

Title: Air Pollution or Gases Behind Toxicity for People Awareness

Author Names: Munira Ferdous, Mayen Uddin Mojumdar, Narayan Ranjan Chakraborty & Touhid Bhuiyan

Abstract: A report by world quality showed Bangladesh was ranked the second most air polluted country in 2019. The PM_{2.5} intensity on typical was 83.3 µg per cubic meter. Forests and trees are being cut down for creating buildings. Deforestation impacts badly the air quality of Bangladesh. Another reason for air pollution is overpopulation. Dhaka is one of the most overpopulated cities in Bangladesh. Air quality in Dhaka is 200 micrograms per cubic meter. In this research, we've collected some of the most common and dangerous gases, their toxicity, and their effect on the human body. For a healthy atmosphere air quality should be in the range of Nitrogen (N₂) 78.084, Oxygen (O₂) it is 20.947, Argon (Ar) – 0.934, and Carbon dioxide (CO₂) 0.0314 and the others. If the percentage is high then the air becomes polluted. In this paper, we show the main gases in the Dhaka area. We collected the data for CO₂, CO, SO₂, O₃, NH₂, and PM_{2.5} in Air for awarding about the pollution. The objective is to create public awareness through mobile applications or show air pollution's impact on everyday life. This paper suggested working with govt. or non-govt. environmental organizations to carry out necessary steps.

Keywords: Air pollution in Bangladesh PM2.5 concentration Urban air quality monitoring Toxic gases and human health Environmental awareness and mitigation

https://link.springer.com/chapter/10.1007/978-981-99-8937-9_63