



No.C-14011/CPCB/PT-30/Water/27

Date: 30th April, 2014

LABORATORY DIVISION – WATER LABORATORY
30th PROFICIENCY TESTING PROGRAMME – METAL – DECEMBER, 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.	IRON	mg/l	A	1.11	0.13	1.11	0.86	1.36	0.00	Y
			B	3.34	0.42	3.42	2.50	4.18	0.23	Y
2.	CADMIUM	mg/l	A	0.34	0.04	0.39	0.27	0.41	1.38	Y
			B	0.93	0.06	0.95	0.80	1.06	0.95	Y
3.	COPPER	mg/l	A	1.07	0.09	1.13	0.88	1.26	0.11	Y
			B	4.32	0.23	4.42	3.65	4.79	0.43	Y
4.	NICKEL	mg/l	A	1.13	0.09	1.21	0.94	1.31	0.87	Y
			B	3.34	0.26	3.54	2.81	4.87	0.75	Y
5.	LEAD	mg/l	A	1.67	0.22	1.97	1.24	2.10	1.38	Y
			B	3.34	0.31	3.78	2.72	3.96	1.41	Y
6.	MAGNESE (Mn) mg/l	mg/l	A	0.54	0.06	0.63	0.43	0.65	1.62	Y
			B	3.30	0.23	3.51	2.84	3.75	0.94	Y
Overall performance in %										100.0

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' &
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