

Bio data

- **Staff Id** : 632
- **Name** : Vilas M. Shinde
- **Designation** : Sr. Technical Officer (1), Gr. III(4)
- **Education** :

Sr. No.	Institution Place	Degree Awarded	Year	Field of Study
1	A.M.I.E. (Computer Engineering)	Institution of Engineers (India), Kolkata	2003	Computer Hardware/Software
2	Post Diploma in Computer Applications	Board of Technical Education, Mumbai	1993	Computer Hardware/Software
3	Diploma in E & TC Engineering	Board of Technical Education, Mumbai	1991	Electronics and Telecommunication

➤ **Position held:**

Sr. No.	Institution Place	Position	From (Date)	To (date)
1	CSIR-NEERI	Sr. Technical Officer {Gr.III(4)}	29/08/2010	Present
2	CSIR-NEERI	Sr. Technical Assistant {Gr.III(3)}	29/08/2005	29/08/2010
3	CSIR-NEERI	Jr. Technical Assistant {Gr.III(2)}	29/08/2002	29/08/2005
4	CSIR-NEERI	Jr. Technical Assistant {Gr.III(1)}	29/08/1997	29/08/2002

➤ **Associated with the following ongoing projects: (“Project Name”; Sponsored agency; Year (from.....to)**

Team Member in following projects

- Water quality monitoring of Ganga river from Gomukh to Hoogley under National Mission for Clean Ganga
- Development of Mass Scale production of Phosphors for Dosimetric Applications (Sponsor: Bhabha Atomic Research Centre, Mumbai)
- Development of Modified Materials for the removal of Arsenic from Aqueous Solutions
- Traceability to Si for Cd and Pb parameters in wastewater matrix
- Studies on up-gradation of effluent treatment plant for environmental compliance including feasibility assessment for effluent recycle / reuse at Indian Oil Corporation Ltd. (IOCL), Assam Oil Division, Digboi, Assam

- Remote access of analytical instruments at central instrumentation facility in general and gas chromatography in particular using LAN facility (In-house Project)

➤ **Peer-reviewed publications :**

1. Dynamics of effluent treatment plant during commissioning of activated sludge process unit
Amit Bafana, Gulshan Kumar, Sanjay M. Kashyap, Gajanan S. Kanade, **Vilas M. Shinde**,
Journal of Environmental Science and Pollution Research, DOI: 10.1007/s11356-014-3597-x,
September 2014
2. A Proposed Method to Minimize the Global Warming and Environmental Pollution
P. R. Tayade, V. S. Sapkal, R. S. Sapkal, S. K. Deshumkh, C. V. Rode, **V.M. Shinde**, G. S.
Kanade Journal of Environment Science & Engineering (NEERI), 52(2), 287-293, April 2012
3. Heavy Metal Status and Oxidative Stress in Diesel Engine Tuning Workers of Central Indian
Population
Sivanesan Saravana Devi, Arup Ratan Biswas, Raka A Biswas, Nadimuthu Vinayagamoorthy,
Kannan Krishnamurthi, **Vilas M. Shinde**, Jan G Hengstler, Matthias Hermes & Tapan
Chakrabarti
International Journal of Occupational and Environmental Medicine. Vol. 49, 2007, pp 1228-
1234
4. Advanced Analytical Instrumentation for Environmental Sample Preparation
G.H. Pandya, B.Z. Alone, G.S. Kanade & V.M. Shinde,
Indian Journal of Environmental Protection. Vol 23, No. 2, April 2003
5. Operating environmental laboratories – An approach to management of analysis
equipment
G.H. Pandya, G.S. Kanade, **V.M. Shinde** & V.K. Kondawar
Indian Journal of Environmental Health, Vol 45, No. 04, pp 311-316, October 2003
6. Obtaining and processing analytical data from GC in the window environment
G.S. Kanade, **V.M. Shinde**, G.H. Pandya & B.Z. Alone
Indian Journal of Environmental Protection. Vol 22, No. 10, October 2002 pp 1127-1131

➤ **Books: Chapter in book**

Equipment : Operation and maintenance for pollution level assessment in Air, water and
soil pollution. Editor – Dr. K.K. Singh

Authors : Dr. G.H. Pandya, G.S. Kanade, **V.M. Shinde** and Dr. V.K. Kondawar

➤ Papers in Conferences/Workshops/ Training Course (Part List):

Papers in International/National Conferences/Workshops

1. Assessment of air pollution in and around Nagpur city
K. Krishnamurthi, Mayuresh D. Bhanarkar, V. M. Shinde, Mrunal Meshram, N. N. Bokade, G.S.Kanade, Tunde Ogbemi Etchie, Gregory O Adewuyi, S. Saravana Devi
at 102nd Indian Science Congress hosted by University of Mumbai, Mumbai from 3-7 January 2015
2. Size distribution of heavy metals associated with particulate matter in commercial cum residential area of Nagpur city
P.P. Pipalatkar, D.G. Gajghate, V.V. Khaparde, **V.M. Shinde**, C.V. Chalapati Rao
at ETWMT-09 : Indo-Italian conference on Emerging trends in Waste management technology at MIT college of Engineering, Pune and published in proceedings, pp 514-518, December 3-4, 2009
3. Trends in and Dynamics of innovation in analytical instruments for environmental analysis
Shinde V.M., Kanade G.S., Pandya G.H
at National symposium on Instrumentation (NSI 32) during October 24-26, 2007
4. Instrumentation Services in Environmental Laboratories
Shinde V.M., Kanade G.S., Pandya G.H
at National symposium on Instrumentation (NSI 32) during October 24-26, 2007
5. Automation of Instrumentation in Water Treatment Facilities
Pandya G.H., **Shinde V.M.**, Kanade G.S., Kondawar V.K.
at International workshop on R & D frontiers in Water and Wastewater management (Water-2006) at NEERI, Nagpur, pp 522-532, January 20-21, 2006.
6. The need and applications of ICP – AES for Environmental Elemental Analysis
Shinde V.M., Kanade G.S., Pandya G.H. & Kondawar V.K.
at National symposium on Instrumentation (NSI 30) at Cochin, November 29-30, 2005
7. Determination of VOCs in aqueous samples using Headspace GC
Kanade G.S., **Shinde V.M.**, Pandya G.H. & Kondawar V.K.
at National symposium on Instrumentation (NSI 30) at Cochin, November 29-30, 2005
8. Sequestration of greenhouse gas (CO₂) by enhancing the carbonic anhydrase enzyme activity with Zn fertilization
K. Krishnamurthi, **Shinde V.M.**
At Greentech 2004 Conference, Hyderabad, during November 04-06, 2004

9. Application of remote sensing and geographical information system in hazardous waste disposal Galgale H.M., Kanade G.S., **Shinde V.M.**
at National conference on Status of Environmental Management in Mining industry. at Varanasi, January 2003
10. Application of Remote Sensing in Environmental Studies
Galgale H.M., Kanade G.S. & **Shinde V.M.**
at National conference on Pollution Prevention and control in India, VRCE, Nagpur – March 2-3, 2002
11. Applying internet technology for GIS and Remote Sensing applications
Kashyap S.M., Kanade G.S. & **Shinde V.M.**
at National conference on Pollution Prevention and control in India, VRCE, Nagpur – March 2-3, 2002
12. Futuristic Aspects of Instrumentation and Automation related to Environmental Applications
G.H. Pandya, G.S. Kanade, **V.M. Shinde** & V.K. Kondawar
at National Symposium on Analytical Instruments (NSAI 2001), Chandigarh
13. Development of data processing tools for Analytical Instruments
G.S. Kanade, **V.M. Shinde**, B.Z. Alone, G.H. Pandya & V.K. Kondawar
at National Symposium on Instrumentation (NSI 24), Goa, 2-5 Feb 2000
14. Advanced Analytical Instrumentation for Environmental Sample Preparation
G.H. Pandya, B.Z. Alone, G.S. Kanade & **V.M. Shinde**
at National Symposium on Instrumentation (NSI 24), Goa, 2-5 Feb 2000
15. Management of Analytical Instrumentation in Environmental Laboratory
G.H. Pandya, B.Z. Alone, G.S. Kanade, **V.M. Shinde** & V.K. Kondawar
at National symposium on Instrumentation (NSI 25), Bangalore, Nov 8-11, 2000
16. Microprocessor base pH controller for sugar industry
G.S. Kanade, **V.M. Shinde** & G.H. Pandya
at National symposium on Instrumentation (NSI 25), Bangalore, Nov 8-11, 2000

Training attended

- Training on “JEOL JMS 700(2) The MStation Magnetic Sector Mass Spectrometer (HRGC-HRMS)” during the period of October 05th to 19th, 2013 at factory site of M/s JEOL, Tokyo, JAPAN.

- “Laboratory quality system management and internal audit based on ISO/IEC 17025:2005” at NEERI, Nagpur during February 22-25, 2011.
- “Laboratory Quality Management and Internal Audit as per ISO/IEC 17025:2005” organized by Centre for Electronics and Test Engineering, STQC Directorate, Dept. of IT, Govt. of India, Bangalore during September 13-16, 2010.

➤ **Write-up of Scientists Homepage (Details about their contribution in R & D along with personal details**

Vilas M. Shinde, has completed Diploma in Electronics and Telecommunication Engineering from Board of Technical Education, Mumbai in 1991. Subsequently, he has completed Post diploma in Computer Applications from the same board in 1993. He has obtained a degree of A.M.I.E in Computer Engineering from Institution of Engineers (India), Kolkata in year 2003. He has experience of more than 16 years in method development and elemental analysis of in-organic samples using analytical instrumentation techniques. He is also providing technical support for up-keeping of the instruments in the central facility, repair & maintenance of analytical/electronic instruments in the institute.

The significant contribution is in the field of analytical instrumentation through operation and maintenance of Sophisticated Analytical Instruments like Inductively Coupled Plasma – Optical Emission Spectrometer (ICP-OES) instruments in the Centralised facility of the institute. Numerous environmental samples of various projects and R&D studies carried out in the institute are analysed using these techniques on regular basis with qualitative and quantitative results. He is also looking after the maintenance of HRGC-HRMS instrument in the central facility.

He has won CSIR outstanding performance award for the year 2006 and NEERI golden jubilee outstanding performance award in the year 2008. He is also trained in the ISO 9001:2008 standards ISO/IEC 17025 NABL standards and implemented these standards for the ICP-OES and Pesticide Residue Laboratory respectively

He is member of various technical committees in the institute and providing S&T inputs for various technical meetings. He has 22 publications including publications in SCI journals, International/National Conference/Workshop proceedings, 3 patents, contributed one chapter in a book. He is faculty for CSIR-AcSIR academy and training programmes organised in the institute. He is an Associate member of Institution of Engineer’s (India).