

Resume

Sangita (Ghatge) Goel

(M.Tech. Environmental Engineering, B.E. Civil Engineering)

Senior Scientist

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➤ Professional Details

❖ **R&D Experience-** 14 yrs in the field of environmental engineering, worked on consultancy and R & D projects involving air quality monitoring, emission inventory preparation, indoor air quality assessment, marine and fresh water quality monitoring, land use land cover change detection using remote sensing data processing techniques, studies on effect of increased CO₂ concentrations on growth and lipid content of marine microalgae to be used for biodiesel preparation, identification of marine outfall.

❖ **Teaching Experience-** 11 months as a Lecturer

- March 2013 till date **Senior Scientist** – Air Pollution Control Division, CSIR- National Environmental Engineering Research Institute NEERI, Nagpur
- Oct 2007 to March 2013 **Scientist** – Marine Biotechnology & Ecology Discipline, CSIR -Central Salt & Marine Chemicals Research Institute, CSMCRI, Bhavnagar
- Aug 2006 to Feb 2007 **Project Fellow** – Environmental Planning and Coordination Organisation EPCO, Bhopal
- Aug 2004 to Aug 2006 **Project Assistant (A1)** - Air Pollution Control Division, National Environmental Engineering Research Institute NEERI, Nagpur
- July 2003 to Aug 2004 **Lecturer (Adhoc)** - Department of Civil Engineering, K.D.K. College of Engineering, Nagpur

➤ Academic Details

- 2003 **:M. Tech. (Environmental Engineering), Visvesvaraya National Institute of Technology (VNIT), Nagpur, with 72.6% marks**
- 2000 **:B. E. (Civil Engineering), Yeshvant Rao Chavhan College of Engineering (YCCE), Nagpur, with 73.4% marks**
- 1996 **:H. S. S. C. (Nagpur Divisional Board) with 80.1%**
- 1994 **:S. S. C. (Nagpur Divisional Board) with 86.8%**

➤ **Award**

Won **second best poster award** for the poster titled presented in National Symposium on “Emerging Environmental Challenges: An Engineering Approach”, 2018.

Title: “Satellite Derived Aerosol Optical Depth (AOD) analysis of Nagpur urban region and its correlation with ground level Particulate Matter (PM) observations”. Authors: Varun Sharma, **Sangita Goel**, A.C Pandey and Padma S. Rao

➤ **Ongoing Projects**

- Air Quality Monitoring and Emission Source Apportionment Studies for Ten Cities in the State of Maharashtra
- Design guidelines/specification for air purification system for mass housing project
- Smart, Disposal, Incineration and Carbonization Systems (SMART - DISC) for Menstrual Waste Management
- Development of LoWPAN (IoT) complaint sensor modules network for monitoring of obnoxious odour gases in industrial environment
- Environmental Status Report of Nagpur (ESR- Nagpur)

➤ **Completed Projects**

- Rising High through Hygiene Management (RHYTHM)
- National Clean Air Mission (12th five year plan project)
- Regional Assimilative Capacity Based Planning for Sambalpur- Jharsuguda Region
- Study of effects due to ash fill sites of Talcher Power Plant on flora and fauna in the surrounding area of south Balanda
- Macro level EIA for cluster of Iron mines in the state of Goa
- Carrying capacity study for environmentally sustainable Iron ore mining activity in Keonjhar, Sundargarh and Mayurbhanj Districts of Orissa State
- Assessment of Base Line Environmental Quality as a Part of Regional Environmental Impact Assessment (EIA) Study for Dholera- Special Investment Region (DSIR)
- Assessment of Base Line Environmental Quality and Social Status of Kalpasar Project
- Bio Fuel from Marine Algae
- Identification of Suitable Outfall Location for Revised Treated Effluent Discharge of J.H. Kharawala Industries, Khambhat, Gujarat, India
- Monitoring of Coastal Water off Kantiyajal for Bharuch Eco Aqua Industries Ltd. (BEAIL), project (2010) Ankleshwar, Gujarat, India
- Rapid Environmental Impact Assessment of Indian Rayon, Veraval, Gujarat, India
- Mapping of Biodiversity along Gujarat Coast - Network Project

➤ **Students guided for M.Tech. dissertation work: 4**

➤ **Software operation**

- Erdas Imagine
- Arc GIS
- CORMIX

➤ **Membership of professional bodies**

- Institution of Public Health Engineers (IPHE), India
- Indian Water Works Association

➤ **Languages known**

Marathi, Hindi, English

➤ **Publications**

International SCI Journal

1. **Sangita Goel***, Rajesh Patidar, Krushnakant Baxi, Rajendra Singh Thakur, "Investigation of particulate matter performances in relation to chalk selection in classroom environment", Indoor and Built Envt, 2017, 26(1) 119-131 (2016 Impact Factor: 1.181)
2. Shailesh Kumar Patidar, Madhusree Mitra, **Sangita Goel**, Sandhya Mishra, "Effect of carbon supply mode on biomass and lipid in CSMCRI's *Chlorella variabilis* (ATCC 12198)" Biomass and Bioenergy, 2016, Vol. 86: 1-10,(2015 Impact Factor: 3.249)
3. Avirup Sen, Yadiki Nazeer Ahammed, Tirthankar Banerjee, Abhijit Chatterjee, Anil Kumar Choudhuri, Trupti Das, Narayan Chandara Deb, Amit Dhir, **Sangita Goel**, Altaf Hussain Khan, Tuhin Kumar Mandal, Vishnu Murari, Shrimanta Pal, Padma Shrinivas Rao, Mohit Saxena, Sudhir Kumar Sharma, Ashima Sharma, Chaturvedula Viswanatha Vachaspati, "Spatial variability in ambient atmospheric fine and coarse mode aerosols over Indo-Gangetic plains, India and adjoining oceans during the onset of summer monsoons, 2014", Atmospheric Pollution Research, 2016, Vol 7, Iss 3, 521-532 (2016 Impact Factor: 1.637)
4. Shailesh Kumar Patidar, Sanjiv Kumar Mishra, Sourish Bhattacharya, Tonmoy Ghosh, Chetan Paliwal, **Sangita Goel**, Sandhya Mishra, "Naturally floating microalgal mat for in situ bioremediation and potential for biofuel production", Algal Research, 2015, Vol 9: 275-283 (2015 Impact Factor: 4.694)
5. Devang Upadhyaya, Mayur D. Survaiya, Shaik Basha, Subir K. Mandal, R. B. Thorat, Soumya Haldar, **Sangita Goel**, Himal Dave, Krushnakant Baxi, Rohit H. Trivedi, Kalpana H. Mody; "Occurrence and distribution of selected heavy metals and boron in groundwater of the Gulf of Khambhat region, Gujarat, India"; Environ Sci Pollut Res; 21:3880-90. 2014 (2014 Impact Factor: 2.828)
6. Soumya Haldar, Subir Kumar Mandal, R. B. Thorat, **Sangita Goel**, Krushnakant D. Baxi, Navalsang P. Parmer, Vipul Patel, S. Basha, K. H. Mody; "Water pollution of Sabarmati River—a Harbinger to potential disaster"; Environ Monit Assess, 2014 Apr;186(4):2231-42. (2014 Impact Factor: 1.679)

7. Shaik Basha, Jayaraj Jhala, R. B. Thorat, **Sangita Goel**, R. H. Trivedi, Kunal Shah, Gopalakrishnan Menon, P. M. Gaur, K. H. Mody and B. Jha, "Assessment of heavy metal content in suspended particulate matter in air of coastal industrial town, Mithapur, Gujarat", Atmospheric Research, Volume 97 (2010), pp 257–265 (2010 Impact Factor: 1.597)
8. S.K. Goyal, **Sangita Goel** and S. M. Tamhane, "Assessment of environmental benefits of flyover construction over signalized junctions: a case study", Environmental Monitoring and Assessment, Vol. 148 (2009) Issue:1-4, pp 397-408 (Impact factor: 1.356)
9. S.K. Goyal, **S.V. Ghatge**, P. Nema and S.M. Tamhane, "Understanding Urban Vehicular Pollution Problem vis-à-vis Ambient Air Quality – Case Study of a Megacity (Delhi, India)"; Environmental Monitoring and Assessment, (2006)119: 557–569 (Impact factor: 0.793)

➤ **National seminar paper**

- Anirban Middey, **Sangita Goel**, Padma S. Rao, Sanjay Chavan, Swapnil Deshmukh and Satish R. Wate "Investigation of indoor air pollution at Work Place and Residential Premises", National Level Seminar on "Innovations In Green Building Technology" JAN 17 & 18, 2014 by The Institution Of Engineers (India).