

## PROFORMA FOR BIO-DATA

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3. Institution: Indian Institute of Technology (ISM) Dhanbad
4. Date of Birth: 04-06-1981
5. Sex: MALE
6. Category (Please tick appropriately): OBC
7. Whether differently abled: NO

8. Academic Qualification:

Sl. No.	Degree	Year	Subjects	University	Percentage
1	B.Tech	2002	Chemical Engineering	University of Madras	77.57%
2	M.Tech.	2005	Environmental Engineering	Pondicherry University	CGPA = 8.47
3.	Ph.D.	2011	Environmental Engineering	IIT, Guwahati	Not applicable

9. Ph.D thesis title, Guide's Name, Institute/Organization/University, Year of Award:

Title of PhD thesis: Traffic Characteristics and Its Impact on Air Quality at Urban Roundabout  
Guides Name: Prof Sharad B Gokhale (Guide) and Prof Aloke Kumar Ghoshal (Co-Guide)  
Institute: Indian Institute of Technology Guwahati  
Year of award: 2011

10. Work experience (in chronological order):

S. No	Positions held	Name of the Institution	From	To	Pay Scale (Basic +AGP)
1.	Assistant Professor	IIT (ISM), Dhanbad	23.06.2011	Till date	15600-39100 With AGP 8000

11. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

S. No	Name of award	Awarding agency	Year
1.	Summer Research Fellowship	Indian Academy of Sciences, Bangalore	2014

12. Publications (List of papers published in SCI Journals, in year wise descending order).

S No	Name of authors	Title of paper	Name of International Journal	Volume/Issue	Page Nos	Year
1	Gupta, S. K., <b>Elumalai, S.P.,</b>	Adverse impacts of fog events during winter on fine particulate matter, CO and VOCs: a case study of a highway near Dhanbad, India	Weather	(DOI: 10.1002/wea.3000)		
2	Srivastava, A., Elumalai, S. P., Raju, E. V. R.,	Relationship in metastasis of coal fire and land use/cover using thermal imagery and support vector machine classifier	Arabian Journal of Geosciences	(DOI: 10.1007/s12517-018-3459-9)		
3	Manisha, Sahu, R., <b>Elumalai, S.P.,</b>	Impact Assessment of Atmospheric Dust on Foliage Pigments and Pollution Resistances of Plants Grown Nearby Coal Based Thermal Power Plants	Archives of Environmental Contamination and Toxicology	74 (1)	56-70	2018
4	Sahu, R., <b>Elumalai, S.P.,</b>	Identifying Speed Hump, a Traffic Calming Device, as a Hotspot for Environmental Contamination in Traffic-Affected Urban Roads	ACS Omega	2 (9)	5434-5444	2017
5	Gupta, S. K., <b>Elumalai, S.P.,</b>	Size-segregated particulate matter and its association with respiratory deposition doses among outdoor exercisers in Dhanbad city, India	Journal of the Air & Waste Management Association	67 (10)	1137-1145	2017
6	Manisha, <b>Elumalai, S.P.,</b> Pal., A.K.,	Determining the Contribution of Nearby Power Plants to Deposited Foliar Dust: A Case Study of BTSPS, Bokaro	Archives of Environmental Contamination and Toxicology	71 (4)	485-499	2016

7	Sahu, R., Adak, P., and <b>Elumalai, S.P.,</b>	Characterization of hazardous solid waste (soot) accumulated in tailpipe of typical Indian share autos	Current Science	111 (3)	560-564	2016
8	Kumar, A., Samadder, S.R., and <b>Elumalai, S.P.,</b>	Recovery of Trace and Heavy Metals from Coal Combustion Residues for Reuse and Safe Disposal: A Review	JOM (The Journal of The Minerals, Metals & Materials Society)	68 (9)	2413-2417	2016
9	Singh, S., <b>Elumalai, S.P.,</b> Pal., A.K.,	Rain pH estimation based on the particulate matter pollutants and wet deposition study	Science of the Total Environment	563-564	293-301	2016
10	Adak, P., Sahu, R. and <b>Elumalai, S.P.,</b>	Development of emission factor for motorcycles and shared auto rickshaws using real world driving cycle for a typical Indian City	Science of the Total Environment	544	299-308	2016
11	<b>Pandian, S.,</b> Gokhale, S., Ghoshal, A.K.,	An open-terrain line source model coupled with street-canyon effects to forecast carbon monoxide at traffic roundabout	Science of the Total Environment	409 (6)	1145-1153	2011
12	<b>Pandian, S.,</b> Gokhale, S., Ghoshal, A.K.,	Evaluating effects of traffic and vehicle characteristics on vehicular emissions near traffic intersections	Transportation Research Part D: Transport and Environment	14 (3)	180-196	2009
13	Gokhale, S., <b>Pandian, S.,</b>	A semi-empirical box model approach for predicting the carbon monoxide concentrations at an urban traffic intersection	Atmospheric Environment	41 (36)	7940-7950	2007

13. Detail of patents.

NIL

14. Books/Reports/Chapters/General articles etc.

NIL

15. Any other information:

**Details of PhD guidance (Awarded & thesis submitted)**

S. No.	Title of thesis	Student name with registration No.	Role	Status
1	Development of an air quality model for the assessment of pollutants from a coal-based thermal power plant	Manisha (2012DR0100)	Co-Guide	PhD awarded on 31.03.2017
2	Study on effects of private and public transport on vehicular exhaust emission (VEE) and strategies to improve ambient air quality of Dhanbad road networks	Prasenjit Adak (2012DR0154)	Guide	PhD awarded on 11.10.2017

3	Traffic and meteorological impacts on urban air quality and associated health risk	Sunil Kumar Gupta	Guide	Viva-voce scheduled on 23.03.2018
4	Assessment of coal mine derived particulate matter deposition on nearby areas of opencast coal mines	Shweta Singh (2013DR0231)	Guide	Viva-voce completed on 14.03.2018
5	Study on traffic generated pollutants at traffic calming devices and its management	Ravi Sahu (2013DR0273)	Guide	Viva-voce scheduled on 22.03.2018