PROFILE

Name	Mrs.Hemlata Padmakar Jambhulkar
Designation	Principal Tech.Off. / Tech.Off.Grp III(7)
Qualification	BSc. (1987) [Microbiology, Botany and Chemistry]
	MSc (1989) [Chemistry]
Experience (in years)	35 years experience
Expertise (for e.g.: Water, Waste, Energy, Business Development etc.)	 Remediation of metal contaminated soil Phytoremediation of mine spoil overburden dumps and fly ash dumps Bioaccumulation of heavy metals by different plant species grown on fly ash dump Terrestrial carbon sequestration & mitigation through afforestation Management of domestic wastewater through constructed wetland Wastewater management through land treatment NABET accreditated FAE in Soil Conservation (SC) and Water Pollution Monitoring, Prevention & Control (WP) EIA studies with respect to Thermal power plants sector, River valley sector and petroleum refinery sector
Publications (in Nos.)	1) Asha Juwarkar, Ashok Juwarkar, Sarita Mowade, Hemlata Jambhulkar , Anjali Shrivastava, Atul Kulkarni, Pranjali Amte and Purushottam Khanna. Role of biofertilizer in Reclamation of manganese mine spoil dumps. <i>Biofertilizer Newsletter</i> . July and December, 1998, 5 (1, 2): 18 -24. 2) A.A. Juwarkar, A.B. Kulkarni, H.P. Jambhulkar and P. Khanna. Reclamation of mine spoil dump through an integrated biotechnological approach, NEERI's experience. MEGA EVENT organized by Ministry of Steel and Mines 6-8 Aug 1998: <i>Indian Mineral Industry – A perspective</i> , pp. 297-307. 3) A. A. Juwarkar and H.P. Jambhulkar. Restoration of fly ash dump through biological interventions. <i>Environmental Monitoring and Assessment</i> Volume 139, No.1-3, April 2008

- pp.no.355 -365.
- 4) A.A. Juwarkar and **H. P. Jambhulkar** Phytoremediation of coal mine spoil dump through Integrated Biotechnological Approach. *Bioresource Technology*.Vol.99 /11, Oct.; 2008 pp.4732 4741.
- 5) **Hemlata P. Jambhulkar** & Asha A. Juwarkar. Assessment of bioaccumulation of heavy metals by different plant species grown on fly ash dump. *Ecotoxicology and Environmental Safety.* (2009). Vol.72, pp.1122-1128.
- 6) Asha Ashok Juwarkar, Lal Singh, S.K. Singh, **Hemlata P. Jambhulkar**, Prashant R. Thawale and Harsha Kanfade. Natural vs. reclaimed forests on manganese mine spoil at Gumgaon, Nagpur, India a case study of successional change, reclamation technique and phytodiversity. *International journal of Mining, Reclamation and Environment* (2014). Volume 29, Issue 6 Pp. No 476-498.
- 7) Juwarkar AA, Singh L, Kumar GP, **Jambhulkar H P**, Kanfade H & Jha A K. Biodiversity Promotion in Restored mine land through plant animal interaction. *Journal of Ecosystem & Ecography.* (2016). Volume 6, Issue 1, Pp.No.1-10
- 8) **Hemlata P. Jambhulkar,** Siratun Montaha .S Shaikh and M Suresh Kumar. Fly ash toxicity, emerging issues and possible implications for its exploitation in agriculture; Indian scenario: A review *Chemosphere* (2018). Vol.213, December 2018 pp 333-344
- 9) **Hemlata P. Jambhulkar** & M Suresh Kumar (2019). Eco restoration approach for mine spoil overburden dump through biotechnological route. *Environmental Monitoring and Assessment* Nov.2019, 191-772
- 10) **Hemlata P Jambhulkar.** (2023).Beneficial & adverse impacts of fly ash amelioration on soil health; A review. *Journal of Indian Association for Environmental Management* Oct. 2023, Vol.43, No.3, pp. 01-08.
- 11) **Hemlata P Jambhulkar.** (2024). Emerging issues and concerns for vegetation and plant growth responses to fly ash: A Review. *Journal of Indian Association for Environmental Management* Sept. 2024, Vol.44, No.3, pp. 48-56.

Publications in International / National Conference / Symposium / Seminar Papers / Posters: 11

Books/ Manuals / Catalogues written

(1) A.S .Juwarkar, P.R. Thawle, **H. P. Jambhulkar** and Asha Juwarkar, (1998). Management of Wastewater through Crop Irrigation – An Eco-friendly approach In. *Ecotechnology for Pollution Control and Environmental Management*. R.K.

Patents Honors & Awards	Trivedy and A. Kumar (Ed), 1998, Enviro Media, Karad. India. (2) Dr. Neeta Thacker, Dr. Leena Deshpande, Mrs. Shivani Dhage, Dr T. K. Ghosh, Mrs. Hemlata Jambhulkar and Er. D. B. Satpute. "Guidance Manual for Drinking Water Quality Monitoring and Assessment". Sponsored by US Environmental Protection Agency Washington DC, U.S.A. October 2007 and Published by NEERI, Nagpur. (3) Asha A. Juwarkar & Hemlata P Jambhulkar (2009). Reclamation of mine spoil dump using integrated biotechnological approach at Sasti Coal Mine, Maharashtra In Sustainable Rehabilitation of Degraded Ecosystems. O.P. Chaubey, Vijay Bahadur and P. K. Shukla, Aavishkar Pub. ISBN: 81-7910-288-6. Nil Awards
(If any)	(1) Selected by the Association for Overseas Technical Scholarship, Tokyo, Japan to participate in the training course
Pagagwah Cahalang	on "Industry and Environment Protection for India." Organized jointly by Association for Overseas Technical Scholarship (AOTS) and New Energy Development Organization (NEDO) Tokyo, Japan during October 30 to November 17, 2000. (2) Dubai international award 2007 for best practices to improve the living environment to the technology, "Ecological restoration of degraded lands through biotechnological approaches." included in the Global 329 Good Practices (Member of the Team). (3) Awarded best paper award entitled, "Assessment of bioaccumulation potential of heavy metals on fly ash dump". Presented in X th all India meeting of 'Women in Science' held at CSIR-NEERI, Nagpur during December 21-23,2007 and organized by Indian Women Scientist Association, Nagpur (4)NABET accreditated FAE in Soil Conservation (SC) and Water Pollution Monitoring, Prevention & Control (WP)
Research Scholars (in Nos.)	1411