

<b>Resume</b>	<b>Ankit Gupta</b> Scientist Gr IV (2) Energy and Resource Management Division/Director's Research Cell CSIR-National Environmental Engineering Research Institute (CSIR-NEERI) Nagpur - 440020 Maharashtra Email: a1_gupta@neeri.res.in / vit.ankit@gmail.com (M): +91-8928022126/ 8329234378
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## Education / Training

**M. Tech in Environmental Systems Modelling and Optimisation**, Academy of Scientific and Innovative Research (AcSIR), CSIR – NEERI, 2010-2012 (**CGPA – 9.28**)

- **Dissertation** on “Computational Fluid Dynamic (CFD) Analysis for a Catalytic Converter”, under the guidance of Dr. R.B. Biniwale, Principal Scientist, CSIR- NEERI.

**B. Tech. in Mechanical and Energy Engineering**, Vellore Institute of Technology University, Vellore, 2006-2010 (**CGPA – 9.73**) - University Topper/Gold Medallist

- **Dissertation** on “Experimental and Theoretical studies on Thermo-Acoustics Systems”, under the guidance of Dr. S. Kasturirangan, Chairman CCT, Indian Institute of Science (IISc), Bangalore.

**Diploma in “Renewable Energy Technologies”** under EU ASIA LINK Program.

## Research and/or Professional Experience

**Scientist**, National Environmental Engineering Research Institute (NEERI), Council of Scientific and Industrial Research (CSIR), Nagpur – 20 (**Oct. 2012-Present**)

**Quick Hire Scientist (Trainee)**, Environmental Systems Design and Modelling Division, National Environmental Engineering Research Institute (NEERI), Council of Scientific and Industrial Research (CSIR), Nagpur – 20 (**Aug. 2010 – Oct. 2012**)

## Selected Peer-reviewed Publications

1. Raj, I., **Gupta, A.**, Pandharipande, S.L., Bansiwale, A. and Vaidya, A.N., 2019. A high performance biological degradation of trimethylamine: Experimental study and mathematical modeling. *Journal of Environmental Chemical Engineering*, p.103292.
2. **Ankit Gupta**, Ritesh Vijay, Vikash K. Kushwaha and Satish R. Wate (2014). Identification of Inlet and Outlet Locations for Cool Seawater Discharges from an LNG Facility. *International Journal of Environmental Research*, 8(4), 953-960.
3. Vijay, R., Khobragade, P. J., Dhage, S. S., **Gupta, A.**, & Wate, S. R. (2015). Tidal and seasonal variations in water quality of Thane creek, Mumbai, India: a statistical analysis. *Indian Journal of Geo-Marine Sciences*, 44, 6.
4. Shekh, A. Y., Shrivastava, P., **Gupta, A.**, Krishnamurthi, K., Devi, S. S., & Mudliar, S. N. (2016). Biomass and lipid enhancement in *Chlorella* sp. with emphasis on biodiesel quality assessment through detailed FAME signature. *Bioresource technology*, 201, 276-286.
5. **Ankit Gupta**, Ritesh Vijay and Rakesh Kumar. Hydrodynamic and advection-dispersion simulation of cool seawater discharges from an LNG facility, *Indian Journal of Geo-Marine Sciences* (**Accepted**)

6. Anil MNV; **Ankit Gupta**; Wasim T Khan., et al. Design and Evaluation of Multi Fuel Biomass Cook Stove. *Energy* (2<sup>nd</sup> Revision: EGY-S-15-03988)

### Design Registration

- NEERDHUR Cookstove 1, Application No. 267652, Journal No. 29/2015 and Journal Date: 21/11/2014
- NEERDHUR Cookstove 2, Application No. 268355, Journal No. 33/2015 and Journal Date:14/08/2015
- NEERDHUR Cookstove 3, Application No. 277177, Journal No. 40/2016 and Journal Date:30/09/2016
- Improved Cookstove 4, Application No. 278812, Journal No. 51/2016 and Journal Date: 16/12/2016
- Improved Cookstove 5, Application No. 278813, Journal No 29/2017 and Journal Date 21/07/2017
- Improved Cookstove 6, Application No. 282681, Journal No 29/2017 and Journal Date 21/07/2017

### Patents

- Dr. N.K. Labhasetwar, **Er. Ankit Gupta**, Er. S.S. Waghmare et al., “An Improved Multi-Fuel Cookstove with Adjustable Grate Mechanism” - App No: 201611024651; Date of filing: 19 July 2016
- Dr V.V.S. Rao, Dr. Roy Johnson, Dr. Rakesh Kumar, Dr. N.K. Labhasetwar, **Er. Ankit Gupta** et al., “An ecofriendly incinerator to dispose of the used sanitary napkins and bio medical waste” - App No: 201821021430; Date of filing: June 9, 2018

### Conference Publication

- **Gupta, A.**, Vijay, R., and Wate, S. R. (2015) “A simulation approach to identify sustainable options for cool seawater discharge in coastal environment”, International Conference on Engineering and Natural Science. International Business Academics Consortium (iBAC) Taipei, Taiwan, Vol. 1, p. 61
- Vijay, R., Mohapatra, P. K., and **Gupta, A.** (2015) “Hydrodynamic assessment of groundwater withdrawal against saltwater intrusion in coastal city Puri, India” in 2015 International Conference on Engineering and Natural Science. International Business Academics Consortium (iBAC) Taipei, Taiwan, Vol. 1, p. 62
- **Ankit Gupta** and R. B. Biniwale (2012). CFD Investigation of Flow and Thermal Characteristics of the Catalytic Converter, International Conference on “New Age Science and Technology for Sustainable Development” & “3rd Annual Conference of Indian JSPS Alumni Association, Nagpur, 2012
- Tapas Nandy, Malay Goel, **Ankit Gupta** and Ritesh Vijay (2014). Flow visualization of pollutant mixing in freshwater body near the density maximum, Hydrology: Current Research, proceedings of 3<sup>rd</sup> International Conference on Hydrology & Meteorology, September 15-16, 2014 Hyderabad, India, Vol. 5, Issue 4, 86 (dx.doi.org/10.4172/2157-7587.S1.013)

### Technology Transfer

1. An Improved Ecofriendly and Energy Efficient Electric Sanitary Pad Incinerator to Sowbal Aerothermics (SA), Hyderabad.
2. Knowhow on Multi-fuel Improved Cookstove” to 3 Licensee, namely:
  - Recon Energy & Sustainability Technologies,
  - Carmel B&F Industries Pvt. Ltd
  - Techno Biotech (India)

### Peer recognition/award/citation

- Selected as visiting scientist to join SAKURA programme under framework of Japan-Asia Youth Exchange Program in Science supported by Japan Science and Technology Agency (JST) to Kyushu University Japan during Nov 26, 2017 to Dec., 05, 2017.
  - CSIR-NEERI 59<sup>th</sup> Foundation Day Award – Outstanding Scientist Award for significant contribution to R&D in Environmental Science and Engineering.
  - NABET approved FAA of Risk Assessment in EIA studies.
  - **Conferred 1<sup>st</sup> Prize** for Innovative Idea on Solar Energy Utilization: Solar-Cavitation (SOL-CAT) Pen for Instant Portable Water in the Crazy Idea Competition held during 2<sup>nd</sup> National Workshop on Solar Energy Utilization (SUN) for sustainable development.
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