

Department : Civil

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Group No: 17

Guided By

**PROF. SUKALPAA  
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## **SMT. S. R. PATEL ENGINEERING COLLEGE, UNJHA**

### **Project Title**

### **AMBIENT AIR QUALITY MONITORING AND ANALYSIS**

#### **Abstract:**

The project investigates the concentration of the pollutants particulate matter (PM10 and PM2.5) and total suspended particulate (TSP) generated from various sources like automobiles, industries over the ambient air quality of the Ahmedabad. As such Ahmedabad is a big city and it is not possible to measure the concentration of these major pollutants in all areas, so we have restricted our study to selected area. The major pollutants as suggested by the Central pollution control board (CPCB) in an industrial area are Sulphur dioxide, oxides of nitrogen (NOX), particulate matter (PM10) and total suspended particulate (TSP). The rate of emission and concentration of these gases in the ambient air is studied by the following laboratory methods – (a) High volume method for determination of TSP in the ambient air, (b) Cyclonic flow technique for the measurement of PM10 and PM2.5. The results will show the concentration of emissions of the above cited gaseous and suspended solid pollutants and will be compared with the permissible concentrations as per the standards given by CPCB for different area and major precautions can be taken to reduce the concentration level of these pollutants.

#### **Prepared By:**

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