

# Water Analysis Report



## Regional Water Analysis Laboratory

(An NABL Accredited Laboratory)  
Ganga Pollution Control Unit Campus,  
U. P. Jal Nigam (Rural), Bhagwanpur, Lanka,  
Varanasi-221005



TC-9938

Report No.: C/VNS/JUL23/07 Date: 21.07.2023 No. of Pages: 1

Office Name and Address: Amar Memorial, St. George's Preparatory School, Sa10/14, A-2 Ganj, Sarnath- Varanasi-221007  
Ref. Letter No. & Date: F. SGPS/GEN/23-24 Date: 18.07.2023

Basic Details of Sample			
District	Varanasi	Block	NA
Gram Panchayat	NA	Village	NA
Habitation	NA	Location	Sarnath- Varanasi
Water Source	Submersible	Sample Code	VNS/JUL23/7
Quantity of Sample	1000 mL (Normal)	Sampling date	18.07.2023
Sample Received Date	18.07.2023	S. collected by	Mr Ram Surat Patel
Sampling Method Used	NA	Sample Depositor	Mr Ram Surat Patel
Analysis Start Date	19.07.2023	Analysis Completion date	19.07.2023

S. No.	Analysed Parameters	Observed Value	Specification as per IS 10500:2012 (Second Revision)		Ref. Methods of Analysis
			Acceptable Limit	Permissible Limit	
			4	5	6
1	2	3	4	5	6
1	pH	7.22	6.5-8.5	6.5-8.5	IS 3025 (Part 11): 2022, Electrometric Method
2	Colour (Hazen units)	NA	5	15	APHA 23rd Edition -2120- Colour Method B (Platinum Cobalt Visual Comparison): 2017
3	Turbidity (NTU)	1.7	1	5	IS 3025 (Part 10): 1984 (Nephelometric method)
4	Total Dissolved Solids, mg/l	382.67	500	2000	IS 3025 (Part 16): 1984, Gravimetric method
5	Chloride (as Cl), mg/l	18.67	250	1000	IS 3025 (Part 32): 1988, Argentometric method
6	Total Alkalinity, (as CaCO <sub>3</sub> ) mg/l	344.00	200	600	IS 3025 (Part 23):1986 (Potentiometric and indicator method)
7	Total Hardness, (as CaCO <sub>3</sub> ) mg/l	190	200	600	IS 3025 (Part 21): 2009, EDTA method
8	Calcium (as Ca), mg/l	55.49	75	200	IS 3025 (Part 40): 1991 EDTA Titrimetric method
9	Magnesium (as Mg), mg/l	12.96	30	100	IS 3025 (Part 46): 1994 (Volumetric method)
10	Sulphate (as SO <sub>4</sub> ), mg/l	9.92	200	400	APHA 23rd Edition -4500-SO <sub>4</sub> Method E (Turbidimetric Method): 2017
11	Nitrate (as NO <sub>3</sub> ), mg/l	10.91	45	No relaxation	APHA 23rd Edition -4500- NO <sub>3</sub> Method B (UV Screening Method): 2017
12	Fluoride (as F), mg/l	NA	1.0	1.5	APHA 23rd Edition -4500-F Method C (Ion-Selective Electrode Method): 2017
13	Iron (as Fe), mg/l	BDL (0.03)	1.0	No relaxation	APHA 23rd Edition -3500-Fe Method B (Phenanthroline Method): 2017
14	Total Arsenic (as As), mg/l	NA	0.01	No relaxation	APHA 23rd Edition -3500 Method B (Silver Diethyldithiocarbamate Method): 2017

All These parameters are under NABL Scope, BDL-Below Detection Limit, NA- Not Analysed

**Note:**

- This certificate refers only to the particular sample(s) submitted for analysis.
- This certificate shall not be reproduced, except in full, unless written permission for the publication of an approved abstract has been obtained from Head of Laboratory.
- The analysis results reported in this certificate are valid at the time of and under the stated conditions of measurements.
- Sample(s) will be stored up to 07 days (in case of non-perishable items only) from the date of issue of analysis reports, unless otherwise specified.
- Parameters above Permissible Limit are written in **bold**.
- Sample(s) with any parameter value above Accepted Limit will only be used for oral consumption, if no other source is available.
- Sample is not Collected by Lab.

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**VIVEK KUMAR**  
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**Quality Manager**

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\*\*\*\*\*END OF THE ANALYSIS REPORT\*\*\*\*\*