



"Social Transformation Through Dynamic Education"

Bharati Vidyapeeth's

Dr. Patangrao Kadam Mahavidyalaya, Sangli

Founder :

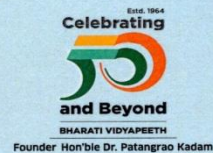
Dr. Patangrao Kadam
M.A., LL.B., Ph.D.

Principal

Dr. D.G. Kanase
M.Sc., Ph.D.

P.O. Box No. 74, Sangli - 416 416 Ph. : 0233-2535229, Fax : 2535993

Email : bv.dpkms@bharatividyaapeeth.edu
Website : www.bvdpkmsangli.edu.in



Accredited with 'B⁺⁺' Grade
by NAAC (3rd Cycle)

FIELD TOUR DEPARTMENT OF MICROBIOLOGY 2022-23

Department of Microbiology, Dr. Patangrao Kadam Mahavidyalaya organized 'Field Tour' on 19th December 2022. It was participated by M. Sc. II students of the department. Notion of field tour was addressing the issue of pollution by collecting air samples from the territory of 'Municipal Corporation Greater Mumbai' Govandi. The citizens in residing in Mumbai plead Mumbai High Court to address the issue of pollution raised due to 'Biomedical Waste treatment Plant' run at Govandi. It was a claim by the citizens through PIL No. 33884/2022 that the 'Municipal Corporation Greater Mumbai' Govandi releases disease causing organisms during incineration of biomedical waste. To verify the claims, the Department of Microbiology organized field tour and M.Sc. II candidates completed the air sampling in the circumference of about 5 km from the source.






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The samples collected were further analysed for presence of pathogens


 (Dr. D. G. Kanase)
 PRINCIPAL,
 Dr. Patangrao Kadam Mahavidyalaya,
 Sangli - 416416 (Sangliwadi)

Study of Air Quality in the Vicinity of Common Biomedical Waste Treatment Facility Center of Govandi, Mumbai

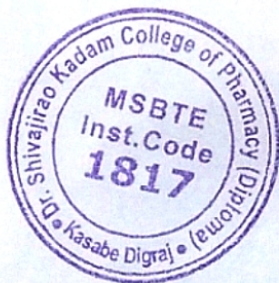
Vikas Shelake, Ashutosh Yadav, Namrata Dongare, Shivani Kshirsagar, Bharat Ballal

Bharati Vidyapeeth's Dr. Patangrao Kadam Mahavidyalaya, Sangli

Abstract

Present researcher and co-authors of the paper, came across with 'Public Interest Litigation' filed by 'Govandi New Sargam Welfare Society', at High Court of Judicature at Mumbai. The litigation demanded for shifting of 'Common Biomedical Waste Facility' of municipal corporation greater Mumbai located at Govandi. Original petition dealt with the emission of toxic gases from the biomedical waste facilitated centre.

Considering survival and of 'Droplets' and 'Droplet nuclei' in air dispersed from treatment plant, authors of this research paper visited the area in the vicinity of the 'Biomedical Waste Treatment Plant'. Air sampling was carried out, for testing presence of disease causing bacteria and fungi in the air. The air samples were collected at the distance of 50 m to 2 km from the incinerator plant including nearby housing societies. Controls were kept for validation of the experiment. Our observation is that 'BMC's Biomedical Waste Treatment Incinerator Govandi Mumbai' emits the disease causing organisms, including *Mycobacterium tuberculosis spp*, *Staphylococcus spp*, *Streptococcus spp*, *Pseudomonas spp*.



Pranav
Dr. P. K. PAWAR
Organising Secretary.