

Mr. Devendra J. Haware, M.Sc.

Senior Scientist

Food Safety & Analytical Quality Control Laboratory

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Educational Qualification

- 2011 – till date **Submitted Ph.D. Thesis at RTM Nagpur University**
Title: Feasibility and Health Risk Assessment Studies of Heavy Metal (HM) in Food and Water. Under the Supervision of Dr. Farhin Inam, Professor, Institute of Science, Nagpur & Dr. D.S. Ramteke, Chief Scientist, EIRA Division, CSIR-NEERI, Nagpur
- 1993 – 1995 M.Sc. in Organic Chemistry, Elective paper Environmental Chemistry from University of Nagpur, Maharashtra, India
- 1989 – 1993 B.Sc. in Chemistry, Botany, Zoology, University of Nagpur, Maharashtra, India

Professional Experience

- 2002 – till date Senior Scientist at Food Safety & Analytical Quality Control Laboratory CSIR- Central Food Technological Research Institute, Mysore.
Monitoring the safety and quality of various food and food products received at the appellate levels from various trying courts as well as from Port Health Authorities. Developing / determination of food constituents and food additives, toxicants and contaminates, immunoassay method for the detection of toxic metals ions in environment water and food sample.
- 2000 – 2002 Chemical Investigator at Regional Testing Centre (ER), Government of India, Ministry of Industry.
Analysis of packaged drinking water, mineral water, building materials, synthetic detergent and paints on AAS, GC, pH ion selective meter and UV-Visible Spectrophotometer.
- 1999 – 2000 Junior Research Fellow at CSIR-National Environmental Engineering Research Institute, Nagpur – 440 020, Maharashtra
Analysis of water and waste water or various technique like COD, BOD, Conductivity, pH, phenol and Heavy metals by ICP/AAS.
Test of toxicity characteristics leaching procedure (TCLP) from sludge

generated at different industries.
1996 – 1998 Research Associate at Central Institute for Cotton Research (ICAR), Nagpur
– 400 001, Maharashtra
Identification of Cotton germ plasm for improved levels of unsaturated fatty acids.
Techniques of oil quality analysis including oil extraction and derivatisation.

Training & Workshop Attended:

1. ISO 17025-2005 Internal Auditing Training Programme at CSIR-CFTRI, Mysore August 4-5, 2011.
2. Training workshop on “Metrology in Chemistry (MIC) 6-10 December, 2010, Mysore, India.
3. Training course for ICP-AES use training at Horiba Jobin Yvon, S.A.S., France, November 2-5, 2009.
4. Training on Estimation of Measurement of Uncertainty in Routine analysis, July 1-3, 2009, IHBT, Palampur, H.P.

List of Projects involved:

Project No.: NWP-0017

Title : Environmental contaminants, New Screening Technologies and Effect on Human Health

Period: April 2007 to March 2012.

Project No.: NWP-045

Title: Advancement in Metrology (Development of certified reference materials).

Period: April 2008 to March 2012

Project No.: MLP-090

Title: Fruit Pulp and Fruit Bar and other value added products prepared from Papaya and Guava Fruits.

Period: April 2010 to March 2012

Teaching Activities

1. Performed practical / laboratory class demonstration of ICP-AES/ AAS Instrument operation and Heavy Metals / Minerals analysis for the short term training course participant on the topics Heavy metals in food, CFTRI, July 27, 2011.
2. Delivered a lecture class to short terms training course participant on the topic heavy metal/ minerals analysis in food, for the training programme “Approaches to Safety and Quality in Food Processing, CFTRI, February 15, 2012.
3. Delivering lecture classes / practical classes for M.Sc. Food Technology students, CFTRI, Mysore.

Process Filed

1. **Title:** Development of barley-lemon and barley-orange ready to serve (RTS) beverage under project, Studies on development of barley based health drink / beverage using fruit juices/ flavours.
Project No. CNP-487
2. **Title:** A process for the preparation of bael nector (with and without artificial sweetener).
Project: Preparation of health products from bael fruit (Aegle marmelos L.) evaluation of anti ulcer, anti diabetic and anti cancer properties.
Project No.: GAP-0396

M.Sc. Student Guided

- 1) Ms. Aditi Chauhan from Uttakhand Technical University, BFFT College, Dehradun for dissertation entitled “Levels of Heavy Metals Concentration in Some Leafy Vegetables locally available in the Market of Mysore.
- 2) Mr. Ravi Kumar from the Uttar Pradesh University for dissertation entitled “Health Risk Assessment of Heavy Metals in Water and Soil.
- 3) Ms. Fazeena Farig from the Mahatma Gandhi University, Kottayam for dissertation entitled “ Studies on the level of toxic metals (Lead, Cadmium, Copper, Manganese, and Zinc) in some convenience foods.”

- 4) Mr. P. Navaneeth from chennai University (Bachelor of Engineering in Biotechnology) for dissertation entitled “Determination of some heavy metals (Pb,Cu,Cd,Zn, and Ni) in soft drinks using Flame Atomic Absorption Spectrophotometer.”
- 5) Ms. Cho Mar from Myanmar for Research Training Fellowship for Developing Country Scientist (RTF-DCS) for a period of six months report entitled “Study on Heavy Metals (Cadmium, copper, iron, Lead, Manganese, Nickel and Zinc) in Natural Honey”.

Publications:

1. Minakshee Dwivedi, K.Y. Vasantha, Y.N. Sreerama, **Devendra J. Haware**, R.P. Singh, A.P. Sattur, 2015, Kaulath, a new fungal fermented food from Horse Gram, Journal of Food Science Technology.
2. Minakshee Dwivedi, K.Y. Vasantha, Y.N. Sreerama, **Devendra J. Haware**, R.P. Singh, A.P. Sattur, 2015, Nilamadana new fungal fermented cereal based food. Journal of Functional Foods, Vol. 15, 217-224.
3. Priya Pramod Havanur & **Devendra J. Haware**, 2014, Determination of Specific Heavy Metals in Fruit Juices using Atomic Absorption Spectroscopy (AAS), International Journal of Research in Chemistry and Environment. Vol. 4 (3), 163-168.
4. S.V. Mamatha & **Devendra J. Haware**, 2013, Document on Fluoride Accumulation in Ground and Surface water of Mysore, Karnataka, India, Current World Environment, Vol. 8, No. 2.
5. S.E. Mallikarjuna, A. Ranjini, **Devendra J. Haware**, M.R. Vijayalakshmi, M.N. Shashirekha, S. Rajarathnam, 2013, Mineral Composition of Four Edible Mushrooms, Journal of Chemistry.
6. Iychettira M. Mandappa, Ankaiah Ranjini, **Devendra J. Haware** & Haravey K. Manonmani, 2013, Immunoassay for the lead ions. Analysis of food samples, Journal of Immunoasay & Immuno Chemistry.
7. D.K. Daultani, D.M. Rode, **Devendra J. Haware** and P.V. Patil, 1999, Removal of Ni (II) and Cu (II) from solution using eucalyptus Globulus Bark substrate. Research Journal of Chemistry and Environment, Vol. 3 (2).