

## SENTHILNATHAN NATARAJAN

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### PROFESSIONAL OBJECTIVE

To pursue a challenging career in a progressive organization that gives scope to my knowledge and to reach the pinnacle in the biological field with determination, dedication and hard work.

### ACADEMIC PROFILE

Course	Name of the institution	Board/ University	Year of passing	% secured
ISO Lead Auditor	Cue-Biz Marketing & Consulting India Pvt. Ltd	Exemplar Global accredited	2023	LA for QMS/ EMS/ OH&S
B.Tech (Biotechnology)	Bannari Amman Institute of Technology, Sathyamangalam	Autonomous	2013	78%
HSC	Mahendra Matric Hr. Sec. School, Kalipatti	State board	2009	90.5%
SSLC	Mahendhira Hr. Sec. School, Sembampalayam	State board	2007	89%

### AREAS OF INTEREST

- Chemical Engineering
- Biopharmaceutical Technology

### EXPERIENCE – 11 Years (Industrial R&D)

Year	2013 to 2017	2017 to 2025
Industry & Location	Indfrag Limited, Hosur (Natural Herbal Extract)	Jasmine Concrete Exports Pvt Ltd, Coimbatore (Natural Floral Extract)
Designation	Research Analyst in R&D	Asst. Manager QA , R&D
Period of working	June – 2013 to August 2017	September 2017 to Present
Duration	4 Years 3 Months	8 Years

## NATURE OF WORK

### Jasmine Concrete Exports Pvt Ltd, Coimbatore (Natural Floral and Spice Extracts)

- Doing all floral concrete to absolute conversion at lab level like Jasmine grandiflorum, Jasmine sambac, Tuberose, Red champaca, Mimosa, Rose centifolia, Frangipani, Lotus for pre assessment of absolute yield and quality checking purpose
- As I involved in new product development, I have contribute to developed several new products to commercial from lab scale like production of vanilla cured beans from green beans, Brine maceration, Cardamom oil by distillation method, Rose water distillation, Jasmine grandi oil, Jasmine sambac oil, Rose oil (Jojoba based) – Infusion method
- Involving several customer based new products development and samples send to their evaluation like Coral Jasmine absolute (Pavalamalli), Mimosa 100% flower absolute, Mango and guava fruit tincture, Jasmine sambac tea infusion and Sacred flower absolute making from temple flowers
- Involving several R&D related raw materials quality checking like flower, seed, root based on CTE and absolute yield, extract and oil yield and their sensory profile like analysis of cardamom seed, fenugreek seed, vetiver root, davana herbage, palmarosa oil (Fractional distillation method), Aavaram Poo flower, Henna flower and Broom flower
- Involved following QC related work (due to one of the Sensory Evaluation Panel Member)
  - Plant cleaning checking, flower quality and moisture checking
  - Sensory evaluation for FG products
  - ETP – COD analysis carried out
  - Training taken for QC Instrumentations like RI, SG, OR, Color value
- Attended Internal auditor course and Qualified Internal auditor for QMS (ISO 9001:2015), EMS (ISO 14001:2015), OH & S (ISO 45001:2018), FSMS (ISO 22000:2018) by DNV GL and involved internal audit as per Management system requirement (Cross functional in CBE and Unit level to DGL) and qualified 5S internal auditor conducted by ABK – AOTS DOSOKAI, Tamilnadu centre, Chennai
- Maintaining R&D lab as per all system requirement QMS, EMS, OH & S, FSMS and attending Internal and External audit with the guidance and support from R&D Manager and following 5S system
- Contribution to CO<sub>2</sub>– SFE Pilot Plant (5 lts) – lab related works like oil filtration for Dry ginger, Pink pepper oil samples, concrete conversion for garndiflorum, centifolia, sambac and absolute conversion for garndiflorum, centifolia, sambac and sensory evaluation for flowers, spent, concrete and absolute samples
- Contribution to QA - Regulatory questionnaire, Regulatory document & Customer queries, addressing customer QA requirements like providing declaration, certificate, compliance, statement. Etc and maintained customer relationship to achieve their needs and service quality norms, resolve customer compliance with closure of actions - CAPA
- Unit level Safety incharge and EMS/ OHS document controller and executing safety inspection audit, safety induction for new joiners, safety mock drill, work permit system, internal audit and report preparation, NCR evaluation, preparation of safety related SOP's and amended documents as per ISO standards, co ordinate Environmental Monitoring (Ambient Air, indoor air, LUX,

VOC, stack, noise, soil analysis, all water analysis like ETP, STP, boiler, utility) with NABL, MOEF accredited BV Lab and also engaged into activities of unit level CFP – ISO 14067:2018

- Completed Lead Auditor training for IMS and Lead Auditor for ISO 9001, ISO 14001, ISO 45001

#### **Indfrag Limited, Hosur (Natural Herbal Extracts)**

- Involved basic extraction process, principles, product development methodology from Raw material to product as per customer requirement
- Purification and Characterization of Bioactive compounds or natural ingredients as per customer requirement and their type sample
- Involved customer based new products development like several herbal extracts with bioactive compound or ingredients which is obtained from various natural resources and samples send to their evaluation and carried out pilot scale production
- Worked with products like Swertiamerin, Pongamol, Decolorization of **Natural Caffeine**, various medicinal ingredients like Oridonin, Sarasapogenin. Extraction and product purification was carry out in many natural herbal extract like Sennosides, Centella asiatica, **Rosemary**, Karanjin, Banaba, Valerian, **Turmeric, Mangiferrin, Green coffee**, Shrimp oil (Astaxanthin)

#### **OTHER TECHNICAL SKILLS**

- Maintenance of laboratory records as per Management System, Report preparation and coming up with new recommendations/ output based on results.
- Proper handling of laboratory equipment's, storage and waste disposal.

#### **ACHIEVEMENTS**

- Received fund from “Tamilnadu State Council for Science and Technology (TNSCST)” for the project “**Characterization and Purification of Antimicrobial Compounds from Crab Haemolymph against Ophthalmic Pathogens**” and execute the same work on 2013 to 2014
- Bagged second prize in paper presentation on “**Production of biodegradable plastic and extraction of Tannin from the seed of Tamarindus indicus**” at Arunai Engineering College, Thiruvannamalai on 2012
- Bagged Third Grade Prize in a online Essay Writing Competition conducted by Dr. APJ. Abdul Kalam International Foundation during 6<sup>th</sup> Year Remembrance Day of 11<sup>th</sup> President of India Dr. APJ Abdul Kalam
- Shortlisted as **Accreditation Officer at QCI, NABCB** and attended interview on 31.10.23 at QCI, New Delhi

#### **PROJECTS EXHIBITED**

- “**Bioconversion of chemical pesticide to enhance the soil fertility by “Alcaligenes xylosoxidans”** in FUTURA 2011- a National level technical symposium, held at Bannari Amman Institute of Technology, Sathyamangalam
- Participating a poster presentation on “**Waste water treatment and extraction of oil and  $\beta$ -carotene using Azolla**” at Government College of Technology, Coimbatore on March 2012

## **COURSES ATTENDED**

- Attended a course on “**Pharmaceutical Microbiology**” and “**Pharmacognosy of Medicinal Plants**” conducted by Department of Biotechnology, BIT and successfully completed on 2010 to 2011

## **SEMINAR AND TRAINING**

- Attended a national seminar on “**Impact of Phytoconstituents in Nanodrug Development**” at Anna University of Technology, Coimbatore on Oct – 2011
- Participated 7 days In-Plant training in PWD on the ENVIRONMENTAL MANAGEMENT organized by Environmental cell division PWD, Coimbatore on June - 2011
- Attended **Quality Management System (ISO 9001:2015)** internal auditor training and successfully completed on April 2019
- Attended **Environmental Management System (ISO 14001:2015)**, Occupational Health and Safety Assessment Series (18001:2007) internal auditor training and successfully completed on July 2019
- Attended **Food Safety Management System (ISO 22000:2018)** internal auditor training and successfully completed on August 2019 by DNV GL
- Attended **Food Safety Training and Certification (FOSTAC)** Manufacturing (Level – 2) – Food Safety Supervisor and successfully completed
- Attended **5S internal auditor training organized by ABK – AOTS DOSOKAI**, Tamilnadu centre, Chennai on 05.06.2023 and successfully completed

## **EXTRA-CURRICULAR ACTIVITIES**

- Class Representative during the Academic Year 2012-2013
- Class Committee Member during the Academic Year 2011-2012
- Active Member of Department Student Association - NUCLEOX
- Active Member in Citizen Consumer Club
- Active Volunteer of FUTURA 2011

## **PROFESSIONAL STRENGTH**

- A keen planner and implementer with expertise in establishing and managing entire operations with key focus on bottom line profitability by ensuring optimal utilization of resources
- Attained proficiency in extraction from natural sources and extraction efficiency improvement, solvent recovery
- Breaking new avenues and implementing new product development
- Effective communicator with skills in interfacing with clients, suggesting viable service range, cultivating relations with colleagues to find innovative techniques for improvement of process
- An enthusiastic team player and leader with an excellent repertoire in the industry
- Review record of trial/ pilot and it’s validation process stability data and responsible for technology transfer from lab to large scale
- Drafting timescale for the product from lab to commercial launch
- Plan and review calibration activities/ training & evaluating the sub ordinate

- Standardizing process procedure for new products to ensure vertical start up without any major issues
- Analyzed the bill of material/ workout costing for the product manufactured

## PERSONAL PROFILE

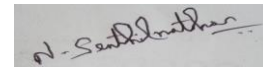
Father's name : T Natarajan  
Mother's name : N Anbarasi  
Date of birth : 16 May 1991  
Language Known : Tamil (R-W-S), English (R-W-S)  
Marital status : Married  
Residential address : 199/A3 Mettupalayam Main Road,  
Jothipuram PO, Coimbatore Dt,  
Tamilnadu. 641047

## REFERENCES

- 1) Academic reference:  
Dr. Balakrishnaraja, Professor & Head, Department of Biotechnology,  
AICTE ID: 1-470244061  
Bannari Amman Institute of Technology, Sathyamangalam, Erode, Tamilnadu  
[balakrishnarajar@bitsathy.ac.in](mailto:balakrishnarajar@bitsathy.ac.in)  
Mob. No. 9488570421
- 2) Industrial reference:  
Dr. Boobal Arasu, Ph.D in Photochemistry  
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## DECLARATION:

I hereby declare that the details furnished above are true to the best of my knowledge.



Place: COIMBATORE  
Date : 19-04-2025

(N.Senthilnathan)