



Fergusson College (Autonomous), Pune

**Department of Science and Technology
Women Scientist Scheme- A (WOS-A)**

Details of Project

<p>Project Title Studies on day-to-day variability of vertical distribution of atmospheric aerosols using Automatic Twilight Photometer.</p> <p>Reference No.: SR / WOS - A / EA - 53 / 2018</p>
<p>Principal Investigator</p> <p>Dr. Pratibha Bhagavanrao Mane Department of Physics</p>
<p>Mentor</p> <p>Dr. Raka Dabhade, Head, Department of Physics</p>
<p>Date of Start: 19 August 2019</p> <p>Total Cost of Project: Rs. 31,44,000.00</p>
<p>Objectives of the Project</p> <ol style="list-style-type: none">1. The Automatic Twilight Photometer is developed and it is proposed to start observations in different seasons using this instrument to understand the day-to-day, monthly and seasonal variability of Aerosol Number Density in the vertical structure of Pune city.2. To take observations during clear sky and cloudy days to study its impact on aerosol density.3. To study impact of weather parameters on tropospheric aerosol loading.4. Inter comparison of Aerosol Number Density with satellite drawn data for troposphere.