



No.C-14011/CPCB/PT-29/Water/27

Dated: 04th July, 2013

LABORATORY DIVISION - WATER LABORATORY
29th PROFICIENCY TESTING PROGRAMME - WATER - FEBRUARY, 2013

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.	TDS	mg/l	A	107.50	12.2	94	83.04	131.96	-1.10	Y
			B	135.00	18.0	114	99.05	170.95	-1.17	Y
2.	FDS	mg/l	A	66.00	13.3	61	39.31	92.69	-0.37	Y
			B	92.50	14.1	90	64.33	120.67	-1.17	Y
3.	TKN	mg/l	A	4.31	1.7	1.85	0.90	7.72	-1.44	Y
			B	6.66	1.4	6.16	3.84	9.48	-0.35	Y
4.	NH ₃ -N	mg/l	A	1.91	1.16	0.51	1.50	4.22	-1.21	Y
			B	3.56	0.82	3.06	1.92	5.19	-0.61	Y
5.	Sodium	mg/l	A	9.57	1.6	9.40	6.36	12.77	-0.10	Y
			B	18.00	1.6	18.60	14.74	21.26	0.37	Y
6.	Potassium	mg/l	A	13.85	1.3	13.70	11.28	16.42	-0.12	Y
			B	18.10	1.4	18.10	15.36	20.84	0	Y
7.	PO ₄ -P	mg/l	A	0.16	0.07	0.11	0.02	0.30	-0.71	Y
			B	0.31	0.05	0.38	0.20	0.42	1.25	Y
8.	COD	mg/l	A	147.00	7.7	147	131.52	162.48	0	Y
			B	104.00	5.9	101	92.14	115.86	-0.51	Y
9.	BOD	mg/l	A	74.00	13.9	71	46.25	101.75	-0.22	Y
			B	47.00	11.1	48	24.76	69.24	0.09	Y
10.	pH	mg/l	A	4.01	0.04	4	3.93	4.08	-0.26	Y
			B	9.18	0.07	9.2	9.05	9.31	0.30	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 \times 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