.5				
1,	Total Coliform Bacterla	in 100 mL	Not Detected	Should not be detected	N/M	IS:15185:2016	Should not be detected

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- 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.
- 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 in 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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Monday, 23 December 2024



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- 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.
- 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.
- 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, Onsite 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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Indore Institute of Science Monday, 23 December 2024 and



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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-mall : bd@choksilab.com

### CLL Baroda Laboratory

829 GIDC, Makarpura Baroda - 390010

Tel: +91-265-2978001

E-mail: baroda@choksilab.com

### CLL Vapi Laboratory

32, Vibrant Business Park, Opp. UPL, N.H. - 48, Vapi, Gujarat, India 3961.95 Tel: +91-260-2433488, 2432715, 2432731 E-mail : vapi@choksilab.com

### CLL Panchkula Laboratory

Plot No. 362, Industrial Area, Phase -il, Panchkula - 734 112 (Haryana) Tel: +91-172-5048600 / 01 / 02 E-mail : panchkula@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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Drinking Water Staff Quarter Report Dated- 15 Octo 2024

### **CERTIFICATE OF ANALYSIS**

CHOK51

Issued from: Choksi Laboratories Limited (**Bullding - 2 "Pasteur"**) Survey No. 9/1, Balaji Tuisyana Industrial Estate, Kumedi, Off, MR, 10 Tolli Naka, Indore - 452010 (M.P.) INDIA

01700893/24-25 01700893/24-25 (v1) TC638424000002364F 15-10-2024 Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.IIM (INDORE) RAU-PITHAMPUR ROAD, RAU, INDORE , Madhya Pradesh India - 453331 CoA ID: Report No.: ULR No.: Issue date: Customer Ref(s): Customer ID: N/M II210045

Sample Name: DRII Manufacture License No:N/M DRINKING WATER ( Staff Quarter ) Manufacture License
Manufacturer Name:
Manufacturing Dates:
Reference of Letter:
Date of Letter:
Date of Receipt:
Batch Number:
Batch Size:
A.R. Number:
Expiry / Retest Date:

Description :- Clear colorless liquid without suspended particles

N/M 26-09-2024 N/M N/M N/M N/M

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
		- M					
1.	Colaur	Hazen unit	Less than 1	NMT 5	N/M	IS   3025(Part 4)-2021	NMT 15
2,	Odour	Not Applicabl e	Agreeable	Agreeable	N/M	IS ; 3025(Part 5)-2018	Agreeable
3,	Taste	Not Applicabl e	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 Applicabl e	7.2	6,5-8,5	N/M	IS: 3025(Part 11)-2022	No relaxation
7.	Total Hardness, as CaCO3	mg/L	285.6	NMI ZUU	IA/M	15 : 3025(Part 21)-2009	NWIT JUJ
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

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Principal Principal Indore Institute of Science Monday, 23 December 2024-



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### CERTIFICATE OF ANALYSIS

CoA ID:

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

Sample Name: DRINKING WATER ( Staff Quarter )
Manufacture License No:N/M
Manufacturer Name: N/M

Manufacture License
Manufacturing Date:
Reference of Letter:
Date of Receipt:
Batch Number:
Batch Size: N/M N/M N/M

26-09-2024 N/M N/M A.R. Number: Expiry / Retest Date: N/M N/M Description :- Clear colorless liquid without suspended particles

01700893/24-25 01700893/24-25 (v1) TC638424000002364F 15-10-2024 Report No.: ULR No.: Issue date: Customer Ref(s): Customer ID: N/M 11210045

10 Liter+500ml Sample Quantity:

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: 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
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	I5 : 3025(Part 34)-1988	No relaxation
16.	Chloramines (as CI2)	mg/L	Not Detected	NMT 4.0	0,05	APHA 4500 CI 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 I5 : 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 Ci2	mg/L	Not Detected	NLT 0,2	0,05	APHA 4500 CI 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	0E TMN	N/M	IS: 3025(Part 46)- 2023	NMT 100



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Monday, 23 December 20243



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### **CERTIFICATE OF ANALYSIS**

CHOKS L

Sample Name:

Batch Number: Batch Size:

A.R. Number:

Manufacturing Date:

Reference of Letter: Date of Letter: Date of Receipt: Issued from:

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



Issued to: INDORE INSTITUTE OF SCIENCE & TECHNOLOGY,

N/M

N/M 26-09-2024

N/M

N/M

N/M

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE OPP.HM (INDORE) RAU-PITHAMPUR ROAD, RAU,

DRINKING WATER ( Staff Quarter )

INDORE , Madhya Pradesh India - 453331

Manufacture License No:N/M Manufacturer Name: N/M Report No.:
ULR No.:
Issue date:
Customer Ref(s):
Customer ID:

CoA ID:

01700893/24-25 01700893/24-25 (v1) TC638424000002364F 15-10-2024

er Ref(s): N/M er ID: II210045

: 10 Liter+500ml

Sample Quantity: 10 Sealed / Unsealed: Un

paled: Unsealed
PLASTIC CAN+ PLASTIC BOTTLE

Packing: PLASTIC CA
Analysis Start Date: 30-09-2024
Analysis End Date: 14-10-2024
Sampling Date: N/M

Sampling Date: N/M
Sampled By: Client
Sampling Location: N/M
Page Number: 3 of 4

Explry / Retest Date: N/M

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: Group: Wa Subgroup: <b>Heavy Me</b>	ter Drinking Water	- W	1				
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 8)	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	E00.0 TMN	0.00255	APHA (3125 B)	No relaxation

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### CERTIFICATE OF ANALYSIS



ISSUED TROM: 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



INDORE		CoA ID: Report No.: ULR No.: Issue date: Customer Ref(s): Customer ID:	01700893/24-25 01700893/24-25 (v1) TC638424000002364F 15-10-2024 N/M II210045
Sample Name: Manufacture License N Manufacturer Name: Manufacturing Date: Reference of Letter: Date of Letter: Date of Receipt: Batch Number: Batch Size: A.R. Number:	DRINKING WATER ( Staff Quarter ) o:N/M N/M N/M N/M N/M N/M N/M N/M N/M N/M	Sample Quantity: Sealed / Unsealed: Packing: Analysis Start Date Analysis End Date: Sampling Date: Sampled By: Sampling Location: Page Number:	Unsealed PLASTIC CAN+ PLASTIC BOTTLE :30-09-2024 14-10-2024 N/M Client

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
Group: Wa	: Drinking Water logical			4			Ta
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 ]

- 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 ര 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.
- 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,
- 10. Endorsement of products is neither inferred nor implied.
- In case of any dispute, Indore jurisdiction is applicable.
- 12. 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.
- 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.
- Endorsement of products is neither inferred nor implied.
- 6. In case of any dispute, Indore jurisdiction is applicable.
- 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, Onsite 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, Kumedi, Off MR10 Toll Plaza, Indore (M.P.) - 452010 Tel: +91-731-3501112 (60 lines) E-mail : bd@choksilab.com

#### **CLL Baroda Laboratory**

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Tel: +91-265-2978001

E-mail : baroda@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 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 Goa Laboratory**

C-18, C-20 Verna Industrial Estate, Phase - 1A, Verna - 403722, Goa (India) Tel: +91-838-0033301 / 02 / 03 / 04

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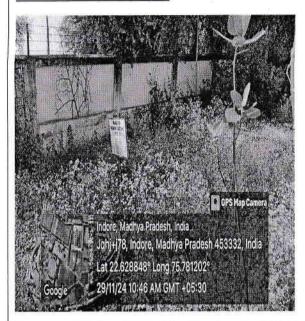
Chief Administrative Vilicer



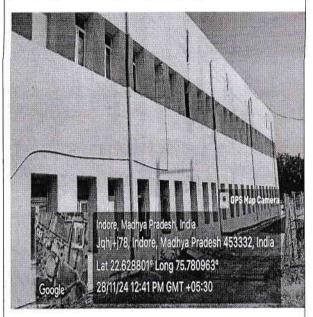
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6. Geotagged Photo for Rain water harvesting

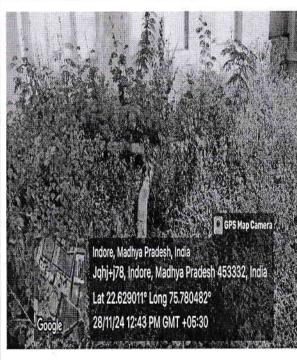
### Pit at Back side of A-Block



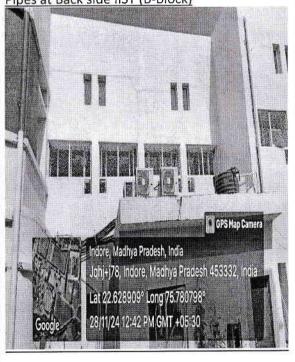
Pipes at Back side IIST (A-Block)



Pit at Back side of IIST (B-Block)



Pipes at Back side IIST (B-Block)



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For IIST/ IIP/UMR



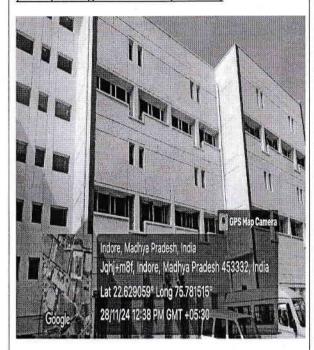
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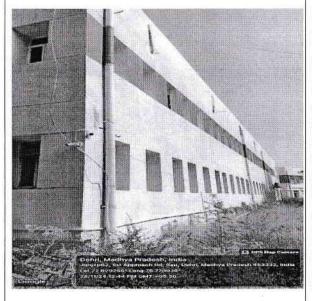
pit at parking side of IIST (A-Block)



Full view of Pipe line A-C block

Indore, Madhya Pradesh, India
Johi+j78, Indore, Madhya Pradesh 453332, India
Lat 22.629035\* Long 75.780448\*
28/11/24 12:43 PM GMT +05:30

Back side IIST (C-Block)



Pit at Back side IIST (C-Block)



Pit at Back side of IIST (B-Block)

Admin



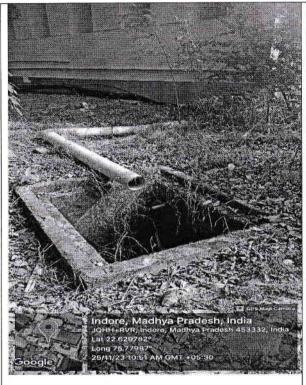
IQAC Page 99 of 109

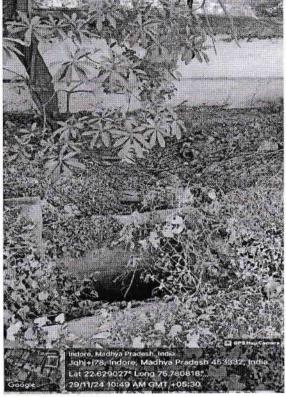
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arMonday, 23 December 2024



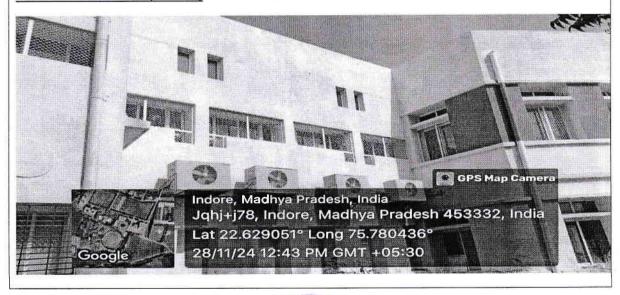
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Pit at Back side IIST (C-Block)

Pit at Back side of IIST (B-Block)



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and Monday 23 December 2024



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7. Geotagged Photo for Borewell /Open well recharge

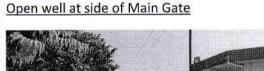
An open well located in the college campus is recharged by the rainwater. The artificial recharge to ground water aims at augmentation of ground water reservoir by modifying the natural movement of surface water utilizing suitable civil construction techniques. Artificial recharge techniques normally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

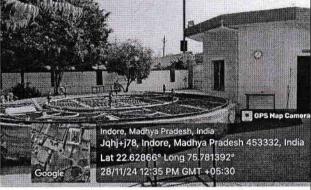
To enhance the sustainable yield in areas where over-development has depleted the aquifer.

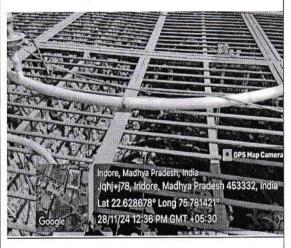
Conservation and storage of excess surface water for future requirements since these requirements often change within a season or a period.

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.







Top view of open well

Admin



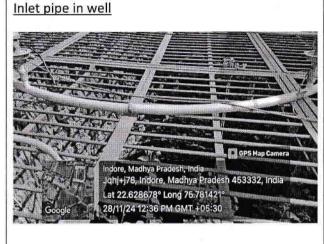


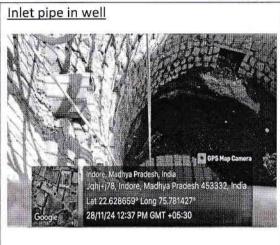
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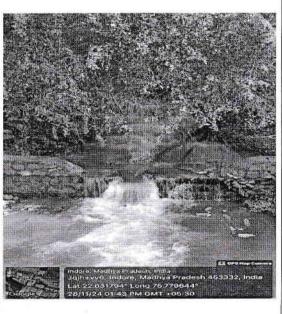




8. Geotagged Photo for Construction of tanks and bunds

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.



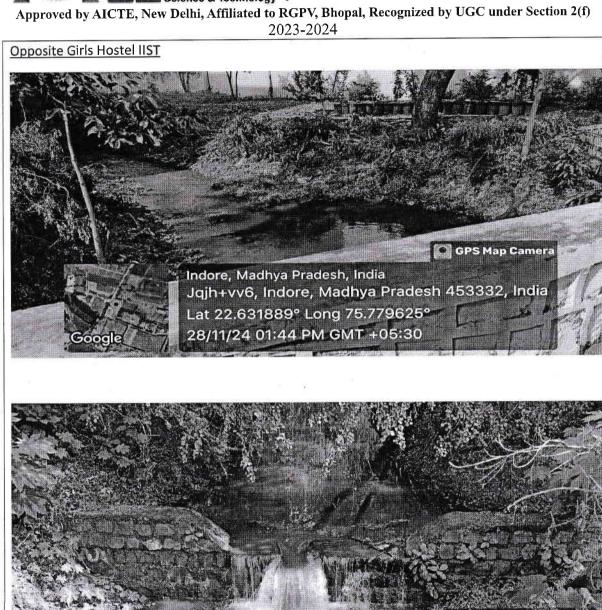


Admin

For IIST/ IIP/ IIMR
Chief Aministrative Officer

7/NDO Page 102 of 109 Principal
Principal
Indore Institute of Science
and Menday 23 December 2024





Indore, Madhya Pradesh, India
Jqjh+vv6, Indore, Madhya Pradesh 453332, India
Lat 22.631884° Long 75.77968°
28/11/24 01:43 PM GMT +05:30

Admin







Indore Institute of Science Monday, 23, December 2024



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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

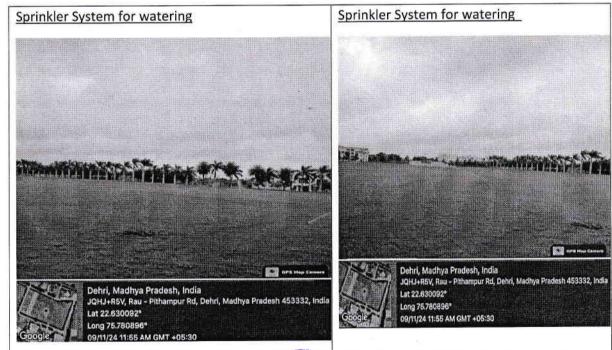
One Bore Well situated at Laundry (Back to Boys Hostel)

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



Admin

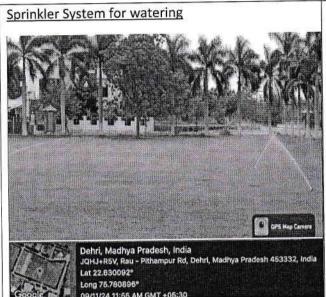


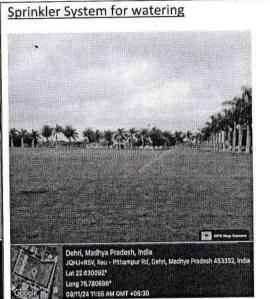
IQAC Page 104 of 109

Principal
Principal
Indore Institute of Science
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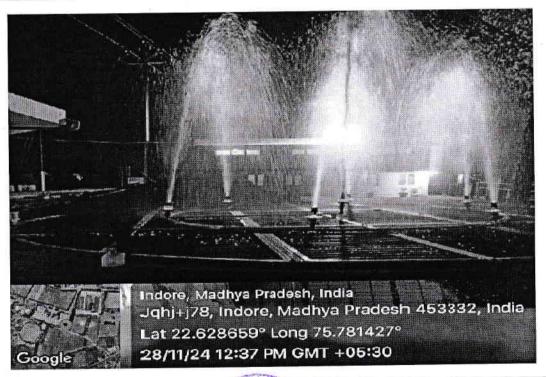


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### Fountain at Well



Admin

FOR HIST/ HP/ HMR



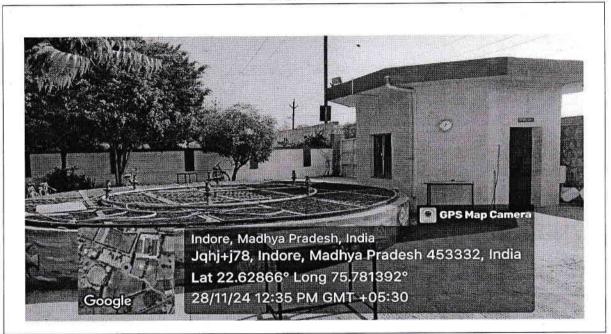
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Principal Principal Indore Institute of Science

Monday, 23 December 2024

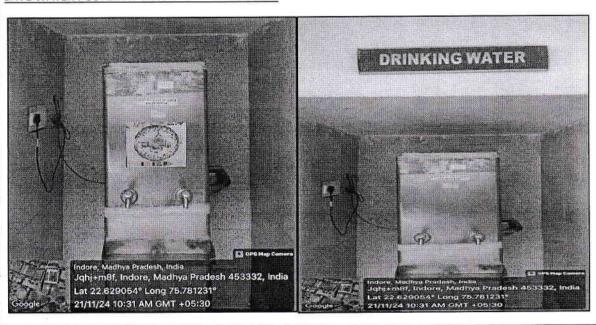


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Saving Water

### SAVE WATER POSTER AT WATER COOLER A-BLOCK



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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 NEC SEWS/WO/2021-22/282 PRJ CIVIL P/83

Date: - 17.01.2022

M/S ENVIROESSENTIALS

Mr. Ajit kumar bhaskar gaikend 41, Naskunagar, Wadarwadi, Ahmedrogur.

Makarashtra (414001)

Local Add. Example Office 19, Mangai NX Besides petral pump.

Schniya, indicre (M.P.-452010) Mob.5039433493, 9503221150, 7709386770

Subject : Work order for Sawage treatment Plant Installation.

(

With reference to your contation, we are pleased to oward you work order for the same

Basics of Designs-Sewage Trentment Plants-

a) Plant Capacity

b) Operation Time e) Hourly Flow (Fred to STP)

d) Mode of Operation

e) Process

1005CLE) (ess\*/day)

20 ters. See the

MERRICA Technology

### 1. Characteristics of Raw & Treated Sewage

The characteristics of now arways assume dare given below:

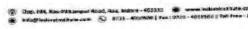
Se.	Parameters	Unit	Raw Sewage	Treated Sewage
	pHg	- m - m - m - m	5.5 -8	6.5 - 7.2
2	Biochemical Oxygen Demand(BOD)	mg/l	300	510
3	Chemical Oxygen Demand(COD)	Trigotti	400	±30
4	Teste: Semperated Solids(TSS)	rigan.	290	≤30
5	Oil & Grease	58/8/7	15	<b>53</b>

Amalung.









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12. Water Conservation Policy at IIST





Indore Institute of Science & Technology

### 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:

- Emphasize water conservation practices across the campus to reduce overall water consumption.
- Promote the reuse of treated wastewater for non-potable purposes like irrigation, flushing toilets, or cleaning.
- 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
- Cleanliness drive to prevent water runoffs and clogging of waste material into nearby water

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Principal Indore Institute of Science and Technology, Indore 20 Oprofiles

Green Wines Class

Opp. IlM(Indore), Rau-Pithampur Road, Rau, Indore (MP) - 453331 © 822 407 1000 / 2000 / 2000 / 4000 / 5000 | fak (9731) 4016520 | fax (9731) 4016522 | Toli Free: 1800 103 3063

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Monday, 23 December 2024 and 160,000