

Format of the Bio data

- **Staff Id:** 708
- **Name:** Satish K Lokhande
- **Designation:** Sr. Technical Officer
- **Education:**

Sr. No.	Institution Place	Degree Awarded	Year	Field of Study
1	Institution of Engineers	A M I E	2010	Electronics & Telecommunication
2	Government Polytechnic, Aurangabad	DERE	1995	Electronics & Telecommunication
3	O F Chanda	HSSC	1992	Electronics

- **Position held:**

Sr. No.	Institution Place	Position	From (Date)	To (date)
1	NEERI, Nagpur	Sr. Technical Officer	November 2013	present
2	NEERI, Nagpur	Technical Officer	November 2008	November 2013
3	NEERI, Nagpur	Sr. Technical Assistant	November 2005	November 2008
4	NEERI, Nagpur	Technical Assistant	November 2000	November 2005

- **Associated with the following ongoing projects: (“Project Name”; Sponsored agency; Year (from.....to))**

1. Exploratory study of mobile tower emissions from Model area of Nagpur city, sponsored by MLP 67.
2. Carrying capacity based sustainable development of mines in three districts of Orissa i.e Keonjhar, Mayurbhanj and Sundergarh project sponsored by MOEF, 2014-2015.
3. Taj Mahal carrying capacity project sponsored by Archeological Survey of India (ASI), 2014 – 2015.

4. Environmental Audit for forging of Harihar Alloy Pvt. Ltd. at Trichy, Tamilnadu sponsored by HAPL., 2014
5. Design of wireless Remote Water Quality Monitoring system sponsored by 12FYP, 2012-2017
6. Environmental Impact Assessment of Proposed Baradwar Dolomite mine, Champa, sponsored by SAIL, 2013-14

➤ **Peer-reviewed publications :**

1. Published paper on “pyridine biodegradation in a novel rotating rope bioreactor” *in the journal of Bioresource technology*, volume 99, issue 5, march **2008**, pages 1044-1051
S N Mudliar, K V Padoley, P. Bhatt, M. Sureshkumar, **S. K. Lokhande**, R. A. Pandey, A.N Vaidya
2. Published full text paper entitled “bio treatment of waste gas containing toluene in compost woodchip based biofilter” in the Journal of Applied Microbiology and biotechnology.

R.dixit, P. Tekade, S.Deshmukh, R. Pandey, K. Podoley, D. Satpute, G. Kanade, **S. Lokhande**, S. Sathyanarayana, N. Haris, B. giri, V. Shinde, A. Upadhyay, S. Mudliar
3. Published paper on “Amine loaded zeolites for carbon dioxide capture: Amine loading and adsorption studies” *in the journal of Microporous and Mesoporous Materials*, volume 121, **2009**, pages 84-89

Ravikrishna chatty, Amit K. Bansiwale, Javashri A. Thote, vivek Kumar, Pravin Jadhav, **Satish K. Lokhande**, Rajesh B. Biniwale, nitin K. Labhsetwar, sadhana S. Rayalu.
4. Paper entitled “Bacteriophages as a model for studying carbon regulation in aquatic system” published in the journal of nature precedings. Hdl:10101/npre.2012.6770.1:posted 10 Jan **2012**

Swapnil G Sanmukh¹, Waman N Paunekar^{*1}, Sandhya Swaminathan² and

Satish K Lokhande

5. Paper entitled "Treatment of mixture of toluene and n-propanol vapours in a compost-woodchip-based biofilter" published in the journal of Environmental Technology. V.33; No.7; p.751-760; **2012**

R. M. Dixit, S.C. Deshmukh A,A ,Gadhe, G.S. Kanade, **S. K Lokhande**, R.A Pandey, K. Padoley, A.n. Vaidya, S. N. Mudliar and M.A. Deshusses.

6. Paper entitled "Stress – induced lipids are unsuitable as a direct biodiesel feedstock; A case study with *Chlorella. pyrenoidosa*" published in the journal of Bioresource Technology.138(**2013**) 382-386

Azam Yakub Shekh, Preeti Shrivastava, Kannan Krishnamurthi, Sandeep N Mudliar, Sivanesan Saravana Devi, Gajanan S. Kanade, **Satish K. lokhande**, Tapan Chakrabarti

7. Paper entitled "Treatment of refractory nano-filtration reject from a tannery using Pd – catalysed wet air oxidation" published in the journal of Bioresource Hazardous Materials..261(**2013**) 63-71

Pranav K. Tripathi, Nageswar N. Rao, Chetan Chauhan, Girish R. Pophali, Sanjay M. Kashyap, **Satish K. Lokhande**, Lihua Gan

8. Paper entitled "Toxic effect of Ore Mining on Soil and Water Quality at Chhattisgarh, India" published in the International journal of Research in biosciences, agriculture & Technology. January **2014** Issue-2 volume -1.

S.K. Lokhande, A. P. Vanerker, A. B. Fulke, M. D. Giripunje, P. U. Meshram

9. Paper entitled "Ambient Noise Level Prediction during Festival Season in Metro City of South East Asian Region" published in the International Journal of Engineering Research and Application, April 2014.(ISSN: 2248-9622)

Atul P.Vanerker, **Satish K. Lokhande** & Sunil H. Ganatra

10. Paper entitled "Recycling and treatment of herbal pharmaceutical wastewater using *Scenedesmus quadricauda*" published in the journal of Current science VOL. 108, No. 5, 10 March 2015.

Atul P. Vanerkar, Abhay B. Fulke, , **Satish Krishna Lokhande**, Manisha D. Giripunje Shanta . Satyanarayan

11. Paper entitled “Ozone Induced Biodegradability Enhancement and Colour Reduction of a Complex Pharmaceutical Effluent” published in the journal of Ozone: Science & Engineering (Taylor Francis Pub) DOI: 10.1080/01919512.2015.1064762 **Impact Factor: 0.953**

Suvidha Gupta, T. Saratchandra, Sameena Malik, Abhinav Sharma, **Satish Lokhande**, Vishal Waindeskar & Sandeep Mudliar

➤ **Books:**

1. Paper entitled “Performance Validation of an Innovative Instrument: Total Organic Carbon (TOC) Analyzer” published in a Book Title: Pollution Abatement and Control by Kaul S.N and Saini Daya Publishing house, A Division of Astral International Pvt. Ltd. New Delhi. Indian ISBN: 9789351242840 International: ISBN: 9789351302056, page No. 350, 2014.

➤ **Papers in Conferences/Workshops/ Training Course (Part List):**

1. Presented paper on “**SWOT Analysis of Training Program on Environmental Analytical Instrumentation**” at conference on pollution, prevention and control in India, V.R.C.E Nagpur. 2-3 March 2002.

V. A. Deshpande, A. P. Vanerkar, **S. K. Lokhande**, D. S. Tajne and S. M. Dhopte

2. Presented Paper on “**Total Organic Carbon Estimation in Aqueous Samples: Maintenance and Troubleshooting**” in the National symposium on Instrumentation society of India, Coimbatore, November 27-29, 2002.

S. K. Lokhande, S. M. Dhopte and D. M. Dharmadhikari

3. Presented paper on “**Heavy Metal Characterization of Pan Masala – A Chewing Tobacco Product: Impact on Human Health and Environmental Components**” in the INDO – ITALIAN International conference on green and clean environmental (GCE-2008) to be organized and sponsored by embassy of Italy, New Delhi in

association with MAEER's college of engineering Pune, India during march 20-21, 2008.

S K Lokhande, D M Dharmadhikari, N P Thacker and S N Kaul

4. presented paper on “**Nanotechnology for Environmental Applications: An Overview**” in the conference on Nanotrends- 2008, organised by Dharempeth M.P. Deo memorial science college Nagpur on 27th September 2008.

S. K. Lokhande, G.L. Bodhe, D.M. Dharmadhikari and N. P. Thacker

5. Presented paper on “**Performance Validation of an Innovative Instrument: Total Organic Carbon (TOC) Analyzer**” in the INDO – ITALIAN International conference on Emerging Trends in Waste Management Technologies (ETWMT-2009) organized and sponsored by embassy of Italy, New Delhi in association with MAEER's college of engineering Pune, India during December 3-4, 2009.

S. K. Lokhande¹, A. P. Vanerkar², J. B. Helonde¹, D. M. Dharmadhikari¹ and N. P. Thacker¹

6. Presented paper on “**Vibration Exposures in Industries**” in the INDO – ITALIAN International conference on Emerging Trends in Waste Management Technologies (ETWMT-2009) organized and sponsored by embassy of Italy, New Delhi in association with MAEER's college of engineering Pune, India during December 3-4, 2009.

A. P. Vanerkar¹, **S. K. Lokhande**², P. D. Zade¹, N. P. Kulkarni¹, A. S. Kamavisdar¹ and D. M. Dharmadhikari²

7. presented paper on “**Nanosensors for Environmental monitoring: An overview**” in the National conference on chemistry for the protection of environment (NCCPE) organised by Department of chemistry, Priyadarshani Institute of engineering & technology, Nagpur during December 18 – 19, 2009.

S.K Lokhande and N.P.Thacker

8. presentation paper on **“Bacteriophages as a model for studying carbon regulation in aquatic system”** in the Second National Research Conference on climate change organised jointly by IIT Delhi, IIT Madras and centre for science & Environment during November 5 – 6, 2011.

Swapnil G Sanmukh¹, Waman N Paunekar*¹, Sandhya Swaminathan² and **Satish K Lokhande¹**

9. Presented paper on **“Bacteriophages as a model for studying carbon regulation in aquatic system”** in the international symposium on Effect of Emissions and Effluents on Environment organised by Department of Engineering chemistry of Andhra university college of engineering and Department of chemical engineering, Visakhapatnam during December 23 – 24, 2011.

Swapnil G Sanmukh¹, Waman N Paunekar*¹, Sandhya Swaminathan² and **Satish K Lokhande¹**

10. Presented paper on **“Effect of carbon dioxide partial pressure on Co₂ fixation rate and calorific value of various microalgae”** in the international Algal summit on algae for sustainable development Jointly organised by Indian Phycological society and The Energy and Resources Institute (TERI), , New Delhi during February 21 – 22, 2012. A.B Fulke, K. Krishnamurti, R. Sarada, S. N . Mudliar, Raju Yadav, Ajam Shekh, **Satish. K. Lokhande**, S . S. Devi and T. Chakrabarti

11. Presented paper on **“ A GREEN MICROALGAL SCENDESMUS QUADRICUDA: BOON FOR BIOTOXICITY ASSESSMENT OF HERBAL PHARMACEUTICAL WASTEWATER”** in the National Seminar on Molecular Biology techniques: Concepts and Applications sponsored by UGC and organised by Dhote Bandhu Science College, Gondia during February 3rd, 2013. **Satish k Lokhande**, Abhay B Fulke and Atul P Vanerkar

12. Paper entitled **“Toxic effect of Ore Mining on Soil and Water Quality at Chhattisgarh, India”** presented in International Conference: on Applications of Advanced Materials for Sustainable Development to be organised by Dr.

Ambedkar college in association with CSIE-NEERI Nagpur on dated 17-18 January 2014.

S.K. Lokhande, A. P. Vanerkar, A. B. Fulke, M. D. Giripunje, P. U. Meshram

13. Presented paper on entitled “**Ambient Noise Level Prediction during Festival Season in Metro City of South East Asian Region**” in the International Conference on Industrial Automation and Computing (ICIAC-2014) organised by Jhulelal Institute of Technology, Nagpur during 13-14, April 2014., Atul P.Vanerkar, **Satish K. Lokhande** & Sunil H. Ganatra

➤ **Write-up of Scientists Homepage (Details about their contribution in R & D along with personal details**

- Er. Satish Lokhande has completed his Diploma in Electronics and Telecommunication from Government Polytechnic, Nagpur in 1995 subsequently worked as a Maintenance Engineer in Textile industry. He joined NEERI in November 2000 as a Technical Assistant and engaged in Operation, Maintenance and Repair of various Analytical Instruments such as UV Visible spectrophotometer, Atomic Absorption Spectrophotometer, fluorescence Spectrophotometer and Flame Photometer. He has obtained AMIE Degree form Institution of Engineers, Kolkata in 2010.
- Environmental Impact Assessment of Noise and Vibrations parameters, Analysis of Environmental samples on Total Organic Carbon (TOC) Analyzer and CHNS Analyzer and Maintenance of TOC and CHNS Analyzer are the area of expertise were significant contribution is made.