

**Department of Chemistry**  
**University College of Engineering- Tiruchirappalli**  
**Bharathidasan Institute of Technology Campus**  
**Anna University, Tiruchirappalli – 620 024**  
**9487020226**  
**vkseenthur@gmail.com**



**Dr. V.K. Senthurpandian**  
**Assistant Professor**

➤ **Research Area:**

Soil Chemistry

➤ **Educational Qualifications:**

<b>Qualification</b>	<b>Department</b>	<b>Year (From - To)</b>	<b>Percentage</b>	<b>Class</b>
Ph.D.	Plant Chemistry	2002 - 2006		--
M.Sc.	Chemistry	1999 - 2001		First
B.Sc.	Chemistry	1996 - 1999		First

➤ **Experience:**

<b>Name of Institutions</b>	<b>Designation of Post</b>	<b>From</b>	<b>To</b>	<b>Relived on</b>	<b>Experience in Year</b>
Anand Institute of Higher Technology, Chennai	Lecturer	24-07-2006	22-08-2007	22.08.2007	1 year & 1 month
UPASI Tea Research Foundation, Tea Research institute, Valparai	Senior Chemist & Head,	01-09-2007	22-09-2009	22.09.2009	2 Years & 22 days
University College of Engineering, Bharathidasan Institute of Technology Campus, Anna University, Tiruchirappalli	Assistant Professor	24.09.2009	Till date		

➤ **Awards:**

- Senior Research Fellowship (Sulphate of Potash Information Board (SOPIB), Washington February 2002 – August 2004
- Senior Research Fellowship (National Tea Research Foundation (NTRF), Govt. of India September 2004 – July 2006

➤ **Additional / Academic Responsibilities at University:**

- Deputy Warden, Men's Hostel, BIT, Anna University, Tiruchirappalli 2010-2012
- YRC Zonal Coordinator, Anna University, Tiruchirappalli 2010-2013
- YRC Coordinator, BIT Campus, Anna University, Tiruchirappalli 2012 - Feb 2017

➤ **Professional Activities:**

- Member in College level scrutiny committee for the evaluation of project proposal for funding under by CTDT, Anna University, Chennai.

➤ **Membership of Scientific and Professional Societies:**

- Life member in Indian Council of Chemist, Agra, UP
- Life member in Indian Society of Chemists and Biologists, CDRI, Luknow.
- Life member in Indian Society for Plantation Crops, Kasargod, Kerala

➤ **Fellowships and Grants:**

- Young faculty member award (Rs. 50,000) under Research Support Scheme by CTDT, Anna University, Chennai (2013-2014).

➤ **Completed M.Phil Projects:**

a. Number of M.Phil. Projects Completed: **01**

➤ **PhD Research Projects (Completed):**

a. Number of Ph.D. Projects Completed: **02**

**Research Guidance (M.S/Ph.D) (completed)**

<b>S.No</b>	<b>Name of the Scholar</b>	<b>Title of the thesis</b>	<b>Year of registration</b>	<b>Date of viva voce</b>
<u>1</u>	A.Satheshkumar	Studies on the residues of certain plant protection chemicals Used on tea	2009	05.08.2016
<u>2</u>	K. Poobathiraj	“Studies on humic acid and its influence on tea”	2009	05.08.2016
<u>3</u>	A. Ravi	Synthesis of zns/zno nanomaterials for photocatalytic and sensor applications	2011	09.10.2020

➤ **Sponsored Research Activities:**

PROJECT NAME “**Application of Geographical Information System (GIS) to acidity and fertility management of tea soils of South India**”

Duration: 2 Years

Role: Principal Investigator

Agency: DST, Govt. of India

Amount: Rs. 20. 24 lakh

PROJECT NAME “**Influence of soil organic matter on productivity and measures to improve the soil health in the tea soils of south India**”

Duration: 3 Years  
Role: Principal Investigator  
Agency: National Tea Research Foundation (NTRF), Tea Board, Govt. of India  
Amount: Rs. 56. 002 lakh

PROJECT NAME: **“Removal of Dyes from Effluents Using Indigenously Prepared Activated Carbons”**

Duration: 1Year  
Role: Principal Investigator  
Agency: CTDT, Anna University, Chennai  
Amount: Rs. 50,000

➤ **List of Seminar / Short Term Course /FDP/ Workshop attended: (Within India)**

1. **Faculty Development Programme** on Multi-disciplinary Approaches in Chemical Sciences (MACS-2016) Sponsored by TEQIP-II at Department of Chemistry, Bharathidasan Institute of Technology (BIT) Campus, Anna University, Tiruchirappalli from 18th July to 31st July, 2016. **(14 Days)**
2. **Faculty Development Programme** on Advanced Research in Materials for Engineering and Technological Applications (ARMETA--2015) Sponsored by TEQIP-II at Department of Physis, Bharathidasan Institute of Technology (BIT) Campus, Anna University, Tiruchirappalli from 17<sup>th</sup> July to 30<sup>th</sup> July, 2015. **(14 Days)**

3. **Faculty Development Programme** on New Perspectives in Drug Discovery and Progressive Technological Developments (NPDPTD-2015) Sponsored by TEQIP-II at Department of Pharmaceutical Technology, Bharathidasan Institute of Technology (BIT) Campus, Anna University, Tiruchirappalli from 4<sup>th</sup> May to 17<sup>th</sup> May, 2015. **(14 Days)**
4. **Engineering Pedagogy Training Program** organised by Shruth & Smith Foundation, Bengaluru, 20<sup>th</sup> to 24<sup>th</sup> January, 2014. **(5 Days)**
5. **Refresher Course** on Chemistry, Sponsored by UGC-Academic Staff College at Bharathiar University from 15<sup>th</sup> August to 05<sup>th</sup> September, 2013. **(21 Days)**
6. **Orientation Course**, Sponsored by UGC - Academic Staff College, Bharathidasan University, Tiruchirappalli - 620 023 from 9<sup>th</sup> November to 6<sup>th</sup> December , 2010. **(28 Days)**
7. **Training programme** on Application of of remote sensing & GIS in natural resource management Sponsored by NNRMS (ISRO) organized at Regional Centre, Bangalore from 4<sup>th</sup> March to 24<sup>th</sup> March, 2009. **(21 Days)**
8. **Workshop-Cum- Training program** on organic farming and certification held at Bangalore from 12<sup>th</sup> January to 14<sup>th</sup> January, 2009. **(3 Days)**
9. **Training programme** on Laboratory Quality management & Internal Audit organised by Centre for Electronics Test Engineering, Bangalore -during 11<sup>th</sup> February to 14<sup>th</sup> February, 2008. **(4 Days)**
10. **Training Course on OECD Principles** on Good Laboratory Practices (GLP) from 15<sup>th</sup> to 17<sup>th</sup> November -2007 at UPASI TRF TRI organised by UPASI TRF TRI Valparai - 642 127. **(3 Days)**

11. **Training on GRAM++**, Sponsored by BHUGOL GIS Pvt. Ltd. organized by IIT, Bombay during 22-26 October, 2007. **(5 Days)**
12. Participated in the one day workshop on **Sustainable Municipal Solid Waste Management (SMSWM'10)** on 4th October, 2010 held at Anna University of Technology, Tiruchirappalli, Tiruchirappalli - 620 024
13. Participated in National Symposium **NANOREVELATIONS 2010** organised by the department of Nano Science and Technology, Anna University of Technology, Tiruchirappalli, Tiruchirappalli - 620 024
14. Participated in the one day awareness programme on **Heuristic Approach in Teaching** on 29<sup>th</sup> March, 2011 held at Anna University of Technology, Tiruchirappalli, Tiruchirappalli - 620 024
15. Participated in the **National Workshop on Nanomaterials- synthesis, Characterisation and Applications (NMSCA-2006)** on 14-15, December, 2006 held at Alagappa University, Karaikudi.
16. Participated in the **Workshop on Photo catalysis for Sustainability: Fundamentals and Applications** in BIT, Anna university, Tiruchirappalli held on October, 09, 2013.
17. Participated in the UGC Sponsored one day state level seminar on **Modern Trends in Chemistry - MTC 2014**, organised by Ayya Nadar Janaki Anmma College, Sivakasi on 1<sup>st</sup> October 2014.
18. Participated in the lecture **workshop on Chemistry for Sustainable Green Environment (CHES GREEN'16)** Sponsored by TEQIP-II at Department of

Chemistry, Bharathidasan Institute of Technology (BIT) Campus, Anna University, Tiruchirappalli from 11<sup>th</sup> March to 12<sup>th</sup> March, 2016.

19. Participated in the Seminar on " **Challenges and Opportunities in Chemical & Environment Research (Chemera 2016)** Sponsored by TEQIP-II at Department of Chemistry, Bharathidasan Institute of Technology (BIT) Campus, Anna University, Tiruchirappalli from 11<sup>th</sup> August to 12<sup>th</sup> August, 2016

➤ **PUBLICATIONS :**

a. **BOOKS:**

1. **V.K Senthurpandian** & S. Venkatesan, Impact of Chemical Fertilisers on certain enzymes in Tea published in **LAP LAMPERT Academic Publishing AG & Co. KG Germany (ISBN 978-3-8383-9392-6)**

b. **INTERNATIONAL JOURNALS:**

1. S. Venkatesan, S. Murugesan and **VK. Senthurpandian**, MNK. Ganapathy, 2005. Impact of sources and doses of potassium on biochemical and green leaf parameters of tea, *Food Chemistry*, (90) pp 535-539
2. S. Venkatesan, **VK. Senthurpandian**, S. Murugesan and MNK. Ganapathy, 2006. Quality standards of CTC black teas as influenced by different sources of

potassium fertilizers, *Journal of the Science Food and Agriculture*, (86) pp 799-803

3. S. Venkatesan and **VK. Senthurpandian**, 2006. Enzyme activities of laterite soils as influenced by trace element contamination, *International Journal of Soil Science*, (1) pp 20-26
- 4 S. Venkatesan and **VK. Senthurpandian**. 2006. Comparison of enzyme activity with depth under tea plantations and forested sites in south India, *Geoderma* 137 pp 212 - 216
- 5 S. Venkatesan and **VK. Senthurpandian**, 2006. Potassium and phosphorus releasing capacity of Latosols under tea cultivation in south India, *International Journal of Soil Science*,1 (3) pp 227-234
- 6 S. Venkatesan, V. Sudhahar, **VK. Senthurpandian** and S. Murugesan, 2007 Urea hydrolysis of tea soils as influenced by incubation period, soil pH and nitrification inhibitor, *Communications in Soil Science and Plant analysis*, (38) 2295-2307
- 7 **VK. Senthurpandian**, S. Venkatesan and S. Jayaganesh 2009. Calcium and magnesium releasing capacity of Alfisols under tea in south India, *Geoderma* 152 239 - 242
- 8 S. Jayaganesh and **VK. Senthurpandian**, 2010 Extraction and Characterisation of humic and fulvic acids from latosols under tea cultivation south India, *Asian Journal of Earth Science*, 3(3) 130-135



- 9 **VK. Senthurpandian**, S. Jayaganesh and S Srinivas 2010 Application of Geographic Information System to fertility management of tea soils of Anamallais, *Asian Journal of Earth Science*, 3(3) 136-141
- 10 S. Jayaganesh, S. Venkatesan, **VK. Senthurpandian** and K Poobathiraj 2011. Vertical distribution of magnesium in laterite soils of south India, *International Journal of Soil Science*, 6(1) 69-76
- 11 A. Satheshkumar, **VK. Senthurpandian** and V.A., Shanmugaselvan, 2014. Dissipation kinetics of bifentazate in tea under tropical conditions, *Food Chemistry*, (145) pp 1092-1096

**c. NATIONAL JOURNALS:**

- 1 **VK. Senthurpandian**, S. Venkatesan and S. Murugesan, 2004. Influence of foliar application of different sources of potassium on productivity and quality of tea. *Journal of Plantation crops*, (32) pp 209-213
- 2 **VK. Senthurpandian** and S. Venkatesan, 2006. Influence of organic manure and inorganic sources on nitrogen mineralisation in tea soils of south India. *Journal of Plantation crops*, (34) pp 312-317
4. **VK. Senthurpandian** and S. Jayaganesh, 2010. Enzyme activities of tea soils as influenced by heavy metal contamination. *Journal of Plantation crops*, 38 (1) pp 42-46

#### **d. POPULAR ARTICLE**

1. S. Venkatesan and **VK Senthurpandian** 2005 Influence of Heavy metals on enzyme activity in tea soils. *Newsletter of UPASI Tea Research Foundation* **15**(2)
2. K. V. Hemalatha **VK Senthurpandian**, S Jayaganesh and S. Venkatesan 2007 Influence of foliar application of iron ( $\text{Fe}^{2+}$ ) on certain biochemical parameters and activities of enzymes. *Newsletter of UPASI Tea Research Foundation* **17**(2)
3. **VK. Senthurpandian** and S. Jayaganesh and S. Venkatesan 2008 Influence of excess magnesium on amino acid synthesis pathway and biochemical parameters of tea leaves. *Newsletter of UPASI Tea Research Foundation* **18**(1)
4. **VK. Senthurpandian**, R. Kumaraguru S. Jayaganesh and K. V. Hemalatha 2008 Foliar application of Bio-Phos as a source of phosphorus. *Newsletter of UPASI Tea Research Foundation* **18**(1)
5. **VK. Senthurpandian** and S. Jayaganesh and N. Palani 2008 Influence of organic and inorganic nitrificationn inhibitors in tea soils *Newsletter of UPASI Tea Research Foundation* **18**(2)
6. **VK. Senthurpandian**, S. Jayaganesh and K.Poobathiraj 2009 Impact of soil applied magnesium sources on quality attributes of tea. *Newsletter of UPASI Tea Research Foundation* **19**(1)
7. **VK. Senthurpandian**, S. Jayaganesh and K.Poobathiraj 2009 Influence of foliar application of magnesium on Alanine amino transferase activity in tea. *Newsletter of UPASI Tea Research Foundation* **19**(1)

8. K.G. Udaya Bhanu, R. Victor J. Ilango and **VK. Senthurpandian**, 2009  
Cultivation practices to increase the productivity of tea during the drought in  
Karnataka. *Newsletter of UPASI Tea Research Foundation* **19**(1)

#### **FACULTY DEVELOPMENT PROGRAMME (FDP) ORGANIZED**

1. One week TEQIP sponsored Faculty Development Programme **on Recent Advanced and Development in Chemistry (RADIC'13)** held at BIT Campus, Anna University, Tiruchirappalli during 28-11-2013 to 04-12-2013.

#### ➤ **Conferences**

##### **a. National Conferences:**

1. Enzyme activities of laterite soils as influenced by heavy metal contamination, **V.K. Senthurpandian**, S. Venkatesan and S. Jayaganesh, paper presented in the National Symposium on Soil Science Research: Retrospect and Prospect in the Context of Environmental Quality and Food Security, Indian Society of Soil Science, Kolkata Chapter December 7-9, **2007** pp- 95
2. Influence of trace elements on phosphatase enzyme activity in tea soils of south India, **V. K. Senthurpandian**, S. Venkatesan and S. Murugesan, paper presented in the National seminar on new frontiers of soil science research towards sustainable agriculture, Faculty of agriculture, Annamalai University, Chidambaram. March 11-12, **2005** pp – 146
3. Influence of sources of potassium on productivity, drought tolerance and quality of tea, **V. K. Senthurpandian**, S. Murugesan and S. Venkatesan, Poster presented in National Seminar on Advances in Agricultural Resource

Management, Agricultural College and Research Institute, Killikulam, Sep. 22, **2003**, pp-78

4. Presented s Research article entitled “**Impact of different sources of Mg fertilizer on biochemical constituents and quality parameters of black tea** in the **Symposium on plantation crops PLACROSYM XIX** held in Rubber Research Institute of India, Kottayam, Kerala between 7<sup>th</sup> and 10<sup>th</sup> December, 2010.
5. Presented s Research article entitled “**Zinc Releasing Capacity of latosols under tea cultivation in South India** in the **Plantation crops Symposium on PLACROSYM XX** held in Coimbatore, Tamil Nadu between 12<sup>th</sup> and 15<sup>th</sup> December, 2012 organized by UPASI Tea Research Foundation, Valparai
6. Presented s Research article entitled “**Distribution of Carbon in fractions of humic substances in tea soils of south India** in the **Plantation crops Symposium on PLACROSYM XX** held in Coimbatore, Tamil Nadu between 12<sup>th</sup> and 15<sup>th</sup> December, 2012 organized by UPASI Tea Research Foundation, Valparai
7. Presented s Research article entitled “**Spiromesifen residues in black tea under south Indian climatic cionditions** held in Coimbatore, Tamil Nadu between 12<sup>th</sup> and 15<sup>th</sup> December, 2012 organized by UPASI Tea Research Foundation, Valparai
8. Participated in the two days conference on **Recent trends in renewable Energy Sources for Sustainable Development (NCRES2011)** on 22<sup>nd</sup> and

23<sup>rd</sup> February, 2011 held at Anna University of Technology, Tiruchirappalli,  
Tiruchirappalli - 620 024

9. Presented a paper in the **National Conference on Organic Farming in Horticultural crops with special reference to plantation crops** held during october 15-18, 2008 at CPCRI, Kasaragod, Kerela.
- 10 Presented the Invited paper **on Global Warming and Climate Change-impacts on Human Health** in the **National Seminar on Global Warming** held at Vellammal Engineering College, Madurai on 14<sup>th</sup> October, 2010.
- 11 A. C. Ramesh Babu, K. Nehru and V. K. Senthurpandian “**Adsorption of Marino Blue G Mid dye in aqueous solutions by Spent tea leaves**, **National Conference on Advances in Applied Chemical Sciences and Materials Technology (ACSMT 2014)** held at BIT, Anna university, Tiruchirappalli during 17<sup>th</sup> and 18<sup>th</sup> October, 2014.
12. M. Sankar, K. Nehru and V. K. Senthurpandian “Removal of RED 6B Dye from Aqueous solution onto **Eucalyptus Globules** Bark by batch adsorption techniques in **National Conference on Advances in Applied Chemical Sciences and Materials Technology (ACSMT 2014)** held at BIT, Anna university, Tiruchirappalli during 17<sup>th</sup> and 18<sup>th</sup> October, 2014.

**DECLARATION:**

I certify that the information furnished above is correct and true to the best of knowledge and belief.

**Signature of the staff member**

**Head of the Department**

**Dean**