

Title:

A Comparative study of heavy metal pollution in ambient air and the health risks assessment in industrial, urban and semi-urban areas of West Bengal, India: An Evaluation of carcinogenic, non-carcinogenic, and additional lifetime cancer cases

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Table S1. Component loadings of principal component analysis (PCA) in Bolpur (sampling time December 2021 to June 2022)

Metal	PC1	PC2	PC3	Uniqueness
Ni	0.957			0.075
Cr	0.876	-0.433		0.013
Pb	-0.799		0.495	0.090
Mn	0.767		0.558	0.090
Cd		0.852		0.137
As		0.832		0.147
Eigenvalue	3.020	1.648	0.780	
Proportion var.	0.503	0.275	0.130	

var. = Variance

Table S2. Component loadings of principal component analysis (PCA) in Durgapur (sampling time December 2021 to June 2022)

Metal	PC1	PC2	PC3	Uniqueness
Cr	0.995			0.000
Ni	0.979			0.007
Pb	0.964			0.000
As	0.937			0.001
Mn	0.935			0.017
Cd		0.994		0.002
Eigenvalue	4.640	1.182	0.149	
Proportion var.	0.773	0.197	0.025	

Table S3. Component loadings of principal component analysis (PCA) in Kolkata (sampling time December 2021 to June 2022)

Metal	PC1	PC2	PC3	Uniqueness
Cd	0.945			0.011
As	0.923			0.045
Pb	0.884			0.066
Ni	0.798			0.257
Cr	-0.748		0.542	0.053
Mn		0.881		0.031
Eigenvalue	3.826	1.213	0.498	
Proportion var.	0.638	0.202	0.083	