

### Faculty Vitae – Dr. A. MANI

Name of the Faculty:					
Dr. A.MANI, Professor					
Education					
	Degree	Discipline	Institution	Year	
UG	B. E	Civil Engineering	Coimbatore Institute of Technology	1979	
PG Diploma	PG Dip. in Design and construction of concrete structures	Civil Engineering	Anna malai University	1988	
PG	M. E	Environmental Engineering	Sathyabama University	2012	
PhD		Environmental Engineering	Bharath Institute of Higher Education and Research	2017	
Academic experience and other experience					
	Institution	Title	From	To	FT/PT
	Bharath Institute of Higher Education and Research	Head, Department of Civil Engineering	July 2017	Till Date	FT
	CMWSSB Training centre	Director Training centre.	2007	2008	FT
	Shah Technical consultant Pvt. Ltd, Chennai.	Senior Consultant, Team Leader	Aug 2015 to	Sep 2016	FT
	Chennai Metropolitan Water Supply & Sewerage Board (CMWSSB)	Engineering Director	July 2014	Jan. 2015	FT
	Chennai Metropolitan Water Supply & Sewerage Board	Chief Engineer – Operation & Maintenance	Jan. 2014	Jan. 2015	FT
	Chennai Metropolitan Water Supply & Sewerage Board	Chief Engineer – Construction 1	2011	2013	FT
	Chennai Metropolitan Water Supply & Sewerage Board	Superintending Engineer	2007	2011	FT
	Chennai Metropolitan Water Supply & Sewerage Board	Executive Engineer	2000	2007	FT
Certifications or professional registrations :					
Approved Valuer F-22863 (L.M.),					

<b>Membership in professional organizations:</b>
<ul style="list-style-type: none"> <li>• Fellow in Institution of Engineers (F.I.E) : F-018036-6</li> <li>• Fellow in Institution of Values (F.I.V.) : F-22863 (L.M.),</li> </ul>
<b>Honors and awards</b>
<ol style="list-style-type: none"> <li>1. "Rainwater Harvesting and Grey water recycling techniques" , Gandhi Nagar Club, IV Main Road, Gandhi Nagar, Adyar, Chennai-20 on November 5, 2014</li> <li>2. "Drinking Water Information System", One day Workshop on World Soil Day, Sathyabama University, Chennai-119, December 5, 2014.</li> <li>3. "Pointers in Self sufficiency of power needs of Sewage Treatment Plants in India" , (Water Today – Watman – 2014 – Conference, Chennai) Chennai Trade Centre, Nandambakkam, Chennai-89 on January 21, 2014.</li> <li>4. "Rain water harvesting", Chevalier T.Thomas Elizabeth College for Women, Sembium, Chennai-11 on September 19, 2014.</li> <li>5. "Preparation of Comprehensive Master Plan for water and sewerage sector, for Chennai city including expended area and Chennai Metropolitan Area", at CMWSSB office, Chennai-2, November25, 2015.</li> <li>6. "Preparation of detailed project report for providing Integrated Infrastructure on water supply, sewerage and storm water drains for the Thanjavur Municipal Corporation and added 16 revenue villages", at TUNIFSL office at Chennai, February 9, 2016.</li> </ol>
<b>Service activities (within and outside of the institution)</b>
<ul style="list-style-type: none"> <li>• Involved in reviewing and finalizing the designs, DPR Preparation ,Selection of pipe material for 9 ULBS ( sholinganallur ,karapakkam ,Ramapuram , Manapakkak ,Okkiam-Thoraipakkam ,Nandambakkam ,Karambakkam , Injambakkam ) water supply scheme and 4 ULBS ( sholinganallur ,karapakkam ,Ramapuram , Kathivakkam ) Under Ground Sewerage Scheme , prepared Detailed Project Report, and obtained sanction from central sanction committee &amp; required funds , process of bid preparation, obtained bid approval , bid invitation, bid evaluation, award of contract and Material Procurement Management.</li> <li>• Prepared DPR for Pallavaram &amp; Pammal Municipalities water Supply scheme.</li> <li>• Prepared DPR for construction of Raw water sump ,pump house with pumping equipment's , intake tower in the Thervoy kandigai reservoir , to lay 900mm raw water conveying main for 17 km length from Thervoykandigai reservoir up to KP canal ( at LS 3.850 km from zero point ) situated near Uthukottai , so as to convey raw water to Poondi Reservoir.</li> <li>• Prepared DPR to lay 18km transmission main with required pump sets to convey 23mld treated water from 100 MLD Nemmeli Desalination plant to the Integrated Town ship project of Ascends at old Mahabalipuram Road (One hub city funded by JICA)</li> </ul>

#### List of Publications

- A Mani, “A Review on the use of computational fluid dynamics and Sonication as a tool for optimizing the anaerobic sewage sludge digesters”, International Journal of Pharmacy and Technology, vol. 6, Issue 2, pp. 2956-2966, 2014 (Scopus indexed , SJIF = 2.9).
- A Mani, “Computational Fluid Dynamics Based Verification of Mixing in an Operating Sewage Sludge Anaerobic Digester”, International Journal of Applied Engineering Research, vol. 10, Issue 6, pp. 15351-15362, 2015 (Scopus indexed , Anna University Annexure - II)
- A Mani, “Sonication Studies of Feed Sludge to Anaerobic Digester”, World Journal of Pharmacy and Pharmaceutical Sciences, vol. 4, Issue 2, pp. 937-946, 2015 (Scopus indexed , SJIF = 2.78)
- A. Mani, “Studies on Economic Evaluation of Wastewater treatment alternatives, published in Tamil Nadu Pollution Control Board newsletter, Volume – 6 – Issue 3 & 4, July – Dec 2011, Page 15-19.

#### Recent professional development activities

- Responsible as a full time Engineering Director and overall in charge for taking decisions on various policy matters and Technical issues. Also, involved in one of the Committee members for various Committees constituted in the CMWSSBoard viz. Tender Committee, Management Committee, Employment Committee and Personnel Committee.
- Involved as a Head of “ the Committee of Chief Engineers (Technical Committee) “ for taking decision on adoption of pipe materials, on technical issues relating to design, work execution , addition and deletion of contract quantity based on design modifications , fixing qualification criteria for various major scheme works to incorporate in the Bid Documents before calling tenders.
- Similarly, involved as a Committee member for external agencies such as Directorate of Municipal Administration, Tamil Nadu Water Supply and Drainage Board and Chennai Metropolitan Development Authority for resolving various technical issues, evolution of tenders, awarding works.
- Involved in reviewing and finalizing the designs, Selection of pipe material for 8 ULBS UGSS & 25 ULBS water supply scheme and in preparation of final Detailed Project Report, accorded approval, process of bid preparation, bid invitation, bid evaluation, award of contract and Procurement Management.
- Vetted the two cover system tender documents, single cover tender documents, World Bank Tender documents, reviewed the qualification criteria fixed and other contract conditions and accorded approval to the tender documents to call for tenders. Published notice inviting tender as per Tamil Nadu Tender transparency act for the various UGSS & water supply scheme to the ULBS in added Chennai, receiving tenders, and evolution.
- Vetted the tender documents, reviewed the qualification criteria fixed and other contract conditions, and approved the Tender documents for procurement, and procured the pipe material, chemical, sewer cleaning equipment’s etc. Procured Sewer clearing equipment’s such as Jet Rodding Machine, Jetting cum Suction Machine, Sewer Desilting Machine, Sewer Clearing roads etc. adopting the tender procedure as per TT ACT. Procurement of CI pipe, DI pipe, FRC Doors & Frames, SW Pipes and all other materials required for CMWSSB as per TT ACT.