

**P 25. ASSESSMENT OF PARTICULATE MATTER AND CRUSHED POWDER IN  
INDUSTRIAL AREA OF VAN PROVINCE**

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**ABSTRACT:** In this study, air pollutant parameters spreading from the ready-mix concrete plant located in Çaldıran District of Van province were investigated within the scope of Particulate Matter (PM<sub>10</sub>) and Decayed Dust Industry Air Pollution Control Regulation of Turkish Republic. TS 2342 standard method for the measurement of precipitated dust was used, while the TS EN 12341 standard method was used to measure Particulate Matter (PM<sub>10</sub>). Mass flow rate of dust emissions from concrete production activities in the ready mixed concrete plant with over one kg/h as a result of mass production. Industrial Air Pollution Control Regulation Annex-2 is higher than the values given in Table 2.1 was performed with AEORMOD modelling programme. According to modelling results; Concrete Production of Ready-Mixed Concrete Plant will originate from Controlled Requirements; Additive value to air pollution of 24 hour particulate matter (PM) emissions is 14,86 µg/m<sup>3</sup>, contribution to air pollution of annual particulate matter (PM) emissions is 0.68 µg / m<sup>3</sup>, 12.36 mg / m<sup>2</sup> / day for collapsing dust emissions and 1.324 mg / m<sup>2</sup> / day for collapsed dust emissions.

*Keywords: Particulate Matter, air quality, Van Province, Industry, air pollution*