Thesis Summary: Islamabad Air Quality

This study analysed seasonal trends in ambient air pollutants across Islamabad from Mar 2022 to Feb 2023 using HAZ-Scanner HIM-6000. Six pollutants were measured (PM_{10}, SO_2, NO_2, NO, CO, O_3) and compared against WHO and Pakistan NEQs standards.

Key Findings:

- PM_{10} peaked in January (171 µg/m^3)

- SO_2 in March exceeded PAK-NEQs by 12.8x (473 µg/m^3)

- O_3 8-hour levels in March exceeded WHO by 512%

- Temperature showed positive correlation with SO_2 and NO

- Spearman's rank used for correlation analysis