

Follow up Indoor Air Quality Assessment, Synopsys, Yerevan-Armenia

EDESSA was commissioned by **Synopsys, Armenia** to conduct a **Follow up Indoor Air Quality Assessment** within the Company's premises consisting of occupied offices consisting of 8,000 m² of open and partitioned space spread over 3 floors and mezzanines. This survey is a follow-up of the survey conducted on January 27 and 28, 2011.

The 2011 Survey encompassed the study of the HVAC system and the actual air quality sampling. The results were compared to the American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE) Standard 55 - 2004 "Thermal Environmental Conditions for Human Occupancy" and the Canadian CSA Standard CAN/CSA Z412-00 - "Office Ergonomics".

The 2011 survey revealed relatively high concentrations of Particulate Matter. In addition, relative humidity was usually lower than recommended values.

The main parameters sampled during this survey were **Particulate Matter (PM), Relative Humidity, Temperature, Carbon Monoxide, Carbon Dioxide, Volatile Organic Compounds (VOC)**.

Temperature and relative humidity were monitored using a Humidity Meter Model (HT-3015) manufactured by Lutron a U.S. based company, with a reading resolution of 0.01% RH and 0.01°C. The remaining parameters were monitored using an EVM-7 multi-parameter logger manufactured by Quest Technologies (a 3M Company).

