



**ALAGAPPA GOVERNMENT ARTS COLLEGE**  
(NAAC REACCREDITATION AT LEVEL B)  
**KARAIKUDI – 630 003, TAMILNADU, INDIA.**



## FACULTY PROFILE

### Personal Details

Name	:	Dr. S.S.N. Somasundaram
Father's / Husband's Name	:	Mr. S.S.Nathan
Designation	:	Assistant Professor
Date of Birth	:	01/02/1971
Sex	:	Male
Nativity	:	Kandanur
Marital Status	:	Married
Address for Communication	:	
Official	:	Post-Graduate & Research Department of Zoology Alagappa Govt.Arts College, Karaikudi-630003
Residential	:	2-14-48C,EzhilNagar,KottaiyurPost Sivagangai Dist – 630 106.
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Academic Qualification	:	M.Sc.,M.Phil., Ph.D.,
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Teaching Experience	:	17 years
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<b>Research Experience</b>	<b>:</b>	<b>24 years</b>
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<b>Research Area</b>	<b>:</b>
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- Radiation Ecology
- Marine Biotech.

<b>Research Supervision/Guidance</b>
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Programme of Study		Completed	Ongoing
Research	Ph.D.	01	04
	M. Phil.	30	04
Project	PG	50	02

<b>Publications</b>
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International		National		Others
Journals	Conferences	Journals	Conferences	Book/Chapter/Monographs
03	-	27	09	07

<b>Events Organised in leading roles</b>
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**Number of Seminars / Conferences / Workshops / Events organized: 4**

**International :**

1. **International Seminar on Recent Advances in Biotechnology** during 24 - 25 Feb. 2003 at P.R.College, Thanjavur.
2. **International Conference on the Life through Chemistry**, during 25-26, Feb,2006, at PRC, Thanjavur.

### National :

1. **Workshop on Radiation Ecology** during March 29 - 30, 1996 at Environmental Research Lab Jamal Mohamed College, Tiruchirappalli.
2. **Seminar on Herbs in Treatment**, on 24, Aug.2004 at P.R.College, Thanjavur.

<b>Events participated</b>
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### Number of Seminars / Conferences / Workshops: 30

- Participated and Presented a Paper in the **National Seminar on conservation & Sustainable Development of Coastal Resources**, Department of Marine Sciences, Bherhambur University. Orissa during 14 - 17. December 1994.
- Participated and Presented a Paper in the **Fourth National Symposium on Environment** sponsored by the *Board of Research in Nuclear Sciences, Department of Atomic Energy*, Government of India at Anna University, Madras and Indira Gandhi Center for Atomic Research, Kalpakkam during 7 - 10 February, 1995.
- Participated in the seminar on **Urban Environment in Tiruchirappalli** sponsored by the *United Nations Development Programme and Ministry of Environment and Forests*, Govt. of India at Bishop Heber College. Tiruchirappalli on 28 July 1995.
- Participated and Presented a Paper in the **Fifth National Symposium on Environment** sponsored by the *Board of Research in Nuclear Sciences, Department of Atomic energy* Govt. of India at Saha Institute of Nuclear Physics. Calcutta during Feb. 28 - March 1. 1996.
- Participated in the **Two Day Workshop on Radiation Ecology**, sponsored by the *Board of Research in Nuclear Sciences, Department of Atomic Energy*, Govt. of India at Environmental Research Lab, P.G.Department of Zoology, Jamal Mohamed College, Tiruchirappalli during March 29 - 30, 1996.
- Participated and Presented a Paper in the **Sixth National Symposium on Environment**, sponsored by the *Board of Research in Nuclear Sciences, Department of Atomic Energy*, Govt. of India at Tamil Nadu Agriculture University and Bharathiyar University, Coimbatore during Jan.7-9, 1997.

- Participated and Presented a Paper in the **Seminar on Biodiversity** sponsored by the *Tamil Nadu State Council for Science and Technology* at Kundavai Nachiyar Govt. Arts College for Women, Thanjavur during March 13 - 14, 1997.
- Participated in the **Workshop on Gamma Spectroscopy**, sponsored by *Board of Research in Nuclear Sciences, Department of Atomic Energy, Govt, of India* at Indira Gandhiji Centre for Atomic Research, Kalpakkam during April 8-11, 1997.
- Participated in the **One day Training Programme on Environmental Issues** sponsored by the *C.P.R. Environmental Education Centre*, at Jamal Mohamed College, Tiruchirappalli on Oct. 24, 1997.
- Participated and Presented a Paper in the **National Seminar on Sustainable Environment** at *Sri Paramakalyani Centre for Environmental Sciences*, M.S. University, Alwarkurchi during Nov. 4 - 6, 1997.
- Participated and Presented a Paper in the **Seventh National Symposium on Environment**, sponsored by the *Board of Research in Nuclear Sciences, Department of Atomic Energy, Govt of India* at Indian School of Mines, Dhanbad (Bihar) during Feb. 5 - 7, 1998.
- Participated and Presented a Paper in the **National Symposium on Environmental Geochemistry**, organised by *Department of Applied Geochemistry and Association of Environmental Geochemists*, Osmania University, Hyderabad during June, 26-27, 1998.
- Participated and Presented a Paper in the **National Seminar on Coastal Pollution and Management**, organised by *CAS Marine Biology, Annamalai University*, Chidambaram during March, 18 - 19, 1999.
- Participated and Presented a Paper in the **Eighth National Symposium on Environment**, sponsored by the *Board of Research in Nuclear Sciences, Department of Atomic Energy, Govt of India* at *Indira Gandhi Centre for Atomic Research Kalpakkam and Meenakshi College for Women, Chennai* during June, 22 - 25, 1999.
- Participated in the **Seminar on Eco friendly products for crop protection** organised by PG Dept. of Microbiology, P.R.College, Thanjavur on 27.09.2001.

- Participated in the **National Seminar on Public Health and Waste Management** sponsored by UGC at Seethalakshmi Ramasami College, Tiruchirappalli during Feb. 4 - 7, 2002.
- Participated in the **Seminar on Cytogenetics** organised by P.G. Dept. of Biotechnology, P.R. College, Thanjavur on 06.03.2002.
- Participated in the **Seminar on Microbial Technology in Biofertilizer** organised by Department of Microbiology, P.R. College, Thanjavur on 08.03.2002.
- Participated in the **Workshop on Detection and Prevention of Adulteration in Food Stuffs** organised by P.G. Dept. of Biochemistry, P.R.College, Thanjavur on 16.11.2002.
- Participated in the **International Scientist Meets on the Marvels in Life sciences**, organised by School of Life Science, P.R.College, Thanjavur during 6 - 11.Jan.2003.
- Participated in the **International seminar on Recent Advances in Biotechnology** organised by School of Life Sciences, P.R. College, Thanjavur, sponsored by Dept. of Biotech, Govt of India during 24 - 25 Feb. 2003.
- Participated in the **Seminar on Microbes in Environmental Management** organised by PG. Dept. Microbiology, P.R. College, Thanjavur on 22, Aug. 2003.
- Participated in the **Seminar on Recent Trends in Biochemistry** organized by P.G. Dept. of Biochemistry P.R.College, Thanjavur on 23 Aug. 2003.
- Participated in the **National workshop on environment and pollution Awareness** sponsored by AICTE, New Delhi organised by P.R. Engineering College, Vallam, on 12, April 2004.
- Participated in the **Seminar on Herbs in Treatment**, organised by Department of Biotechnology, P.R.College, Thanjavur 24<sup>th</sup> , July, 2004.
- Participated in the **National Symposium on Recent Trends in Environment & Biotechnology**, organised by Department of Zoology and Biochemistry, Govt. College ( Autonomous), Kumbakonam, sponsored by UGC during 26-28 July, 2004.

- Participated in the **Regional Seminar on Biomolecules and Human Health**, organized by P.G. Dept. of Biochemistry P.R.College, Thanjavur on 14<sup>th</sup> Sep.. 2004.
- Participated in the **Seminar on Marine Microbes and Medicine**, organised by PG. Dept. Microbiology, P.R. College, Thanjavur on 30<sup>th</sup> , Sep.. 2004.
- Participated in the **Entrepreneurship Programme in Microbiology & Biotechnology** organised by PG. Dept. Microbiology , P.R. College, Thanjavur on 21-22, Feb. 2005.
- Participated in the **Seminar on Scope and Status of Phytochemistry and Bioremediation**, organised by Dept. Botany, Kunthavai Naachiyar Govt. College (Autonomous), Thanjavur, sponsored by UGC, during 10-11, Aug. 2005.
- Participated in the **International Conference on the Life through Chemistry**, organized by Department of Chemistry & Life Sciences, P.R. College, Thanjavur on 25-26, Feb,2006.
- Participated in the **Intercollegiate Seminar on Conservation of Environment & Global Warming** organized by Ananda College, Devakottai on 10<sup>th</sup> Feb., 2010.
- Participated in the **National Conference on Explorations of the Natural Bioactive Compounds from the Marine Resources**, organized by Department of Marine Science, Bharathidasan University, Tiruchirapalli on 10 - 11, Feb,2011.
- Participated in the **Workshop on the Techniques in Collection and Rearing of Biocontrol Insects**, organized by Department of Zoology, Jamal Mohamed College, Tiruchirapalli on 1<sup>st</sup> Feb,2012.

**Participation in Refresher/Orientation Course/Short Term Course/Training :**

- Participated in the **Faculty Induction Training(FIT)** Programme organized by **Academic Staff College, VIT University, Vellore** from 11.06.2007 to 16.06.2007.
- Participated in the **Training Orientation Programme (TOP)** organized by **Academic Staff College, VIT University, Vellore** from 18.01.2008 to 23.01.2008.
- Participated in the **Skill Improvement Programme (SIP)** organized by **Academic Staff College, VIT University, Vellore** from 05.02.2008 to 30.04.2008.

- Participated in the **Faculty Development Programme (FDP)** organized by **Academic Staff College, VIT University, Vellore** from 09.02.2009 to 13.02.2009.
- Participated in the **Orientation course** organized by **UGC-Academic Staff College, University of Madras, Chennai**, jointly with **Tamil Nadu State Council for Higher Education, Chennai** at University of Madras, Chennai from 09.07.2009 to 05.08.2009.
- Participated in the **Short Term course for Research Advisors** organized by **UGC-Academic Staff College, Bharatidasan University, Tiruchirapalli** from 25.03.2011 to 27.03.2011.
- Participated in the **Refresher course in Life Sciences** organized by **UGC-Academic Staff College, Bharatidasan University, Tiruchirapalli** from 10.06.2011 to 30.06.2011.
- Participated in the **National Level Training Programme for Scientists and Technologists in Biodiversity Conservation with a focus on Ecological Monitoring** sponsored by Department of Science & Technology, Govt. of India at the Wildlife Institute of India, Dehradun from 05.09.11 to 09.09.11.

### Membership in

#### Professional Bodies:

- All India Biotech Association, New Delhi
- Member, Environmental Geochemistry, Hyderabad.

#### Academic Bodies:

- Former Member, Board of Studies in Microbiology (UG & PG), Bharathidasan University, Tiruchirpalli (2002 – 2005)
- Former Member, Board of Studies in Biotechnology (UG & PG), Gene Technology (PG) Bharathidasan University, Tiruchirpalli (2005 – 2008)
- Former Member, Board of Studies in Biotechnology, AVC College, Myladuthurai (2003 -2005)
- Former Chairman, QPS Board, Alagappa University, Karaikudi (2010-2011)
- Member, TNPSC Examinations, Chennai.

### Resource person in various capacities

#### Number of Invited / Special Lectures delivered: 5

- Invited as a Resource Person to deliver a lecture “Radiation Ecology” at P.G. & Research Department of Zoology, AVVM Sri Pushpam College, Thanjavur. (18.03.2003).
- Invited as a Resource Person to deliver a lecture “Radiation Ecology ” at , Department of Zoology, Alagappa Govt. Arts College, Karaikudi.. (05.03.2004).
- Invited as a Resource Person to deliver a lecture “Recent Trends in Biotechnology” at P.G. & Research Department of Zoology, Raja Serfogi Govt. Arts College, and Thanjavur. (14.03.2005).
- Invited as Judge for Intercollegiate elocution competition at Sree Sevugan Annamalai College, Devakottai (18.03.2010)
- Invited as a Resource Person to deliver a lecture “Recent Trends in Biotechnology” in the Inservice Training Programme for Secondary Grade Science Teachers sponsored by TNSCST, Chennai at Alagappa Govt. Arts College, Karaikudi (28.11.2013).

### Recent Publications

1. Hameed, P. S., Somasundaram, S.S.N, Shaheed, K. and Amanullah, B.,1995. A Study on Polonium - 210 Distribution in Abiotic and Biotic Components of Gulf of Mannar, India. *Proceedings of Fourth National Symposium on Environment*, Madras, India, P.214 - 218.
2. Somasundaram, S.S.N., Amanullah, B., Shaheed, K. and Hameed, P. S., 1996. Environmental Radioactivity in the Ecosystem of Gulf of Mannar, India. *Proceedings of Fifth National Symposium on Environment*, Calcutta, India, p. 52 – 55.
3. Shaheed, K., Somasundaram, S.S.N., Hameed, P.S. and Iyengar, M.A.R., 1996. Radioecological Aspects of the Kaveri River Environment. *Current Science*, 70 (6) : 459 - 462.
4. Somasundaram, S.S.N., Shaheed, K. and Hameed, P.S. 1997. Polonium - 210 in Sea Weeds of the Krusadai Island, Gulf of Mannar, India. *Proceedings of Sixth National Symposium on Environment*, coimbatore, P. 165 - 169.
5. Hameed, P. S., Masilamani, V., Ravikumar, S., Shaheed, K. and Somasundaram, S.S.N. 1997. The Impact of Agricultural Discharges on the Distribution of Polonium - 210 in Kaveri River Ecosystem. *Proceedings of Sixth National Symposium on Environment*, Combatore, p. 152 - 157.



6. Shaheed, K., Somasundaram, S.S.N. Hameed, P.S. and Iyengar, M.A.R., 1997. A study of Polonium - 210 Distribution Aspects in the Riverine Ecosystem of Kaveri, Tiruchirappalli, India. *Environmental Pollution*, 95 (3) : 371 - 377. (Cited by 14)
7. Hameed, P. S., Shaheed, K., Somasundaram, S.S.N. and Iyengar, M.A.R., 1997. Bioaccumulation Lead - 210 in the Kaveri River Ecosystem, India. *J. Environmental Radioactivity*, 37 (1) : 17 - 27. (Cited by 5)
8. Hameed, P. S., Shaheed, K., Somasundaram, S.S.N., and Iyengar, M.A.R., 1997. Radium - 226 Levels in the Kaveri River Ecosystem, India. *J. Biosciences*, 22(2) : 225 - 231. (Cited by 10)
9. Hameed, P. S., Shaheed, K., Somasundaram, S.S.N., Iyengar, M.A.R., 1997. A study on the radioactivity Profile of Polonium - 210 in Different Freshwater Habitats. *Radiation Protection and Environment*. 20 (2) : 61-66.
10. Hameed, P. S., Shaheed, K., Somasundaram, S.S.N., 1997. Distribution of Alpha Emitting Radionuclide Polonium - 210 in a Pond Ecosystem. *J. Biosciences*, 25 (5) : 627 - 634. (Cited by 9)
11. Shaheed, K., Somasundaram, S.S.N., and Hameed P. S., 1997, Dosimetric Consideration of Polonium - 210 to Tiruchirappalli Public. *Radiation Protection and Environment*, 20(4) : 174 - 178.
12. Somasundaram, S.S.N., Hameed P. S., Ravikumar, S. and Masilamani. V., 1998. A study on Lead - 210 distribution in Seaweeds of the Krusadai island, Gulf of Mannar, India. *Proceedings of the Seventh National Symposium on Environment*. Dhanbad, P. 128 - 131.
13. Hameed. P. S., Somasundaram, S.S.N., Masilamani, V. and Ravikumar, S., 1998. A study on the distribution of Po-210 and Pb - 210 in rock pool ecosystem, Tiruchirappalli, India. *Environmental Geochemistry*, 1(1):19-23.
14. Hameed, P. S., and Somasundaram, S.S.N. 1998 Chuzhal Manda Iyarkai Kathiriakkam *Kalanchium*, 12 (1) : 55 - 60.
15. Hameed. P.S. and Somasundaram, S.S.N., 1998. A survey of Bivalve molluscs in Gulf of Mannar, India, *I.J. of Fisheries* 45(2) : 177 - 181.
16. Somasundaram, S.S.N. 1998. Effect of Light on the Larval Growth and Some Biochemical Aspects of *Bombyx mori* (Linnaeus). *Bio Science Research Bulletin*, 14(2) : 79 - 85.

17. Hameed. P. S., Radhakrishnan, K. and Somasundaram, S.S.N. 1998. Performance Evaluation Tannery Effluent Treatment Plant in Tiruchirappalli, Indian *J. Envi, Prot.*, 18(9) : 694 - 699.
18. Hameed, P. S., Somasundaram, S.S.N., Shahul Hameed, M.M., Masilamani. V. and Ravikumar, S., 1998. Radium - 228 in some Bivalve Molluscs from Gulf of Mannar, India. *Radiation Protection & Environment*. 21(2): 83 - 87.
19. Walid Mustafa, Somasundaram, S.S.N. Hameed, P. S., and Palaniappan, R., 1998. Evaluation of Ground Water Quality in Tiruchirappalli City, India, Indian *J. Envi. Prot.*, 19 (4) : 284 - 289.
20. Hameed, P. S., and Somasundaram, S.S.N. 1998. Diversity of Bivalve Molluscs in the Gulf of Mannar. In. Living on the Edge (Eds. L.Kannan and R.Kannan), ENVIS publication series 3/98, Annamalai University, PP. 72 - 75.
21. Hameed, P. S. and Somasundaram, S.S.N., 1999, Accumulation of Pb 210 in Some Bivalve Molluscs from Gulf of Mannar, India. In. *Sustainable Environment*. (Ed.. N.Sukumaran) Sri Paramakalyani Centre for Environmental Sciences, Alwarkuruchi, p. 272 - 277.
22. Hameed, P. S., Somasundaram, S.S.N. and Iyengar, M.A.R., 1999. Trends in the bioaccumulation of naturally occurring radionuclides in the aquatic ecosystem. *Proce. of 8th National Symposium on Environment*, Chennai. pp. 127 - 130.
23. Hameed. P. S., Somasundaram, S.S.N., Ravikumar. S and Masilamani, V., and Syed Mohamed. H.E., 1999. Radioecological study in Mandapam coast, Gulf of Mannar, India. *Proce. of 8th National Symposium on Environment, Chennai*, pp. 131 - 133.
24. Senthil Kumar, B., Hameed., P.S. and Somasundaram, S.S.N. 1999. Bacteriological evaluation of Cauvery River in Tiruchirappalli city, TamilNadu. *Proc. of Seminar on Socio Economic Issues in Environmental Protection*, Tamil University, Thanjavur, PP. 65 - 67.
25. Hameed, P. S., Syed Mohamed H. E. and Somasundaram, S.S.N. (1999). Evaluation of Water Quality in Tiruchirappalli Corporation Water Supply. *I.J. Environmental Protection*, 20(3), 194 - 199.
26. Hameed, P. S. and Somasundaram, S.S.N. 2000. Radiation Ecology of Krusadai Island, Gulf of Mannar, India. in *Environmental Protection*, (Eds. A.K.Thukral and G.S.Virk), Scientific Publishers, Jodhpur, pp.192 - 197.

27. Somasundaram, S.S.N. and Hameed, P.S., 2000 A study on Bioaccumulation of Polonium - 210 in Bivalve Molluscs of Gulf of Mannar, India. *Indian. J. Marine Science*, 29(3), 263 - 267.
28. Karthikeyan, A.V.P., Vinayagamoorthy, D., Somasundaram, S.S.N., Sampathkumar, G. and Ravikumar,S.,2004. Standardization and diagnosis of Human Leptospirosis by Dipstick Dot – ELISA with Mat Comparision. *J.Swamy Bot – C1.21*:43-46.
29. Shahul Hameed, P., Somasundaram, S.S.N., Ravikumar, S., Masilamani, V., & Iyenger, M.A.R. (2004). Dose transfer to human population of Gulf of Mannar coast through dietary intake of seafood. *Indian Journal of Radiation Research*, 1(2), 106-107.
30. Kanagaraj, P., Somasundaram,S.S.N., Ravikumar,S.,Masilamani,V., and Hameed, P.S., 2005. A study on dietary intake of Po-10 through vegetables consumption by Tiruchirapalli Public. *Poll.Res.* 24, 225-228.
31. Geetha Lavanya, B., Devika, R., Somasundaram,S.S.N., and Bhuvaneswari, B., 2005. Survey and detection of Banana Streak virus (BSV) from Poovan. *J.Ecol.Res.Biocon.* 6 (1&2):53-56.
32. Nithiya,T.,Somasundaram,S.S.N., Karthikeyan, A.V.P., and Selvabala., 2006. Antimicrobial studies of *Solanum nigrum* L. . in *Plant Biotechnology*, (Eds. N.Jeyabalan), A.P.H Publishers, New Delhi.pp.347-357.
33. Gokulakrishnan, K., Swaminathan, A and Somasundaram,S.S.N., 2006. Performance evaluation of effluent treatment plant in Tanning industries at Tiruchirapalli. *Proc.Nat.Con.Water & wastewater Management*, Tiruchirapalli, pp 116-117.
34. Krithika , A., Thenmozhi, K. , Ravi Kumar ,S., Somasundaram, S.S.N., Karthikeya Prabhu, B. and Mary Babu, 2006. Radio-Protective Effect Of 2-Deoxy-D-Glucose in Cervical Cancer Patient's Lymphocytes Exposed in Vitro as Estimated by the Comet Assay. *International Journal of Human Genetics. Int.J.Hum.Genet*, 64(4): 303-308.
35. Ambiga, S., Somasundaram,S.S.N., Madhavan, S., & Govindaraju, G., 2007. Larvicidal properties of *Clerodendrum inerme* on *Culex quinquefasciatus*. *J. Microbial World*, 9 (1) : 84 – 88.
36. Senthamarai Selvi, V., Chitradevi, R., Somasundaram, S.S.N., And Mariappan, V., 2007. Antimicrobial potential of *Cymbopogon citrates* (Lemongrass) on Human Pathogen. *Asian J.Micro., Biotech., & Envi.Sci.*, 9(4) : 887-890.
37. Sonil Nanda, Sudeep Kumar G., Sohini Mukherjee, Sreejith R., Srinwanti Bhattacharya, Swarna Shankar, R. Vidhya and S.S.N. Somasundaram., 2009.Studies on the degradation of polyethylene by *pseudomonas* sp. *Asian J.Micro., Biotech., & Envi.Sci.*, 11(4) : 851 – 855.

38. Somasundaram, S.S.N., 2011 . Writing a proposal for a research project grant. *in Research Methods in Life Sciences*, (Eds. A.Singaravel), UGC –academic College, Bharathidasan University, Tiruchirapalli, pp.125 - 136.
39. Somasundaram, S.S.N., 2011 . Marine Bioprospecting. *in Advances in BioSciences*, (Eds. A.Singaravel, G.Archunana & R.Rajaram), UGC –Academic College, Bharathidasan University, Tiruchirapalli, pp.88 - 96.
40. Jawahar, M., Harikrishnana, R., Selvarani, T., Karthikeyaprabu, B., Somasundaram, S.S.N., and Thenmozhi.K., 2011. Prevalence of psoriasis linked to pesticide use in farmers. *Int.J. of Pharma World Research*, 2(3):1-23.
41. Thamaraiselvi,S., Bakiyalakshmi,S.V., Shakila, G., and Somasundaram, S.S.N., 2012. DEVELOPMENT OF LOWCOST TECHNOLOGY IN THE PREPARATION OF PATHOGENIC FREE DRINKING WATER USING HERBS. *International Journal of Universal Pharmacy and Life Sciences* 2(4) : 78-85.
42. Selvarani, T., Jawahar, M., Harikrishnana, R., Thenmozhi.K., Karthikeyaprabu, B., and Somasundaram, S.S.N., 2012. APPLICATIONS OF SEAWEED EXTRACT FOR TREATING PSORIASIS IN FARMERS. *Int.J. of Pharma World Research*, 3(1):1-31.
43. Ravimanickam, T., Poonguzhali, J., Antony Caesar, J., Devatha, A., Somasundaram, S.S.N. and Krishnamoorthy, R. 2014. Biochemical investigation of ink gland in *Sepia officinalis* and its application in textile industry. In: *Conservation of Biodiversity using biotechnological approaches*. (Eds. S.Sivaramakrishnan and R.Karthik Raja), Bharathidasan University, Elsevier Publication [ISBN : 9789351073062], PP. 173-176.
44. Sudeep Kumar Gade, Soumya Jal and Somasundaram S.S.N. 2015. Phosphatase activity and heavy metal distribution in soils of Vellore, India. *Int.J.Curr.Res.Biosci.Plant.Biol.*, 2(5):117-123.
45. Anand, S. and Somasundaram, S.S.N., 2015. Physico-chemical and bacteriological analysis of Vaigai River Water. *IJEP*, 35(2):144-150.
46. Saranya, B., Saratha Devi, D and Somasundaram, S.S.N. 2015. Investigation of antibacterial activities of *Evolvulus alsinoides*(L.) against clinical pathogen. *Int.J.Curr.Microbiol.App.Sci*, 4(5)491-497.
47. Saratha Devi, D and Somasundaram, S.S.N. 2015. Studies on antibacterial activities of *Senna alata*,(L.) against clinical pathogens *J. Microbiol. Biotech. Res.*, 5 (3):1-6