

**O 150. A RESEARCH OF PARTICLE MATTER LEVEL FROM QUARRIES INDUSTRY IN
KONYA “ANKARA ROAD” DISTRICT**

Rahime Atasagun¹, Sukru Dursun²

¹*Konya Province Directorate of Environment and Urbanisation, Selçuklu Konya, Turkey;*

²*Environmental Engineering Department, Engineering & Natural Science Faculty, Konya Technical
University, Konya, Turkey*

E-mail: rahime.atasagun@csb.gov.tr, sdursun@selcuk.edu.tr

ABSTRACT: Air quality is affected by many types of pollutants that are emitted from various sources, including stationary and mobile. These sources release both criteria and hazardous air pollutants, which cause health effects, ecological harm, and material damage. They are generally categorized as either particulates or gas-phase pollutants. Air pollution increases the risk of respiratory and heart disease in the population. Both short- and long-term exposure to air pollutants have been associated to health impacts. One of the air pollutants is Particulate Matter (PM) that can be found in the air as primary or secondary, by their formation's type. Particles smaller than 10 microns in diameter with air we breathe easily enter our respiratory tracts and cause various damages. In Konya, the points to sample the stone quarries and the crusher facilities determined for “Ankara Road” and the "Tecora" device had measured PM₁₀ and PM_{2.5} for six months. Measurements was done with "Tecora" brand dust meter, PM_{2.5} and PM₁₀ particulate matter suspended in the atmospheric environment has the feature of continuous measurement and recording.

Keywords: Air Pollution, Particulate Matter (PM), Modelling, Quarries Industry, Health