



No.C-14011/CPCB/AQC-31/Water/68

Dated: 15th April, 2015

LABORATORY DIVISION – WATER LABORATORY
31st PROFICIENCY TESTING PROGRAMME – WATER – DECEMBER, 2014

REPORT

Laboratory Address : The Laboratory Incharge
Maharashtra Pollution Control Board,
Regional Office Laboratory
5th Floor, Udyog Bhavan, Civil Lines
NAGPUR – 440 001

Laboratory Code :68

S.No.	Test Parameter	Unit	Sample	Reference Value	SD (NIQR Basis)	Lab's result	Lower Accept. Limit	Higher Accept. Limit	Robust Z-score	Remarks (Y/N/NR)
1	Conductivity	mg/l	A	226	14.08	214	197.83	254.17	-0.85	Y
			B	143	7.89	134	127.23	158.77	-1.14	Y
2	T Hardness	mg/l	A	72	7.06	67	57.88	86.12	-0.71	Y
			B	46	5.83	44	34.34	57.66	-0.34	Y
3	Chloride	mg/l	A	25	2.89	24.5	19.11	30.68	-0.14	Y
			B	17	2.47	16.5	12.00	21.89	-0.18	Y
4	Fluoride	mg/l	A	1.47	0.23	1.73	1.02	1.92	1.15	Y
			B	0.82	0.14	0.78	0.53	1.11	-0.28	Y
5	Sulphate	mg/l	A	40	3.25	40	33.60	46.60	-0.03	Y
			B	23	3.00	22	16.95	28.95	-0.32	Y
6	Calcium	mg/l	A	12	2.07	11.2	7.88	16.16	-0.40	Y
			B	8	1.46	7.2	5.10	10.94	-0.56	Y
7	Magnesium	mg/l	A	10	1.20	9.5	7.60	12.40	-0.42	Y
			B	6	1.25	6.32	3.80	8.81	0.01	Y
8	Boron	mg/l	A	0.99	0.21	1.15	0.58	1.41	0.76	Y
			B	1.88	0.24	2.13	1.39	2.37	1.03	Y
9	Cr ¹⁵	mg/l	A	0.74	0.07	0.75	0.59	0.89	0.13	Y
			B	0.38	0.04	0.38	0.30	0.46	0.00	Y
10	TSS	mg/l	A	90	5.19	91	79.62	100.38	0.19	Y
			B	144	7.41	146	129.17	158.83	0.27	Y
Overall performance in %										100

Note: Acceptable limits are fixed based on Reference value (Median) \pm 2 Standard Deviation (NIQR basis) i.e. within \pm 2 Z Scores values for both sample A & B individually.

IQR (Inter Quartile Range) = Q3-Q1;

Q1 = 1st Quartile; Q3 = 3rd Quartile


NIQR (Normalized IQR) = IQR x 0.7413 = 1 Standard Deviation

Z Score = (Observed value - Reference Value) / 1 Standard Deviation

Y - Within Acceptable Limit;

N - Not within acceptable limit,

NR - Not Reported


(Dr. P. K. Belhera)
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