ACTIVITIES DETAILS OF THE MoU

Area : **The MoU between N. Wadial College Pune and Ahmednagar College, Ahmednagar**

Title of the Collaborative Activity: **Research Collaboration**

Teachers involved: **Dr Sachin Ralegankar, Ahmednagar College, Ahmednagar and Dr Gajanan Aher, N Wadia College, Pune**

1.0 Introduction: In the present collaborative research project the investigators have studied the Black Carbon particle using Aethelometer. This activity involves sample collection, data analysis, its interpretation and publication. The project was sanctioned by SERB-DST for the period of four years. The investigators acknowledge Dr Pramod Safai, IITM, Pune for his extended contribution.

2.0 Nature of the MoU : The MoU was focusing on collection of the Black Carbon particle using Aethelometer for the three years.

3.0 Activities Details : The activity involves following stages : (i) The research proposal was written and presented before SERB-DST (ii) The sanctioning authority given the 45.92 L amount (iii) The data have been collected, analysed and reported.

4.0 Outcome:

4.1 Project Submission: The research project is submitted to SERB-DST

4.2 PhD Students: Mr Amol Kolhe, research scholar worked under Dr Gajanan Aher for his PhD dissertation. The research degree is at its submission Stage.

4.3 Publication(s) : Under this activity three research articles were published. The research journal named (i) AAQR (Aerosol and Air Quality Research) article title : Aerosol Optophysical Properties: Temporial Variation, Aerosol Type Discrimination and Source Identification (ii) Journal of Atmospheric Solar and Terestial Physics and (iii) Atmospheric Polution Research

4.4 Articles read in Conference: The work under this collaboration was presented at NSS (National Space Symposium) and IASTA (Indian Association for Aerosol Science & Technology_BARC).

4.5 Published articles reviewed:

Journal Name	Article Title	Reviewed/Citation
Aerosol and Air Quality Research	Aerosol Optophysical Properties: Temporial Variation, Aerosol Type Discrimination and Source Identification	Nil
Journal of Atmospheric Solar and Terrestrial Physics	Absorption Properties of Black Carbon Aerosol over Environmentally Distinct Location in South Western India: Temporal, Spectral characterization and source apportionment	06
Atmospheric Pollution Research	Investigation of Aerosol Black Carbon over Semi-Urban and Urban location in South Western India	21

Co-ordinator
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