

Dr. E. RAVINDRANATH
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Qualification

Degree, discipline	:	B.Tech (Civil Engineering)
Institution, University	:	College of Engineering, Kakinada, JNTU, Jawaharlal Nehru Technological University (J.N.T.U), Hyderabad
Year of completion	:	1977
Degree, discipline	:	M.E. (Public Health Engineering)
Institution, University	:	College of Engineering, Guindy, University of Madras, Chennai
Year of completion	:	1979
Degree, discipline	:	M.S (Civil Engineering)
Institution, University	:	South Dakota School of Mines & Technology, USA
Year of completion	:	1983
Degree, discipline	:	Ph.D, Civil Engineering (specialization in Environmental Engineering)
Institution, University	:	Anna University, Chennai
Year of completion	:	2012

Area of expertise

- Structural Engineering
- Environmental Engineering

Employment Record:

Name of the Organization	Post Held	Period	
		From	To
Chennai Environmental Management company of Tanners (CEMCOT), Chennai	Technical Director	July 2018	Till date
Sri Venkateswera College of Engineering	Professor and Head Civil Engineering Dept	Dec 2015	May 2018
CSIR- Central Leather Research Institute, Chennai	Chairman, Works and Head, Engineering Service	2009	Oct 2015
	Chief scientist and Head Environmental Division	2012	Oct 2015
	Scientist 'F'	2007	2012
	Scientist 'EII'	2002	2007
	Scientist 'EI'	1997	2002
	Scientist 'C'	1992	1997
	Scientist 'B'	1987	1992
Coromandel Engineering Company, Chennai	Engineer-In-Charge	1984	1987
National Environmental Engineering Research Institute (NEERI), Nagpur	Senior Officer	1981	1982
Madras Metropolitan Water Supply and Sewerage Board, Chennai	Assistant Engineer	1979	1981

Publications

S.N	Description	National	International
1	Papers	6	
2	Conference	42	
3	Patents	3	

Membership of Professional Associations:

- Life Member, Indian Water Works Association (IWWA)
- Life Member, Indian Environmental Association (IEA)
- Fellow, Institute of Engineers, India (FIE)
- Member, Institute of Public Health Engineers (IPHE)
- Life member Indian concrete Institute (ICI)
- Member, Indian Association for Environmental Management (IAEM)

Professional Expertise

- Undertaken R&D projects for treatment of liquid and solid waste generated from tanneries to meet Zero Liquid Discharge (ZLD)
- Consultant for implementation and upgradation of effluent treatment plants.
- Carried out treatability studies for tannery wastewater in UASB reactor, aerobic reactors, membrane bioreactors in pilot scales.
- Implementation of full scale UASB reactors in Dindigul, Perundurai and Kunoor for tannery wastewater
- Developed anaerobic technology for treatment of fleshings generated from tanneries
- Implemented Common Effluent Treatment Plants (CETPs) from 0.5 MLD to 20 MLD capacity
- Implemented Common Effluent Treatment Plants in Kolkata, Jalandhar, Ranipet, Vanyambadi etc for tannery sector.
- Design, detail engineering and implementation of Secure Land Fills at seven locations for a capacity of 3300 m³ to 115000 m³ for tannery sector with patented technology of CLRI.
- Implemented Sulphur Recovery System (SRS) for

tanneries and pharmaceutical company.

- Design, detail engineering and execution of Common Effluent Treatment Plants (CETPs) and Sewage Treatment Plants (STPs)
- Treatability studies on application of membrane coupled bioreactors for treatment of wastewater and arriving kinetic parameters for implementation in full scale wastewater treatment plants
- Application of Membrane Systems for recovery of water from treated wastewater
- Preparation of Detailed Project Reports (DPR), technical specifications for construction of full scale Common Effluent Treatment Plants (CETPs), Sewage Treatment Plants (STPs) and Secure Landfill Facilities (SLF)
- Design of water supply & sewerage network schemes
- Quality Control & Quality assurance in project activities
- Anaerobic co-digestion of solid waste & bio-energy generation; arriving kinetic parameters for solid waste generated in tannery sector
- Remediation and eco-restoration of chromium contaminated water resources and soil
- Monitoring of various projects implemented under leather sector

Research/Teaching Experience

- Registered Supervisor for Ph.D scholars in Anna University, Chennai
- Handled B.Tech (Civil) class for IIT Madras
- Handled environmental courses for B.Tech (Leather) and M.Tech (Leather) and M.E (Environmental Engineering, Environmental Management) at Anna University, Chennai.
- Guiding B. Tech, M.Tech and M.E students on projects.

- External examiner at Anna University for post graduate & Ph. D Scholars.
- Worked as Professor and Head, Department of Civil Engineering from December 2015 to May 2018.
- Delivered guest lecturers in training programmes and short term courses organized by Tamilnadu Water Supply and Drainage Board, Engineering colleges, Leather associations, Chennai Metropolitan Water Supply and Sewerage Board etc.

Patents:

S. N o.	Title	Count ry/ Count ries	Filed on (Patent No. & Date)	Granted on (Date)	Names of the other inventors
1	Novel microbial consortium and use thereof for liquefaction of solid organic matter	United states & India	No. 2007012 2874 Dated 03.03.20 06	31.05.20 07	Suthanthararaja nChitra. Umamaheswari Rajamani
2	A microaerophilic bacterial consortium and use thereof for the simultaneous biodegradation of mixture of recalcitrants present in water	India	No. 0158NF2 012 Dated 09.06.20 10	22.07.20 11	Umamaheswari, Rama Rajaram, Chitra, Thirumaran
3	A process for the separation of Chromium from chrome tanned	India	No. 245160 dated 19.03.20 04	07.01.20 11	Suthanthararaja n, Chitra. Umamaheswari, Rajamani

	collagen material				
4	Implementation of Secured landfill facility (SLF)	India	No.264075	03.12.2014	S. Rajamani, K. Sri Bala Kameshwari, K. Thirumaran S.V Srinivasan, R. Suthanthararajan

Training Programmes, Workshops

1. Delivered lecture on "Treatment of sewage for recovery and reuse" for TWAD Board officials under trainings sponsored by CPHEEO, New Delhi - Every year
2. Delivered lectures on "Treatment of sewage for recovery and reuse" for NPC officials under trainings sponsored by CPHEEO, New Delhi
3. Organized and delivered a lecture in Training programme on "Environmental Management in Slaughter Houses at Hyderabad, Sponsored by Central Pollution Control Board, Delhi,
4. Department of Environmental Technology, CSIR-CLRI, organized LERIG-2008 and LERIG 2014.
5. Teaching faculty at Anna University Chennai for M.E (Environmental engineering)
 - Physico - chemical treatment
 - Biological treatment system
6. Teaching faculty at IIT Madras for B.Tech (civil)
7. Undertaken classes for B.Tech (Leather Technology) and M.Tech (Leather Technology) Anna University, Chennai as part of Honorary Faculty Member of Anna University
8. Delivered Lectures in Training programmes organized by Tamilnadu Water Supply and Drainage Board (TWAD) on

Design of UASB reactor for treatment of Sewage

9. Technical appraisal of Project proposals submitted by various tannery clusters for DIPP under ASIDE scheme of Ministry of Commerce and Industry, Govt. of India
10. Delivered lectures on “Operation and Maintenance of Pretreatment Systems in Individual Tanneries – in Ethiopia, Vietnam and Botswana”
11. Associated in Conducting LERIG-2009 organized by CSIR-CLRI, during January 2009, Chennai.
12. Training and delivered special lectures to International Students to Education and Training Department of CSIR-CLRI on Waste Management Practices in Tannery Sector.
13. Delivered lectures on “Trouble shooting of Wastewater Treatment Plants” at National Productivity Council, Chennai
14. Training and delivered special lectures to International Students to Education and Training Department of CSIR-CLRI on Waste Management Practices in Tannery Sector.

Chennai

Ravindranath