

in air tight polythene bags water sample store in plastic bottles and keep in cool place and there both were labeled.

We used AAS for analysis of heavy metals in soil and water, because of high accuracy of AAS. The result will be in ppm and ppb. The reason behind using AAS is that it can detect the target metal in present of many metals.

4. Result and Conclusion

The table below shows the results. It can be seen from the table II that the concentration of heavy metal in water is negligible as compared to soil of respective area.

Table 2: Observed heavy metal in mg/kg in Sample

Metal Location	Iron		Cromium		Nickel		Cupper		Zink		Lead		Manganese		Cadmium	
	Soil	Water	Soil	Water	Soil	Water	Soil	Water	Soil	Water	Soil	Water	Soil	Water	Soil	Water
Pologround near Police petrol pump	5.100	NIL	0.707	NIL	0.416	NIL	0.432	NIL	0.686	0.006	0.589	NIL	2.6	NIL	NIL	NIL
AB Road Manglia Cement Roofing Industry	3.450	NIL	0.472	NIL	0.298	NIL	0.495	NIL	1.320	NIL	2.231	NIL	1.9	NIL	NIL	NIL
AB Road Manglia Indian Oil Corporation	3.558	0.498	1.587	NIL	.0597	NIL	0.264	NIL	0.630	0.064	0.234	0.028	2.5	1.206	NIL	NIL
AB Road Manglia Pond in front of Sanchi Milk Industry	4.527	0.049	0.745	NIL	0.669	NIL	0.293	NIL	0.426	NIL	0.170	NIL	3.47	0.245	NIL	NIL
Sanwer road Poultry farm	3.830	NIL	0.395	NIL	0.399	NIL	0.631	NIL	1.630	0.002	5.526	0.380	2.5	NIL	NIL	NIL
Holker science Collage	0.530	NIL	0.093	NIL	0.592	NIL	0.160	NIL	0.235	0.020	0.309	NIL	2.6	NIL	NIL	NIL
Greater Vaishali	5.102	0.051	0.505	NIL	0.443	NIL	0.378	NIL	0.359	0.022	0.125	NIL	2.9	NIL	NIL	NIL

The results were also compared with permissible limits of heavy metal in water and soil standardized by international organization WHO and it was found that the concentration of Fe, Ni, Pb, Cr, Mn. metal are exceeding permissible limit in all locations and concentration of heavy metal in water is under limit except iron in water of oil industry

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