



Name - DR. M. K. GUPTA,

Designation – DIRECTOR

Central Pulp & Paper Research Institute, Saharanpur (U.P.) 247001

Contact Details:

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Date and Place of Birth – 25-05-1964, Kanpur

Family Status: Married and having two Children (1 Son & 1 Daughter)

Qualifications

- Ph.D (1991) from Chemical Engineering Department, HBTI, Kanpur.
- M.Sc. (1985) from Kanpur University in Organic Chemistry.
- B.Sc. (1983) from Kanpur University, Kanpur.

Additional Professional Qualifications

- Trained in the area of **Anaerobic Wastewater Treatment** at International Institute of Hydraulic & Environmental Engineering Delft and Wageningen Agriculture University, Wageningen, The Netherlands.

Experience

1. Presently working as Director, CPPRI, Saharanpur. Joined CPPRI in Dec. 1990 and have worked at various levels starting from Scientist-B to Scientist-C, E- I, & E-II and Scientist -F.

- From 11.02.2022	–Director
- From 01.02.2021 to 10.02.2022	– Director in-Charge
- From 01.04.2012 to 10.02.2022	– Scientist - F
- From 01.04.2006 to 31.03.2012	– Scientist E-II
- From 01.04.2001 to 31.03.2006	– Scientist E-I
- From 01.04.1996 to 31.03.2001	– Scientist C
- From 31.12.1990 to 31.03.1996	– Scientist B

2. Worked as a Research Chemist at Shiva Paper Mills Ltd., Rampur from Aug. 1990 to Dec. 1990.

3. Worked as a Research Assistant at Chemical Engg. Deptt., HBTI, Kanpur from Oct. 1986 to Oct. 1988.
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Duties as Director & Director in-Charge

- All Recruitments appointment in the Institute
- All Transfers
- Promotions / Assessment
- Disciplinary actions
- Sanction of all leaves
- Re-instatement
- All Sanctions / Approvals
- Welfare matters

Duties as Scientist and Head, Environmental Management Division

- Over a period of around 30 years, worked on various R&D projects, consultancy assignments and provided expert services to Govt. agencies and pulp and paper industries.
- Have been instrumental as a part of team member for development of policies concerned with environmental management.
- Organised various Training Programmes, Workshop, Interaction Meet at different levels for industry professionals on environmental management.
- Teaching M.Sc. (Cellulose and Paper Technology) students during their course at CPPRI, Saharanpur Since last 7 years.
- Successfully completed various projects sponsored by UNDP, CPCB, Ministry of Environment & Forest Research Ministry of Non Renewable Energy (MNRE) earlier known as Ministry of Non conventional Energy Sources (MNES).
- Published 30 research articles in International and National Journals, presented 14 research findings in various International and National conferences and prepared more than 100 technical reports/ environmental audit reports and training manuals.

Overseas Visits

- Visited The Netherlands, Norway, Sweden & Finland under UNDP and UNIDO Project to have glimpse of recent development in the area of pulp & paper technology in European Countries and implementation of new technologies in Indian Pulp & Paper Mill for better environmental sustainability.

List of Papers Published

- *Anaerobic digestion of Pulp & Paper Mill Waste* proceedings of *International Symposium* on 'Development and Management of Energy Resource' Manila, Philippines, 147-162, 1989.
- *Methane from Paper mill effluent-Optimum loading rate* Proceedings of **National Seminar** on 'Recent Trade in Chemical Engineering' Roorkee University, II 31-35, 1989.

- ***Treatment of Paper Mill effluent – Physical Presented at National Seminar on ‘Natural Resources Conservation and Environmental Management’ at D.A.V. College, Kanpur, March 5-7, 1989.***
- ***Energy recovery from pulp & paper mill effluent*** Proceedings of **National Seminar** on ‘*The Scope of Alternative Energy Sources in Process Industries*’ held on 27th Jan. 1990 at HBTI, Kanpur.
- ***Recent development in effluent Treatment System*** Proceedings of **International Workshop** on ‘*Small Scale Chemical Recovery, High yield Pulp & Effluent Treatment*’ CPPRI, Saharanpur, 231-235, 1991.
- ***High rate biomethanation technology for liquid wastes from paper industry*** Souvenir of **Interaction Meet** on ‘*High Rate Biomethanation of Pulp & Paper Mill Waste*’ organised by CPPRI at Saharanpur, January, 1995.
- ***Oxygen treatment followed by CEH Bleaching – economical and Quick Solution to the pollution problem of India Paper Mill*** proceedings of *Paperex* 95, 69-82, 1995.
- ***Bioenergy – A potential sources of non conventional energy*** presented at **Workshop** on ‘*Energy Efficiency Agenda for Pulp & Paper Industry*’ organized by CPPRI at Scope Complex New Delhi on April 28, 1997.
- ***Anaerobic treatability of straw spent liquor – A potential alternative for environmental management*** IPPTA Vol. 10, No. 3 July-Sept., 1998 Presented in **IPPTA Zonal meeting & Seminar** on ‘*Utilization of Non wood fibers for paper manufacture*’ at Chandigarh, July 24 & 25, 1998.
- ***Biomethanation process – A demonstration of technology of commercial scale for treatment of black liquor*** Presented in **Interaction Meet** on ‘*Environmental Issues in Indian Pulp & Paper Industry*’ organized by CPPRI at Saharanpur on 11th November, 2000.
- ***Bioenergy recovery from pulp & paper mill waste through high rate biomethanation – A case study*** Presented in **One day Workshop** on ‘*Bioenergy Recovery from Municipal & Industrial Wastes*’ organized by Non conventional Energy Development – Corporation of AP (NEDCAP) on Jan. 24, 2001.
- ***Recent advances in Biomethanation of Pulp & Paper mill effluents for cogeneration of energy*** *Bio energy News*, 16-20, March, 2001.
- ***Potential of biomethanation process in recycled fibre based paper mills*** presented in **Interaction Meet** on ‘*Use of recycled fibre in Paper & Newsprint*’ organized by CPPRI on 12th April, 2001.
- ***The Technoeconomic feasibility of biomethanation technology for recovery of energy from Pulp & paper mill wastes*** Proceeding of **International Conference** on ‘*Technological Aspects of Decentralized Approach in Waste to Energy*’ organized by Malviya Regional Engg. College, Jaipur, March, 1-3, 2002.

- *Environmental prospects and status of absorbable organic halogen (AOX) released in Pulp & Paper Industry*’ Proceeding of **National Workshop on ‘Effluent Management in pulp & paper Industry**’ Organized by Agharkar Research Institute, Pune, May, 2002
- *Bioenergy generation from pulp & paper mill waste through high rate Biomethanation*, IPPTA Vol. 14, No. 4, Oct. – Dec. 2002
- *Environmental impact of toxic chlorinated phenolic released in pulp & paper Industry and its control measures*’ Souvenir of **Interaction Meet on ‘Impact of toxic substances released in paper Industry**’ Organized by CPPRI on 10th Dec. 2002
- *Sustainable development of pulp & paper Industry through green / environmental friendly technology in Indian perspective* Proceedings on **International Conference on ‘Energy & Environmental Technology for Sustainable Development**’ Organized by Malviya Regional Engineering College, Jaipur, Oct. 2003
- *Agro based pulp & paper mills – environmental status, issues and challenges and Role in CPPRI*’ Proceedings of **INDO-EU Workshop**, New Delhi, January, 2004
- *Combination of anaerobic - aerobic process for effective treatment of pulp & paper mill effluent* IPPTA Convention Issue, 103 – 110, Feb. 2004
- *Effluent Management in a kenaf based pulp mill- A case study* ‘Souvenir of **International Dissemination Workshop on ‘Biotechnological application of enzymes for making paper pulp for green Jute / Kenaf**’ Organized by CPPRI at Hyderabad on Nov. 18 – 19, 2004
- *Studies of assessment of non condensable gases / odorous emission level in Wood based Indian Pulp & Paper Industry* IPPTA Convention Issue, 85 – 90, Feb. 2006
- *Environmental issue and waste Management in recycled fibre board Mills*, Proceedings of **International Conference on ‘Pulp & Paper Industry – Greater Utilization of Recycled Fibres – Prospects & Problems**’ Vapi, Gujarat, Nov. 11-12, 2006
- *‘Environmental issue & Challenge Indian Pulps & Paper Industry*’ IPPTA Vol. 18, No. 4, Oct. – Dec. 2006.
- *Water consumption and potential of wastewater recovery and issue in Pulp & Paper Industry* Proceeding of **Seminar on ‘Paradigm shift in water treatment Latest technology for water related problem & Cost effluent solution of Industrial reuse**’ April. 20-21, 2007, New Delhi.
- *Wastewater Management in Indian Pulp & Paper Industry, water Digest*, Vol. 2(4) Nov. – Dec. 2007.

- ***Potential of Tertiary Treatment of Mill effluent for increased recycling/Reuse in Pulp & Paper Mills*** Proceedings of Paper Tech Seminar, 2008
- ***Environmental sustainability of Indian Paper Industry- Needs trends & Techniques*** proceedings of **International Conference on ‘Emerging Technologies for Sustainable environment’** at Aligarh Muslim University, Aligarh(U.P) pp- 553-556, Oct. 29-30, 2010
- ***Water conservation in Pulp & Paper Industry- Trends, Opportunities & Scope in Indian Scenario*** Proceeding of **Technical Conference on ‘Modern Technologies for Growth of Indian Paper Industries’** pp. 91-102 Nov. 27, 2010
- ***Reduction of water footprint in Agro & RCF based Pulp & Paper Mills- ‘Scope, possibilities and available option’*** *IPPTA J Vol. 23 & 24 No. 4 Oct. Dec. 2011*
- ***Toxicity Potential in AOX bearing ETP sludge – A reality check*** Proceedings of **10th International Conference on ‘Pulp, Paper & Allied Industry’ (Paperex 2011)**, New Delhi, 238-242, Dec. 2011.
- ***Odorous emission Indian Pulp & Paper Industry factors influencing their generation and available control technologies*** Proceedings of **National Workshop of Sensory systems for ‘Environmental Monitoring of obnoxious Odorous and VOC’s in Industries’** National Institute for Environmental Engineering & Research (NEERI), Nagpur, Feb. 7-8, 2013.
- ***Effect of harvesting age of Acacia and Eucalyptus on various pulp and paper properties*** Proceedings of **National Seminar on ‘Wood : A way forward for sustainable development’** Bengaluru, pp 64-74,2018
- ***Response of Ozone Bleaching on Wheat Straw and bagasse mixed Agroresidue Pulp*** In **INPAPER INDIA Vol. No. 23 Jan. - Feb. 2020**
- Delivered a lecture on **“Status of Indian Pulp & Paper Industry Mills”** and one day workshop on **“Addressing Environmental Issues of Agro & RCF based Pulp & Paper Mills”**, March 20, 2021

(Dr. M.K. Gupta)
Director