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ECOSYSTEM RESOURCE MANAGEMENT PVT. LT
ENVIRONMENT ENGINEERS & AUDITOR
 Issue Date: 11/12/2017

TEST REPORT
DRINKING WATER SAMPLE ANALYSIS REPORT

TEST REPORT NO: ERM/QF/5.10/02 A/DRINKING WATER/KAPS/Rev.0-01/11-2017

Name of the Industry	: 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	: 29/11/2017
Sample Received on	: 30/11/2017
Sample Analyzed & Completion	: 30/11/2017 to 05/12/2017
Sample ID No.	: ERM/2017/11/1145
Quantity/No. of Sample	: 2 L + 2 L + 1 L /3 Nos. in Plastic Carboys and 250 mL in Sterilized bottle
Protocol (Purpose)	: As Per Work Order
Packing/ Seal	: Packed
Sample collected by	: Mr. Krishna Patel

S. 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°C	pH Unit	8.04	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 *	--	Unobjectionable	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	214	500	2000	IS 3025 (Part 16):1984 (Reaffirmed 2017)
6.	Turbidity	NTU	0.2	1	5	APHA 23 rd Edition -2017, Part 2000 Section: 2130-B,
7.	Total Hardness as CaCO ₃	mg/L	110	200	600	IS 3025 (Part 21):2009 (Reaffirmed 2014)
8.	Calcium (as Ca)	mg/L	30	75	200	IS 3025 (Part 40):1991 (Reaffirmed 2014)
9.	Magnesium (as Mg)	mg/L	9.0	30	100	IS 3025 (Part 46):1994 (Reaffirmed 2014)
10.	Total Alkalinity as CaCO ₃	mg/L	140	200	600	IS 3025 (Part 23):1986 (Reaffirmed 2014)

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11.	Chloride (as Cl)	mg/L	27.4	250	1000	IS 3025 (Part 32):1988 (Reaffirmed 2014)
12.	Sulphate(as SO ₄)	mg/L	2.7	200	400	APHA 23 rd Edition- 2017, Part-4000 Section : 4500-E SO ₄ ⁻²
13.	Fluoride (as F)	mg/L	0.3	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	<0.01	0.001	0.002	IS 3025 (Part 43):1992 (Reaffirmed 2014)
15.	Mineral Oil	mg/L	<1.0	0.5	No relaxation	IS 3025 (Part 39) – 1991(Reaffirmed 2014)
16.	Nitrate as NO ₃ -N	mg/L	0.2	45	No Relaxation	IS 3025 (part 34) – 1988 Reaffirmed (2014)
17.	Iron(as Fe)	mg/L	0.16	0.3	No Relaxation	IS 3025 (Part 53):2003 (Reaffirmed 2014)
18.	Copper (as Cu)	mg/L	<0.5	0.05	1.5	IS 3025 (Part 42):1992 (Reaffirmed 2014)
19.	Boron (as B) *	mg/L	BDL	0.5	1.0	APHA 23 rd Edition- 2017,Part-4000 Section : 4500-B
20.	Manganese as Mn *	mg/L	BDL	0.1	0.3	APHA 23 rd Edition- 2017, Part-3000 Section : 3500-Mn
21.	Mercury as Hg	mg/L	BDL	0.001	No relaxation	APHA 23 rd Edition - 2017, Part -3000 Section : 3500 Hg (AAS)
22.	Cadmium as Cd	mg/L	BDL	0.003	No relaxation	IS 3025 (Part 41): 1992 (Reaffirmed 2014)
23.	Total Arsenic as As *	mg/L	BDL	0.01	0.05	APHA 23 rd Edition - 2017, Part-3000 Section : 3500-As
24.	Cyanide as CN *	mg/L	BDL	0.05	No relaxation	APHA 23 rd Edition - 2017 Part-4000 Section : 4500-CN- D,E
25.	Lead as Pb	mg/L	BDL	0.01	No relaxation	IS 3025 (Part 47) : 1994 (Reaffirmed 2014)
26.	Total Chromium (as Cr)	mg/L	BDL	0.05	No Relaxation	IS 3025(Part 52) :2003 (Reaffirmed 2014)
27.	Zinc (as Zn)	mg/L	BDL	5	15	IS 3025 (Part 49) : 1994 (Reaffirmed 2014)
28.	Free Residual Chlorine	mg/L	0.2	Min 0.2	1.0	IS 3025 (Part 26) – 1986 (Reaffirmed 2014)
29.	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

Remark: (1) Sampling and analysis carried out as per IS 3025 & APHA. (2) Chlorine was analyzed on site. (3)BDL = Below Detection Limit

S.P. Patil
CHEMIST

Sunilkumar Pandey
AUTHORIZED SIGNATORY
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Page 2 of 2

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