



9001, 14001, 45001

**CUBE ENVIRONMENT LABORATORY**

A Division of Centre for Urbanization, Buildings &amp; Environment



TC-9323

**Test Report**

Issued to (Customer Name & Address):	Report Details
The Commissioner, Trichy City Corporation, Tiruchy-620001	Report No : CEL/2022/037
	Report Date : 09.09.2022
	Sample Code No. : 202209NW037
Sample Type: Water-Zone 1 Patter Thoppu Srirangam	Sample Received On : 01.09.2022
Sample Drawn /Quantity : Customer -/2L	Test Commenced On : 01.09.2022
Invoice No : CEL/EXT-INV/ 22-23-027	Test Completed On : 09.09.2022

S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
1.	Colour	Hazen	IS 3025 part 4-1983 RA : 2017	<1	5	15
2.	Odour	Agreeable/ Disagreeable	IS 3025 : Part 5 : 2018	Agreeable	Agreeable	Agreeable
3.	Turbidity	NTU	IS 3025 part 10-1984 RA: 2017	BLQ(LOQ:0.1)	1	5
4.	pH @ 25° C	-	IS 3025 Part 11-1983 RA : 2017	8.02	6.5-8.5	No relaxation
5.	Electrical Conductivity	us/cm	IS 3025 Part 14-1984 RA : 2019	528	Not specified	Not specified
6.	Total Dissolved Solids	mg/L	IS 3025 part 16-1984 RA : 2017	294	500	2000
7.	Total Hardness as CaCO <sub>3</sub>	mg/L	IS 3025 part 21-2009 RA : 2019	174	200	600
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/L	IS 3025 part 23-1986 RA: 2019	79	200	600
9.	Calcium as Ca	mg/L	IS 3025 part 40-1991 RA : 2019	38	75	200
10.	Magnesium as Mg	mg/L	IS 3025 part 46-1994 RA: 2019	19	30	100
11.	Sodium as Na	mg/L	IS 3025 part 45-1993 RA: 2019	11	Not specified	Not specified





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S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
12	Iron as Fe	mg/L	IS 3025 part 53-2003 RA: 2019	BLQ(LOQ:0.1)	0.3	No relaxation
13.	Free Ammonia as NH <sub>3</sub>	mg/L	IS 3025 part 34-1988 RA: 2019	0.24	0.5	No relaxation
14.	Nitrite as NO <sub>2</sub>	mg/L	IS 3025 part 34-1988 RA : 2019	BLQ(LOQ:0.01)	Not specified	Not specified
15.	Nitrate as NO <sub>3</sub>	mg/L	APHA 23rd Edition - 4500-NO3- B: 2017:: 2017	2.3	45	No relaxation
16.	Chloride as Cl	mg/L	IS 3025 part 32-1988 RA: 2019	63	250	1000
17.	Fluoride as F	mg/L	APHA 23rd Edn :sec4500F-D	0.4	1.0	1.5
18.	Phosphate as PO <sub>4</sub>	mg/L	IS 3025 part 31-1988 RA: 2019	0.1	Not specified	Not specified
19.	Sulphate as SO <sub>4</sub>	mg/L	APHA 23rd Edition :So4 :4500 E :Turbidimetric method: 2017	44	200	400

BLQ –Below limit of quantification.

LOQ- Limit of quantification

*Chandrika*  
9/9/2022

**Verified & Authorized Signatory****Name** : Dr. D. Chandrika**Designation:** Technical Manager

\*\*\*End of Report\*\*\*

The tests have been performed on the submitted sample. The sample has been tested on the date mentioned in the report. The Laboratory has followed due procedures for storage of samples as per required methodology. Any feedback on the test report must be communicated to the laboratory within seven (7) days of the date of the report. Laboratory will not retain the Sample for more than 15 days from the date of issue of test report except in cases where applicable regulations prescribe otherwise.

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CUBE Environment Laboratory  
Module 6 C, 6<sup>th</sup> Floor, Block C, IIT Madras Research Park, Kanagam Road, Taramani,  
Chennai – 600 113  
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**CUBE ENVIRONMENT LABORATORY**

A Division of Centre for Urbanization, Buildings &amp; Environment

**Test Report**

Issued to (Customer Name & Address):	Report Details
The Commissioner, Trichy City Corporation, Tiruchy-620001	Report No : CEL/2022/037-037
	Report Date : 09.09.2022
	Sample Code No. : 202209NW037
Sample Type: Water-Zone 1 Patter Thoppu Srirangam	Sample Received On : 01.09.2022
Sample Drawn /Quantity : Customer -/2L	Test Commenced On : 01.09.2022
Invoice No : CEL/EXT-INV/ 22-23-027	Test Completed On : 09.09.2022

S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
1.	Potassium as K	mg/L	IS 3025 part 45-1993 RA : 2019	5.2	Not specified	Not specified

BLQ –Below limit of quantification.

LOQ- Limit of quantification

*Chandrika*  
9/9/2022

**Verified & Authorized Signatory**  
Name : Dr. D. Chandrika  
Designation: Technical Manager



\*\*\*End of Report\*\*\*

The tests have been performed on the submitted sample. The sample has been tested on the date mentioned in the report. The Laboratory has followed due procedures for storage of samples as per required methodology. Any feedback on the test report must be communicated to the laboratory within seven (7) days of the date of the report. Laboratory will not retain the Sample for more than 15 days from the date of issue of test report except in cases where applicable regulations prescribe otherwise.



CUBE Environment Laboratory  
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## CUBE ENVIRONMENT LABORATORY

A Division of Centre for Urbanization, Buildings & Environment



TC-9323

### Test Report

Issued to (Customer Name & Address):	Report Details
The Commissioner, Trichy City Corporation, Tiruchy-620001	Report No : CEL/2022/038
	Report Date : 09.09.2022
	Sample Code No. : 202209NW038
Sample Type: Water-Zone 1 Kizha Adaiyavalasaan Srirangam	Sample Received On : 01.09.2022
Sample Drawn /Quantity : Customer -/2L	Test Commenced On : 01.09.2022
Invoice No : CEL/EXT-INV/ 22-23-027	Test Completed On : 09.09.2022

S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
1.	Colour	Hazen	IS 3025 part 4-1983 RA : 2017	<1	5	15
2.	Odour	Agreeable/ Disagreeable	IS 3025 : Part 5 : 2018	Agreeable	Agreeable	Agreeable
3.	Turbidity	NTU	IS 3025 part 10-1984 RA: 2017	BLQ(LOQ:0.1)	1	5
4.	pH @ 25° C	-	IS 3025 Part 11-1983 RA : 2017	8.06	6.5-8.5	No relaxation
5.	Electrical Conductivity	us/cm	IS 3025 Part 14-1984 RA : 2019	536	Not specified	Not specified
6.	Total Dissolved Solids	mg/L	IS 3025 part 16-1984 RA : 2017	298	500	2000
7.	Total Hardness as CaCO <sub>3</sub>	mg/L	IS 3025 part 21-2009 RA : 2019	190	200	600
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/L	IS 3025 part 23-1986 RA: 2019	79	200	600
9.	Calcium as Ca	mg/L	IS 3025 part 40-1991 RA : 2019	43	75	200
10.	Magnesium as Mg	mg/L	IS 3025 part 46-1994 RA: 2019	20	30	100
11.	Sodium as Na	mg/L	IS 3025 part 45-1993 RA: 2019	10	Not specified	Not specified

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S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
12.	Iron as Fe	mg/L	IS 3025 part 53-2003 RA: 2019	BLQ(LOQ:0.1)	0.3	No relaxation
13.	Free Ammonia as NH <sub>3</sub>	mg/L	IS 3025 part 34-1988 RA: 2019	0.22	0.5	No relaxation
14.	Nitrite as NO <sub>2</sub>	mg/L	IS 3025 part 34-1988 RA : 2019	BLQ(LOQ:0.01)	Not specified	Not specified
15.	Nitrate as NO <sub>3</sub>	mg/L	APHA 23rd Edition - 4500-NO <sub>3</sub> - B: 2017:: 2017	2.3	45	No relaxation
16.	Chloride as Cl	mg/L	IS 3025 part 32-1988 RA: 2019	63	250	1000
17.	Fluoride as F	mg/L	APHA 23rd Edn :sec4500F-D	0.4	1.0	1.5
18.	Phosphate as PO <sub>4</sub>	mg/L	IS 3025 part 31-1988 RA: 2019	0.1	Not specified	Not specified
19.	Sulphate as SO <sub>4</sub>	mg/L	APHA 23rd Edition :So <sub>4</sub> :4500 E :Turbidimetric method: 2017	43	200	400

BLQ –Below limit of quantification.

LOQ- Limit of quantification

*Dr. D. Chandrika*  
9/9/2022

**Verified & Authorized Signatory****Name** : Dr. D. Chandrika**Designation:** Technical Manager

\*\*\*End of Report\*\*\*

The tests have been performed on the submitted sample. The sample has been tested on the date mentioned in the report. The Laboratory has followed due procedures for storage of samples as per required methodology. Any feedback on the test report must be communicated to the laboratory within seven (7) days of the date of the report. Laboratory will not retain the Sample for more than 15 days from the date of issue of test report except in cases where applicable regulations prescribe otherwise.



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## CUBE ENVIRONMENT LABORATORY

A Division of Centre for Urbanization, Buildings & Environment

### Test Report

Issued to (Customer Name & Address):	Report Details
The Commissioner, Trichy City Corporation, Tiruchy-620001	Report No : CEL/2022/038-038
	Report Date : 09.09.2022
	Sample Code No. : 202209NW038
Sample Type: Water-Zone 1 Kizha Adaiyavalasaan Srirangam	Sample Received On : 01.09.2022
Sample Drawn /Quantity : Customer -/2L	Test Commenced On : 01.09.2022
Invoice No : CEL/EXT-INV/ 22-23-027	Test Completed On : 09.09.2022

S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
1.	Potassium as K	mg/L	IS 3025 part 45-1993 RA : 2019	5.0	Not specified	Not specified

BLQ –Below limit of quantification.  
LOQ- Limit of quantification

*Chandrika*

**Verified & Authorized Signatory**  
Name : Dr. D. Chandrika  
Designation: Technical Manager



\*\*\*End of Report\*\*\*

The tests have been performed on the submitted sample. The sample has been tested on the date mentioned in the report. The Laboratory has followed due procedures for storage of samples as per required methodology. Any feedback on the test report must be communicated to the laboratory within seven (7) days of the date of the report. Laboratory will not retain the Sample for more than 15 days from the date of issue of test report except in cases where applicable regulations prescribe otherwise.

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## CUBE ENVIRONMENT LABORATORY

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TC-9323

### Test Report

Issued to (Customer Name & Address):	Report Details
The Commissioner, Trichy City Corporation, Tiruchy-620001	Report No : CEL/2022/039
	Report Date : 09.09.2022
	Sample Code No. : 202209NW039
Sample Type: Water-Zone 2 16/51 Nadhiya Viragupettai	Sample Received On : 01.09.2022
Sample Drawn /Quantity : Customer -/2L	Test Commenced On : 01.09.2022
Invoice No : CEL/EXT-INV/ 22-23-027	Test Completed On : 09.09.2022

S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
1.	Colour	Hazen	IS 3025 part 4-1983 RA : 2017	<1	5	15
2.	Odour	Agreeable/ Disagreeable	IS 3025 : Part 5 : 2018	Agreeable	Agreeable	Agreeable
3.	Turbidity	NTU	IS 3025 part 10-1984 RA: 2017	BLQ(LOQ:0.1)	1	5
4.	pH @ 25° C	-	IS 3025 Part 11-1983 RA : 2017	8.02	6.5-8.5	No relaxation
5.	Electrical Conductivity	us/cm	IS 3025 Part 14-1984 RA : 2019	534	Not specified	Not specified
6.	Total Dissolved Solids	mg/L	IS 3025 part 16-1984 RA : 2017	290	500	2000
7.	Total Hardness as CaCo3	mg/L	IS 3025 part 21-2009 RA : 2019	170	200	600
8.	Total Alkalinity as CaCO3	mg/L	IS 3025 part 23-1986 RA: 2019	67	200	600
9.	Calcium as Ca	mg/L	IS 3025 part 40-1991 RA : 2019	40	75	200
10.	Magnesium as Mg	mg/L	IS 3025 part 46-1994 RA: 2019	17	30	100
11.	Sodium as Na	mg/L	IS 3025 part 45-1993 RA: 2019	11	Not specified	Not specified







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TC-9323

S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
12.	Iron as Fe	mg/L	IS 3025 part 53-2003 RA: 2019	BLQ(LOQ:0.1)	0.3	No relaxation
13.	Free Ammonia as NH <sub>3</sub>	mg/L	IS 3025 part 34-1988 RA: 2019	0.3	0.5	No relaxation
14.	Nitrite as NO <sub>2</sub>	mg/L	IS 3025 part 34-1988 RA : 2019	BLQ(LOQ:0.01)	Not specified	Not specified
15.	Nitrate as NO <sub>3</sub>	mg/L	APHA 23rd Edition - 4500-NO <sub>3</sub> - B: 2017:: 2017	2.3	45	No relaxation
16.	Chloride as Cl	mg/L	IS 3025 part 32-1988 RA: 2019	63	250	1000
17.	Fluoride as F	mg/L	APHA 23rd Edn :sec4500F-D	0.2	1.0	1.5
18.	Phosphate as PO <sub>4</sub>	mg/L	IS 3025 part 31-1988 RA: 2019	0.1	Not specified	Not specified
19.	Sulphate as SO <sub>4</sub>	mg/L	APHA 23rd Edition :So4 :4500 E :Turbidimetric method: 2017	43	200	400

BLQ –Below limit of quantification.

LOQ- Limit of quantification

*Dr. D. Chandrika*  
9/9/2022

**Verified & Authorized Signatory****Name** : Dr. D. Chandrika**Designation:** Technical Manager

\*\*\*End of Report\*\*\*

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**CUBE ENVIRONMENT LABORATORY**

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**Test Report**

Issued to (Customer Name & Address):		Report Details	
The Commissioner, Trichy City Corporation, Tiruchy-620001		Report No	: CEL/2022/039-039
		Report Date	: 09.09.2022
		Sample Code No.	: 202209NW039
Sample Type: Water-Zone 2 16/51 Nadhiya Viragupettai		Sample Received On	: 01.09.2022
Sample Drawn /Quantity	: Customer -/2L	Test Commenced On	: 01.09.2022
Invoice No	: CEL/EXT-INV/ 22-23-027	Test Completed On	: 09.09.2022

S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
1.	Potassium as K	mg/L	IS 3025 part 45-1993 RA : 2019	5.4	Not specified	Not specified

BLQ –Below limit of quantification.

LOQ- Limit of quantification

*Dr. D. Chandrika*  
9/9/2022

**Verified & Authorized Signatory****Name** : Dr. D. Chandrika**Designation:** Technical Manager

\*\*\*End of Report\*\*\*

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TC-9323

**Test Report**

Issued to (Customer Name & Address):	Report Details
The Commissioner, Trichy City Corporation, Tiruchy-620001	Report No : CEL/2022/040
	Report Date : 09.09.2022
	Sample Code No. : 202209NW040
Sample Type: Water- Zone 2 16/63 Manju Viragupettai	Sample Received On : 01.09.2022
Sample Drawn /Quantity : Customer -/2L	Test Commenced On : 01.09.2022
Invoice No : CEL/EXT-INV/ 22-23-027	Test Completed On : 09.09.2022

S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
1.	Colour	Hazen	IS 3025 part 4-1983 RA : 2017	<1	5	15
2.	Odour	Agreeable/ Disagreeable	IS 3025 : Part 5 : 2018	Agreeable	Agreeable	Agreeable
3.	Turbidity	NTU	IS 3025 part 10-1984 RA: 2017	BLQ(LOQ:0.1)	1	5
4.	pH @ 25° C	-	IS 3025 Part 11-1983 RA : 2017	8.18	6.5-8.5	No relaxation
5.	Electrical Conductivity	us/cm	IS 3025 Part 14-1984 RA : 2019	537	Not specified	Not specified
6.	Total Dissolved Solids	mg/L	IS 3025 part 16-1984 RA : 2017	296	500	2000
7.	Total Hardness as CaCO <sub>3</sub>	mg/L	IS 3025 part 21-2009 RA : 2019	174	200	600
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/L	IS 3025 part 23-1986 RA: 2019	83	200	600
9.	Calcium as Ca	mg/L	IS 3025 part 40-1991 RA : 2019	40	75	200
10.	Magnesium as Mg	mg/L	IS 3025 part 46-1994 RA: 2019	18	30	100
11.	Sodium as Na	mg/L	IS 3025 part 45-1993 RA: 2019	11	Not specified	Not specified







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S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
12.	Iron as Fe	mg/L	IS 3025 part 53-2003 RA: 2019	BLQ(LOQ:0.1)	0.3	No relaxation
13.	Free Ammonia as NH <sub>3</sub>	mg/L	IS 3025 part 34-1988 RA: 2019	0.3	0.5	No relaxation
14.	Nitrite as NO <sub>2</sub>	mg/L	IS 3025 part 34-1988 RA : 2019	BLQ(LOQ:0.01)	Not specified	Not specified
15.	Nitrate as NO <sub>3</sub>	mg/L	APHA 23rd Edition - 4500-NO <sub>3</sub> - B: 2017:: 2017	2.3	45	No relaxation
16.	Chloride as Cl	mg/L	IS 3025 part 32-1988 RA: 2019	63	250	1000
17.	Fluoride as F	mg/L	APHA 23rd Edn :sec4500F-D	0.2	1.0	1.5
18.	Phosphate as PO <sub>4</sub>	mg/L	IS 3025 part 31-1988 RA: 2019	0.1	Not specified	Not specified
19.	Sulphate as SO <sub>4</sub>	mg/L	APHA 23rd Edition :So <sub>4</sub> :4500 E :Turbidimetric method: 2017	43	200	400

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LOQ- Limit of quantification

*Chandrika*  
9/9/2022**Verified & Authorized Signatory****Name** : Dr. D. Chandrika**Designation:** Technical Manager

\*\*\*End of Report\*\*\*

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**Test Report**

Issued to (Customer Name & Address):	Report Details
The Commissioner, Trichy City Corporation, Tiruchy-620001	Report No : CEL/2022/040-040
	Report Date : 09.09.2022
	Sample Code No. : 202209NW040
Sample Type: Water- Zone 2 16/63 Manju Viragupettai	Sample Received On : 01.09.2022
Sample Drawn /Quantity : Customer -/2L	Test Commenced On : 01.09.2022
Invoice No : CEL/EXT-INV/ 22-23-027	Test Completed On : 09.09.2022

S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
1.	Potassium as K	mg/L	IS 3025 part 45-1993 RA : 2019	5.3	Not specified	Not specified

BLQ –Below limit of quantification.

LOQ- Limit of quantification

*Chandrika*  
9/9/2022

**Verified & Authorized Signatory****Name** : Dr. D. Chandrika**Designation:** Technical Manager

\*\*\*End of Report\*\*\*

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TC-9323

**Test Report**

Issued to (Customer Name & Address):		Report Details	
The Commissioner, Trichy City Corporation, Tiruchy-620001		Report No	: CEL/2022/041
		Report Date	: 09.09.2022
		Sample Code No.	: 202209NW041
Sample Type: Water- Zone 3- Sundhari Thiruverumpur		Sample Received On	: 01.09.2022
Sample Drawn /Quantity	: Customer -/2L	Test Commenced On	: 01.09.2022
Invoice No	: CEL/EXT-INV/ 22-23-027	Test Completed On	: 09.09.2022

S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
1.	Colour	Hazen	IS 3025 part 4-1983 RA : 2017	<1	5	15
2.	Odour	Agreeable/ Disagreeable	IS 3025 : Part 5 : 2018	Agreeable	Agreeable	Agreeable
3.	Turbidity	NTU	IS 3025 part 10-1984 RA: 2017	BLQ(LOQ:0.1)	1	5
4.	pH @ 25° C	-	IS 3025 Part 11-1983 RA : 2017	8.04	6.5-8.5	No relaxation
5.	Electrical Conductivity	us/cm	IS 3025 Part 14-1984 RA : 2019	475	Not specified	Not specified
6.	Total Dissolved Solids	mg/L	IS 3025 part 16-1984 RA : 2017	260	500	2000
7.	Total Hardness as CaCO <sub>3</sub>	mg/L	IS 3025 part 21-2009 RA : 2019	158	200	600
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/L	IS 3025 part 23-1986 RA: 2019	71	200	600
9.	Calcium as Ca	mg/L	IS 3025 part 40-1991 RA : 2019	28.5	75	200
10.	Magnesium as Mg	mg/L	IS 3025 part 46-1994 RA: 2019	21	30	100
11.	Sodium as Na	mg/L	IS 3025 part 45-1993 RA: 2019	8.0	Not specified	Not specified

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S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
12.	Iron as Fe	mg/L	IS 3025 part 53-2003 RA: 2019	BLQ(LOQ:0.1)	0.3	No relaxation
13.	Free Ammonia as NH <sub>3</sub>	mg/L	IS 3025 part 34-1988 RA: 2019	0.2	0.5	No relaxation
14.	Nitrite as NO <sub>2</sub>	mg/L	IS 3025 part 34-1988 RA : 2019	BLQ(LOQ:0.01)	Not specified	Not specified
15.	Nitrate as NO <sub>3</sub>	mg/L	APHA 23rd Edition - 4500-NO <sub>3</sub> - B: 2017:: 2017	3.1	45	No relaxation
16.	Chloride as Cl	mg/L	IS 3025 part 32-1988 RA: 2019	53	250	1000
17.	Fluoride as F	mg/L	APHA 23rd Edn :sec4500F-D	0.3	1.0	1.5
18.	Phosphate as PO <sub>4</sub>	mg/L	IS 3025 part 31-1988 RA: 2019	0.2	Not specified	Not specified
19.	Sulphate as SO <sub>4</sub>	mg/L	APHA 23rd Edition :So <sub>4</sub> :4500 E :Turbidimetric method: 2017	40	200	400

BLQ –Below limit of quantification.

LOQ- Limit of quantification

**Verified & Authorized Signatory****Name** : Dr. D. Chandrika**Designation:** Technical Manager

\*\*\*End of Report\*\*\*

The tests have been performed on the submitted sample. The sample has been tested on the date mentioned in the report. The Laboratory has followed due procedures for storage of samples as per required methodology. Any feedback on the test report must be communicated to the laboratory within seven (7) days of the date of the report. Laboratory will not retain the Sample for more than 15 days from the date of issue of test report except in cases where applicable regulations prescribe otherwise.

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**CUBE ENVIRONMENT LABORATORY**

A Division of Centre for Urbanization, Buildings &amp; Environment

**Test Report**

Issued to (Customer Name & Address):	Report Details
The Commissioner, Trichy City Corporation, Tiruchy-620001	Report No : CEL/2022/041-041
	Report Date : 09.09.2022
	Sample Code No. : 202209NW041
Sample Type: Water- Zone 3- Sundhari Thiruverumpur	Sample Received On : 01.09.2022
Sample Drawn /Quantity : Customer -/2L	Test Commenced On : 01.09.2022
Invoice No : CEL/EXT-INV/ 22-23-027	Test Completed On : 09.09.2022

S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
1.	Potassium as K	mg/L	IS 3025 part 45-1993 RA : 2019	4.3	Not specified	Not specified

BLQ –Below limit of quantification.  
LOQ- Limit of quantification

**Verified & Authorized Signatory**  
Name : Dr. D. Chandrika  
Designation: Technical Manager



\*\*\*End of Report\*\*\*

The tests have been performed on the submitted sample. The sample has been tested on the date mentioned in the report. The Laboratory has followed due procedures for storage of samples as per required methodology. Any feedback on the test report must be communicated to the laboratory within seven (7) days of the date of the report. Laboratory will not retain the Sample for more than 15 days from the date of issue of test report except in cases where applicable regulations prescribe otherwise.

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## CUBE ENVIRONMENT LABORATORY

A Division of Centre for Urbanization, Buildings & Environment



TC-9323

### Test Report

Issued to (Customer Name & Address):	Report Details
The Commissioner, Trichy City Corporation, Tiruchy-620001	Report No : CEL/2022/042
	Report Date : 09.09.2022
	Sample Code No. : 202209NW042
Sample Type: Water-Zone 3-Rajasekar Thiruverumpur	Sample Received On : 01.09.2022
Sample Drawn /Quantity : Customer -/2L	Test Commenced On : 01.09.2022
Invoice No : CEL/EXT-INV/ 22-23-027	Test Completed On : 09.09.2022

S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
1.	Colour	Hazen	IS 3025 part 4-1983 RA : 2017	<1	5	15
2.	Odour	Agreeable/ Disagreeable	IS 3025 : Part 5 : 2018	Agreeable	Agreeable	Agreeable
3.	Turbidity	NTU	IS 3025 part 10-1984 RA: 2017	BLQ(LOQ:0.1)	1	5
4.	pH @ 25° C	-	IS 3025 Part 11-1983 RA : 2017	8.06	6.5-8.5	No relaxation
5.	Electrical Conductivity	us/cm	IS 3025 Part 14-1984 RA : 2019	472	Not specified	Not specified
6.	Total Dissolved Solids	mg/L	IS 3025 part 16-1984 RA : 2017	254	500	2000
7.	Total Hardness as CaCo3	mg/L	IS 3025 part 21-2009 RA : 2019	154	200	600
8.	Total Alkalinity as CaCO3	mg/L	IS 3025 part 23-1986 RA: 2019	67	200	600
9.	Calcium as Ca	mg/L	IS 3025 part 40-1991 RA : 2019	32	75	200
10.	Magnesium as Mg	mg/L	IS 3025 part 46-1994 RA: 2019	18	30	100
11.	Sodium as Na	mg/L	IS 3025 part 45-1993 RA: 2019	8.1	Not specified	Not specified



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**CUBE ENVIRONMENT LABORATORY**

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S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
12.	Iron as Fe	mg/L	IS 3025 part 53-2003 RA: 2019	BLQ(LOQ:0.1)	0.3	No relaxation
13.	Free Ammonia as NH <sub>3</sub>	mg/L	IS 3025 part 34-1988 RA: 2019	0.25	0.5	No relaxation
14.	Nitrite as NO <sub>2</sub>	mg/L	IS 3025 part 34-1988 RA : 2019	BLQ(LOQ:0.01)	Not specified	Not specified
15.	Nitrate as NO <sub>3</sub>	mg/L	APHA 23rd Edition - 4500-NO <sub>3</sub> - B: 2017:: 2017	3.0	45	No relaxation
16.	Chloride as Cl	mg/L	IS 3025 part 32-1988 RA: 2019	53	250	1000
17.	Fluoride as F	mg/L	APHA 23rd Edn :sec4500F-D	0.3	1.0	1.5
18.	Phosphate as PO <sub>4</sub>	mg/L	IS 3025 part 31-1988 RA: 2019	0.2	Not specified	Not specified
19.	Sulphate as SO <sub>4</sub>	mg/L	APHA 23rd Edition :So <sub>4</sub> :4500 E :Turbidimetric method: 2017	38	200	400

BLQ –Below limit of quantification.

LOQ- Limit of quantification

*Dr. D. Chandrika*  
9/19/2022

**Verified & Authorized Signatory**  
Name : Dr. D. Chandrika  
Designation: Technical Manager



\*\*\*End of Report\*\*\*

The tests have been performed on the submitted sample. The sample has been tested on the date mentioned in the report. The Laboratory has followed due procedures for storage of samples as per required methodology. Any feedback on the test report must be communicated to the laboratory within seven (7) days of the date of the report. Laboratory will not retain the Sample for more than 15 days from the date of issue of test report except in cases where applicable regulations prescribe otherwise.



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**CUBE ENVIRONMENT LABORATORY**

A Division of Centre for Urbanization, Buildings &amp; Environment

**Test Report**

Issued to (Customer Name & Address):	Report Details
The Commissioner, Trichy City Corporation, Tiruchy-620001	Report No : CEL/2022/042-042
	Report Date : 09.09.2022
	Sample Code No. : 202209NW042
Sample Type: Water-Zone 3-Rajasekar Thiruverumpur	Sample Received On : 01.09.2022
Sample Drawn /Quantity : Customer -/2L	Test Commenced On : 01.09.2022
Invoice No : CEL/EXT-INV/ 22-23-027	Test Completed On : 09.09.2022

S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
1.	Potassium as K	mg/L	IS 3025 part 45-1993 RA : 2019	4.4	Not specified	Not specified

BLQ –Below limit of quantification.  
LOQ- Limit of quantification

*Chandrika*  
9/9/2022

**Verified & Authorized Signatory****Name** : Dr. D. Chandrika**Designation:** Technical Manager

\*\*\*End of Report\*\*\*

The tests have been performed on the submitted sample. The sample has been tested on the date mentioned in the report. The Laboratory has followed due procedures for storage of samples as per required methodology. Any feedback on the test report must be communicated to the laboratory within seven (7) days of the date of the report. Laboratory will not retain the Sample for more than 15 days from the date of issue of test report except in cases where applicable regulations prescribe otherwise.

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**Test Report**

Issued to (Customer Name & Address):		Report Details	
The Commissioner, Trichy City Corporation, Tiruchy-620001		Report No	: CEL/2022/043
		Report Date	: 09.09.2022
		Sample Code No.	: 202209NW043
Sample Type: Water- Zone 4- Murugesh Collector office Rd Old Junction		Sample Received On	: 01.09.2022
Sample Drawn /Quantity	: Customer -/2L	Test Commenced On	: 01.09.2022
Invoice No	: CEL/EXT-INV/ 22-23-027	Test Completed On	: 09.09.2022

S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
1.	Colour	Hazen	IS 3025 part 4-1983 RA : 2017	<1	5	15
2.	Odour	Agreeable/ Disagreeable	IS 3025 : Part 5 : 2018	Agreeable	Agreeable	Agreeable
3.	Turbidity	NTU	IS 3025 part 10-1984 RA: 2017	BLQ(LOQ:0.1)	1	5
4.	pH @ 25° C	-	IS 3025 Part 11-1983 RA : 2017	8.03	6.5-8.5	No relaxation
5.	Electrical Conductivity	us/cm	IS 3025 Part 14-1984 RA : 2019	468	Not specified	Not specified
6.	Total Dissolved Solids	mg/L	IS 3025 part 16-1984 RA : 2017	250	500	2000
7.	Total Hardness as CaCO <sub>3</sub>	mg/L	IS 3025 part 21-2009 RA : 2019	150	200	600
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/L	IS 3025 part 23-1986 RA: 2019	67	200	600
9.	Calcium as Ca	mg/L	IS 3025 part 40-1991 RA : 2019	32	75	200
10.	Magnesium as Mg	mg/L	IS 3025 part 46-1994 RA: 2019	17	30	100
11.	Sodium as Na	mg/L	IS 3025 part 45-1993 RA: 2019	8.2	Not specified	Not specified







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TC-9323

S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
12.	Iron as Fe	mg/L	IS 3025 part 53-2003 RA: 2019	BLQ(LOQ:0.1)	0.3	No relaxation
13.	Free Ammonia as NH <sub>3</sub>	mg/L	IS 3025 part 34-1988 RA: 2019	0.18	0.5	No relaxation
14.	Nitrite as NO <sub>2</sub>	mg/L	IS 3025 part 34-1988 RA : 2019	BLQ(LOQ:0.01)	Not specified	Not specified
15.	Nitrate as NO <sub>3</sub>	mg/L	APHA 23rd Edition - 4500-NO <sub>3</sub> - B: 2017:: 2017	3.0	45	No relaxation
16.	Chloride as Cl	mg/L	IS 3025 part 32-1988 RA: 2019	53	250	1000
17.	Fluoride as F	mg/L	APHA 23rd Edn :sec4500F-D	0.2	1.0	1.5
18.	Phosphate as PO <sub>4</sub>	mg/L	IS 3025 part 31-1988 RA: 2019	0.2	Not specified	Not specified
19.	Sulphate as SO <sub>4</sub>	mg/L	APHA 23rd Edition :So4 :4500 E :Turbidimetric method: 2017	38	200	400

BLQ –Below limit of quantification.

LOQ- Limit of quantification

*Chandrika*  
9/9/2022**Verified & Authorized Signatory****Name** : Dr. D. Chandrika**Designation:** Technical Manager

\*\*\*End of Report\*\*\*

The tests have been performed on the submitted sample. The sample has been tested on the date mentioned in the report. The Laboratory has followed due procedures for storage of samples as per required methodology. Any feedback on the test report must be communicated to the laboratory within seven (7) days of the date of the report. Laboratory will not retain the Sample for more than 15 days from the date of issue of test report except in cases where applicable regulations prescribe otherwise.



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## CUBE ENVIRONMENT LABORATORY

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### Test Report

Issued to (Customer Name & Address):	Report Details
The Commissioner, Trichy City Corporation, Tiruchy-620001	Report No : CEL/2022/043-043
	Report Date : 09.09.2022
	Sample Code No. : 202209NW043
Sample Type: Water- Zone 4- Murugesh Collector office Rd Old Junction	Sample Received On : 01.09.2022
Sample Drawn /Quantity : Customer -/2L	Test Commenced On : 01.09.2022
Invoice No : CEL/EXT-INV/ 22-23-027	Test Completed On : 09.09.2022

S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
1.	Potassium as K	mg/L	IS 3025 part 45-1993 RA : 2019	4.2	Not specified	Not specified

BLQ –Below limit of quantification.  
LOQ- Limit of quantification

*Dr. D. Chandrika*  
9/9/2022

Verified & Authorized Signatory  
Name : Dr. D. Chandrika  
Designation: Technical Manager



\*\*\*End of Report\*\*\*

The tests have been performed on the submitted sample. The sample has been tested on the date mentioned in the report. The Laboratory has followed due procedures for storage of samples as per required methodology. Any feedback on the test report must be communicated to the laboratory within seven (7) days of the date of the report. Laboratory will not retain the Sample for more than 15 days from the date of issue of test report except in cases where applicable regulations prescribe otherwise.



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**Test Report**

Issued to (Customer Name & Address):		Report Details	
The Commissioner, Trichy City Corporation, Tiruchy-620001		Report No	: CEL/2022/044
		Report Date	: 09.09.2022
		Sample Code No.	: 202209NW044
Sample Type: Water-Zone 4- Visalakshmi Collector office Rd Old Junction		Sample Received On	: 01.09.2022
Sample Drawn /Quantity : Customer -/2L		Test Commenced On	: 01.09.2022
Invoice No : CEL/EXT-INV/ 22-23-027		Test Completed On	: 09.09.2022

S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
1.	Colour	Hazen	IS 3025 part 4-1983 RA : 2017	<1	5	15
2.	Odour	Agreeable/ Disagreeable	IS 3025 : Part 5 : 2018	Agreeable	Agreeable	Agreeable
3.	Turbidity	NTU	IS 3025 part 10-1984 RA: 2017	BLQ(LOQ:0.1)	1	5
4.	pH @ 25° C	-	IS 3025 Part 11-1983 RA : 2017	8.11	6.5-8.5	No relaxation
5.	Electrical Conductivity	us/cm	IS 3025 Part 14-1984 RA : 2019	462	Not specified	Not specified
6.	Total Dissolved Solids	mg/L	IS 3025 part 16-1984 RA : 2017	258	500	2000
7.	Total Hardness as CaCo3	mg/L	IS 3025 part 21-2009 RA : 2019	150	200	600
8.	Total Alkalinity as CaCO3	mg/L	IS 3025 part 23-1986 RA: 2019	67	200	600
9.	Calcium as Ca	mg/L	IS 3025 part 40-1991 RA : 2019	30	75	200
10.	Magnesium as Mg	mg/L	IS 3025 part 46-1994 RA: 2019	18	30	100
11.	Sodium as Na	mg/L	IS 3025 part 45-1993 RA: 2019	8.5	Not specified	Not specified

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S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
12.	Iron as Fe	mg/L	IS 3025 part 53-2003 RA: 2019	BLQ(LOQ:0.1)	0.3	No relaxation
13.	Free Ammonia as NH <sub>3</sub>	mg/L	IS 3025 part 34-1988 RA: 2019	0.18	0.5	No relaxation
14.	Nitrite as NO <sub>2</sub>	mg/L	IS 3025 part 34-1988 RA : 2019	BLQ(LOQ:0.01)	Not specified	Not specified
15.	Nitrate as NO <sub>3</sub>	mg/L	APHA 23rd Edition - 4500-NO3- B: 2017:: 2017	3.0	45	No relaxation
16.	Chloride as Cl	mg/L	IS 3025 part 32-1988 RA: 2019	57	250	1000
17.	Fluoride as F	mg/L	APHA 23rd Edn :sec4500F-D	0.3	1.0	1.5
18.	Phosphate as PO <sub>4</sub>	mg/L	IS 3025 part 31-1988 RA: 2019	0.2	Not specified	Not specified
19.	Sulphate as SO <sub>4</sub>	mg/L	APHA 23rd Edition :So4 :4500 E :Turbidimetric method: 2017	34	200	400

BLQ –Below limit of quantification.

LOQ- Limit of quantification

*Chandrika*  
9/9/2022

**Verified & Authorized Signatory**  
**Name** : Dr. D. Chandrika  
**Designation:** Technical Manager



\*\*\*End of Report\*\*\*

The tests have been performed on the submitted sample. The sample has been tested on the date mentioned in the report. The Laboratory has followed due procedures for storage of samples as per required methodology. Any feedback on the test report must be communicated to the laboratory within seven (7) days of the date of the report. Laboratory will not retain the Sample for more than 15 days from the date of issue of test report except in cases where applicable regulations prescribe otherwise.

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## CUBE ENVIRONMENT LABORATORY

A Division of Centre for Urbanization, Buildings & Environment

### Test Report

Issued to (Customer Name & Address):	Report Details
The Commissioner, Trichy City Corporation, Tiruchy-620001	Report No : CEL/2022/044-044
	Report Date : 09.09.2022
	Sample Code No. : 202209NW044
Sample Type: Zone 4- Visalakshmi Collector office Rd Old Junction	Sample Received On : 01.09.2022
Sample Drawn /Quantity : Customer -/2L	Test Commenced On : 01.09.2022
Invoice No : CEL/EXT-INV/ 22-23-027	Test Completed On : 09.09.2022

S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
1.	Potassium as K	mg/L	IS 3025 part 45-1993 RA : 2019	4.1	Not specified	Not specified

BLQ –Below limit of quantification.  
LOQ- Limit of quantification

*Chandrika*  
9/9/2022

**Verified & Authorized Signatory**  
**Name** : Dr. D. Chandrika  
**Designation:** Technical Manager



\*\*\*End of Report\*\*\*

The tests have been performed on the submitted sample. The sample has been tested on the date mentioned in the report. The Laboratory has followed due procedures for storage of samples as per required methodology. Any feedback on the test report must be communicated to the laboratory within seven (7) days of the date of the report. Laboratory will not retain the Sample for more than 15 days from the date of issue of test report except in cases where applicable regulations prescribe otherwise.

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TC-9323

**Test Report**

Issued to (Customer Name & Address):		Report Details	
The Commissioner, Trichy City Corporation, Tiruchy-620001		Report No	: CEL/2022/045
		Report Date	: 09.09.2022
		Sample Code No.	: 202209NW045
Sample Type: Water-Zone 5- Mani Shanmugam Nagar Vayalur		Sample Received On	: 01.09.2022
Sample Drawn /Quantity : Customer -/2L		Test Commenced On	: 01.09.2022
Invoice No : CEL/EXT-INV/ 22-23-027		Test Completed On	: 09.09.2022

S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
1.	Colour	Hazen	IS 3025 part 4-1983 RA : 2017	<1	5	15
2.	Odour	Agreeable/ Disagreeable	IS 3025 : Part 5 : 2018	Agreeable	Agreeable	Agreeable
3.	Turbidity	NTU	IS 3025 part 10-1984 RA: 2017	BLQ(LOQ:0.1)	1	5
4.	pH @ 25° C	-	IS 3025 Part 11-1983 RA : 2017	8.07	6.5-8.5	No relaxation
5.	Electrical Conductivity	us/cm	IS 3025 Part 14-1984 RA : 2019	464	Not specified	Not specified
6.	Total Dissolved Solids	mg/L	IS 3025 part 16-1984 RA : 2017	260	500	2000
7.	Total Hardness as CaCo3	mg/L	IS 3025 part 21-2009 RA : 2019	150	200	600
8.	Total Alkalinity as CaCO3	mg/L	IS 3025 part 23-1986 RA: 2019	63	200	600
9.	Calcium as Ca	mg/L	IS 3025 part 40-1991 RA : 2019	30	75	200
10.	Magnesium as Mg	mg/L	IS 3025 part 46-1994 RA: 2019	18	30	100
11.	Sodium as Na	mg/L	IS 3025 part 45-1993 RA: 2019	7.5	Not specified	Not specified

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S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
12.	Iron as Fe	mg/L	IS 3025 part 53-2003 RA: 2019	BLQ(LOQ:0.1)	0.3	No relaxation
13.	Free Ammonia as NH <sub>3</sub>	mg/L	IS 3025 part 34-1988 RA: 2019	0.2	0.5	No relaxation
14.	Nitrite as NO <sub>2</sub>	mg/L	IS 3025 part 34-1988 RA : 2019	BLQ(LOQ:0.01)	Not specified	Not specified
15.	Nitrate as NO <sub>3</sub>	mg/L	APHA 23rd Edition - 4500-NO3- B: 2017:: 2017	3.0	45	No relaxation
16.	Chloride as Cl	mg/L	IS 3025 part 32-1988 RA: 2019	50	250	1000
17.	Fluoride as F	mg/L	APHA 23rd Edn :sec4500F-D	0.3	1.0	1.5
18.	Phosphate as PO <sub>4</sub>	mg/L	IS 3025 part 31-1988 RA: 2019	0.2	Not specified	Not specified
19.	Sulphate as SO <sub>4</sub>	mg/L	APHA 23rd Edition :So4 :4500 E :Turbidimetric method: 2017	41	200	400

BLQ –Below limit of quantification.

LOQ- Limit of quantification

*Dr. D. Chandrika*  
9/9/2022

**Verified & Authorized Signatory**  
Name : Dr. D. Chandrika  
Designation: Technical Manager



\*\*\*End of Report\*\*\*

The tests have been performed on the submitted sample. The sample has been tested on the date mentioned in the report. The Laboratory has followed due procedures for storage of samples as per required methodology. Any feedback on the test report must be communicated to the laboratory within seven (7) days of the date of the report. Laboratory will not retain the Sample for more than 15 days from the date of issue of test report except in cases where applicable regulations prescribe otherwise.

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**CUBE ENVIRONMENT LABORATORY**

A Division of Centre for Urbanization, Buildings &amp; Environment

**Test Report**

Issued to (Customer Name & Address):		Report Details	
The Commissioner, Trichy City Corporation, Tiruchy-620001		Report No	: CEL/2022/045-045
		Report Date	: 09.09.2022
		Sample Code No.	: 202209NW045
Sample Type: Water-Zone 5- Mani Shanmugam Nagar Vayalur		Sample Received On	: 01.09.2022
Sample Drawn /Quantity : Customer -/2L		Test Commenced On	: 01.09.2022
Invoice No : CEL/EXT-INV/ 22-23-027		Test Completed On	: 09.09.2022

S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
1.	Potassium as K	mg/L	IS 3025 part 45-1993 RA : 2019	4.3	Not specified	Not specified

BLQ –Below limit of quantification.

LOQ- Limit of quantification

*Chandrika*  
9/9/2022

**Verified & Authorized Signatory**

Name : Dr. D. Chandrika

Designation: Technical Manager



\*\*\*End of Report\*\*\*

The tests have been performed on the submitted sample. The sample has been tested on the date mentioned in the report. The Laboratory has followed due procedures for storage of samples as per required methodology. Any feedback on the test report must be communicated to the laboratory within seven (7) days of the date of the report. Laboratory will not retain the Sample for more than 15 days from the date of issue of test report except in cases where applicable regulations prescribe otherwise.

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CUBE Environment Laboratory  
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**CUBE ENVIRONMENT LABORATORY**

A Division of Centre for Urbanization, Buildings &amp; Environment



TC-9323

**Test Report**

Issued to (Customer Name & Address):	Report Details
The Commissioner, Trichy City Corporation, Tiruchy-620001	Report No : CEL/2022/046
	Report Date : 09.09.2022
	Sample Code No. : 202209NW046
Sample Type: Water-Zone 5- ALN House Vayalur	Sample Received On : 01.09.2022
Sample Drawn /Quantity : Customer -/2L	Test Commenced On : 01.09.2022
Invoice No : CEL/EXT-INV/ 22-23-027	Test Completed On : 09.09.2022

S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
1.	Colour	Hazen	IS 3025 part 4-1983 RA : 2017	<1	5	15
2.	Odour	Agreeable/ Disagreeable	IS 3025 : Part 5 : 2018	Agreeable	Agreeable	Agreeable
3.	Turbidity	NTU	IS 3025 part 10-1984 RA: 2017	BLQ(LOQ:0.1)	1	5
4.	pH @ 25° C	-	IS 3025 Part 11-1983 RA : 2017	7.93	6.5-8.5	No relaxation
5.	Electrical Conductivity	us/cm	IS 3025 Part 14-1984 RA : 2019	464	Not specified	Not specified
6.	Total Dissolved Solids	mg/L	IS 3025 part 16-1984 RA : 2017	268	500	2000
7.	Total Hardness as CaCO <sub>3</sub>	mg/L	IS 3025 part 21-2009 RA : 2019	146.5	200	600
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/L	IS 3025 part 23-1986 RA: 2019	71	200	600
9.	Calcium as Ca	mg/L	IS 3025 part 40-1991 RA : 2019	28.5	75	200
10.	Magnesium as Mg	mg/L	IS 3025 part 46-1994 RA: 2019	18	30	100
11.	Sodium as Na	mg/L	IS 3025 part 45-1993 RA: 2019	8.6	Not specified	Not specified

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S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
12.	Iron as Fe	mg/L	IS 3025 part 53-2003 RA: 2019	BLQ(LOQ:0.1)	0.3	No relaxation
13.	Free Ammonia as NH <sub>3</sub>	mg/L	IS 3025 part 34-1988 RA: 2019	0.23	0.5	No relaxation
14.	Nitrite as NO <sub>2</sub>	mg/L	IS 3025 part 34-1988 RA : 2019	BLQ(LOQ:0.01)	Not specified	Not specified
15.	Nitrate as NO <sub>3</sub>	mg/L	APHA 23rd Edition - 4500-NO <sub>3</sub> - B: 2017:: 2017	3.0	45	No relaxation
16.	Chloride as Cl	mg/L	IS 3025 part 32-1988 RA: 2019	55	250	1000
17.	Fluoride as F	mg/L	APHA 23rd Edn :sec4500F-D	0.3	1.0	1.5
18.	Phosphate as PO <sub>4</sub>	mg/L	IS 3025 part 31-1988 RA: 2019	0.2	Not specified	Not specified
19.	Sulphate as SO <sub>4</sub>	mg/L	APHA 23rd Edition :So <sub>4</sub> :4500 E :Turbidimetric method: 2017	30	200	400

BLQ –Below limit of quantification.

LOQ- Limit of quantification

*Dr. D. Chandrika*  
9/19/2022

**Verified & Authorized Signatory****Name** : Dr. D. Chandrika**Designation:** Technical Manager

\*\*\*End of Report\*\*\*

The tests have been performed on the submitted sample. The sample has been tested on the date mentioned in the report. The Laboratory has followed due procedures for storage of samples as per required methodology. Any feedback on the test report must be communicated to the laboratory within seven (7) days of the date of the report. Laboratory will not retain the Sample for more than 15 days from the date of issue of test report except in cases where applicable regulations prescribe otherwise.



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**CUBE ENVIRONMENT LABORATORY**

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**Test Report**

Issued to (Customer Name & Address):		Report Details	
The Commissioner, Trichy City Corporation, Tiruchy-620001		Report No	: CEL/2022/046-046
		Report Date	: 09.09.2022
		Sample Code No.	: 202209NW046
Sample Type: Water-Zone 5- ALN House Vayalur		Sample Received On	: 01.09.2022
Sample Drawn /Quantity : Customer -/2L		Test Commenced On	: 01.09.2022
Invoice No : CEL/EXT-INV/ 22-23-027		Test Completed On	: 09.09.2022

S. No	Parameter	Unit	Test Method	Result	Limit as per IS 10500	
					Acceptable limit	Permissible Limit in the absence of alternate source
1.	Potassium as K	mg/L	IS 3025 part 45-1993 RA : 2019	4.1	Not specified	Not specified

BLQ –Below limit of quantification.

LOQ- Limit of quantification

*Chandrika*  
9/9/2022

**Verified & Authorized Signatory**  
Name : Dr. D. Chandrika  
Designation: Technical Manager



\*\*\*End of Report\*\*\*

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**Test Report**

Issued to (Customer Name & Address):		Report Details	
The Commissioner, Trichy City Corporation, Tiruchy-620001		Report No	: CEL/2022/047
		Report Date	: 09.09.2022
		Sample Code No.	: 202209NW047
Sample Type: Water- Zone -3 Elakkudi Kulam Ward No 39		Sample Received On	: 01.09.2022
Sample Drawn /Quantity : Customer -/2L		Test Commenced On	: 01.09.2022
Invoice No : CEL/EXT-INV/ 22-23-028		Test Completed On	: 09.09.2022

S. No	Parameter	Unit	Test Method	Result
1.	Colour	Hazen	IS 3025 part 4-1983 RA : 2017	5
2.	Odour	Agreeable/ Disagreeable	IS 3025 : Part 5 : 2018	Agreeable
3.	Turbidity	NTU	IS 3025 part 10-1984 RA: 2017	BLQ(LOQ:0.1)
4.	pH @ 25° C	-	IS 3025 Part 11-1983 RA : 2017	7.84
5.	Electrical Conductivity	us/cm	IS 3025 Part 14-1984 RA : 2019	860
6.	Total Dissolved Solids	mg/L	IS 3025 part 16-1984 RA : 2017	480
7.	Total Hardness as CaCo3	mg/L	IS 3025 part 21-2009 RA : 2019	273
8.	Total Alkalinity as CaCO3	mg/L	IS 3025 part 23-1986 RA: 2019	123
9.	Calcium as Ca	mg/L	IS 3025 part 40-1991 RA : 2019	60
10.	Magnesium as Mg	mg/L	IS 3025 part 46-1994 RA: 2019	29
11.	Sodium as Na	mg/L	IS 3025 part 45-1993 RA: 2019	23
12.	Potassium as K	mg/L	IS 3025 part 45-1993 RA : 2019	11
13.	Iron as Fe	mg/L	IS 3025 part 53-2003 RA: 2019	BLQ(LOQ:0.05)
14.	Free Ammonia as NH3	mg/L	IS 3025 part 34-1988 RA: 2019	1.5
15.	Nitrite as NO <sub>2</sub>	mg/L	IS 3025 part 34-1988 RA : 2019	0.02







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S. No	Parameter	Unit	Test Method	Result
16.	Nitrate as NO <sub>3</sub>	mg/L	APHA 23rd Edition - 4500-NO <sub>3</sub> - B: 2017:: 2017	6.3
17.	Chloride as Cl	mg/L	IS 3025 part 32-1988 RA: 2019	113
18.	Fluoride as F	mg/L	APHA 23rd Edn :sec4500F-D	0.3
19.	Phosphate as PO <sub>4</sub>	mg/L	IS 3025 part 31-1988 RA: 2019	0.5
20.	Sulphate as SO <sub>4</sub>	mg/L	APHA 23rd Edition :So <sub>4</sub> :4500 E :Turbidimetric method: 2017	41

BLQ –Below limit of quantification.

LOQ- Limit of quantification

*Dr. D. Chandrika*  
9/9/2022

**Verified & Authorized Signatory**  
Name : Dr. D. Chandrika  
Designation: Technical Manager

\*\*\*End of Report\*\*\*

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## CUBE ENVIRONMENT LABORATORY

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### Test Report

Issued to (Customer Name & Address):	Report Details
The Commissioner, Trichy City Corporation, Tiruchy-620001	Report No : CEL/2022/047-047
	Report Date : 09.09.2022
	Sample Code No. : 202209NW047
Sample Type: Water- Zone -3 Elakkudi Kulam Ward No 39	Sample Received On : 01.09.2022
Sample Drawn /Quantity : Customer -/2L	Test Commenced On : 01.09.2022
Invoice No : CEL/EXT-INV/ 22-23-028	Test Completed On : 09.09.2022

S. No	Parameter	Unit	Test Method	Result
1.	Chemical Oxygen Demand	mg/L	IS 3025 part 44-1993 RA : 2019	16
2.	Biochemical Oxygen Demand at 27°C For 3days	mg/L	APHA 23rd Edition 5220 B Open reflux method: 2017	56

BLQ –Below limit of quantification.

LOQ- Limit of quantification

*Chandrika*  
9/9/2022

**Verified & Authorized Signatory**  
**Name** : Dr. D. Chandrika  
**Designation:** Technical Manager



\*\*\*End of Report\*\*\*

The tests have been performed on the submitted sample. The sample has been tested on the date mentioned in the report. The Laboratory has followed due procedures for storage of samples as per required methodology. Any feedback on the test report must be communicated to the laboratory within seven (7) days of the date of the report. Laboratory will not retain the Sample for more than 15 days from the date of issue of test report except in cases where applicable regulations prescribe otherwise.

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**Test Report**

Issued to (Customer Name & Address):	Report Details
The Commissioner, Trichy City Corporation, Tiruchy-620001	Report No : CEL/2022/048
	Report Date : 09.09.2022
	Sample Code No. : 202209NW048
Sample Type: Water- Zone-3 Sengulam Ward No:41	Sample Received On : 01.09.2022
Sample Drawn /Quantity : Customer -/2L	Test Commenced On : 01.09.2022
Invoice No : CEL/EXT-INV/ 22-23-028	Test Completed On : 09.09.2022

S. No	Parameter	Unit	Test Method	Result
1.	Colour	Hazen	IS 3025 part 4-1983 RA : 2017	<1
2.	Odour	Agreeable/ Disagreeable	IS 3025 : Part 5 : 2018	Agreeable
3.	Turbidity	NTU	IS 3025 part 10-1984 RA: 2017	BLQ(LOQ:0.1)
4.	pH @ 25° C	-	IS 3025 Part 11-1983 RA : 2017	8.68
5.	Electrical Conductivity	us/cm	IS 3025 Part 14-1984 RA : 2019	631
6.	Total Dissolved Solids	mg/L	IS 3025 part 16-1984 RA : 2017	352
7.	Total Hardness as CaCo3	mg/L	IS 3025 part 21-2009 RA : 2019	170
8.	Total Alkalinity as CaCO3	mg/L	IS 3025 part 23-1986 RA: 2019	71
9.	Calcium as Ca	mg/L	IS 3025 part 40-1991 RA : 2019	170
10.	Magnesium as Mg	mg/L	IS 3025 part 46-1994 RA: 2019	19
11.	Sodium as Na	mg/L	IS 3025 part 45-1993 RA: 2019	21
12.	Potassium as K	mg/L	IS 3025 part 45-1993 RA : 2019	10
13.	Iron as Fe	mg/L	IS 3025 part 53-2003 RA: 2019	0.07
14.	Free Ammonia as NH3	mg/L	IS 3025 part 34-1988 RA: 2019	1.2

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S. No	Parameter	Unit	Test Method	Result
15.	Nitrite as NO <sub>2</sub>	mg/L	IS 3025 part 34-1988 RA : 2019	0.27
16.	Nitrate as NO <sub>3</sub>	mg/L	APHA 23rd Edition - 4500-NO3- B: 2017:: 2017	5.3
17.	Chloride as Cl	mg/L	IS 3025 part 32-1988 RA: 2019	102
18.	Fluoride as F	mg/L	APHA 23rd Edn :sec4500F-D	0.5
19.	Phosphate as PO <sub>4</sub>	mg/L	IS 3025 part 31-1988 RA: 2019	0.2
20.	Sulphate as SO <sub>4</sub>	mg/L	APHA 23rd Edition :So4 :4500 E :Turbidimetric method: 2017	40

BLQ –Below limit of quantification.

LOQ- Limit of quantification

*Chandrika*  
9/9/2022

**Verified & Authorized Signatory**  
Name : Dr. D. Chandrika  
Designation: Technical Manager



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**Test Report**

Issued to (Customer Name & Address):	Report Details
The Commissioner, Trichy City Corporation, Tiruchy-620001	Report No : CEL/2022/048-048
	Report Date : 09.09.2022
	Sample Code No. : 202209NW048
Sample Type: Water- Zone-3 Sengulam Ward No:41	Sample Received On : 01.09.2022
Sample Drawn /Quantity : Customer -/2L	Test Commenced On : 01.09.2022
Invoice No : CEL/EXT-INV/ 22-23-028	Test Completed On : 09.09.2022

S. No	Parameter	Unit	Test Method	Result
1.	Chemical Oxygen Demand	mg/L	IS 3025 Part 44-1993 RA : 2019	48
2.	Biochemical Oxygen Demand at 27°C for 3days	mg/L	APHA 23rd Edition 5220 B Open reflux method: 2017	14

BLQ –Below limit of quantification.  
LOQ- Limit of quantification

*Chandrika*  
9/9/2022

**Verified & Authorized Signatory**  
**Name** : Dr. D. Chandrika  
**Designation:** Technical Manager



\*\*\*End of Report\*\*\*

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## CUBE ENVIRONMENT LABORATORY

A Division of Centre for Urbanization, Buildings & Environment



TC-9323

### Test Report

Issued to (Customer Name & Address):	Report Details
The Commissioner, Trichy City Corporation, Tiruchy-620001	Report No : CEL/2022/049
	Report Date : 09.09.2022
	Sample Code No. : 202209NW049
Sample Type: Water- Zone-3 Thaamarai Kulam Ward No:38	Sample Received On : 01.09.2022
Sample Drawn /Quantity : Customer -/2L	Test Commenced On : 01.09.2022
Invoice No : CEL/EXT-INV/ 22-23-028	Test Completed On : 09.09.2022

S. No	Parameter	Unit	Test Method	Result
1.	Colour	Hazen	IS 3025 part 4-1983 RA : 2017	5
2.	Odour	Agreeable/ Disagreeable	IS 3025 : Part 5 : 2018	Agreeable
3.	Turbidity	NTU	IS 3025 part 10-1984 RA: 2017	BLQ(LOQ:0.1)
4.	pH @ 25° C	-	IS 3025 Part 11-1983 RA : 2017	8.35
5.	Electrical Conductivity	us/cm	IS 3025 Part 14-1984 RA : 2019	735
6.	Total Dissolved Solids	mg/L	IS 3025 part 16-1984 RA : 2017	410
7.	Total Hardness as CaCo3	mg/L	IS 3025 part 21-2009 RA : 2019	178
8.	Total Alkalinity as CaCO3	mg/L	IS 3025 part 23-1986 RA: 2019	71
9.	Calcium as Ca	mg/L	IS 3025 part 40-1991 RA : 2019	38
10.	Magnesium as Mg	mg/L	IS 3025 part 46-1994 RA: 2019	20
11.	Sodium as Na	mg/L	IS 3025 part 45-1993 RA: 2019	25
12.	Potassium as K	mg/L	IS 3025 part 45-1993 RA : 2019	12
13.	Iron as Fe	mg/L	IS 3025 part 53-2003 RA: 2019	BLQ(LOQ:0.05)
14.	Free Ammonia as NH3	mg/L	IS 3025 part 34-1988 RA: 2019	1.8

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S. No	Parameter	Unit	Test Method	Result
15.	Nitrite as NO <sub>2</sub>	mg/L	IS 3025 part 34-1988 RA : 2019	0.6
16.	Nitrate as NO <sub>3</sub>	mg/L	APHA 23rd Edition - 4500-NO3- B: 2017:: 2017	6
17.	Chloride as Cl	mg/L	IS 3025 part 32-1988 RA: 2019	133
18.	Fluoride as F	mg/L	APHA 23rd Edn :sec4500F-D	0.3
19.	Phosphate as PO <sub>4</sub>	mg/L	IS 3025 part 31-1988 RA: 2019	2.2
20.	Sulphate as SO <sub>4</sub>	mg/L	APHA 23rd Edition :So4 :4500 E :Turbidimetric method: 2017	36

BLQ –Below limit of quantification.

LOQ- Limit of quantification

*Dr. D. Chandrika*  
9/9/2022

**Verified & Authorized Signatory****Name** : Dr. D. Chandrika**Designation:** Technical Manager

\*\*\*End of Report\*\*\*

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## CUBE ENVIRONMENT LABORATORY

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### Test Report

Issued to (Customer Name & Address):	Report Details
The Commissioner, Trichy City Corporation, Tiruchy-620001	Report No : CEL/2022/049-049
	Report Date : 09.09.2022
	Sample Code No. : 202209NW049
Sample Type: Water- Zone-3 Thaamarai Kulam Ward No:38	Sample Received On : 01.09.2022
Sample Drawn /Quantity : Customer -/2L	Test Commenced On : 01.09.2022
Invoice No : CEL/EXT-INV/ 22-23-028	Test Completed On : 09.09.2022

S. No	Parameter	Unit	Test Method	Result
1.	Chemical Oxygen Demand	mg/L	IS 3025 part 44-1993 RA : 2019	48
2.	Biochemical Oxygen Demand at 27°C For 3days	mg/L	APHA 23rd Edition 5220 B Open reflux method: 2017	11

BLQ –Below limit of quantification.

LOQ- Limit of quantification

*Chandrika*  
9/9/2022

**Verified & Authorized Signatory**  
**Name** : Dr. D. Chandrika  
**Designation:** Technical Manager



\*\*\*End of Report\*\*\*

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