

## **Prof. Vikram Shantaram Ghole, Ph.D.**

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### **Works address:**

Academic Cell  
National Institute of Virology (NIV),  
Pashan-Sus Road,  
Pune 411021, India  
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## **SUMMARY**

Vikram is a methodical and result-oriented scientific researcher with experience in Biochemistry, Molecular Biology and Environmental Sciences. Having devoted nearly thirty years of his lifetime to extensive research, teaching graduate students, supervising students pursuing Master's in Biochemistry and Doctoral Research and administration of the Environmental Sciences Department at Pune University in his capacity as the Head of the Department, Vikram has had a unique and enriching academic and administrative experience. Extensive laboratory research experience at various reputed laboratories in India, Germany and USA adds to his capability. As a creative and reliable person, who is attentive to detail and produces quality work, students, academicians and colleagues constantly seek Vikram. His capability of managing multiple tasks simultaneously, excellent communication skill, compassion for students and his ability to work as a good team player and desired team leader, makes him highly popular among students and peers.

## **PERSONAL**

Born on 3rd November 1947 at Pune, Maharashtra, India, Vikram is married to Madhuri. Her constant, unconditional support and encouragement has helped Vikram in his endeavors. They have one daughter and one son.

## **EDUCATION**

Ph.D. Biochemistry (Chemistry), University of Pune, Pune, India (1980)  
M.Sc. Biochemistry, University of Pune, (1<sup>st</sup> Class) Pune, India (1972)  
B.Sc. Chemistry (Prin.), Physics & Zoology (Subsidiaries) (2<sup>nd</sup> Class Hons.)  
University of Pune, Pune, India (1969).

## **DETAILS OF PROFESSIONAL EXPERIENCE**

- |  |   |
|--|---|
| <b>Coordinator,(Scientific) Academic Cell</b> , National Institute of Virology, Pashan-Sus Road, Pune 411021, India      | July 2012 – till today                      |
| <b>Professor and Head</b> , Department of Environmental Sciences, Vasantdada Sugar Institute (VSI), Manjari (Bk.), Pune. | March 2009 – Jan. 2012                      |
| <b>Professor in Biochemistry</b> , Division of Biochemistry, Department of Chemistry, University of Pune, India          | July 1998- Feb.2009.                        |
| <b>Head and Coordinator, Environmental Sciences</b> , University of Pune, Pune 411007, India.                            | May 2006 – Feb. 2009<br>Nov 1999 – May 2005 |

**Professor and Head, School of Life Sciences**, Swami Ramanand Theerth Marathwada University, Nanded (Maharashtra) 431606, India July 1997 – July 1998

**Postdoctoral researcher**, Department of Surgery, Div. of General Surgery, Robert Wood Johnson Medical School, University of Medicine and Dentistry of New Jersey, New Brunswick, NJ, USA. April 1995 - April 1996

**Postdoctoral researcher**, Department of Pediatrics, Wayne State University, Detroit, MI, USA. Sept 1991 - Jan. 1993

**Postdoctoral researcher**, Department of Biochemistry and Molecular Biology, University of Medicine and Dentistry of New Jersey, Newark, NJ, USA. Sept 1989 - Aug. 1991

**Reader in Biochemistry**, Div. Biochemistry, Department of Chemistry, University of Pune, Pune 411007, India. July 1989 – July 1998

**Honorary Biochemist**, Clinical Biochemistry at Poona Hospital and Research Center, Pune, India. Jan. 1986 – June 1994

**Visiting scholar**, University of Bremen, Germany. Sept. 1985 - Dec. 1985

**Lecturer in Biochemistry**, Div. Biochemistry, Department of Chemistry, University of Pune, Pune 411007, India. July 1976 - July 1989

**Visiting Faculty**: University of Jonkoping, Sweden  
10<sup>th</sup> April – 1<sup>st</sup> May „07  
10<sup>th</sup> May - 1<sup>st</sup> June „05  
8<sup>th</sup> - 20<sup>th</sup> Sep. „04

**Ex-Secretary** and Maharashtra Association for Cultivation of science. (MACS-ARI), Pune. March 2009- Feb, 2014

Life member: Bhandarkar Oriental Research Institute, Pune Feb. 2017- till today

**Professional Memberships and responsible positions**

- **Member** of Research and Reorganization (R&R) Committee for Environmental Sciences, University of Pune
- **Ex-Chairman**, of Ad-hoc Board of Studies in Biochemistry. University of Pune
- **Ex-Chairman** of Ad-hoc Board of Studies in Environmental Sciences. University of Pune
- **Ex-Member** of Academic council, University of Pune
- **Member** of Board of Studies and Research and Recognition committee of Biochemistry, Shivaji University, Kolhapur
- **Ex-Member** of Board of Studies and Research and Recognition committee of Biochemistry, North Maharashtra University, Jalgaon

- **Ex-Member** of Board of Studies in Biochemistry: Mahatma Phule Agriculture University, Rahuri
- **Ex-Chairman**, Indian Environmental Association, Pune Chapter
- **Ex-Member** of Public Hearing committee for Industrial projects, Maharashtra Pollution Control Board, Pune
- **Secretary**, Maharashtra Association for Cultivation of Science (MACS), Pune
- **Ex-Member, International Maillard Reaction Society (IMARS), USA**

## RESEARCH INTERESTS

- |   |   |
|---|---|
| <b>Title of Ph.D. Thesis</b>  | <ul style="list-style-type: none"> <li>• „Evaluation of Thyroid Function by the levels of Protein Bound Iodine (PBI) and Butanol Extractable Iodine (BEI)“, Research was conducted at B. J. Medical College, Pune, India</li> </ul>   |
| <b>Current Research Interest</b>  | <ul style="list-style-type: none"> <li>• Biodegradation of high explosives, spent-wash and other compounds</li> <li>• Intestinal Ischemia and free radicals</li> <li>• Molecular biology based study of plasmid born resistance to antibiotics in <i>Acinetobacter</i></li> <li>• Glycosylation of proteins in prolong hyperglycemic condition and complications in diabetes</li> </ul>   |
| <b>Projects completed</b><br>(One lakh = 0.1 Million)<br>(One USD= Rs. ~50) | <ul style="list-style-type: none"> <li>• Development of Non-invasive tumor marker for cancer: sponsored by Indian Council for Medical Research. (Rs. ~1.5 lakhs)</li> <li>• Production of Biogas from night soil: sponsored by Department of on-conventional Energy Sources, Govt. of India. (Rs. 3.0 lakhs)</li> <li>• Process development for safe disposal of effluent of night soil utilizing biogas plant: sponsored by City of Bremen Solidarity, Germany. (Rs. 3.0 lakhs)</li> <li>• <i>In vivo</i> study of the competition between amino groups of proteins and free amino acids towards the non-enzymatic glycosylation by glucose: sponsored by UGC (University Grant Commission), India. (Rs. ~0.35 lakhs)</li> <li>• Microbial treatment to the effluent of high explosive factory: sponsored by DRDO (Dept. of Defense Research and Development Organization). (Rs. ~3.70 lakhs)</li> </ul> |

- Study of glycation in presence of borate ion. Sponsored by UGC (Rs. ~0.40 lakhs)
- Microbial degradation of Ammonium perchlorate: sponsored by ISRO (Rs. ~6.0 lakhs)
- Glycation and enzyme activity, UGC (Rs. ~7.00 lakhs)
- Validation of claims from Kautilya Arthashastra. DRDO (Rs. ~7.3 lakhs)
- Glycation and protective effective of amino function and herbal extracts hyper-glycemic conditions. UGC (Rs. ~6.70 lakhs)
- DBT sponsored course on „Bio Resources“ (Rs. ~ 5.7 lakhs) May 2004.
- DBT sponsored course on „Bio Resources“ (Rs. ~ 4.7 lakhs) May 2005.
- Intestinal ischemia and development of bimolecular marker. DST, India. (Rs. ~17.0 lakhs)
- Chemical degradation of Explosive and biodegradation (Rs. ~5.0 lakhs)
- Eco-friendly disposal of Ammonium perchlorate, ISRO (Rs. ~ 7.00 lakhs)
- Safe disposal of TNT, RDX by composting, DRDO (Rs. ~ 9.4 lakhs)
- Molecular characterization of urinary isolates of *Acinetobacter*. UGC (Rs. ~7.00 lakhs)

- Development of therapeutic intervention for diabetic complications sponsored by DYNAMIS THERAPEUTICS, Philadelphia, PA, USA (Rs. ~15 lakhs)
- Assessing the suitability of the fly ash as soil amendment with special emphasis on toxicity to earthworms and microflora. DST (Rs. 20 lakhs)
- Treatment to the effluent of Handmade paper unit. KVIC, Govt. of India, (~Rs. 3.15)
- “Safe disposal of left-over charge obtained after the extraction of nitroglycerin” HEMRL (~Rs. 9.5 lakhs)
- “Studies on composting, Chemical treatment and Phytoremediation of Nitrate Esters and their Propellants formulation for safe disposal” HEMRL (~9.6 lakhs) as Co-Principle Investigator.
- Induced Mutagenesis: Selection for Salinity tolerance and molecular characterization of tolerant lines in sugarcane DAE- BRNS, BARC, Mumbai, India (17.33 Lakhs) April 2009 ( Three years)
- Development of Chloroplast transformation system in Sugarcane Dept. of Biotechnology, GOI, New Delhi (41.99 Lakhs) November 2010 (Three years)
- Study of enhancement of biodegradability of spent wash by gamma radiations: (~17 lakhs) BRNS-BARC
- Conversion of CO<sub>2</sub> into Bicarbonate and carbon sequestration by algae: MNRE ( Under review)
- Studies on oxidation processes to reduce COD, BOD and color of spent wash: DST (Under review)

**Projects In Hand  
As a Co-  
Principal  
Investigator**

**Names of the Ph.D. Students:**

1. Ms. Jyoti Chudhari
2. Mrs. Suniti Pathak
3. Mr. Deobrat Chaterjee
4. Mr. Uday Gosavi
5. Mr. Nandkumar Somwanshi
6. Mrs. Sangeeta Bhagat
7. Ms. Anita Shete
8. Mr. Bikash Aich
9. Mr. Taware R.G.
10. Mr. R. Gacche
11. Ms. Nasarin Khorsand
12. Mr. Sumitra Chopra
13. Mrs. Zahra Bakmohammadi
14. Mr. Armin Kousha
15. Mr. Moghaddam M.S
16. Mr. Jayant Doke
17. Mr. Mr. Upendra Adhyapak
18. Mr. Upendra Gumaste
19. Mr. Mohammed A. Alhifi
20. Mr. Dilip Sathe
21. Ms. Deepali Nimbalkar
22. Mrs. Vandana Patil
23. Mr. V. Alireza
24. Ms. Shohreh Azizi
25. Mr. Jignesh Doshi
26. Mr. V. Parkhi
27. Mr. Nagda Gautam
28. Mrs. Hepsibah Palivela
29. Mr. Manerikar R.S
30. Ms. Apte A. A
31. Mr. Satilal Patil
32. Mr. Kedar Rijal
33. Mrs. T. Babita Devi
34. Mr. Hiralal Sonawane
35. Mrs. Ila Tiwari
36. Ms. Rokhsareh Akbarzadeh
37. Ms. Ashwini Kamble
38. Mr. Amol Deshmane
39. Mr. Eknath Alhat
40. Mrs. Madhuri Deshmukh

**One** students will submit her Ph.D. thesis shortly.

**As a Co-Guide for Ph.D:**

1. Mr. R. P. DHOK
2. Mrs. Sucheta Banerjee Kurundkar
3. Mr. Masoud Rafiei
4. Mr. RK Pandey
5. Mrs. Snehal Agnihotri
6. Ms. Litake GM
7. Mr. Joshi Suresh G.
8. Ms. Eham Asrari
9. Mr. Sanjay Kale
10. Mrs. Rucha Vaidya
11. Mrs. Swati Vitonde
12. Mr. Esmaeil Yasari
13. Mr. Manish Kale
14. Mr. Hasan H,H.
15. Mr. Hasan T.J
16. Mrs. Sunita S. Ghumare
17. Mr. T.D. Shinde
18. Mr. Shailesh Dewastali
19. Mr. K.K. Deshmukh
20. Mrs. Swati Vitonde
21. Mrs. Sarika Singh-Gole
22. Mrs. Afsana Tamboli
23. Mr. Ashok Nikam

**M.Phil studnets.:**

1. Mr. Jagatap Nanadkumar
2. Mr. Chavan F.K.
3. Mrs. Sangita Bhagat-Shimpi

**One** student has been awarded M.Sc. (PPPR) under my supervision.

When I was involved in teaching program in the University of Pune and VSI, Pune, every year **three to four** M.Sc. students carried out their short-term research project under my supervision.

## **PATENT APPLICATIONS:**

**1. Shohreh Azizi, Kalyan Raman and V.S. Ghole**

Waste water treatment and Plant, **Patent granted** No. 273162 dated 27/08/2016

**2. V. Alireza, Kalyan Raman and V.S. Ghole**

Process and apparatus for waste water treatment: Application No. 410/MUM/2009  
dt. Feb. 2009. (In the process of granting the patent)

**3. Vandana Patil and V.S. Ghole**

"Vikram Ghole and Vandana Patil.

Indian Patent Application No.1755/MUM/2008A (filed on Aug 19, 2008).

Title: A process for the treatment of distillery effluent. **Patent granted**

The Patents Office Journal, Issue No. 9/2010 dated 26.02.2010, pp.2723.

**4. Bikash Aich and V.S. Ghole**

"Herbal anti-bacterial agent *against Staphylococcus aureus* (1641/MUM/2006)"

**5. Ghole V.S. and Ashwini Kamble;**

Title: "SYSTEM AND METHOD FOR ENHANCING BIOMETHANATION BY THERMOPHILIC AEROBIC DIGESTION OF COMBINED VEGETABLE WASTE"  
(1884/MUM/2014)

**6. Ghole V.S.**

Title: "PROCESS FOR CONVERSION OF CARBON DIOXIDE GAS INTO BICARBONATE" (2535/MUM/2014)

**7. Eknath Alhat, Deepali Nimbalkar and Ghole V.S.**

"Preparation of brequetts from spentwash and sugarcane trash"  
(2712/RQ/MUM/2014)

## **Gene Bank: NCBI sequence submissions**

1) **16S rRNA gene partial sequence of *Alcaligenes* sp.vv1. :  
EU 817657.1 GI:193227251**

2) **EU 327524.1 GI:163860201**

3) **EU 327525.1 GI:163860202**

1) **EU 327526.1 GI:163860203**

2) **HQ 231888**

3) **HQ 231889**

4) **HQ 231890**

5) **HQ 231891**

- 1) **Aich, A. B., Joshi, M.D. Mukhopadhyaya, P. N., Devi, R. and Ghole, V. S.**  
Identification of **mecA gene** from a MRSA isolated from Sasoon General Hospital,  
Pune, India  
**Gene Bank ACCESSION: DQ836131**

## RESEARCH PAPERS PUBLISHED

- 1 **V.S. Ghole**  
„Simple assembly for rapid measurements of „Rf“ in paper chromatography“  
Biochemical Educational (U.K.) 10: 1982.
- 2 **V.S. Ghole**  
„Improved System of windy-turbo propulsion: a substitute for marine engines“  
Invention Intelligence (India), p.145, April 1983.
- 3 **V.S. Ghole, P. S. Damle and W.H.P. Thiemann,**  
„Effect of magnetic field on Ascorbic acid oxidase activity“.  
Zeitschrift Fur Naturforschung 41C: 355-358, 1986.
- 4 **J. Choudhari, P. Joshi, and V.S. Ghole**  
„Urinary excretion of Beta Ureido Propionic Acid (BUPA) as a non-invasive tumor marker  
in cancer“ Journal of Tumor Marker Oncology. 167:5, 1990.
- 5 **U.P. Shinde, V.S. Ghole, M.R. Mawal, and Y.R. Mawal.**  
„Mathematical modeling of protein secretion across the endoplasmic reticulum“  
Math. Comp. Modeling, 14: 592-599, 1990.
- 6 **P.G. Gosavi, V.S. Ghole and M.V. Hegde**  
„Integrated plan for utilization of sugar cane trash for production of biogas and particle  
board“. Journal of Indian Pulp and Paper Technical Association, 25: 1-3, 1988.
- 7 **S.V. Phathak, S.K. Karyekar, V.S. Ghole, M.V. Hegde.**  
„Effect of activation methods on affinity chromatography of potato polyphenol  
oxidase“ Phytochemistry: 31(5):1481-1483:1992.
- 8 **K.L. Meert, D.R.Deshmukh, Marescau B., V.S. Ghole, P.P. Dedeyn  
and A.P. Sarnaik**  
„Effect of urease induced hyperammonemia on metabolism of guanidino  
compounds“, Biochem. Med. Metabol. Biol. 49:51-56:1993.
- 9 **A. Nelson, I.A. Quereshi, D.R.Deshmukh, V.S. Ghole, and D.S.R. Sarma**  
„Regulation of orotic acid biosynthesis induced by glutamine in mice“.  
Biochem. Med. Metabol Biol. 49:338-350: 1993.
- 10 **S.V. Phathak, V.S. Ghole.**  
„Affinity purification and properties of polyphenoloxidase from *Solanum  
tuberosum*“ Phytochemistry: 36(5):1165-1167:1994.
- 11 **D. Chatterjee, M.G. Takwale, V.S. Ghole, D.R. Ranade and V.G. Bhide.**  
„Field scale night-soil based biogas digester made from HDPE- a case study through  
optimization“. RERIC International Energy Journal: 16 (1), 43-49:1994.

- 12 **R.K. Chavan, V.S. Ghole, and M. Dikshit**  
„Quantification of qualitative Baudouin test for the detection of sesame oil“  
Journal of Food Science and Technology, India. 31:433-434:1994.
- 13 **D.R. Deshmukh, V.S. Ghole, B. Marescau, and D.D. Deyne**  
„Effect of Endotoxemia on plasma and tissue levels of Nitric Oxide Metabolites and Guanidino compounds“ Archives in Biochemistry and Physiology, 105(1):32-37:1997.
- 14 **D.R. Deshmukh, O. Mairochnitchenco, V.S. Ghole, D. Agnes, P.C. Shah, M. Reddell, R.E. Brolin & M. Inouye**  
„Intestinal ischemia and reperfusion injuries in transgenic mice over expressing Cu/Zn Super Oxide Dismutase“ American Journal of Physiology, 273:( Cell Physiol.42); C1130 - C1135, 1997.
- 15 **U. R. Gosavi, R.L. Deopurkar and V.S. Ghole.**  
„Saponified starch-g-polyacrylonitrile gel as carbon source in bacterial culturing; Polymer, 39:3859-3862:1998.
- 16 **Joshi SG, Ghole VS, M.A. Phadke, Niphadkar KB.**  
„The plasmid mediated multiple antibiotic resistance in isolates of *Acinetobacter* in Urinary tract infection“. Advances in Bioprocessing and R-DNA technology (Bihari V. Agarwal S eds.) Central Drug Research Institute, Luknow, India, pp 61-72,1998.
- 17 **U.R. Gosavi, R.L. Deopurkar and V.S. Ghole,**  
Microbial degradation of superabsorbent HSPAN gel by an indigenously isolated bacterial culture; Macromolecule. 32:4264-4271:1999.
- 18 **S.G. Joshi, V.S. Ghole, M.A. Phadke, K.B. Niphadkar**  
Neonatal Gram-negative Bacteremia: A Prospective Study". Indian J. Pediatrics. 67(1): 27-32. 2000.
- 19 **Jagtap SB, Joshi SG, Litke GM, Ghole VS, and Kulkarni SB**  
"C-3 Substituted Lawsommonoximates Of Holmium (III): Synthesis, Characterization and Antimicrobial Activity". Metal-Based Drugs, 7 (3): 148-151:2001.
- 20 **Joshi SG, Ghole VS, Niphadkar KB.**  
*Acinetobacters* Causing UTI: The Multiple Antibiotic Resistant Isolates. Medical Journal of Western India 28:36-40:2000.
- 21 **R.N. Gacche, V.S. Ghole, C.N. Khobragade and A.D. Sagar.**  
Potato Phenol Oxidase Immobilised s-Triazine containing dialdehyde: An efficient biocatalysts for bioremediation of Phenols.  
Journal of Scientific and Industrial Research, 61:621-624:2002.
- 22 **Joshi SG, Litake GM, Ghole VS, Niphadkar KB.**  
Multi-Drug Resistant in *Acinetobacter baumannii* from A Teaching Hospital.  
Journal of Infection and Chemotherapy. 9 (2): 187-190:2003.

- 23 **R.N.Gacche, G.B. Zore and V.S. Ghole.**  
Kinetics of Inhibitions of Polyphenol Oxidase Mediated Browning in apple Juice by Beta-Cyclodextrin and L-Ascorbate-2-triphosphate.  
Journal of Enzyme Inhibition and Medicinal Chemistry 18 (1): 1-5: 2003.
- 24 **J.B. Doshi, S.D. Ravetkar, V.S.Ghole and K. Rehani.**  
Comparative quantitation for the protein content of Diphtheria and tetanus toxoid by DC protein assay and Kjeldahl method  
Biologicals: 31:187-189: 2003.
- 25 **Joshi SG, Litake GM. Ghole VS, and Niphadkar KB.**  
Plasmid-born extended- spectrum  $\beta$ -lactamase in a clinical isolate of *Acinetobacter baumannii*. *Journal of Medical Microbiology* 52:1125-1127 (2003).
- 26 **Joshi SG. Litake GM, Ghole VS, Niphadkar KB.**  
Fluoroquinolone resistant from a transferable plasmid in *Acinetobacter calcoaceticus*. *Indian journal of Pathology and Microbiology*, 47(4): 142-3 (2004).
- 27 **R.N. Gacche, S.C. Warangkar and V.S.Ghole**  
Glutathione and Cinnamic acid: Natural dietary components used in preventing the process of Browning by inhibition of Polyphenol Oxidase in Apple juice.  
Journal of Enzyme Inhibition and Medicinal Chemistry; 19: 175-179. 2004,
- 28 **Manish Kale, Sarnam Singh, P.S. Roy, Vrishali Deosthali and V.S.Ghole**  
Biomass equation of dominant species of dry deciduous forest in Shivpuridistrict, Madhya Pradesh. *Current Science*; 87:683-687. 2004.
- 29 **Jayant Doke, V. Kalyan Raman and V.S. Ghole.**  
Treatment of anaerobically digested wastewater using *Spirulina* sp.  
*International Journal on Algae*; 6 (4): 383-389. 2004.
- 30 **Mohammed A. Alhifi, M. Z. Khan, Hossny A. Algoshai, V. S. Ghole.** Teratogenic effect of dimethoate on chick embryos. *Int. Med J Dec.*; 3 (2) 2004.
- 31 **Mohammed A. Alhifi, M. Z. Khan and V. S. Ghole.** „Effect of Dimethoate 30% EC on antioxidant enzymes in Chick Embryo brain, Liver and heart.  
*International Medical Journal*:: Vol 4 No.1: # 10 in Original articles. 2005.
- 32 **A.D. Bhatavadekar and V.S. Ghole.**  
Rapid method for the preparation of an AGE-BSA standard calibrator using thermal glycation: *Journal of Clinical Laboratory Analysis*; 19: 11-15. 2005.
- 33 **Upendra Gumaste; M.J. Joshi; D.T. Mourya; Pradeep and V.S. Ghole.**  
Alcohol Dehydrogenase: a potential new marker for diagnosis of intestinal ischemia using rat as a model: *World J Gastroenterol.*; 14; 11(6): 912-6. 2005.

- 34 **Moghaddam M.S; B, Reddy; Anil; V.S. Ghole:**  
Effect of Diabecon on sugar-induced lens opacity in organ culture; mechanism of action: *Ethanopharmacology* 97: 397-403. 2005.
- 35 **Litake GM, Joshi SG, Ghole VS.** A TNT biotransformation potential of the clinical isolate of *Salmonella typhimurium*, potential ecological implications: *Indian Journal of Occupational and Environmental Medicine*; 9(1): 29-34. (2005).
- 36 **A. Patwardhan, R. Gandhe, V. Ghole and D. Mourya** „Larvicidal activity of the fungus *Aphanomyces* (oomycetes: Saprolegniales) against *Culex quinquefasciatus*“ *Jouranal of Communicable Diseases* 37: 269-74. 2005.
- 37 **Eham Asrari, V.S.Ghole, P.N. Sen and S. Matesaddi:**  
„Study of NO<sub>x</sub> concentration in urban atmosphere of Tehran, Iran“: *Nature Environment and Pollution Technology*; 4 (2): 195- 198.2005.
- 38 **V. Parkhi, S. Datta and V.S.Ghole**  
Molecular characterization of marker- free transgenic lines of indica rice that accumulate carotenoids in seed endosperm: *Molecular Genetics and Genomic* 274: 325-336, (2005).
- 39 **Eham Asrari, V.S.Ghole, P.N. Sen.** Dispersion Model for Nitrogen oxides from Area Sources Case Study: Tehran-Iran. *Nature, Environment and Pollution Technology*. 4,427-432:2005.
- 40 **A.Kousha, F. Askarian, H.V Ghate, V.S Ghole** „Sex Steroid-Binding Protein (SBP) in Plasma of the kutum (*Rutilus frissi kutum*) as a Biomarker for Estrogenic behavior. *Iranian Journal of Fisheries Sciences*, Vol.6, No.2.pp:72- 99.Iran (ISI)(2006)
- 41 **Joshi SG, Litake GM, Satpute MG, Telang NV, Ghole VS, Niphadkar KB.**  
Clinical and Demographic features of Infection caused by *Acinetobacter* species. *Indian Journal of Medical Science*; 60(9): 351-360. (2006).
- Study on the Status of SO<sub>2</sub> in the Tehran- Iran 1\*ELHAM, ASRARI; 2 GHOLE, V S; 3 SEN, P N 1 J. Appl. Sci. Environ. Mgt. June 2006 Vol. 10 (2) 75 - 82
- Department of Environment- Tehran, Iran 2 Department of Chemistry, University OF Pune, India 3 Department of Atmospheric and Space Science, University of Pune, India E-mail: elasrari@yahoo.com
- 42 **R. N. Gacche, A. M. Shete, N. A. Dhole and V. S. Ghole**  
Reversible inhibition of polyphenol oxidase from apple using L-cysteine. *J. Chemical Technology* 13, 459-463. (2006).
- 43 **Mohammed A. Alhifi, M. Z. Khan, Abdulla Murshed and V. S. Ghole.**  
„Effect of Dimethoate residues on soil Micro-arthropods population in the valley of Zendan, Yemen; *Journal of applied Science Environment*, 10(2) 37-41 ( 2006).
- 44 **Pandey R.K., Asthana S.N., Bhattacharya B., Tiwari Ila and Ghole V.S.**  
„High energy material: demilitarization, Antiterrorism and civil applications“ *Belokuribha (Russia)*, 11-14, Sept. (2006).
- 45 **Nagda Gautam, Diwan A. M. and Ghole V. S.**  
„Tendu leaves refuse as Bioabsorbant for COD removal from Molasses Fermentation based Bulk Drug Industry Effluent“: *Journal of Applied Sciences and Environmental Management*.: 10 (3): 15-20.(2006).

- 46 **Nagda, G.K., Ghole, V.S., Diwan, A.M.**, "Seed Germination Bioassays to Assess Toxicity of Molasses Fermentation based Bulk Drug Industry Effluent", *Electronic Journal of Environmental, Agricultural and Food Chemistry*. 5 (6): 1598-1603. (2006).
- 47 **RK Pandey, AS Kalbhor, Mehilal, SN Asthana, Ila Tiwari & VS Ghole** "Composting- An Ecofriendly Method of Remediation of contaminated Soil", *Shastra Shakti*, MoD, DRDO's Quarterly Publication, Dec. (2006).
- 48 **K Pandey, Mehilal, SN Asthana, AS Rao, Ila Tiwari & VS Ghole**, "Studies on Conversion of Nitrocellulose into fertilizer and its Application on Crop" *Proceedings of International Seminar on HEM Demilitarization and Civil Application (HEM-2006)*, Sept. 11-14, , Belokurikha, Russia (2006).
- 49 **Hepsibah Palivela, K.M.Elizabeth, V.S.Ghole** "Impact of reverse smoking on slum dwellers of Visakhapatnam" *Asian Journal of Ecology, Environment and Conservation* P 81-83; 105 – 107; (2007).
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- 21 **Litake GM, Badge SA, Shete AM, Joshi SG, Ghole VS.**  
"Comparison of methods for intracellular protein extraction from aerobic bacterial cell lysis." Poster presentation and Abstract published at 27<sup>th</sup> National conference of Indian Association of Medical Microbiologist (Microcon Mumbai 2003), hosted by Grant Medical College & Sir J.J. Group of Hospitals, held at Mumbai, during November 7-9, 2003. pp.

- 22 **Rafiee, V.S.Ghole, A Gadgil, N. Jaffarzadeh and H. Tabesh**  
An epidemiological study of the health problems of workers at national steel industry, Ahvaz, Iran. International Epidemiological Association 8<sup>th</sup> South east Asia Regional Scientific Meeting: 5-8 Dec. 2004 held at Jhansi, U.P. India
- 23 **M.S Moghaddam; P. Anil Kumar, G. Bhanuprakash Reddy and V.S.Ghole**  
"Protective effect of Lysine and „Diabecon“ on sugar-Induced changes to lens in organ culture" A paper presented in „The 5<sup>th</sup> Asian Cataract Research Conference held at Seoul, South Korea June 23-26, 2004.
- 24 **Kousha A. H.V Ghate, V.S Ghole**, 2004 "*Housing damage on environment in the north province of Caspian Sea* " International Housing Conference, University of Toronto Canada.
- 25 **Kousha A. H.V Ghate, V.S Ghole**, 2004, "*Important role of biotechnology in aquaculture of Iran* ", AQUACULTURE EUROPE 2004, Barcelona , Spain , October 20-23, 2004.
- 26 **Masoud Rafiei, Alka Gadgil and Vikram** International Epidemiological Association South East Asia Regional Office, 5-8 Dec., 2004, Jhansi, India.
- 27 **R. S. Manerikar, A. A. Apte, Nandakumar K., V. S. Ghole**  
Acute toxicity of 2,4 – Dinitrotoluene and 2,6 - Dinitrotoluene in tropical earthworm species *Eudrilus eugeniae*. Paper presented at „National seminar on vermicomposting and vermiculture“ held at Department of Zoology, Mangalore University, during 29-30<sup>th</sup> January 2005.
- 28 **D.M. Sathe, P.G. Gosavi and V.S. Ghole:** "Excellent and Exclusively decorated designed Eco-friendly Indian handmade paper bags and paper products".National seminar on Clean development Mechanism. Pune November 2005.
- 29 **Masoud Rafiei, Alka Gadgil, N. Jaffarzadeh, H. Tabesh and Vikram Ghole**  
Study of workstation from the view of air pollutants in National Steel industrial group (Beam rolling mills factory) in International Ergonomics Conference at IIT, Guwahati, 10-12, December 2005.
- 30 **Kousha.A, Askarian,F. Yousefian M, Ghate.H.V, Ghole.V.S.**,2005, "the study of relationship between fecundity and some biometrical indices in Kutum (*Rutilus frissi kutum*) in main spawning river of Caspian Sea " AQUACULTURE EUROPE 2005, Norway
- 31 **Hepsibah Palivela, K.M.Elizabeth, V.S.Ghole**  
Impact of reverse smoking on oral microbial flora and health: A case control study National Seminar on „Advances in the frontiers of environmental Research, 19<sup>th</sup>-21<sup>st</sup> November 2005.
- 32 **Snehal Agnihotri, Vikram Ghole and Vandana Dhamankar.** *Decolorization study of coloring compounds from biomethanated distillery effluent using a natural fungal isolate.* In „Proc. of 67<sup>th</sup> Annual Conv. of SugarTechnologists“ Association of India", 65- 72. 2006

- 33 **V. Alireza, Kalyan Raman and V.S. Ghole:** „Biomass utilization opportunities for water Hyacinth“ Iran-India International conference on International Scientific Experiences (ISE) January 2006.
- 34 **RK Pandey, AS Kalbhor, SN Asthana & VS Ghole,** `Conversion of Waste Explosives into Useful Product“ CEP Course Book on Environment and Explosive Safety Management, MoD, DRDO, HEMRL, Pune (India), Dec.4-8, 2006.
- 35 **RK Pandey, AS Kalbhor, Mehilal, SN Asthana, Ila Tiwari & VS Ghole,** `Composting- An Ecofriendly Method of Remediation of contaminated Soil“, *Shastra Shakti*, MoD, DRDO's Quarterly Publication, Dec. 2006 Issue .
- 36 **A. Kousha, F.Askarian, H.V Ghate,V.S Ghole,**2006, "Environmental damages need a rescue team for Ecological area in Southern Caspian Sea" 21st Symposium of the United States regional chapter of the International Association for landscape Ecology (IALE ) 2006,USA
- 37 **A. Kousha, F. Askarian, H.V Ghate , M.Yousefian V.S Ghole** 2006, "INVESTIGATION ON SEX STEROID BINDING PROTEIN (SBP) AS A BIOMARKER FOR SEXUAL BEHAVIOER OF KUTUM (*RUTILUS FRISSI KUTUM*)" International Fisheries Conference (AQUA,2006), Florence Italy.
- 38 **A. Kousha, F. Askarian, H.V Ghate, V.S Ghole** 2006,"USE OF BIOTECHNOLOGY ON FOOD PROCESSING AND QUALITY OF FISH PRODUCTS IN IRAN " International Fisheries Conference (AQUA, 2006), Florence Italy .
- 39 **A. Kousha A, F. Askarian, H.V Ghate, V.S Ghole** 2006, "USE OF BIOTECHNOLOGY ON FOOD PROCESSING AND QUALITY OF FISH PRODUCTS IN IRAN " International Fisheries Conference (AQUA, 2006), Florence Italy.
- 40 **Patil V.P., Kapadnis B.P., and Ghole V.S.** Start up and optimization studies of upflow anaerobic sludge blanket (UASB) reactor treating distillery spent wash. **Avishkar, Inter-University Competition** held at Nagpur, India during Feb 2006. **(First Prize).**
- 41 **Nagda G.K., Diwan A.M., Ghole V.S.** - Characterization of Effluent from Molasses Fermentation Based Bulk Drug Industry and its Primary Treatment, presented at 93<sup>rd</sup> Indian Science Congress, Hyderabad, India, January 2006.
- 42 **R. S. Manerikar, A. A. Apte, V. S. Ghole**  
"Fly ash amendment to soil: How far an earthworm can tolerate?" abstract accepted for paper presentation at an international conference „Vermicomposting and Vermiculture as basis of ecological landownership in XXI century – problems, outlooks, achievements“ to be held in Minsk, Belarus during 4-8 June 2007.
- 43 **V. Alireza, Kalyan Raman and V.S. Ghole:** Recent Advances in Water Hyacinth Based waste water treatment” Indo-Italian brain storming workshop on Technology transfer for Industrial applications for novel methods and material for Environmental problems. December 2007

- 44 **RK Pandey, SN Asthana, Ila Tiwari, VS Ghole and MC Uttam**, "Studies on Degradation of TNT and its Metabolites Using Compost Bioremediation" *National Seminar on Explosives*, MoD, DRDO, HEMRL, Pune (India), Feb. 2007.
- 45 **Kousha Armin, Askarian Fatemeh, Ghole Vikram**, 2007, "Hormonal Indicators of Kutum (*Rutilus frissi kutum*) in Sex Maturation Stages" 8<sup>th</sup> international symposium on reproductive physiology of fish, June3-8 2007, Saint Malo France.
- 46 **Nagda G.K., Ghole V.S.** - Biosorption of Congo Red by Hydrogen peroxide treated Tendu waste, paper selected for 95<sup>th</sup> Indian Science Congress Association's Young Scientist Award Program, Vishakhapatnam, India, October 2007.
- 47 **Ila Tiwari, R. K. Pandey & V. S. Ghole**. International Research Symposium on Recent Development in Chemistry, Composting of Trinitrotoluene (TNT). Department of Chemistry, University of Pune, 14-15 Feb. 2007.
- 48 **RK Pandey, AS Kalbhor, SN Asthana & VS Ghole**, "Statistical Analysis of Crop Performance Parameters" *National Seminar on Explosives*, MoD, DRDO, HEMRL, Pune (India), Feb. 2007.
- 49 **RK Pandey, AS Kalbhor, SN Asthana, AS Rao, Ila Tiwari & VS Ghole**, "Bioremediation-An effective Method for Remediation of Soil Contaminated with TNT", International Autumn Seminar on Propellants, Explosives and Pyrotechnics (IASPEP), Xi'an, China, Oct.23-26, 2007, p 836-840.
- 50 **V. Alireza, Kalyan Raman and V.S. Ghole** : Use of water hyacinth for domestic water treatment" Indo-Swedish International conference on Biotechnology for sustainable development. January 2008.
- 51 **Hepsibah Palivela, K. M. Elizabeth, V.S.Ghole**  
Prevalence of Oral Cancers attributed to smoking in Srikakulam District, Andhra Pradesh, India. 95<sup>th</sup> Indian Science Congress held at Andhra University, Visakhapatnam, from January 3 to 7, 2008
- 52 **Nagda, G.K., Ghole, V.S.**, Biosorption potential of Tendu leaf waste from local bidi industry: A value added alternative to landfill use, oral presentation at *The 5<sup>th</sup> Asian-Pacific Landfill Symposium, Sapporo, Japan*, October 2008.
- 53 **Vandana Patil, Balasaheb Kapadnis and Vikram Ghole**. Paper Presentation: Novel oxidizer system for the decolourisation of high strength distillery wastewater, *INDO-ITALIAN International Conference on Green & Clean Environment*, Embassy of Italy, New Delhi in association with MAEER's College of Engineering, held at Pune, India, March 2008.
- 54 **Patil V.P. and Ghole V.S.** Poster Presentation: Combined process for the treatment of distillery wastewater to minimize water pollution. *WATER EXPO International Conference on Water and Wastewater Management* held at Mumbai, India during Jan-Feb 20

- 55 **A. Kousha, F. Askarian, H.V Ghate, V.S Ghole** 2008 "SEASONAL CHANGES IN SEXUAL HORMONES AS MIGRATION INDICES IN KUTUM (*Rutilus frissi kutum*) TO CASPIAN SEA TRIBUTARY RIVERS" oral presentation , World Aquaculture 2008, South Korea.
- 56 **Masoud Rafiei, Alka Gadgil and Vikram.** International and National Conference of Ergonomics and Human Engineering, IIT Mumbai, 5-8 Jan., 2008, Mumbai, India.
- 57 **Masoud Rafiei, Alka Gadgil and Vikram** The Eighth Congress of Scholar, Day, the Islamic Association of Iranian Students in Pune, 8th December 2008, Pune, India.
- 58 **D.M Sathe, Gosavi P.G. and V. S. Ghole:** „Microbial degradation of cellulose fibers waste in Handmade paper Industry" National seminar on Environmental management for golden jubilee year at K.J. Somaiya College of Science and Commerce, Mumbai Jan 2009.
- 59 **Hepsibah Palivela, K.M.Elizabeth, V.S.Ghole**  
 "Squamous cell carcinoma of the oral cavity :A case control study and analysis of clinical presentation and histological grading of 730 women cases from coastal zone of Visakhaptnam International conference on medical geography, February 22<sup>nd</sup>,23<sup>rd</sup> 2009
- 60 **Gautam K. Nagda and Vikram S. Ghole -**  
 Low cost biosorbent from bidi industry waste for chromium removal, paper selected for 97th Indian Science Congress Association"s Young Scientist Award Program, Thiruvananthapuram, India, October 2009.
- 61 **Ila Tiwari, R.K.Pandey, K.M.Kodam & V.S.Ghole,** „Alkaline hydrolysis of Nitrocellulose & biodegradation of its hydrolysate", International seminar on recent trends in chemistry, Department of Chemistry, University of Pune, 13<sup>th</sup> March, **2009**.
- 62 **RK Pandey, Mehilal, Ila Tiwari, KM Kodam & VS Ghole,** „Biodegradation of Explosive grade Nitrocellulose", International seminar on High Energy Materials (HEMCE-2009), HEMRL, Pune (India), 8-10 Dec **2009**.
- 63 **V. L. Markad, K. M. Kodam, V. S. Ghole,** Evaluation of *in vitro* genotoxicity of fly ash leachate using the alkaline comet assay. International Conference on Emerging Trends in Biotechnology and 6<sup>th</sup> BRSI Convention at Banaras Hindu University, Varanasi, Dec 4-6, 2009.
- 64 **S. S. Chakane, A. B. Sonawane, K. M. Kodam, V. S. Ghole,** Inhibitory effect of *Phellinus badius* extract on goat eye lens under hyperglycemic conditions. International Conference on Emerging Trends in Biotechnology and 6th BRSI Convention at Banaras Hindu University, Varanasi, Dec 4-6, 2009
- 65 **Nimbalkar, D.S., Gaikwad, M.B., Varalaxmi, H.D., Ghole, V.S.** (2009). Use of different agrowastes as filler material for biocomposting with distillery spentwash. 70<sup>th</sup> annual convention of the Sugar Technologists Association of India, New Delhi held at Udaipur in August 2009.

- 66 **R. P. DHOK', A.S. PATIL, V.S. GHOLE** Groundwater quality and its suitability for drinking purpose in Baramati city (Pune) Maharashtra , Research paper presented in National conference on "Recent trends in Chemistry" at Y.C.I. of Science, Satara on 14-15 October 2010.
- 67 **Sucheta Banerjee Kurundkar, Narsingh Sachan, Kisan M. Kodam, Vithal M. Kulkarni, Subhash L. Bodhankar, Vikram S. Ghole.** Antihyperglycemic activity of VMNS2e, a novel biphenyl PTP1B inhibitor and its effect on insulin resistance, diabetes and dyslipidemia (Poster presented in Nov 4-6, (2010) World Congress on Insulin resistance, Diabetes and Cardiovascular Diseases at Los Angeles (USA).
- 68 **Ila Tiwari, R.K.Pandey, K.M.Kodam & V.S.Ghole,** „Compost bioremediation of explosive grade nitrocellulose, nitroglycerine & triple base propellant“, International conference on genomic sciences, VII Convention of Biotech Research Society, India, Madurai Kamaraj University, Madurai, November 12-14, **2010.**
- 69 **V. L. Markad, V. S. Ghole, K. M. Kodam,** Effect of fly ash on antioxidant enzymes of earthworm *Dichogaster curgenesis*. International Conference on Genomic Sciences- Recent Trends (ICGS- 2010) at Madurai Kamaraj University, Madurai, Nov 12-14, 2010
- 70 **Nimbalkar, D.S., Ghole V.S., Patil, A.S.** 2010. A comparative study of solid and liquid based microbial cultures for the composting of distillery spentwash. 9<sup>th</sup> Joint Convention of the Sugar Technologists Association of India, New Delhi and South Indian Sugarcane and Sugar Technologists Association held at Chennai in August 2010.
- 72 **Deshmane, A.B., Nimbalkar, D.S., Ghole, V.S.** 2010. Environmental Impact Assessment (EIA): Issues for consolidation of process. 97<sup>th</sup> Indian Science Congress held at Trivandrum, January 2010. (Poster)
- 73 **R. P. DHOK', A.S. PATIL, V.S. GHOLE, S.V. MAHAMUNI** Salinity hazard in water flow processes in the soil, Research paper presented in National conference on "Frontiers in Life Sciences.at Shardabai Pawar Mahila Mahavidyalaya, Shardanagar, Malegaon Bk. Baramati, Pune, Maharashtra on 11-13 January 2011.
- 74 **Markad Vijaykumar L., Kodam Kisan M., Ghole Vikram S.,** Cytotoxic, genotoxic and biochemical effects of fly ash on the earthworm, *Dichogaster curgenesis*. International Conference on New Horizons in Biotechnology (NHBT-2011), at Trivandrum, Nov 21-24, 2011.
- 75 **A.U. Chaudhari, V.L. Markad, K.M. Kodam, V.S. Ghole, S.S. Adhav, R.K. Pandey,** Studies on microflora of soil from pot culture setup using resin based CCC, hydrolysate as fertilizer. 8<sup>th</sup> International High Energy Materials Conference & Exhibit (HEMCE-2011) Chandigarh, Nov 10-12, 2011

- 76 **Ila Tiwari, K.M. Kodam, V.S. Ghole, S.S. Adhav & R.K. Pandey.** „Phytotoxicity assessment of compost end products of 2, 4, 6-Trinitrotoluene (TNT). 8<sup>th</sup> International High Energy Materials Conference and Exhibit, HEMCE-2011, Terminal Ballistics Research Laboratory (TBRL), Chandigarh (India). Paper accepted. Scheduled in 10 – 12 Nov 2011.
- 77 **Dhok, R.P., Patil, A.S., Ghole, V.S.** (2012). Assessment of groundwater quality and its suitability for agriculture purpose in Karha River Basin area Baramati, (Pune), Maharashtra, *National Seminar on “Recent trends in Green Chemistry”* at Arts, Science and Commerce College, Indapur, Dist – Pune, Maharashtra, on 09-10 January 2012
- 78 **R.P.DHOK, A.S.PATIL, V.S.GHOLE,** „Hardness of Groundwater Resources and its Suitability for Drinking Purpose”, National Seminar on “New Horizons in Applied Sciences” at S.P. Mahavidyalaya, Lonand, Satara, India. 14-15 Sept. (2012)
- 79 **Deshmane Amol, Nimbalkar Deepali, Darandale Vikas, Rao Pawan Kumar, and Ghole Vikram.** Economical and Energy Saving Option for Sugar Mill Effluent Treatment: accepted for 45th Annual Convention of The South Indian Sugarcane & Sugar Technologists” Association scheduled on July 11<sup>th</sup>, 2015 at Bangalore, India

#### WORKSHOP/TRAINING COURSES ATTENDED/CONDUCTED

- |   |  |  |   |
|---|--|--|---|
| 1 | Delivered several lectures as a resource person during Refresher courses at                    | University of Pune<br>Shivaji University<br>North Maharashtra<br>University<br>Babasaheb Ambedkar<br>Marathwada University<br>etc. |   |
| 2 | Conducted refresher course for University and College teachers, in Biochemistry and Biophysics | University of Pune, Pune   | 28th March to<br>24 April 2000                  |
| 3 | Conducted workshop on "Restructuring of syllabus of M.Sc. Environmental Sciences" during, at.  | Department of<br>Environmental Sciences,<br>University of Pune, Pune   | 6 <sup>th</sup> , 7 <sup>th</sup> march<br>2000 |
| 4 | Presented paper in the workshop on "Awareness of Environmental Pollution"                      | Annasaheb Magar<br>College Pune 411028   | 16th Feb<br>2000                                |
| 5 | Participated and presented paper in „Entrepreneurial Opportunities in Biotechnology” at in     | SRTM University Nanded   | 6th and 7th<br>September<br>1999.               |

6	Participated in a workshop on Inherited Metabolic Disorders conducted by B. J. Medical college, Pune and K. E. M. Hospital Pune during.	Pune	23rd - 25th May 1998
7	Participated in workshop on Chromatography: Principles and Applications in S. P. College	Pune	Pune on 4th - 5th Feb.1994
8	<i>In Situ</i> detection and analysis of gene expression in tissues and embryos of Drosophila and Mosquito	Department of Zoology, University of Pune, Pune	3rd - 22nd December 1993
9	Trained on Radiological Health/Radiation Safety Trained on Safety Aspects in the	Wayne State University, Detroit, MI, USA.	1991
10	Research Application of Ionizing Radiation	Bhabha Atomic Research Center, Trombay, Bombay	7th June to 20th June 1989.
11	Participated in workshop as a technical Expert on Clinical Enzymology, update at	Seth G.S. Medical College and K.E.M. Hospital, Mumbai	4th - 10th Jan. 1988
12	Conducted refresher course for University and College teachers, in Environmental Sciences	University of Pune, Pune	29th October to 18 <sup>th</sup> November 2003.
13	Conducted a course for School children on "Bio Resource" sponsored by DBT	University of Pune, Pune	May „04 & May 2005
14	Refresher course for college teachers sponsored by UGC academic staff college,	University of Pune, Pune	Pune 22 Feb 2005 to 14 March 2005
15	NCERT (Regional Training Center, Bhopal) workshop at Dept of Env. Sci Uni. Pune	University of Pune, Pune	22-26 March 2005.
16	Maharashtra Board Textbook writing on Environmental Sciences	S.S.C Board Pune	Dec.2005
17	Chairman, Textbook Committee for Adult Education on Education for Sustainable Development	University of Pune	Jan. 2006

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|----|--|----------------------------------|----------------------|
| 18 | Five credit course on sustainable development with CEE at                | University of Pune               | Dec. 2005            |
|    | Dept of Environmental Sciences   |                                  |                      |
| 19 | Two days workshop on „ Syllabus and practical in Environmental sciences“ | Vasantdada Sugar Institute, Pune | 27th-28th July 2009. |

**Social activities:** Worked as Secretary, Yadav Charity Trust and helped many poor students to complete their school education and helped them to get their jobs. I was felicitated and given title a as “**Samaj Bhushan**” in 2009 by the Yadav Samaj from Maharashtra.

**Above information is true and correct as per my knowledge and information**

(Vikram S. Ghole, Ph.D.)