



No.C-14011/CPCB/PT-30/Water/68

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,
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.	IRON	mg/l	A	1.11	0.13	1.18	0.86	1.36	0.58	Y
			B	3.34	0.42	3.46	2.50	4.18	-0.74	Y
2.	CADMIUM	mg/l	A	0.34	0.04	0.32	0.27	0.41	-0.69	Y
			B	0.93	0.06	0.88	0.80	1.06	0.88	Y
3.	COPPER	mg/l	A	1.07	0.09	0.98	0.88	1.26	0.06	Y
			B	4.32	0.23	4.21	3.85	4.79	-0.47	Y
4.	NICKEL	mg/l	A	1.13	0.09	1.13	0.94	1.31	-0.01	Y
			B	3.34	0.26	3.51	2.81	3.87	0.64	Y
5.	LEAD	mg/l	A	1.67	0.22	1.64	1.24	2.10	-0.14	Y
			B	3.34	0.31	4.54	2.72	3.96	3.87	N
6.	MAGNESE (Mn) mg/l	mg/l	A	0.54	0.06	0.53	0.43	0.65	-0.16	Y
			B	3.30	0.23	3.31	2.84	3.75	0.06	Y
Overall performance in %										
91.7										

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) = $Q_3 - Q_1$; Q_1 = 1st Quartile; Q_3 = 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