



TEST REPORT

DRINKING WATER SAMPLE ANALYSIS REPORT

TEST REPORT NO: QF/7.8/01 A/DRINKING WATER/KAP5/Rev.0-00/03-2024

Name of the Industry	: M/s. Nuclear Power Corporation of India Limited Kakarapar Atomic Power Station
Sample Description	: Drinking Water
Sampling Point	: AEC School
Mode of sampling	: Grab
Sample Collected on	: 20/03/2024
Sample Received on	: 21/03/2024
Sample Analyzed & Completion	: 21/03/2024 to 23/03/2024
Sample ID No.	: ERM/EXT/2024/03/3791
Quantity/No. of Sample	: 2+2+1 Liters in polyethylene carboys and 250 mL in sterilized bottle /4 Nos.
Protocol (Purpose)	: As per work order
Packing/ Seal	: Packed
Sample collected by	: ERM- Bhavesh Patel and team

Sr. No.	Parameters	Unit	Result	Drinking Water - Specification IS 10500: 2012		Test Method
				Acceptable Limit	Permissible Limit in the absence of alternate source	
1.	pH at 25 ^o C	pH Unit	7.12	6.5 – 8.5	No Relaxation	IS 3025 (Part 11):1983 (Reaffirmed 2017)
2.	Color	Hazen	<5	5	15	APHA 23 rd Edition.- 2017, Part - 2000 Section : 2120-C
3.	Odor	--	Odorless	Agreeable	Agreeable	IS 3025 (Part-5):1983 (Reaffirmed 2002)
4.	Taste	--	Agreeable	Agreeable	Agreeable	IS 3025 (Part-8):1984 (Reaffirmed 2002)
5.	Total Dissolved Solids (TDS) at 180 °C	mg/L	250	500	2000	IS 3025 (Part 16):1984 (Reaffirmed 2017)
6.	Turbidity	NTU	<1.0	1.0	5.0	APHA 23 rd Edition -2017, Part 2000 Section: 2130-B,
7.	Total Hardness as CaCO ₃	mg/L	132	200	600	IS 3025 (Part 21):2009 (Reaffirmed 2014)
8.	Calcium (as Ca)	mg/L	25	75	200	IS 3025 (Part 40):1991 (Reaffirmed 2014)
9.	Magnesium (as Mg)	mg/L	17	30	100	IS 3025 (Part 46):1994 (Reaffirmed 2014)
10.	Total Alkalinity as CaCO ₃	mg/L	98	200	600	IS 3025 (Part 23):1986 (Reaffirmed 2014)

Remark: Results expressed as < indicate that they are below detection limit.

(P.T.O)

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Date of Sampling : 20/03/2024

Sample ID No. : ERM/EXT/2024/03/3791

Name of Industry : M/s. Nuclear Power Corporation of India Limited, Kakrapar Atomic Power Station

Sr. No.	Parameters	Unit	Result	Drinking Water -Specification IS 10500: 2012		Test Method
				Acceptable Limit	Permissible Limit	
11.	Chloride (as Cl)	mg/L	62	250	1000	IS 3025 (Part 32):1988 (Reaffirmed 2014)
12.	Sulphate (as SO ₄)	mg/L	26	200	400	APHA 23 rd Edition- 2017, Part-4000 Section : 4500-E SO ₄ ⁻²
13.	Fluoride (as F)	mg/L	0.5	1.0	1.5	APHA 23 rd Edition- 2017,Part-4000 Section : 4500-F-D
14.	Phenolic Compound as C ₆ H ₅ OH	mg/L	<0.001	0.001	0.002	IS 3025 (Part 43):1992 (Reaffirmed 2014)
15.	Mineral Oil	mg/L	<0.1	0.5	No relaxation	IS 3025 (Part 39) – 1991 (Reaffirmed 2014)
16.	Nitrate as NO ₃ -N	mg/L	<2.0	45	No Relaxation	IS 3025 (part 34) – 1988 (Reaffirmed 2014)
17.	Iron(as Fe)	mg/L	<0.05	0.3	No Relaxation	IS 3025 (Part 53):2003 (Reaffirmed 2014)
18.	Copper (as Cu)	mg/L	<0.01	0.05	1.5	IS 3025 (Part 42):1992 (Reaffirmed 2014)
19.	Manganese as Mn	mg/L	<0.005	0.1	0.3	APHA 23 rd Edition- 2017,Part-3000 Section : 3500-Mn
20.	Mercury as Hg	mg/L	<0.001	0.001	No relaxation	APHA 23 rd Edition - 2017, Part -3000 Section : 3500 Hg (AAS)
21.	Lead as Pb	mg/L	<0.005	0.01	No relaxation	IS 3025 (Part 47) : 1994 (Reaffirmed 2014)
22.	Free Residual Chlorine	mg/L	0.4	Min 0.2	1.0	IS 3025 (Part 26) – 1986 (Reaffirmed 2014)
23.	Total Coliform	Present/ Absent	Absent	Shall not be detectable in any 100 ml of sample	--	APHA 23 rd Edition,2017,Part-9000 Section : 9221 D

Note: (1) These results relate to the sample tested only.

(2) The report shall not be reproduced except in full without written approval of the laboratory.

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S.D. Patel
CHEMIST

AHS
AUTHORIZED SIGNATORY
(Haresh Ahir)

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