

RESEARCH AND DEVELOPMENT

Name of the Researcher	Department	Research Topic	Year of Completion
Dr. Arty K. Dixit Nilesh P. Nandanwar	Department of Applied Chemistry	Evaluation And Impact Of Air Pollutants on Ambient Air Quality in Chandrapur District	Ongoing

BRIEF SUMMARY OF THE WORK: This research work is carried out as a part of Doctoral work at RCERT, Chandrapur under Gondwana University, Gadchiroli. Air pollution is a serious problem in many parts of the world, affecting people and the economy of countries, also causing forest decline, loss in agricultural production and leading to diminished status of the population. Pollution of urban region environment has been assumed that extremely serious proportion in most of the major cities of the country and it is Alarming in Chandrapur district. This work deals with the study of effect of Air Pollutants on ambient air quality in Chandrapur district. The effect of air pollutants can cause reduced visibility, deteriorated air quality, and a threat to human health. Ambient particulate matter (PM) concentrations alone have been linked to such health conditions as asthma, heart attacks, and hospital admissions. The analysis is carried out using standard experiment methods prescribed under NAMP.

The research work is concentrated on evaluation and Impact of air pollutants on ambient air quality in an around Chandrapur. During research work it is observed that there is increase in pollution levels in Chandrapur and nearby area and it threat to human health. Certain precautions should be taken by government by shutting down some industries that can create the pollution in the atmosphere but, it is observed that there is no change in the level of pollution.

The research concludes that, the pollutants present in the atmosphere due to the presence of large number of open cast mining, thermal power station, cement industries, iron industries and heavy vehicular traffic in city due to the mining present in the Chandrapur district and it causes several health problems in human being.

INDUSTRY RELEVANCE : The work is extremely plays an important role in to prevent the air pollution in Chandrapur district and also to prevent their causes on human being.

RESEARCH OUTCOMES : Two Paper in International Journal and Three papers in Proceedings of International/ National Conferences have been published on this research work.