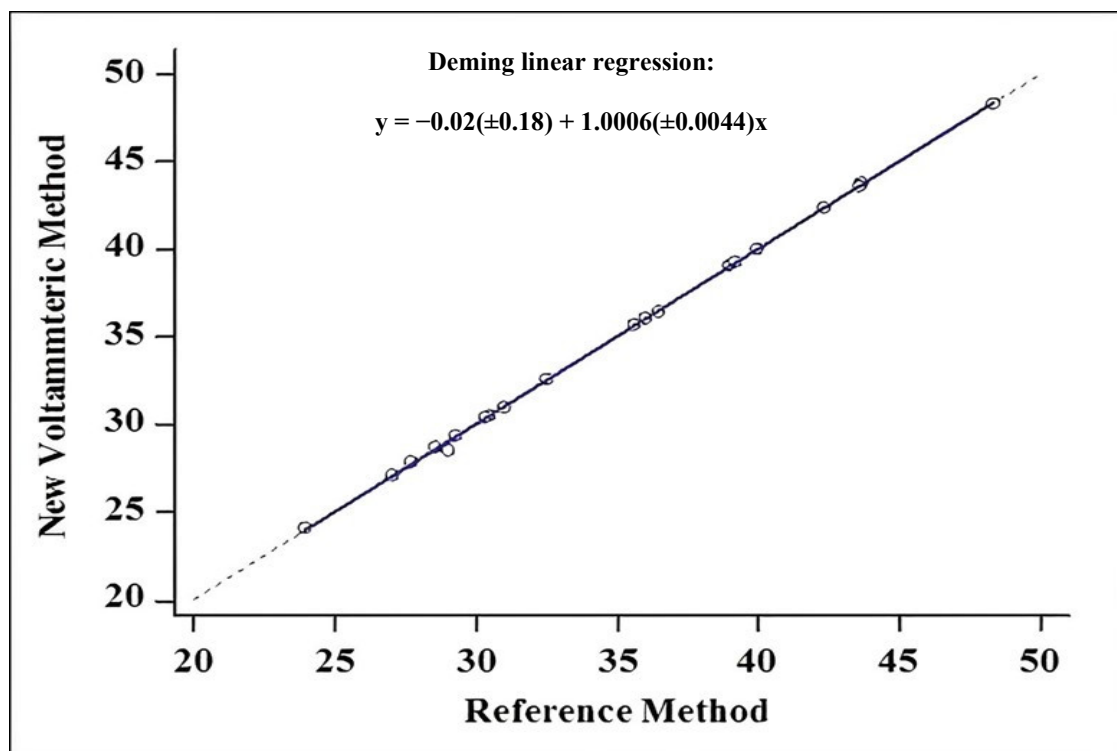**Table S1.** Statistical comparison of new voltammetric method against a reference method for Hg (II) analysis in chlor-alkali industrial effluent.

Statistical parameters		Reference method	New method	Reference verses new method
Pearson coefficient				1.00
Is relationship significant?				Yes
Regression method				Weighted Deming linear regression
Slope(a) Intercept(b)				a = 1.0006 b = −0.02
Skewness	Statistic	0.36	0.37	
	Standard error	0.51	0.51	
Kurtosis	Statistic	−0.83	0.99	
	Standard error	−0.82	0.99	
Shapiro-Wilk	*P*-value	0.46	0.43	
Paired Differences	Mean			−0.013
	Standard deviation			0.12
Calculated t value				−0.49
Tabulated t value				2.09
Degree of freedom (df)				19
P-value for paired t test				0.62
Relative standard deviation (RSD)%		0.17	0.19	
Median relative error (MRE)%				−1.75 to 0.02
Root mean square error (RMSE)				0.12
Predicted residual sum of square (PRESS)				0.99

Figure S1.   Weighted Deming regression plot between the new voltammetric and reference

method.