



No.C-14011/CPCB/AQC-31/Water/27

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,
Central Laboratory, Nirmal Bhavan,
Plot No. 3, TTC MIDC Sheel - Mahape Road
NAVI MUMBAI - 400 710

Laboratory Code :27

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	192.9	197.83	254.17	-2.35	N
			B	143	7.89	128.2	127.23	158.77	-1.88	Y
2	T Hardness	mg/l	A	72	7.06	68	57.88	86.12	-0.57	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	17	12.00	21.89	0.02	Y
4	Fluoride	mg/l	A	1.47	0.23	1.801	1.02	1.92	1.46	Y
			B	0.82	0.14	0.8903	0.53	1.11	0.49	Y
5	Sulphate	mg/l	A	40	3.25	40.876	33.60	46.60	0.24	Y
			B	23	3.00	21.3	16.95	28.95	-0.55	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	9.722	7.60	12.40	-0.23	Y
			B	6	1.25	6.32	3.80	8.81	0.01	Y
8	Boron	mg/l	A	0.99	0.21	1.066	0.58	1.41	0.35	Y
			B	1.88	0.24	2.128	1.39	2.37	1.02	Y
9	Cr ⁺⁶	mg/l	A	0.74	0.07	0.662	0.59	0.99	-1.05	Y
			B	0.38	0.04	0.3515	0.30	0.46	-0.70	Y
10	TSS	mg/l	A	90	5.19	90.34	79.62	100.38	0.07	Y
			B	144	7.41	148.81	129.17	158.83	0.65	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) = IQRx0.7413 = 1 Standard Deviation

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

Y - Within Acceptable Limit;

N- Not within acceptable limit;

NR - Not Reported

(Signature)
(Dr. P. K. Behera)
Scientist 'C' &
I/c. Water Lab