



No.C-14011/CPCB/AQC-31/Water/67

Dated: 20th 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
A-4/1, Behind Dhoot Hospital, MIDC - Chikalhana
AURANGABAD – 431 005

Laboratory Code : 67

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	244	13.91	210.2	216.18	271.82	-2.51	N
			B	184	14.71	168.3	154.57	213.43	-1.10	Y
2	T Hardness	mg/l	A	94	4.89	96	84.36	103.94	0.30	Y
			B	68	8.90	70	50.21	85.79	0.22	Y
3	Chloride	mg/l	A	35	3.70	35.5	28.03	42.81	0.05	Y
			B	28	3.45	27.5	21.02	34.81	-0.12	Y
4	Fluoride	mg/l	A	1.78	0.24	1.87	1.30	2.26	0.36	Y
			B	1.00	0.14	0.95	0.72	1.28	-0.35	Y
5	Sulphate	mg/l	A	43	5.30	41.47	32.41	53.50	-0.20	Y
			B	27.02	4.61	29.71	17.80	36.23	0.59	Y
6	Calcium	mg/l	A	19	1.49	17.63	16.02	21.98	-0.92	Y
			B	14	1.61	12.82	11.08	17.52	-0.92	Y
7	Magnesium	mg/l	A	11	1.19	12.62	8.94	13.70	1.09	Y
			B	7	1.19	9.22	5.09	9.87	1.46	Y
8	Boron	mg/l	A	3.30	1.14	3.42	1.02	5.57	0.11	Y
			B	2.12	0.37	1.99	1.38	2.86	-0.35	Y
9	Cr ⁺⁶	mg/l	A	0.29	0.06	0.29	0.17	0.41	0.00	Y
			B	0.55	0.04	0.56	0.47	0.63	0.24	Y
10	TSS	mg/l	A	91	6.76	87.20	77.48	104.52	-0.56	Y
			B	146	571	146	134.98	157.82	-0.07	Y
Overall performance in %										
95										

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. Behera)
Scientist 'C' &
I/c. Water Lab