

January 27, 2025

CV of Dr. R. Sivacoumar, Chief Scientist and Chair, CSIR-NEERI, Chennai

Dr. R. Sivacoumar obtained his Ph.D. in Environmental Engineering in 2005 from the College of Engineering (CEG) at Anna University, Chennai. He earned his Master of Engineering (M.E.) in Environmental Engineering in 1990 and his Bachelor of Engineering (B.E.) in Civil Engineering in 1988, both from the College of Engineering (CEG) at Anna University, Chennai. Dr. R. Sivacoumar has played a pivotal role in academic research leadership within the Science and Technology sector, managing over 138 projects with a total financial investment surpassing 6163 lakhs. He has authored 94 publications and acted as a SEAC expert from 2018 to 2021, during which he assessed more than 500 projects, conducted 100 field visits, and generated 100 reports. His contributions include serving as a member of the Board of Studies and participating as a DC member in both postgraduate and undergraduate programs. Notably, he has directed 20 significant national projects, including two Supreme Court cases concerning Tannery and Sterlite, as well as 12 cases in High and NGT courts.

Dr. R. Sivacoumar's expertise encompasses various divisions, including the Environmental Impact Assessment (EIA) and Air Pollution Control (APC) units of NEERI in Nagpur and Chennai. His research interests cover Air Quality Monitoring, Modelling and Simulation; EIA, EIRA, EA & EQA Studies; Regional EIA, Carrying Capacity & Assimilative Capacity Studies; Water, Wastewater, Soil & Solid Waste Management; Automobile Pollution Monitoring & Modelling; Emission Inventory & Source Apportionment Studies; Urban Air Quality Management; HC/VOC Monitoring; and Mass Housing Scheme Projects, emphasizing the Green Building Concept for effective Air, Water, Grey Water, and Wastewater Management, along with Sustainable Rainwater Harvesting Techniques to enhance groundwater recharge.

Profile of Dr. R. Sivacoumar, Chief Scientist and Chair, CSIR-NEERI, Chennai

Name	Dr. R. Sivacoumar
Designation	Chief Scientist and Chair Vertical 6: CSIR-NEERI, Chennai Zonal Centre (CZC)
Qualification	<ul style="list-style-type: none"> ➤ B.E. (Civil Engineering) ➤ M.E. (Environmental Engineering) ➤ Ph.D. (Environmental Engineering)
Experience (in years)	35
Field of Expertise	Air Quality Monitoring, Modelling and Simulation; EIA, EIRA, EA & EQA Studies; Regional EIA, Carrying Capacity & Assimilative Capacity Studies; Water, Wastewater, Soil & Solid Waste Management, Automobile Pollution Monitoring & Modelling; Emission Inventory & Source Apportionment Studies; Urban Air Quality Management; HC/VOC Monitoring; Mass Housing Scheme Projects with focus on Green Building Concept for Air, Water, Grey water & Wastewater Management with Sustainable Rainwater Harvesting Techniques for augmenting groundwater recharge
Publications (in Nos.)	94 (41 Publication in SCI Journals)
Honors & Awards	<ul style="list-style-type: none"> ➤ The Nawab Zain Yar Jung Bahadur Memorial Medal (2001), Institution of Engineers, India (IEI) ➤ The Shrimati Saroma Sanyal Memorial Award (2010), IEI ➤ Award for Best Paper by IEI ➤ Supervisor Ph. D. (AcSIR, College of Engineering, Guindy; Anna University) ➤ Special Technology Award by All India Skin & Hide Tanners & Merchants Association (AISHTMA), Tamil Nadu Distilleries Association (TNDA) ➤ Leadership Development Program (LDP), 2008 ➤ Marquis Who's Who USA (2008) ➤ State Level Expert Appraisal Committee (SEAC) Expert (2018-2021) ➤ Technical Expert for TNPCB, KSPCB, Supreme, High and NGT Court ➤ Chairman CSIR Foundation Day Celebration 2013 ➤ CLRI House Allotment Committee 2017-2021 ➤ Chairman, CMC Local Grievance Committee 2020-2021
Development of Technology/ Knowhow	<ul style="list-style-type: none"> ➤ Software Development for EIA Modelling: FORTRAN AQ, ATDL, MSA ➤ Rainwater Harvesting Software : SUHWASM-MATLAB and EACE-Excel, ➤ Rainwater Harvesting Manuals
Training Programs/ Events	<ul style="list-style-type: none"> ➤ Indo-Dutch workshop EIA for Industrial Siting and Land use Planning Nagpur and Netherlands October, 1992, Training Programme on APC and HWM at NEERI, Nagpur USEPA, September 1994 ➤ UNEP/WHO/SACEP Training Course on Air Pollution Management at NEERI, Nagpur, September, 1995 ➤ NEERI Golden Jubilee Student Seminar on "Recent Advantages in Environmental Science and Technology", 2007, Chennai ➤ 2 Day National Workshop on Water and Wastewater - Sustainable management March, 2016 ➤ National Workshop on Minamata Convention, and Inventorization of Mercury in India at IIT, Madras December, 2017

	<ul style="list-style-type: none"> ➤ Demonstration on Green Building Concepts to the Leading Builders of India, November 21, 2018 & February 13, 2019 ➤ National Seminar on Impacts of Biomedical Waste on Ecosystem April, 2023, ➤ Workshop on International Conventions on Chemicals and Waste July 08, 2023
Project Clients	More than 50+ Projects with major clients including Tamil Nadu Pollution Control Board (TNPCB), Central Pollution Control Board (CPCB), Ministry of Environment, Forest, and Climate Change (MEF), Puducherry Pollution Control Board (PPCC), Tamil Nadu Water Supply and Drainage Board (TWAD), Central Public Health and Environmental Engineering Organization (CPHEEO), Chennai Metropolitan Water Supply and Sewerage Board (CMWSSB), Airport Authority India (AAI), Indian Oil Corporation Limited (IOCL), Nagarjuna Oil Corporation Limited (NOCL), Chennai Petroleum Corporation Limited (CPCL), Centre for High Technology (CHT), Department of Science and Technology (DST), Oil and Natural Gas Corporation (ONGC), Southern Petrochemical Industries Corporation Limited (SPIC), Chennai Metropolitan Development Authority (CMDA), Kerala State Pollution Control Board (KSPCB), Haldia Petrochemical /limited (HPL), TVS, etc.,
Human Resource Development	<ul style="list-style-type: none"> ➤ Training Scientists, Officers, PAs ➤ Students in Air Quality Sampling ➤ Analysis, Modeling, Emission Inventory ➤ Water and Wastewater Management ➤ Guiding UG, PG, Ph.D. Students

List of Projects (Completed)

Sl. No.	Title of Project	Duration		Project Category & Role	Sponsor	Cost, Lakhs
		From	To			
1. Carrying Capacity Study						
1.	Carrying capacity based development planning for NCR	1992	1995	Consultancy (Member)	MEF, New Delhi	300
2.	Carrying capacity based development planning for Doon Valley	1992	1993	Consultancy (Member)	MEF, New Delhi	225
2. Assimilative Capacity Study						
3.	Air pollution Studies to Redefine Taj Trapezium	1992	1993	R&D (Project Leader)	MEF, New Delhi	50
3. Wind Tunnel Study						
4.	Physical simulation facility for environmental applications	1992	1993	R&D (Member)	MEF, New Delhi	50
4. Characterization of Atmosphere for Regional Air Quality Modeling						
5.	Mini-sonde studies for lower atmosphere temperature and wind profile estimations	1992	1994	R&D (Project Leader)	MEF, New Delhi	50
5. Water Treatment						

6.	Impact of on-site sanitation system on the quality of ground and surface water source Chennai city	2001	2003	Consultancy (Member)	WHO, New Delhi	100
7.	Study on surveillance of drinking water quality in selected cities/town in India (Bangalore & Chennai city)	2002	2003	Consultancy (Member)	CPHEEO, New Delhi	100
8.	Performance Evaluation and Improvement of HOSUR - SIPCOT Water supply Scheme at Kelavarapalli Dam, Hosur	2009	2011	R&D (Project Leader)	TWAD, Krishnagiri	10
6. Wastewater Management						
9.	Wastewater management in Chennai Port Trust	2000	2001	Consultancy (Project Leader)	Chennai Port Trust	10
10.	Wastewater management for cluster of Tanneries in Tamil Nadu	1996	1998	R&D (Member)	All India Skin & Hide Tanners & Merchants Association	225
11.	Wastewater management in Tamil Nadu distilleries	1998	2000	R&D (Member)	Tamil Nadu Distiller's Association	225
12.	Evaluation of Waste Disposal Options for Port Blair Town, Andaman and Nicobar Administration, Port Blair	2001	2002	R&D (Member)	Andaman and Nicobar Administration, Port Blair	35
13.	Design of Sewage Treatment Plant for Calicut Airport, Kerala	2005	2008	R&D (Project Leader)	Airports Authority of India, (AAI) Calicut	10
14.	Design of Sewage Treatment Plants for Tsunami affected areas in 7 Districts of Tamil Nadu	2006	2007	R&D (Project Leader)	Revenue Administration, Disaster Management & Mitigation Department, Chennai	10
7. Environmental Monitoring						
15.	National Ambient Air Quality Monitoring in mega cities of India	1992	2013	R&D (Project Leader)	CPCB, New Delhi	2100 (7 projects)
16.	Evaluation of water pollution and toxic gases emission due	2010	2012	Consultancy (Project)	SIPCOT, Cuddalore	25

	to industries in SIPCOT Cuddalore			Leader)		
17.	Hydro-chemical Study of Groundwater in Puducherry and Karaikal Regions (C-2-2091)	2015	2018	R&D (Project Leader)	Pondicherry Pollution Control Committee, PPCC	10
18.	National Ambient Air Quality Status for Mega Cities of India (G-1-2121)	2015	2018	R&D (Project Leader)	CPCB, New Delhi	251
19.	CSIR - Mission Mode Project on Development of Fast, Durable and Energy Efficient Mass Housing Scheme(HCP 0015)	2018	2021	R&D (Principal Investigator)	CSIR, New Delhi	110
20.	National Ambient Air Quality Monitoring in 6 Cities of India (G-1-2470)	2018	2021	R&D (Member)	CPCB, New Delhi	300
8. Air Pollution Modeling						
21.	Assessment of Dust Emissions from Stone Crushing Industry in Pammal area in Chennai and Perambalur district in Tiruchi	1997	1998	R&D (Project Leader)	TNPCB	8
22.	Assessment of Dust Emissions from Stone Crushing Industry in Trisoolam Area, Tamil Nadu	2005	2007	R&D (Project Leader)	TNPCB	10
23.	Assessment of Dust Emissions from Stone Crushing Industries and Distance Criteria in the State of Tamil Nadu CNP-2713	2021	2024	R&D (Project Leader)	TNPCB, Chennai	40
9. Environmental Impact and Risk Assessment, EIRA						
24.	Rapid Environmental impact assessment and risk assessment of proposed hazardous waste disposal site at Siruseri, Chennai	1996	1997	Consultancy (Member)	TNPCB	25
25.	Environmental Impact and Risk Assessment for the Development of the Existing Puducherry Port into a Deep Water Modern Port	2007	2011	Consultancy (Project Leader)	Puducherry Port, Pondicherry	75
26.	Environmental Impact and Risk Assessment for the Proposed refinery at	2009	2012	Consultancy (Project Leader)	M/s. Nagarjuna Oil Corporation	60

	Thiruchopuram Village Cuddalore District, Tamil Nadu				Project Leader Limited, NOCL, Chennai	
10. Environmental Impact Assessment, EIA						
27.	EIA of Middle Vaitarna Dam project	1991	1992	Consultancy (Project Leader)	Maharashtra State Govt	30
28.	Environmental Impact Assessment of Reliance Petrochemical Complex, Hazira	1991	1993	Consultancy (Project Leader)	M/s.Reliance Petrochemicals	50
29.	Comprehensive EIA of RPG Petrochemical Ltd, Madras	1993	1995	Consultancy (Project Leader)	M/s. RPG Petrochemical Ltd, Madras	50
30.	Comprehensive EIA of Visakh Refinery Ltd, Visakhapatnam	1992	1994	Consultancy (Project Leader)	M/s. Visakh Refinery Ltd, Visakhapatnam	60
31.	Comprehensive EIA of Proposed Thermal Power Plant, North Madras	1996	1998	Consultancy (Project Leader)	Madras Refinery Ltd	50
32.	Comprehensive EIA of Proposed Refinery, Nagapattinam	1997	1999	Consultancy (Project Leader)	Indian Oil Corporation	60
33.	EIA of Aerated Lagoons, Bombay	March 1992	December 1992	Consultancy (Member)	Bombay Municipal Corporation, BMC	50
34.	EIA of BALCO Mines, Madhya Pradesh	1992	1993	Consultancy (Member)	Bharath Aluminium Company Ltd., BALCO	60
35.	Rapid EIA of Expansion Project of NFL, Vijaipur	1992	1993	Consultancy (Member)	National Fertilizer Limited, NFL Vijaipur	50
36.	Regional EIA studies for Jamshedpur region	1992	1993	Consultancy (Project Leader)	Tata Iron and steel Company TISCO, Jamshedpur	80
37.	Rapid EIA for Proposed Secondary Processing Facilities of Mathura Refinery	January 1994	April 1994	Consultancy (Project Leader)	Indian Oil Corporation, IOC	25
38.	Rapid environmental impact assessment for proposed matching secondary	1994	1995	Consultancy (Project Leader)	Indian Oil Corporation, IOC	25

	processing facilities for Panipat refinery					
39.	Rapid environmental impact assessment for marketing facilities for Panipat refinery	1994	1995	Consultancy (Project Leader)	IOCL, New Delhi	25
40.	Comprehensive EIA study for Kota thermal power plant	1995	1996	Consultancy (Member)	Rajasthan Electricity Board, REB	25
41.	Rapid EIA study for Dholpur plant	1995	1996	Consultancy (Member)	Rajasthan Electricity Board, REB	25
42.	Environmental impact assessment for proposed development of petrochemical estate for establishment of petrochemical project at Ennore, Phase I	1996	1998	Consultancy (Project Leader)	MRL, Chennai	30
43.	Rapid EIA for proposed Thermal Power plant at Jojobera	January 1996	July 1996	Consultancy (Project Leader)	Tata Iron and Steel Company (TISCO), Jams hedpur	25
44.	EIA for Proposed Development of Petro Chemical Estate for Establishment of Petrochemical Project at Ennore, Phase II	March 1996	January 1997	Consultancy (Project Leader)	Tamil Nadu Industrial Development Corporation, TI DCO, Chennai	40
45.	Comprehensive Environmental impact assessment study of 8MMTPA expansion of Cauvery basin refinery(south India) Nagapatinam, Tamil Nadu	1999	2001	Consultancy (Project Leader)	ONGC, Karikal	60
46.	Rapid environmental impact assessment of proposed expansion of additional zinc plating, wire processing and dacro unit to the existing phosphating plant of M/s Sundaram Fasteners, Mittamandagapattu, Villupuram Tamil Nadu.	2002	2004	Consultancy (Project Leader)	M/s. Sundram Fasteners, Madurai	10
47.	Initial Environmental Assessment for Proposed Paints Manufacturing Plant	2002	2003	R&D (Project Leader)	APIL, Pondicherry	5

	of Asian Paints India Limited (APIL) at Korkadu, Pondicherry, Asian Paints, Pondicherry					
48.	Rapid environmental impact assessment of proposed Bio-tech park, Selvankuppam, Kancheepuram District, Tamil Nadu	2003	2005	Consultancy (Project Leader)	Tamil Ndu Industrial Development Corporation, TIDCO	15
49.	EIA Study for the Expansion of CDU/VDU (Refinery - III), Revamp of NHDT - CRU and Euro - IV Project at Manali Refinery Complex, Tamil Nadu	2007	2011	Consultancy (Project Leader)	Chennai Petroleum Corporation Limited, CPCL	40
50.	EIA study for the Proposed resid upgradation project at Manali refinery complex, Chennai, Tamil Nadu	1999	2011	Consultancy (Project Leader)	M/s. Chennai Petroleum Corporation Limited, CPCL	30
51.	EIA for alignment 4A for Sethusamundram Channel, Tamil Nadu	2009	2010	Consultancy (Member)	National Shipping Corporation of India	100
52.	Comprehensive Environmental Impact Assessment for additional units 3 to 6 of Nuclear plants at Kudankulam, Tirunelveli district, Tamil Nadu	2002	2004	Consultancy (Member)	M/s. Nuclear Power Corporation Limited	60
53.	Environmental Impact Assessment of off-shore facility of ONGC at Nellore, Andrapradesh	2007	2008	Consultancy (Member)	M/s. Oil and Natural Gas Corporation Ltd., ONGC	60
54.	Environmental Impact Assessment Study of M/s CPCL, Manali Refinery Complex, Tamil Nadu (Project No. CNP-4-1895)	2013	2016	R&D (Project Leader)	M/s CPCL, Manali Refinery Complex, Tamil Nadu	60
55.	EIA Studies for the Proposed Petrochemical Complex along with Marine Jetty, CNP-2646	2000	2023	R&D (Task Leader Air Environment)	Haldia Petrochemicals Ltd., Kolkata	60

11. Environmental Quality Assessment, EQA

56.	Inspection Report for Assessment of Pollution from Brick Kilns around Taj	January 1996	May 1996	Consultancy (Member)	Brick Kilns Association, Agra	30
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	Trapezium, Agra					
57.	Study on urban air quality in Chennai city	2003	2004	Consultancy (Project Leader)	World Bank (Project Leader)	30
58.	Environmental Quality Assessment of Gem Stone Beach Resort and Theme Park Site, Tamil Nadu	1996	2012	Consultancy (Project Leader)	M/s.Gem Stone Beach Resorts (P) Limited	150 (15 projects)
59.	Environmental quality assessment of M/s Sundaram Fasteners, Krishnapuram, Madurai, Tamil Nadu.	1998	2000	Consultancy (Project Leader)	M/s. Sundram Fasteners, Madurai	10
60.	Environmental Quality Assessment for M/s. Sundram Fasteners at Mittamandagapattu, Tamil Nadu	2005	2007	Consultancy (Project Leader)	M/s. Sundaram Fasteners, Madurai	10
61.	Environmental Quality Assessment of Beach Resort & Theme Park Site of M/s. Gem Stone Beach Resorts (P)Ltd., Muttukadu, Chennai (C-7-2007)	2013	2015	R&D (Project Leader)	M/s. Gem Stone Beach Resorts (P)Ltd., Muttukadu, Chennai	11
62.	Environmental Quality Assessment of Beach Resort & Theme Park Site of M/s. Gem Stone Beach Resorts (P) Ltd., Muttukadu, Chennai (C-7-2188)	2015	2018	R&D (Project Leader)	M/s. Gem Stone Beach Resorts (P) Ltd., Muttukadu, Chennai	11
63.	EQA study of the Beach Resort & Theme Park Site of M/s.Gem Stone Beach Resorts (P)Ltd., Muttukadu, Chennai for the year 2018-2019 (C-7-2382)	2018	2019	R&D (Project Leader)	M/s. Gem Stone Beach Resorts (P) Ltd., Muttukadu, Chennai	13
64.	EQA study of the Beach Resort & Theme Park Site of M/s.Gem Stone Beach Resorts (P)Ltd., Muttukadu, Chennai for the year 2019-2020 (C-7-2497)	2019	2020	R&D (Project Leader)	M/s. Gem Stone Beach Resorts (P) Ltd., Muttukadu, Chennai	13
65.	EQA study of the Beach Resort & Theme Park Site of M/s.Gem Stone Beach Resorts (P) Ltd., Muttukadu,	2021	2023	R&D (Project Leader)	Gem stone Beach Resort (P) Ltd. Muttukadu,	13

	Chennai, CNP-7-2656				Chennai	
66.	EQA study of the Beach Resort & Theme Park Site of M/s.Gem Stone Beach Resorts (P) Ltd., Muttukadu, Chennai, CNP-2776	2022	2024	R&D (Project Leader)	Gem stone Beach Resort (P) Ltd. Muttukadu, Chennai	13
67.	EQA study of the Beach Resort & Theme Park Site of M/s.Gem Stone Beach Resorts (P) Ltd., Muttukadu, Chennai, CNP-2917	2024	2026	R&D (Project Leader)	Gem stone Beach Resort (P) Ltd. Muttukadu, Chennai	15
12. Automobile Pollution Monitoring and Modeling						
68.	Urban road traffic and air pollution in Chennai and Bangalore	2001	2002	R&D (Project Leader)	Center for High Technology, New Delhi	100
69.	Development of on-road vehicle emission factors automobiles and modeling of automobile pollution in Chennai city (Ph.D. Topic)	2000	2005	R&D (Project Leader)	In-house research	-
13. HC/VOC Monitoring						
70.	Inventory of evaporation emission of hydrocarbon from various source in Chennai, Delhi, Kolkatta and Mumbai	2003	2004	R&D (Member)	TNPCB	30
71.	Inventory of Evaporative Emission of Hydrocarbon from Various Sources in Chennai	2004	2005	R&D (Project Leader)	CPCB, New Delhi	50
72.	Assessment of Fugitive Emissions, especially VOC and HC, in the work zone area of the Refinery Complex of Chennai Petroleum Corporation Limited at Manali, Chennai	2008	2009	R&D (Project Leader)	M/s. Chennai Petroleum Corporation Limited	15
14. Environmental Monitoring						
73.	Air quality monitoring, source emission monitoring and source Apportionment study	2004	2005	R&D (Project Leader)	Petroleum Industries	200
74.	Environmental Audit at Harihar Alloys Private Limited, Forging Division, Trichy	2013	2015	R&D (Project Leader)	Harihar Alloys Private Limited, Forging	10

					Division, Trichy	
75.	Inspection Report of M/s. Athiappa Chemicals Pvt. Ltd., Mettupalayam, Puducherry	2015	2016	R&D (Project Leader)	M/s. Athiappa Chemicals Pvt. Ltd., Mettupalayam, Puducherry	5
76.	Assessment of impact of noise around Tenkailasanatha Temple (Sri Vadakkunntha Temple) in Thrissur City, Kerala due to Pooram Festival fireworks*	2015	2018	R&D (Project Leader)	ASI, Thrissur	2
77.	Assessment and Decontamination study of soil and ground water of IOCL outlet, M/s. AP Enterprises, Mogappair West Area, Chennai (C-3-2118)	2015	2018	R&D (Project Leader)	M/s. AP Enterprises, Mogappair West Area, Chennai	15
78.	Preparation of Compendium on Environmental Statistics in the UT of Puducherry under SSS Scheme, G-1-2533	2019	2023	R&D (Task Leader Air Environmen t)	Puducherry Govt.	38
79.	Environmental Monitoring of Bio-Medical Waste (BMW) Management Facility, Virudhunagar, Tamil Nadu CNP-2913	2024	2025	R&D (Project Leader)	RE Sustainability Solutions Pvt., Ltd., Hyderabad	50
15. Solid Waste Management						
80.	Assessment of Status of Municipal Solid Waste Management in Metro, class I and II Cities	2003	2004	Consultancy (Member)	CPHEEO	200
16. Hon'ble Supreme Court, New Delhi						
81.	Inspection report of M/s. Sterlite Industries (India) Limited, Tuticorin	April,2012	August, 2012	Consultancy (Project Leader)	M/s. Sterlite Industries (India) Limited	20
82.	Member of Technical Sub-committee of Empowered Committee (EC) constituted to study the proposal "Dust free Handling of Coal and other Dusty Cargos in Chennai Port"	June, 2016	December, 2016	Hon'ble Supreme Court, New Delhi (Project Leader)	TNPCB, Chennai	1
17. Hon'ble High Court of Madras and Kerala						

83.	Inspection report of M/s. Sree Yanam steel (P) Ltd., Pondicherry W.P. 9599 of 2006 before Hon'ble High court of Madras	April, 2007	May, 2007	Consultancy (Project Leader)	M/s. Sree Yanam steel (P) Ltd	1
84.	Inspection report on M/s Athiappa Chemicals (P) Limited, Mettupalayam - Union Territory of Puducherry, WP No. 18483 of 2007, Hon'ble High Court of Madras, Chennai, Tamil Nadu	September, 2007	August, 2007	Consultancy (Project Leader)	M/s. Athiappa Chemicals (P) Limited	1
85.	Inspection report of M/s. Cochin Refinery, Kerala	October, 2011	December, 2011	Consultancy (Project Leader)	M/s. Cochin Refinery	2
86.	Inspection report of M/s. Nitta Gelatin, Kathi kudam, Kerala	January, 2011	June, 2014	Consultancy	M/s. Nitta Gelatin, Kathi kudam, Kerala	80
18. National Green Tribunal						
87.	Inspection Report of M/s. Royal Crushing & Quarry unit at Neduvathoor Village, Kottarakara Taluk, Kerala State	June, 2015	December, 2015	NGT, Chennai (Project Leader)	NGT, Chennai	1
88.	Inspection Report of M/s. Chemfab Alkalis (P) Ltd, Kalapet, Puducherry	May, 2015	December, 2015	NGT, New Delhi (Project Leader)	M/s. Chemfab Alkalis (P) Ltd, Kalapet, Puducherry	1
89.	Hon'ble National Green Tribunal OA No: 76/2017, 259 OF 2017 & 260/2017(Sothen Zone) O.A. No. 259/2017 dated 06/01/2020 Lawyers' Environmental Awareness Forum (LEAF) Vs. Government of Kerala State Pollution Control Board, (KSPCB) and others	2022	2024	Hon'ble National Green Tribunal, Sothern Zone, Chennai (Technical Member)	KSPCB, Thiruvananthapuram	1

Details of Publications in International Journals

Sl. No.	Authors	Title of the Article	Year of Publication	Name of Journal	Country	Vol. No.
a.) International Journals						
1.	R. Sivacoumar, K.Thanasekaran	Line source model for vehicular pollution prediction near roadways and model evaluation through statistical analysis	1999	Journal of Environmental Pollution (SCI 3.7)	Elsevier Publication, UK	Vol.104 (3), pp. 389-395
2.	R. Sivacoumar and K. Thanasekaran	Comparison and performance evaluation of line source models used for vehicular pollution prediction	2001	Journal of Environmental Engineering (SCI 2.312)	American Society of Civil Engineers (ASCE), USA	Vol. 127, No.6, pp. 524-530
3.	R. Sivacoumar, A.D.Bhanarkar, S.K. Goyal, S.K.Gadkari and A.L. Aggarwal	Air Pollution modeling for an industrial complex and model performance evaluation	2001	Journal of Environmental pollution (SCI 3.7)	Elsevier publication, UK	Vol. 11(3), pp. 471-477
4.	A.D. Bhanarkar, S.K. Goyal, R. Sivacoumar and C.V.C Rao.	Assessment of contribution of SO ₂ and NO ₂ from different sources in Jamshedpur regions, India	2005	Journal of Atmospheric Environment, Elsevier (SCI 3.465)	Elsevier publication, USA	Vol.39 (40), pp. 7745-7760
5.	R. Sivacoumar, R. Jayabalou, S. Swarnalatha and Kalpana Balakrishnan	Particulate from Stone Crushing Industry: Size Distribution and Health Effects	2006	Journal of Environmental Engineering, ASCE (SCI 2.312)	American Society of Civil Engineers (ASCE), USA	Vol. 132 (3), pp. 405-414
6.	Sri B. Muruganandam, R. Saravanane, M. Lavanya and R. Sivacoumar	Effect of Inoculum-substrate ratio on acclimatization of pharmaceutical effluent in an anaerobic batch reactor	2008	Journal of Environmental Science and Engineering, NEERI (SCI 0.3)	India	Vol.50 (3), pp. 19-196
7.	R. Sivacoumar, S. Mohan Raj, S. Jeremiah Chinnadurai and R. Jayabalou	Modeling of fugitive dust emission and control measures in stone crushing industry	2009	Journal of Environmental Monitoring, RSC (SCI 2.225)	RSC, USA	Vol. 11(5), pp. 98-997
8.	Manda Chitti Babu, R. Saravanane and R. Sivacoumar	Anaerobic pretreatment and increased solid destruction for vegetable solid waste co-digested with cattle slurry	2009	Journal of Environmental Science and Engineering, NEERI (SCI 0.3)	India	Vol. 51(1), pp. 67-72
9.	Manda Chitti Babu, R. Saravanane and R. Sivacoumar	Anaerobic Co-digestion and increased Solid Destruction for organic	2009	Journal of Environmental Engineering	India	Vol. 90, pp. 3-7

		fraction of municipal solid waste with cattle slurry		Division, Institution of Engineers (IEI) (SCI 0.3)		
10.	S. Tamijevendane, R. Saravanane, R. Rajesh and R. Sivacoumar	Anaerobic stabilization and conversion of transformed intermediates of pharmaceutical effluent in a fluidized bed reactor	2011	Journal of Environmental Science and Engineering, NEERI (SCI 0.3)	India	Vol.53 (3), pp. 23-236
11.	R.Sivacoumar, K. Latha and R. Jayabalou	Design, Development and Economic Evaluation of Small and Decentralized Wastewater Treatment System	2014	Journal of Aquatic Biology and Fisheries,	India	Vol. 2; pp. 779 - 791
12.	R.Sivacoumar and R. Jayabalou	Assessment and Prediction of Impact Zone for Cluster of Air Polluting Industries under Variable Operating Conditions and Models Performance Appraisal	CSIR-NEERI/KRC/2016/DEC/CZL/1 dated December 27, 2016	Stochastic Environmental Research and Risk Assessment	Springer, USA	under final review for publication
13.	R.Sivacoumar and R. Jayabalou	Assessment of Source Contribution to Ambient Air Quality through Comprehensive Emission Inventory, Long-term Monitoring and Deterministic Modeling(SCI: 2.037)	2018	International Journal of Environmental Science & Technology	Springer, USA	Volume 16, Issue 6, pp. 2765 - 2782
b.) Indian Journals						
14.	R.Sivacoumar , A.L.Aggarwal, S.K.Goyal	Air Quality Prediction: Influence of Model Parameters and Sensitivity Analysis	1997	Indian Journal of Environmental Protection	India	Vol. 17(9), pp. 650-655
15.	R. Sivacoumar , M. Bhushan	Computer Programme for Estimation of Vehicular Emission from Roadways: A Case Study	August, 1998	Indian Journal of Environmental Protection	India	Vol.18 (8), pp. 608-612
16.	R. Sivacoumar , K.Thanasekaran	Estimation of Vehicular Pollution from Transport sector for Madras City	September, 1998	Research Journal of Chemistry and Environment	India	Vol.2 (3), pp. 45-52
17.	R. Sivacoumar , K.Thanasekaran	Statistical Method and Computer Programme for Evaluation of Model Performance	November, 1998	Indian Journal of Environmental Protection	India	Vol. 18(11), pp. 841-849
18.	R. Sivacoumar , R.Jayabalou, Y.V.Subrahmanyam and N.Jothikumar	Size Measurement and Distribution of Dust Particles: Stone Crushing Industry	1999	Indian Association for Environmental	India	Vol. 26 (3), pp. 172-176

				Management, IAEM		
19.	R. Sivacoumar, A.D.Bhanarkar, S.K.Goyal and S.K.Gadkari	Air Quality Prediction and Model Performance Evaluation	1999	Indian Association for Environmental Management, IAEM	India	Vol. 26 (3), pp. 163-167
20.	R.Sivacoumar	Line of Models for Vehicular Pollution prediction	1999	Indian Association for Environmental Management, IAEM	India	Vol. 27 (3), pp. 1999
21.	R. Sivacoumar, R.Jayabalou, Y.V. Subrahmanyam and N.Jothikumar	Air Pollution around Stone Crushing Industry	2000	Journal of Industrial Pollution Control	India	Vol.16 (2), pp. 205- 210
22.	R. Sivacoumar, K.Thanasekaran	Emission Factors and Emission Estimation for Indian Vehicles: A Case Study	2000	The Institution of Engineers (India), Environmental Engineering Division, Calcutta	India	Vol.81, pp. 28-31
23.	R. Sivacoumar	Vehicular Pollution near Roadways in Chennai City	August, 2000	Indian Journal of Environmental Protection	Varanasi, India	Vol.20(8), pp. 592- 596
24.	R. Sivacoumar, V. Kothandaraman, A.K. Biswas	Performance Evaluation of Common Effluent Treatment Plant for Tanneries in Tamil Nadu	2000	Indian Association for Environmental Management, IAEM	India	Vol. 27(2), pp. 184- 188
25.	R. Sivacoumar, R.Jayabalou, Y.V.Subrahmanyam N.Jothikumar and S.Swarnalatha	Air Pollution in Stone Crushing Industry and associated Health Effects	October, 2001	Indian Journal of Environmental Health	India	Vol. 43 (4), pp. 169-173
26.	R.Saravanane, M.A. Sivasankaran and S.Sundararaman, R. Sivacoumar	Anaerobic co-digestion of solid waste and bio-gas sustainability	April, 2004,	Indian Journal of Environmental Science and Engineering, NEERI, Nagpur	India	Vol. 46(2), pp. 116- 122.

27.	R. Sivacoumar, R. Jayabalou, S. Swarnalatha, N. Vinayagamoorthy	Air quality status of a beach resort and theme park site with special reference to particle size distribution	October, 2004	Journal of Indian Association for Environmental Management	India	pp. 177-181
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Details of Papers published in Conference Proceedings

Sl. No.	Authors	Title of the Article	Date/ Year	Name of Conference	Venue	Vol. No. pp	Publisher
a.) Papers published in International Conference							
1.	R.Sivacoumar, A.L.Aggarwal and A.H.Khan	Air Quality Modelling for EIA studies	October 12-17, 1992	Indo-Dutch workshop on Environmental Impact Assessment for Industrial Siting and Landuse Planning	National Environmental Engineering Research Institute (NEERI),Nagpur and GEOPLAN, the Netherlands		Published in Conference Proceedings, NEERI, Nagpur
2.	R.Saravanane and R.Sivacoumar	Studies on low cost treatment and waste minimization in chemical and metal finishing industries	Nov. 14- 18, 1999	International Conference on Waste Minimization and End of pipe Treatment in Chemical and Petrochemical Industries	Mexico, USA	pp. 333-340.	Conference proceedings.,
3.	R.Saravanane and R.Sivacoumar	Ultrafiltration and Reverse Osmosis bioreactor system for treatment of pharmaceutical effluent	Nov. 1-4, 1999	International Specialized conference on Membrane Technology in Environmental Management	Tokyo, Japan	pp. 416-419	Published in Conference Proceedings
4.	R.Saravanane and R.Sivacoumar	Co-digestion and integrated biomethanation for waste management of sugar industry and municipal sewage plant	Nov. 25- 27, 1999	International Conference on Environmental Challenges for the New Millennium'99	(ECNM'99) New Delhi, India	pp. 258-265	Published in Conference Proceedings
5.	R.Saravanane and R.Sivacoumar	Anaerobic system for treating synthetic drug based pharmaceutical effluent – a Laboratory scale study	Nov. 25- 27, 1999	International Conference on Environmental Challenges for the New Millennium'99	(ECNM'99) New Delhi, India	pp. 266-271	Published in Conference Proceedings

6.	R. Sivacoumar, R. Jayabalou, Y.V.Subrahmanyam, N. Jothi Kumar	Dust and its associated health effects – stone crushing industry,	December 17-18, 1999	Annual conference: Environmental Management in the Next Millennium : Technology Human Resource Linkages, International conference	Indian Association for Environmental Management, NEERI, Nagpur	pp. 51-57	Indian Association for Environmental Management, NEERI, Nagpur
7.	R. Sivacoumar	Line source models for vehicular pollution prediction near roadways	December 17-18, 1999	Human Resource Linkages, International conference	Indian Association for Environmental Management, NEERI, Nagpur	pp. 16-21	Indian Association for Environmental Management, NEERI, Nagpur
8.	R.Saravanane and R.Sivacoumar	Co-digestion and integrated biomethanation for agricultural management from sugar industry and municipal sewage plant	January 16-21, 2000	4 th International IAWQ Specialised Conference on Diffuse Pollution	Bangkok	pp. 610-613	Published in Conference Proceedings
9.	R.Saravanane and R.Sivacoumar	Removal of biomass and dissolved solids from a cephradine based pharmaceutical effluent using a combined Ultrafiltration and Reverse Osmosis system	April, 3-7, 2000	Water Filtration Congress 8	Brington, U.K	pp.432-439	Published in Conference Proceedings
10.	R.Saravanane and R.Sivacoumar	Process performance and effect of micronutrients on dairy effluent using an anaerobic fluidized bed reactor	July 3-7, 2000	Paris 2000, 1st World Water Congress	France	pp. 123-127	Published in Conference Proceedings
11.	R.Saravanane and R.Sivacoumar	Anaerobic system for treating synthetic drug based pharmaceutical effluent – a laboratory scale study	July 3-7, 2000,	Paris 2000, 1st World Water Congress	France	pp. 234-241	Published in Conference Proceedings

12.	R.Saravanane and R.Sivacoumar	Dissolved air flotation unit with membrane bioreactor for waste management in the pharmaceutical industry	Sep. 11-14, 2000	4 th IWA international Conference on Flotation in Water and Wastewater Treatment	Helsinki Finland, U.K	pp. 267-271	Published in Conference Proceedings
13.	Raman Saravanane and R.Sivacoumar	Use of sequential anaerobic and aerobic conditions for the biotransformation and bioreclamation of tetrachloroethylene in an anti-biotic pharmaceutical waste sludge using co-substrates	Sep. 18-20, 2000,	IWA Conference on Critical Technologies to the World in 21 st Century: Pollution Control and Reclamation in Process Industries	Beijing, P.R. China	pp. 218-224	Published in Conference Proceedings
14.	Kanchana Swaminathan, Y.V.Subrahmanyam, R. Sivacoumar and S.N. Kaul	Performance Evaluation of a Bio-methanation System Treating Distillery Effluent	April 18-21, 2001	International conference on New Horizons in Biotechnology	Trivandrum, India.	pp. 71-75	Published in Conference Proceedings
15.	R.Saravanane and R. Sivacoumar	Use of sequential anaerobic and aerobic conditions for bioremediation of tetrachloroethylene in an antibiotic pharmaceutical waste sludge using co-substrates	July 2-5, 2001	First European Bioremediation Conference	Greece, UK	pp. 136 - 142	Published in Conference Proceedings
16.	R. Saravanane, V. Murugaiyan and R. Sivacoumar	Assessment of toxicity and bioremediation of anti-biotic pharmaceutical effluent contaminated clayey soil - use of bio-	June 2003	35 th Mid Atlantic Industrial and Hazardous Waste Conference (MAIHC)	Polytechnic University, Civil and Environmental Engineering Department, 6	pp. 242-246	Published in Conference Proceedings

		augmentation technique			Metro Tech Center, Brooklyn, NY		
17.	R.Saravanane, V. Murugaiyan and R. Sivacoumar	Small scale anaerobic system for treating synthetic drug based pharmaceutical effluent - a feasibility study	September 24-26, 2003	5 th specialised Conference on Small Water and Wastewater Treatment systems	Istanbul, Turkey,	pp.272-276	Published in Conference Proceedings
18.	R. Saravanane, V.Murugaiyan and R. Sivacoumar	Studies on sequential anaerobic and aerobic conditions for the recycle and reuse of tetrachloroethylene effluent using co-substrate	September 26-29, 2003	IWA Mediterranean Regional Symposium on water recycling and reuse, International Water Association (IWA)	Iraklion, Crete, Greece	pp. 121-127	Published in Conference Proceedings
19.	R. Saravanane, M.A. Sivasankaran and R. Sivacoumar	Anaerobic treatment and co-digestion of pharmaceutical waste sludge in a fluidized bed reactor	August, 29-September 2, 2004	International Water Association (IWA), Anaerobic digestion to Anaerobic Bio-conversion for Sustainability	Montreal, Canada		Published in Conference Proceedings
20.	R. Saravanane, M.A. Sivasankaran and R. Sivacoumar	Integrated reuse of secondary sewage effluent in water stressed environments	November 4-10, 2004	International Water Association (IWA) sustaining a water limited environment	Sydney, Australia		Published in Conference Proceedings
21.	R. Saravanane, M.A. Sivasankaran and R. Sivacoumar	Anaerobic pretreatment and increased solid destruction of secondary sewage sludge and municipal solid waste for reuse and recovery	August, 29-September 2, 2004	International Water Association (IWA) Anaerobic digestion 10 Anaerobic Bio-conversion for Sustainability	Montreal, Canada		Published in Conference Proceedings
22.	R. Saravanane, M.A. Sivasankaran and R. Sivacoumar	Integrated and productive water use for the water management of pharmaceutical Industry	July 28-30, 2004	International Water Association (IWA), Water and Wastewater Management for Developed Countries	Victoria Falls, Zimbabwe		Published in Conference Proceedings

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23.	R. Saravanane, M.A. Sivasankaran and R. Sivacoumar	Application vibratory shear enhanced system for fouling reduction and recovery and reuse of pharmaceutical waste sludge - A case study	June 7-10, 2004	International Water Association (IWA) Water Environment Membrane Technology	Seoul, Korea		Published in Conference Proceedings
24.	R. Sivacoumar and R. Jayabalou	Sanitation Guidelines for more than 200 Houses and Large Scale Treatment System	November 14, 2006	One Day International Workshop on Water and Sanitation in Post Tsunami Reconstruction in connection with Tsunami Rehabilitation Information Network	Government of Tamil Nadu in collaboration with Project Management Unit at TWAD Board, Chennai		Published in Conference Proceedings
25.	R. Sivacoumar and R. Jayabalou	Air Pollution from Stone Crushing Industry	January 4-6, 2007	International Conference on Cleaner Technologies and Environmental Management, ICCTEM	Pondicherry Engineering College, Pondicherry and Indian Institute of Chemical Engineers, Pondicherry Regional Centre	Vol.2, pp. 21-27	Department of Civil Engineering, Pondicherry Engineering College , PEC
26.	R. Sivacoumar	Sustainable Development: Transport Sector	March 31, 2007	International Conference on Indo French technologies for sustainable environment (IWIFTSE 2008) Cleaner Technologies and Environmental Management (ICCTEM)	Pondicherry Engineering College, Pondicherry and Intercultural Network for Development and Peace, France.	Vol.2, pp. 67-74	Department of Civil Engineering, Pondicherry Engineering College, PEC
27.	B.Muruganandam, R. Saravanane and	Anaerobic Stabilization of Transformed	September 23-27,	11 th International Water Association (IWA), Specialist	Brisbane, Australia	Published in Conference	International Water Association (IWA),

	R. Sivacoumar	Intermediates of Cephalosporin Anti-Biotic Waste Stream In A Fluidized Bed Reactor	2007	Conference on Anaerobic Digestion		Proceedings	UK
28.	K. Stalin, S. Sudalai, R. Saravanane, M. Dheenadayalan, R. Sivacoumar and T. Muthukumaran	Effect of Non-ionic Surfactants (Alcohol Ethoxylates) Recovery on Enhanced Volatile Solids Destruction for Reuse of Concentrated Black Water and Kitchen Residues from Households	February 6-9, 2008	8 th IWA Specialised Conference on Small water and wastewater systems and 2 nd IWA Specialised Conference on Decentralized Water and Wastewater International Network (DEWSIN) and International Water Association (IWA), UK	Kumaraguru College of Technology, Coimbatore, India.	Published in Conference Proceedings	International Water Association (IWA), UK
29.	B. Radjaram and R. Saravanane and R. Sivacoumar and M. Dheenadayalan	Diurnal and organic Loading Rate Variations on Fluidized Aerobic Bed (FAB) Reactor for onsite Wastewater Treatment and Reuse	February 6-9, 2008	8 th IWA Specialised Conference on Small water and wastewater systems and 2 nd IWA Specialised Conference on Decentralized Water and Wastewater International Network (DEWSIN) and International Water Association (IWA), UK	Kumaraguru College of Technology, Coimbatore, India.	Published in Conference Proceedings	International Water Association (IWA), UK
30.	R. Sivacoumar	Automobile pollution and modeling	April 8, 2008	International Conference on Indo French technologies for sustainable environment (IWIFTSE 2008) Cleaner Technologies and Environmental Management (ICCTEM)	Pondicherry Engineering College, in association Intercultural Network for Development and Peace, France.	Vol.3, pp. 67-75	Department of Civil Engineering, Pondicherry Engineering College, PEC
31.	R. Sivacoumar Mohan Raj, Jeremiah, Suresh Kumar, Kapil	Impact of fugitive Dust Emissions from Stone Crushing Industries on nearby Communities	January 4-7, 2011	4 th International Perspective on Water Resources & the Environment, IPWE'11	National University of Singapore, Singapore	Vol.6, pp. 14 - 19	EWRI-ASCE Environmental & Water Resources Institute and

							American Society of Civil Engineers, ASCE
32.	R. Sivacoumar, S. Sandhya, K. Swaminathan, A. Hari, M.N. Amudha, K. Hemalatha, N. Srinivasan	Ammonia and Phosphate Removal for Drinking Purpose from Lake Water in Water Treatment plant	January 4-7, 2011	4 th International Perspective on Water Resources & the Environment, IPWE'11	National University of Singapore, Singapore	Vol.6, pp. 21-28	EWRI-ASCE Environmental & Water Resources Institute and American Society of Civil Engineers, ASCE
33.	R. Sivacoumar	Design of Fluidised Biological Reactor Based Sewage Treatment Plant for cluster of residential areas in Tsunami affected Districts of Tamilnadu	January 19-21, 2011	Water'11 in Souvenir International Conference on Sustainable Water Resource Management and Treatment Technologies	NEERI, Nagpur, India	Vol.44, pp. 429-436	NEERI, Nagpur
34.	R. Sivacoumar	Decentralized Sustainable Sewage Treatment System using Fluidized Aerobic Biological Technology	October 3-5, 2013	University of Kerala, Thiruvananthapuram, Kerala and Directorate of Environment & Climatic change, Govt. of Kerala.	University of Kerala, Thiruvananthapuram, Kerala	Vol.2; pp 131-136	ECOCASD, University of Kerala
35.	R. Sivacoumar	Assessment of fugitive emission of HC, VOCs especially halogenated POPs in the work zone and ambient air of the refinery complex,	January 16-17, 2014	International symposium on halogenated persistent organic pollutant (IEEP-2014)	CSIR-NEERI, Nagpur	Vol.13; pp 145-151	CSIR-NEERI, Nagpur
b.) Paper published in National Conference							
36.	R. Sivacoumar, A.L.Aggarwal, A.H. Khan, Rekha Thakre and S.K.Gadkari	Impact of Transportation on Sensitive Receptors in Indian Metropolis and Mitigation through	February 12-13, 1993	National Seminar on Urban Transportation	New Delhi	Published in Conference Proceedings	CRRI, New Delhi

		Green Belt - Case Study					
37.	R.Sivacoumar, A.L.Aggarwal and S.K.Goyal	Air Pollution Control Strategies for Coal based Thermal Power Generation	October 24-26, 1996	National Seminar on Environmental Management in Power Sector	NPTI Complex, Faridabad	Published in Conference Proceedings	NTPC, New Delhi
38.	R. Sivacoumar, R.Jayabalou, Y.V.Subrahmanyam and N.Jothikumar	Air Pollution in and around Stone Crusting Industry	November 18-20, 1998	National seminar on Better World Environment through Engineering, Evaluation and Management	Technical Teachers' Training Institute (TTTI), Taramani, Chennai	pp.19-21	Technical Teachers' Training Institute (TTTI)
39.	R. Sivacoumar	Vehicular Pollution in Madras City	November 18-20, 1998	National seminar on Better World Environment through Engineering, Evaluation and Management	Technical Teachers' Training Institute (TTTI) Taramani, Chennai	pp. 33-35	Technical Teachers' Training Institute (TTTI)
40.	R. Sivacoumar, R.Jayabalou, Y.V.Subrahmanyam and N.Jothikumar	Size Distribution of Particulate Matter in and around Stone Crusting Industry	November 18-20, 1998	National seminar on Better World Environment through Engineering, Evaluation and Management	Technical Teachers' Training Institute (TTTI), Taramani, Chennai	pp. 53-55	Technical Teachers' Training Institute (TTTI)
41.	R.Sivacoumar, A.L.Aggarwal and S.K.Goyal	Dispersion predictions - air quality management tool, precision should not be confused with accuracy	October 24-26, 1998	National Seminar on Environmental Management in Power Sector	NPTI Complex, Faridabad	Published in Conference Proceedings	NTPC, New Delhi
42.	R. Sivacoumar	Evaluation of Small and Decentralized Sustainable Sewage treatment System	November 12 - 13, 2013	National Workshop on Cleaner Technologies for Water and Wastewater Treatment	Department of Civil Engineering, NIIT, Trichy	Published in the workshop Proceedings	NIIT, Trichy
43.	R. Sivacoumar	Global Technologies for Sustainable Development and	January 27- 28, 2014	National Conference on Challenges of Water Resource and Environmental Management	Department of Civil Engineering, Easwari	Published in the workshop Proceedings	SRM University, Chennai

		Combating Climate Change		- NCCWE 2014” January 27-28, 2014	Engineering College, Ramapuram, Chennai		
44.	R. Sivacoumar	Sustainable design and development of decentralized wastewater treatment system for cluster of residential areas along the coastal districts of Tamil Nadu State, India.	December 9 – 13, 2015	International Symposium on Biodiversity, Agriculture, Environment and Forestry”	Ooty, Tamil Nadu		Association for the Advancement of Biodiversity Science
45.	R. Sivacoumar	Modelling and simulation of fugitive dust emission from stone crushing industry to evaluate adequacy and efficiency of control measures for dust separation and containment	June 1-2, 2017	2nd Indian International Conference on Air Quality Management (IICAQM 2017) Health and Exposure	Indian Institute of Technology, Madras		Indian Institute of Technology Madras