

Brief Resume of Dr. Aparna Sunil Pharande



Dr. Aparna S. Pharande, Managing Director
Ashwamedh Engineers & Consultants
Survey No.102, Plot No.26, Wadala Pathardi Road, Indira Nagar,
Nashik - 422009, Maharashtra, India
Email: aparna@ashwamedh.net
Land: 0253-2391837 (direct) **Mobile:** 98222 61081 / 93253 85516

Educational Qualifications:

- Ph.D. (Environmental Science), Savitribai Phule Pune University (2015)
(Ph.D thesis title: Assessment of Ground Water Quality in and around Nashik)
- M.Sc. (Microbiology), Pune University (1994)
- B.Sc. (Microbiology), Pune University (1992)
- 3 months weekend Certificate Course on Food Packaging and Safety Management, Indian Institute of Packaging & ITC-FSAN (2022)

Profession:

- Operation of Environmental, Air, Water, Food & Agri, Soil, Fertilizers, AYUSH products, Solid Fuel and Packaging Material Testing Laboratory
- Training and Consultancy in Environment & Food Sectors

Professional Qualifications:

- Qualified/**Notified Food Analyst (under FSSAI)** as per the Food Safety Standards Rules, 2011 (Rule 2.1.4:1 (ii) (Qualified the first Food Analyst Exam Feb 2012), Gazette no. F.No. 13016/01/2017-QA dated 28.08.2018.
- Holds position as **Government Analyst as per Section 13 of Environment (Protection) Act**, 1986 (2004).
- **Lead/Technical Assessor (Biological) with NABL, QCI for ISO/IEC 17025** standard (since Feb 2007) (Completed about 300+ Assessments of Labs) and also Assessor for Integrated Assessments (NABL,EIC,APEDA,FSSAI, IOPEPC).
- **Lead/Technical Assessor (Biological) with NABL, QCI for ISO/IEC 17043** standard (For Accreditation of Proficiency Testing Providers) (since Oct 2014).
- **Master Trainer of FSSAI for Laboratory Capacity Building (in area of Pesticide residues and Mycotoxins)** (Trained in Singapore under Global Food Safety Partnership (GFSP) by Joint Institute of Food Safety & Applied Nutrition (JIFSAN), USA) (Dec 2016).
- **FSSAI National Level Resource Person (NLRP) for Water & Water based Beverage Sector** (Feb 2018).
- **FSSAI FoSTaC Trainer for Advanced Manufacturing** (Feb 2018) for Food Safety Supervisor course.
- **Master Trainer of FSSAI (Safe and Nutritious Food at School)** (June 2017).
- Lead Auditor - ISO 22000 (FSMS) (Sept 2017).

Significant Achievements:

- Have been an **Expert Member on the NABL Accreditation Committee for Testing Laboratories (2012-2014) and for Integrated Assessments (2019)**.
- Have been a Member of Technical Advisory Committee for strengthening Medical Oxygen Ecosystem in India (USAID RISE Project) (March 2023).
- NABL Trained Faculty for Training of Laboratories & Assessors on ISO/IEC 17025 Standard (Mar 2018).
- NABL Trained Trainer for Awareness on NABL Accreditation (Nov 2017).

- Have been a Member of the ‘Board of Post Graduate Studies of the Department of Microbiology, Babasaheb Bhimrao Ambedkar University, Lucknow’ (July 2018-2021).
- Have been a Member of the ‘Board of Studies of the Department of Microbiology, University of Mumbai, Mumbai’ (April 2019-2022).
- Member on ‘Interview Committee of Yashwantrao Chavan Maharashtra Open University’ (YCMOU)(Jan 2018,2022).
- Recognized as a Training Program Facilitator – ‘Environmental and Pollution Monitoring’ by Yashwantrao Chavan Academy of Development Administration (YASHADA), Pune.

Professional Experience: 30 years

- Established our Testing Laboratory in May 1998.
- Operation of Environmental, Air, Water, Food & Agri, Water, Soil, Fertilizers, AYUSH products, Solid Fuel and Packaging Material Testing Laboratory which covers “Farm to Fork” Testing requirements which includes the entire food value chain, serving 4000+ industries / customers.
- Implemented and achieved ISO/IEC 17025 (NABL accreditation TC-5509), ISO 9001, ISO 14001, ISO 45001 for the laboratory. Laboratory is also recognized by MoEFCC / CPCB, FSSAI, BIS, APEDA, EIC, AGMARK (only Laboratory in Nashik and North Maharashtra with ALL these certifications).
- Evaluation and Authorisation of Test reports of Food, Water, Waste water, Soil, Solid/Hazardous waste, Leachate, Ambient Air, Stack Emissions, Gases, Solid Fuels, Fertilizer, AYUSH products Samples including import and export of food commodities in Chemical & Biological disciplines.
- Implemented project on Water Quality Testing & Mapping of Nandurbar district under *Jalswarajya* Project, Water Supply & Sanitation Dept., Govt. of Maharashtra (World Bank aided Project) along with conduction of awareness campaigns regarding water quality. The findings were useful in designing of water treatment schemes.
- Implemented projects on Soil Quality Monitoring of Nashik District for the State Agricultural Dept. under Prime Minister’s Soil Health Card Scheme.
- Executed various Environmental monitoring projects for industries.
- Executed projects related to Comprehensive Environmental Pollution Index (CEPI) of Critically Polluted areas and Noise of Maharashtra for MPCB.
- Participated as a Testing Laboratory in FSSAI National Milk Survey for testing of adulterants (2016), "Edible Oil Quality Survey, 2020 (BOOST SAFE OIL)" (2020), FSSAI Trans Fat Survey (2022), National Milk Survey (2022), FSSAI Vegetable Survey (2022) and FSSAI Fortified Rice Kernels Survey (2023).
- Provided technical expertise to Hydrology Project Laboratories (Govt. of Maharashtra, World Bank aided Project) for Testing of Water samples of various River basins in Maharashtra.
- Being NABL Assessor, completed about 300+ Assessments of Labs as per ISO/IEC 17025.
- Headed NABL Sub-group on formulation of Model Scope for Food, Water and Air Microbiology.
- Successfully represented NABL in capacity of Lead/Technical Assessor (Biological) during the APAC Assessments (2012, 2016, 2024).
- Represented NABL in capacity of Technical Assessor (Biological) during International Assessment of Mauritius Govt. Food Laboratory (2016).
- Provided Training on Microbiological Testing of Food samples to National Food Testing Laboratory, Bhutan Agriculture and Food Regulatory Authority (BAFRA), Thimphu, Bhutan (2019).
- Deputed by NABL as Trainer for Training for Laboratories & Assessors on ISO/IEC 17025:2017 (2018).
- Conducted Gap Analysis of 10 Public Health Laboratories (Maharashtra, Gujarat, Jharkhand, Rajasthan) on behalf of FSSAI (2014).
- Deputed by FSSAI as Trainer for the first Training program on Analysis of Mycotoxins in Food commodities held at NRCG, Pune (2017).
- Faculty for various Training Programs including FSSAI FoSTaC.
- Provided training to GSDA Staff through Maharashtra Environmental Engineering Training and Research Academy (MEETRA) on Microbiological Analysis (2024).
- Provided consultancy for operation of various Sewage Treatment and Effluent Treatment Projects.

- Handled EIA study assignments, Environment audits/statements, Environment status reports and Green Audits.
- Handled various Consultancy assignments in Food & Environment Sectors.
- Organised Training Program on “Analysis of Contaminants (Heavy metals, Mycotoxins, Pesticides, Veterinary drugs & Antibiotics residues and Microbiology) in Food commodities” 10 – 14 October, 2022 Conducted by Ashwamedh Engineers & Consultants in collaboration with FSSAI.

Awards and Recognitions:

- **Felicitated with the “Maharashtra Udyogini Award 2014 - Gold Medal” organized by Sakal Media Group and MITCON in August 2014.**
- Felicitated by FSSAI as a Laboratory for active participation in "Swasth Bharat Yatra" during culmination ceremony in Delhi on 28.01.2019.
- Honoured & Felicitated with the Swayamsiddha Puraskar by Swayam Foundation on World Women’s Day, 7.03.2017.
- Felicitated with “Deshdoot Karmayogini Puraskar 2019”.
- Felicitated with ‘Hirakini Maharashtrachi’ Award 2021.
- “Distinguished Bioentrepreneur 2020” Award by Microbiologists Society, India.
- Presented the “Nashik Woman Leaders Award” by World Women Leadership Congress Awards 2023.

Professional Training Programmes attended:

- ISO/IEC 17025:2017 Assessors Refresher Training Program conducted by NABL on 9.02.2024.
- ISO/IEC 17043:2023 Assessors Training Program conducted by NABL from 12.10.2023 to 13.10.2023.
- Hands-on Training on Advanced Microbiological Techniques organized by FSSAI in association with Food and Drug Administration (FDA), Gujarat at FDA Laboratory, Vadodara from 26.11.2018 to 30.11.2018.
- FSSAI-ICMSF-CHIFSS Hands on Training on Microbiological Food Safety: Sampling and Testing in Food Safety Management held on 8.10.2018 at FSSAI, New Delhi.
- Attended awareness program on Integrated assessment for laboratories conducted by NABL at Mumbai on 6.10.2018.
- Attended training program on Integrated assessment for Assessors conducted by NABL at Mumbai on 5.10.2018.
- Training Program for “Faculty” on ISO/IEC 17025: 2017 by NABL during 23-25.03.2018 at Amritsar.
- NABL Accreditation Awareness program for “Trainers” (including Notification for Toys Testing) by NABL held on 27.11.2017 in Delhi.
- Lead Auditor Training for ISO 22000:2005 (FSMS) by IRQS, Mumbai, 18.09.2017 to 22.09.2017.
- Training of Trainers for ‘Safe & Nutritious Food at School’ (SNF@School) organized by EU-CITD & FSSAI, 12.06.2017 to 13.06.2017 in Mumbai.
- Training of Trainers for ‘Food Safety Supervisor’s Training (Advance Manufacturing) under FoSTaC (FSSAI), 2.02.2018 in Mumbai.
- Training of Trainers program for analysis of Pesticide residues and Mycotoxins in Food, organized in Singapore by FSSAI under Laboratory Capacity Building Project in collaboration with Global Food Safety Partnership (GFSP) and Joint Institute of Food Safety & Applied Nutrition (JIFSAN),USA, 30.11.2016 to 13.12.2016.
- Training on ICP-AES by Thermo Electron Corporation, 2008 & Agilent Technologies, 2016.
- Training on Ion Chromatograph, Metrohm, Feb 2016.
- Training on CHNS Analyser, Perkin Elmer, Dec 2015.
- Qualified successfully in NABL Assessor Course as per ISO/IEC 17043 held by NABL at IRMRA, Thane, 27.09.2014 to 1.10.2014.
- Awareness program on Reference Material Producer (RMP) Accreditation based on ISO Guide 34, Mumbai, 28.05.2014.
- Training on LC-MS/MS, Agilent Technologies, Feb 2012.
- Training on Working, Usage and Analysis of Mycotoxin by Ridascreen R-Biopharm ELISA Reader, Nov 2011.
- Training on GC-MS/MS, Agilent Technologies, Oct 2011.
- Quality System as per Requirements of ISO/IEC 17043 for Proficiency Testing Providers, by NABL & PTB (Germany), New Delhi, 5-8 Sept 2011.
- Training on FTIR by Shimadzu / Toshvin Analytical, 6-7 Sept 2010.
- Orientation Program on Accreditation of Proficiency Testing Providers (as per ISO/IEC 17043) by NABL in Bangalore, 10.07.2010.
- Training on Pesticide Residue Analysis in Food and Environmental Samples, IARI, Delhi, Mar 2010.

- Training on Air Sampler, Himedia Laboratories Pvt. Ltd., 28.01.2009.
- Good Laboratory Practices (GLP), CII Institute of Quality, Mumbai, August 2008.
- Qualified successfully in NABL Assessor Course as per ISO/IEC 17025 held by NITS, BIS, Noida in coordination with NABL, 19.02.2007 to 23.02.2007.
- Training on HPLC by Waters India Pvt. Ltd., 2007.
- General requirements for the competence of Testing & Calibration Laboratories and Internal Audit as per ISO/IEC 17025 by IDEMI, Mumbai, 3.05.2005 to 6.05.2005.
- Global GAP (Eurep GAP) & Organic Farming-Processing & Certification, TUV SUD, Nashik, Sept 2009.
- Laboratory Quality System Accreditation as per ISO/IEC 17025 by ERTL, Mumbai, 24.01.2003.
- Uncertainty in Measurements for Testing Laboratories by CETE-NABL, Bangalore, 1.08.2003 to 3.09.2003.
- Certified Internal Auditor (ISO 9001) by ERTL, Mumbai, 22.12.2003 to 24.12.2003.
- Training on Atomic Absorption Spectrophotometry and Gas Chromatography, Chemito, Nashik, 1999.

Work Shops/Conferences/Seminars/Forums attended:

- Attended Global Food Safety Regulators Summit during World Food India in Delhi, 20-21.09.2024.
- Attended NABL 8 th PTP/RMP Conclave in Mysore, 30-31.08.2024.
- Attended National Symposium on Organic Produce at Delhi on 8.11.2023.
- Attended NABL 6 th PTP/RMP Conclave in Bangalore, 24.01.2022.
- Attended NABL 3 rd PTP/RMP Conclave in Delhi on 19.12.2019.
- Participated in State Level Seminar on “Frontiers in Microbiology & Annual Microbiologists Meet-2018” on 20.10.2018 and 21.10.2018.
- Attended FSSAI-ICMSF-CHIFSS Hands International Symposium on ‘Microbiological Food Safety: Sampling and Testing in Food Safety Management’ held on 9.10.2018 & 8.10.2018 at FSSAI, New Delhi.
- Attended Workshop on National Level Resource Persons for Water & Water based Beverage Sector at FSSAI HQ, New Delhi on 20.02.18.
- Attended Seminar on “Legal Liabilities for Laboratories and Possible Improvements in Accreditation System for Laboratories” conducted by Mr. Peter Unger, ILAC, Mr. Jeff Gust, CASCO, Mr. Raj Nathan, IAS, Mumbai, 10th Nov 2016.
- Attended Workshop on “ISO/IEC 17025:Revisions” conducted by Mr. Peter Unger, ILAC & Mr. Jeff Gust, CASCO, Mumbai, 15th April 2016.
- Attended National Seminar on Recent FSSAI Notifications and Amendments by AFSTI, Mumbai, on 9th March 2016.
- Attended NABL Assessor Conclave in Pune, Feb 2016.
- Attended AOAC Annual Conference in Pune, Nov 2015.
- Attended Workshop on “Applications of Statistics” KTHM College, Nashik, 23-24 Jan 2015.
- Attended Food Safety Seminar conducted by FDA and Shimadzu, Nov 2014.
- Attended AOAC Annual Conference in Mumbai, Nov 2014.
- Participated in “Workshop on Water Quality Monitoring” under Hydrology Project (SW), Maharashtra, 8-9 April 2013.
- Attended AOAC Inaugural Seminar in Mumbai, April 2012.
- Participated in “State Level Seminar on Application of Remote Sensing and GIS in Environment Management”, KTHM College, Nashik, 29 Feb-1 Mar 2012.
- Participated in “Global Technology Forum on Food Safety, 2011 for Strategies for Effective Regulation in Food Safety” by Shimadzu in Singapore, 10-11 Nov 2011.
- Participated in “India Food Seminar” conducted by Agilent Technologies in Bangalore, 3-4 Oct 2011.
- Participated in Seminar on “Online Dust and Flue Gas Flow Monitoring for Dust Emission Trading” held by Forbes Marshall, Pune, 29th Sept 2011.
- Participated in “State Level Workshop on Water Management”, Hydrology Project, Nashik, 25-26 Mar 2011.
- Participated in Workshop on “Water Quality Monitoring of Surface Water with Sampling Techniques & Data Validation”, 18th & 19th Feb 2011.
- Participated in Awareness Programme on “Food Safety & Quality”, Quality Council of India, Jan 2010.
- Participated in the High Level Conference on “Strategies for Control of Air Pollution in Mumbai” organised by MPCB & NEERI, Mar 2005.
- Participated in the “Workshop on Decentralized Waste Water Management System & Community Sanitation” organised by PMC, YASHADA, Pune, Nov 2003.

Research Activities:

- Studies on Packaged Natural mineral water for identification of *Bacillus atrophaeus* and remedial actions.
- Water Quality Monitoring of River Godavari at Ramkund, Nashik carried out during the *Kumbha Mela* period, 2015.
- Water Quality Monitoring of River Godavari at Ramkund, Nashik & Kushavartha Tirtha, Trimbakeshwar carried out during the *Kumbha Mela* period, 2003-2004.
- Ambient Air Quality and Noise Levels Monitoring during the *Kumbha Mela* period, 2003-2004.
- Water Pollution Monitoring along the course of River Godavari from source at Trimbakeshwar till Eklahare.
- Air Quality Monitoring & Noise Level Monitoring during Diwali Period, Noise Level monitoring during *Ganapati & Navaratri* Festivals.
- Carbon Sequestration using Marine Microalgae in order to combat global warming, 2012-2014.
- Assessment of Ground Water Quality in and around Nashik', 2010-2015.

Research Papers published:

- Evaluation of Heavy Metal Contamination in Ground Water of Ambad Industrial Area of Nashik, Maharashtra, India, **Aparna Borawake Pharande**, V. B. Gaikwad, Sucheta Patil, Kamra Anjana in International Journal of Science and Research (IJSR) ISSN (Online): 2319-7064 Index Copernicus Value (2013): 6.14 | Impact Factor (2013): 4.438 Volume 4 Issue 7, July 2015 www.ijsr.net
- Assessment of Ground Water Quality of Pathardi Region of Nashik, Maharashtra, India, **Aparna Borawake Pharande**, V. B. Gaikwad, Sucheta Patil, Kamra Anjana in International Journal of Science and Research (IJSR) ISSN (Online): 2319-7064 Index Copernicus Value (2013): 6.14 | Impact Factor (2013): 4.438 Volume 4 Issue 7, July 2015 www.ijsr.net
- Ultrasound assisted extraction of selected edible macroalgae: Effect on antioxidant activity and quantitative assessment of polyphenols by liquid chromatography with tandem mass spectrometry (LC-MS/MS), Yogesh Kumar, Somya Singhal, Ayon Tarafdar, **Aparna Pharande**, M. Ganeshan, Prarabdh Badgujar in Algal Research (Elsevier), 52 (2020)102114 www.elsevier.com
- Polyphenols of edible macroalgae: Estimation of in vitro bio-accessibility and cytotoxicity, quantification by LC-MS/MS and potential utilization as an antimicrobial and functional food ingredient, Yogesh Kumar, Ayon Tarafdar, Deepak Kumar, Chakkaravarthi Saravanan, Prarabdh C. Badgujar, **Aparna Pharande**, Sunil Pareek, Olaniyi Amos Fawole in Antioxidants 2022, 11,993 <https://doi.org/10.3390/antiox11050993>

Social Activities:

- Participated in awareness program on Milk adulteration in collaboration with FDA, Nashik and *Grahak Panchayat* (May 2024).
- Organised active Participation of Ashwamedh as a Testing Laboratory in *Swasth Bharat Yatra* and promotion of Eat Right India at various locations in Maharashtra (Oct 2018-Jan 2019).
- Organised State Level Seminar 'Frontiers in Microbiology' at Nashik as Joint Organizing Secretary (Oct 2018).
- Interviewed by Radio Vishwas & E-Prasaran Internet Radio on occasion of World Food Day 2016 & 2017.
- Publishing of Environmental awareness articles in newspaper.
- Tree Plantation drives and Drawing competition on World Environment Day.
- Faculty for delivering lectures on Environment and Food Quality & Safety Awareness to college students.
- Faculty for delivering lectures on Environment during Refresher Course under UGC for Lecturers.
- Judge for Science exhibitions in Schools and Colleges.
- Conduction of rally on World Environment Day.
- Bringing about awareness on World Food Day and World Food Safety Day.

Memberships:

- Life Member of Association of Food Scientists and Technologists (India) (AFSTI).
- Life Member of Indian Association for Environment Management.
- Life Member of Microbiologist Society, India.

- Member of AOAC International (USA).
- Member of Chamber of Advancement of Small and Medium Business (CASMB),Mumbai.
- Member of Maharashtra Chamber of Commerce and Industry.
- Member of Nashik Industries & Manufacturers' Association.
- Member of Ambad Industries & Manufacturers' Association.



Dr.Aparna Sunil Pharande

29.10.2024
