

1. Name: **Dr. Sudhir Krishna Bharati**

2. Date of Birth: **28/05/1970**

3. Current Position and Address: **Principal Scientist**, EMD Department

(with E-mail & Phone no.) CIMFR, Digwadih campus, PO-FRI

Dhanbad-828108.



4. Educational qualifications: **M.Sc. Ph.D (Environmental Sciences)** (Graduation and above)

Sl. No.	Degree/ Certificate	Year of Passing	University/ Institute	Subjects
I	B.Sc	1993	Milind Science College, Aurangabad (MS)	Bot/Chem/Zoo
ii	M.Sc.	1995	Dr. B.A.M. University, Aurangabad (MS)	Envir. Sci.
III.	Ph.D	1998	Dr. B.A.M. University, Aurangabad (MS)	Envir. Sci.

5. Work experience

Designation	Institution/company	From	To	Nature of work
i. JRF	YMC Pune	1996	1998	Sampling, Scanning of bioparticulates

6. Area of specialization: **Environmental Sciences, Aerobiology (Biopollution and Human health)**

7. Honors/Awards received:

8. Fellowships/Scholarships: **Fellow of International Society for Ecological Communication (2009)**

9. No. of Research Publications:

- Papers in journals: 5
- In conference proceedings: 6
- Invited/key-note addresses: 2
- List of best 05 publications:

1. Aerobiological Investigations over Jharia Coalfields–I, S.K.Bharati, Joshy George, L.L.Naik and L.C. Ram Pro. of 1st International Conference on Managing the Social and Environmental Consequences of Coal Mining in India 2007, pp-539-547
2. Characterisation of coalmining area specific house dust mites bio-allergens in the environment of Jharia Coalfields L.L.Naik, PSM. Tripathi, P.K.Mishra and S.K.Bharati J. Environmental Science an Indian Journal Volume 5 (2), 2007, pp-138-147
3. Airborne Algal Bio-Particulates In Jharia Coalfields: Prevalence, Characterization And Their Allergen City L.L.Naik, PSM. Tripathi, P.K.Mishra and S.K.Bharati J. Environmental Science an Indian Journal Volume 5 (6), 2007, pp-138-147
4. Toxic heavy metals in the ambient air of Jharia coalfields Madhu Jha, Sanjoy Misra and S.K.Bharati J. The Ecoscan 4(4), 2010, pp- 305-309
5. A report on Seasonal variation in SPM, SO_x and NO_x in Jharia coalfields. Madhu Jha, Sanjoy Misra and S.K.Bharati J. The Ecoscan 4(4), 2010 pp-281-284.

10. Number of Books authored/edited: 2

11. (a) No. of Patents granted/applied for:: **Copyright 5.**

(b) Technologies developed, Licensed and/or commercialized:

12. Foreign visits: --

13. Details of Professional memberships:

1. Indian Aerobiological Society affiliated to IAA-Life member
2. Vlgyan Bharati- Life member

14 . Major contributions: (Max. 150 words)

Airborne biological particulates like pollen, fungal spores. Algae, etc. are responsible for many allergic diseases in human, plants and animals. In human, respiratory allergies such as bronchial asthma, respiratory tract infection, skin disorders, are common consequences of inhaling these bio-particulates. In India, almost 25-30% population are suffering from various allergies. Vary scanty or no data is available for coalbelt and coal based industrial area/zones. Regional variation and industrial zone of coalfields and coal based industries greatly influence the development of allergic symptoms. Calendars prepared after aerobiological studies for pollen, fungal spores, algae, etc. will help in understanding concentration and seasonal variation at different sites. Possible correlation can be made for treatment of allergies in specific areas.

Airborne biological particulates like pollen, fungal spores. Algae, etc. are responsible for many allergic diseases in human, plants and animals. Calendars prepared after aerobiological studies for pollen, fungal spores, algae, etc. will help in treatment of allergies in specific areas. Following calendars were prepared

1. Pollination calendar of Dhanbad, Bokaro, Hazaribag, Ranchi and Jamshedpur.
2. Pollination calendar of Allergic plant species of Dhanbad, Bokaro, Hazaribag, Ranchi and Jamshedpur.
3. Fungal spore calendar of Dhanbad, Bokaro, Hazaribag, Ranchi and Jamshedpur.
4. Algae calendar of Dhanbad, Bokaro, Hazaribag, Ranchi and Jamshedpur.

15. Technologies and Products/ Services

- (i) Developed:
- (ii) Licensed:
- (iii) Commercialized:

16. Designs and Prototype Developed:

17. Honours and awards won for technological contributions or sociological impact of R&D:

Signature