

Dr. K. K. Verma



A) Educational Qualification

Degree	Year of passing	University/Institute
Ph. D	1981	IIT, Delhi
M.Sc.	1978	M D University, Rohtak
B.Sc.	1976	Kurukshetra University, Kurukshetra

B) Career Profile

Designation	Institution served	Duration	
		From	To
Lecturer	Govt. College, Mohindergarh	11/09/81	31/03/82
Lecturer	Hindu College, Sonipat	03/09/82	06/08/84
Lecturer	M D University, Rohtak	07/08/84	18/09/95
Reader	M D University, Rohtak	19/09/95	18/09/03
Professor	M D University, Rohtak	19/09/03	till date

C) Research Advisory

No. of Students Supervised	Ph.D	M.Phill
	10	02

D) Publications

Research papers

Published in Refereed/ Peer Reviewed Journals :

1. PATENT
Process for preparing Diaryltellurium derivatives. Indian IN 162096 (1988), CA, **111**: 114854 x (1989).
2. Hydroxyphenyltellurium (IV) Halides, B. L. Khandelwal, K. Kumar and F. J. Berry, *Inorg. Chim. Acta*, **47**, 135 (1981).
3. Synthesis and characterization of (Methylhydroxyphenyl) tellurium (IV) Halides, B. L. Khandelwal, K. Kumar and K. Raina, *Synth. React. Inorg. Met. – Org. Chem.*, **11**, 65 (1981).

4. Synthesis and characterization of Chlorohydroxyphenyl tellurium Trihalides, B. L. Khandelwal and K. Kumar, *Synth. React. Inorg. Met. – Org. Chem.*, **11**, 399 (1981).
5. Preparative and Spectral studies on the products of Diaryl tellurium (IV) dihalide hydrolysis, B. L. Khandelwal, A. K. Singh, R. Mehta and K. Kumar. *Synth. React. Inorg. Met. – Org. Chem.*, **14**, 921 (1984).
6. 1: 2 Zinc (II) thiomalate – Synthesis and characterization, O. P. Agrawal, K. K. Verma and Seema Bhayana, *Vijnana Parishad Anushandhan Patrika*, **30**, 197 (1987).
7. Thiodipropionate Complexes of Zinc (II), Cadmium (II), Mercury (II) and Lead (II): Synthesis and characterization, O. P. Agrawal, K. K. Verma and Anjali Vig, *Vijnana Parishad Anushandhan Patrika*, **32**, 35 (1989).
8. Complexometric Amperometric Determination of some Lanthanides with Thiomalic acid, O. P. Agrawal, K. K. Verma and V. B. Khatkar, *Radiochem and Radiation Chem.* p. **AL. 03-1-2**, Kalpakkam (1989).
9. Synthesis, Characterization and antimicrobial activity of Metal thiomalates of Ag(I), Cd(II) and Hg(II), O. P. Agrawal, K. K. Verma and Seema Bhayana, *Curr. Science.*, **58**, 1201 (1989).
10. Synthesis, Characterization and antimicrobial activity of thiomalates of Mn(II), Fe(II) and Co(II), O. P. Agrawal, K. K. Verma and Anjali Vig, *Asian. J. Chem.*, **2**, 432 (1990).
11. Synthesis and Characterization of Tin(IV) Chloride adducts of Triphenyltelluronium Halides, K. K. Verma, Anita Saini and O. P. Agrawal, *Synth. React. Inorg. Met. – Org. Chem.*, **20**, 559 (1990).
12. Synthesis and Characterization of Titanium (IV) halide adducts of Triphenyltelluronium Halides, K. K. Verma, Anita Saini and O. P. Agrawal, *Synth. React. Inorg. Met. – Org. Chem.*, **20**, 851 (1990).
13. Triphenyltelluronium halo (mixed) titanates (IV), K. K. Verma, Anita Saini and O. P. Agrawal, *Asian J. Chem.*, **3**, 70 (1991).
14. Triphenyltelluronium haloplumbates(II), K. K. Verma, Anita Saini and O. P. Agrawal, *Asian J. Chem.*, **3**, 379 (1991).
15. Amperometric determination of Ln(III) with Thiomalic acid, O. P. Agrawal, S. P. Khatkar, V. B. Khatkar and K. K. Verma, *Transactions of the SAEST*, **26**, 201 (1991).
16. Amperometric determination of some metal ions with 3-mercaptopropionic acid, O. P. Agrawal, S. P. Khatkar, S. Chander and K. K. Verma, *J. Electrochem. Soc. of India*, **40**, 51 (1991).
17. Effects of Titanium-2 Mercaptopropionic acid (Ti-2 MPA) complex on various smooth muscles of animals, R. K. Srivastava, O. P. Agrawal, K. K. Verma, A. Vig and A. H. Kaur, *Indian J. Physiology and Pharmacology*, **35** (5) Supplement. 65 (1991), 27E:131.
18. Amperometric determination of Tl(III), As(V), Sb(III), Se(IV) and Te(IV) with Thiomalic acid. O. P. Agrawal, S. P. Khatkar, V. B. Khatkar and K. K. Verma *J. Electrochem. Soc. of India*, **41**, 77 (1992).

19. Amperometric determination of some Lanthanides and Y(III) with 3-Mercaptopropionic acid, O. P. Agrawal, S. P. Khatkar, S. Chander and K. K. Verma, *Transactions of the SAEST*, **28**, 33 (1993).
20. Amperometric determination of V (V), Cr (III), Mn (VII), Cr (VI) and Fe (III) with 3-mercaptopropionic acid, O. P. Agrawal, S. P. Khatkar, S. Chander and K. K. Verma, *Asian J. Chem.* **5**, 1041 (1993).
21. Thiodipropionate complexes of VO (II), Co (II), Ni(II), Cu (II) and Ag (I): Synthesis and characterization, O. P. Agrawal, K. K. Verma, S. P. Khatkar and A. vig, *Vijnana Parishad Anushandhan Patrika*, **36**, 189 (1993).
22. Amperometric determination of Ru (III) with the help of 3-mercaptopropionic acid, O. P. Agrawal, K. K. Verma, S. P. Khatkar and R. K. Malik, *Vijnana Parishad Anushandhan Patrika*, **36**, 261 (1993).
23. Amperometric determination of Cu (II), Ag (I), Au (III) and Pd (II) with 3-mercaptopropionic acid, O. P. Agrawal, K. K. Verma, S. P. Khatkar and R. K. Malik, *Bulletin of Electrochemistry*, **9**, 587 (1993).
24. Trihalotellurium compounds of Hydroquinone Dimethyl Ether. K. K. Verma, Sapana Garg and O. P. Agrawal, *Asian J. Chem.*, **6**, 1014 (1994).
25. (Methoxyphenacyl) tellurium (IV) halides : Synthesis and characterization. K. K. Verma and Sapana Garg, *Synth. React. Inorg. Met. – Org. Chem.*, **24**, 647 (1994).
26. Synthesis and characterization of Group (V) B Metal chloride adducts of Triphenyltelluronium chloride, K. K. Verma, S. Chand and Sapana Garg, *Synth. React. Inorg. Met. – Org. Chem.*, **24**, 979 (1994).
27. Synthesis and characterization of (2, 3-dimethyl-4-hydroxyphenyl) tellurium(IV) Halides, K. K. Verma and Sapana Garg, *Asian J. Chem.*, **7**, 196 (1995).
28. Coordination behaviour of 2-mercaptopropionic acid-A study. O. P. Agrawal, K. K. Verma, S. P. Khatkar and A. Vig, *Bhartiya Vigyanic and Udyogic Anushandhan Patrika*, **2**, 47 (1994).
29. Amperometric trace determination of Cu (II), Ag (I), Au (III), Pd (II) and Pt (IV) with 2-mercapto and 3-mercaptopropionic acid, O. P. Agrawal, K. K. Verma, S. P. Khatkar and R. K. Malik, *Asian J. Chem.*, **6**, 911 (1994).
30. Substituted (Phenacyl)tellurium (IV) Halides: Synthesis and characterization, K. K. Verma and Sapana Garg, *Synth. React. Inorg. Met. – Org. Chem.*, **24**, 1631 (1994).
31. Complexes of 4-Hydroxyphenyltellurium Trihalides with Piperidine, Dimethylformamide and Thiourea, K. K. Verma and Reena, *Synth. React. Inorg. Met. – Org. Chem.*, **29**, 499 (1999).
32. Synthesis and Characterization of Complexes of some Hydroxyaryltellurium Trichlorides with N-Donor Ligands, K. K. Verma, Reena Dahiya and Daya Soni, *Synth. React. Inorg. Met. – Org. Chem.*, **29**, 1033 (1999).
33. Synthesis and Characterization of Pyridine and Bipyridyl Complexes of 4-Hydroxyphenyltellurium Trihalides. K. K. Verma and Reena Dahiya, *Synth. React. Inorg. Met. – Org. Chem.*, **29**, 1299 (1999).
34. Studies on Thiourea Complexes of Hydroxyaryltellurium Trichlorides, K. K. Verma and Reena, *Phosphorus, Sulfur and Silicon and the Related Elements*, **148**, 227 (1999).

35. Studies on the reactions of Diaryltelluroxides with some Metal Chlorides. Daya Soni and K. K. Verma, *Oriental J. Chem.*, **16**, 457 (2000).
36. Diaryltellurium (IV) Carboxylates: Synthesis via Telluroxides and their Characterization, K. K. Verma, Daya Soni and Sunil Verma, *Phosphorus, Sulfur and Silicon and the Related Elements*, **166**, 231 (2000).
37. Synthesis and Characterization of Telluroxide Complexes of some Organo-tellurium (IV) Trichlorides and Organotin (IV) Chlorides. K. K. Verma, Daya Soni and Sunil Verma, *J. Indian Council of Chemists*, **19** (1), 1 (2002).
38. Synthesis of Diaryltellurium (IV) Chelates via Telluroxides and their characterization. K. K. Verma, Daya Soni and Sunil Verma, *J. Indian Council of Chemists*, **19** (2), 29 (2002).
39. Studies on some Unsymmetrical bis (hydroxyaryl) tellurium (IV) Dichlorides, K. K. Verma and Sunil Verma, *Proc. National Academy of Sciences, India*, **75** (A) **III**, 171 –175 (2005).
40. Synthesis and Characterization of Acyl(aryl)tellurium(IV) Dichlorides, K. K. Verma and Sunil Verma, *Synth. React. Inorg. Met.-Org. Chem.*, **33** (10), 1811 (2003).
41. Investigations on Some Acyl(aryl)Tellurium (IV) Dihalides, Sunil Verma and K. K. Verma, *Phosphorus, Sulfur and Silicon and the Related Elements*, **180** (3, 4) 1106, (2005).
42. Study on Picoline Complexes of *p*-Hydroxyphenyltellurium (IV) Trihalides, K. K. Verma and Seema, *Int. J. Chem. Sci.*, **6** (1) 371-380 (2008).
43. Studies on Primary Dithizonates of some Aryltellurium (IV) Halides, K. K. Verma, Seema and Shashi Chhabra, *Oriental J. Chem.*, **23** (3) 1043-1048 (2007).
44. Synthesis and Characterization of Ethylenedimine Complexes of some Aryltellurium (IV) Trihalides, K. K. Verma, Seema and Shashi Chhabra, *Int. J. Chem. Sci.*, **6** (1) 59-67 (2008).
45. Studies on 1, 10-Phenanthroline Complexes of some Hydroxyaryltellurium Trihalides, K. K. Verma, Seema and Shashi Chhabra, *Phosphorus, Sulfur and Silicon & The Related Elements*, **183** (12) 3037-3045 (2008).
46. Studies on Complexes of Schiff Bases Derived from Saicyldehyde and 2 –Amino Phenol/2-Aminothiophenol with Aryltellurium (IV) Chlorides, K. K. Verma, Seema and S.Chhabra, *Oriental J. Chem.*, **23** (3) 1025-1030 (2007).
47. Complexes of Aryltellurium(IV) Derivatives with Schiff Base Derived from Acetylacetone and Ethylenediamine, K. K. Verma, Seema and S.Chhabra, *Oriental J. Chem.*, **23** (3), 1111-1114 (2007).
48. Noninvasive probing of aqueous TritonX – 100 with steady-state and frequency-domain fluorometry. Hari Om, Gary A. Baker, Frank. V. Bright, Krishan K. Verma, and Siddharth Pandey, *Chemical Physics Letters*, **450**, 156-163 (2007).
49. Self-Probing of Micellization within Phenyl-Containing Surfactant Solutions. Hari Om, Gary A. Baker, Kamalakanta Behera, Vinod Kumar, Krishan K. Verma, Siddharth Pandey. *ChemPhysChem*,
CHEMPHYSICHEM, vol. 11, no. 12, pp. 2510-2513 (2010).
50. Dynamic and Microviscosity of Aqueous Chromophoric/Fluorophoric Surfactant Solutions Hari Om, Krishan K. Verma, Siddharth Pandey, (Submitted to Chem. Engg. Data.) 2010.

51. Synthesis and characterization of some divalent transition metal complexes with tellurium containing 10-membered tetraazamacrocyclic ligands, Nitu and K. K. Verma, *J.Chem.Pharm.Res.*,**2(4)** 793-800 (2010).
52. Study on Divalent Transition Metal Complexes With Tellurium Containing 12-Membered Tetraazamacrocyclic Ligands, Nitu and K. K. Verma, *Int. J. Chem Sci.*,**9(1)**,229-238(2011).
53. Studies on 1, 10-Phenathroline Complexes of some Diaryltellurium dihalides, Shashi Chhabra and K. K. Verma, *J. Chem.Pharm. Res.*, **2(4)**, 569-575 (2010)
54. Synthesis and Characterization of Some Group 12 Metal Complexes with Tellurium Containing 10-Membered Tetraazamacrocyclic Ligands, Nitu and K. K. Verma, *E-Journal of Chemistry*, Vol. 9(3), 2011. In press
55. Investigations on some d¹⁰ metal-ion complexes with 12-membered tellurium containing tetraazamacrocycles, Nitu Rathee and Krishan K. Verma, *Der Pharma Chemica*, **3(1)**, 97-104 (2011)..
56. Studies on some platinum (II) complexes with ditellura tetraazamacrocycles., Nitu Rathee, Sapana Garg and Krishan K. Verma, *Der Pharma Chemica*, **3(1)**, 286-292 (2011)..

Published in conferences/ Seminar proceedings :

1. Methyl substituted Hydroxyphenyltellurium(IV) Chlorides. Proc. 67th I.S.C., part III ,p.52, Calcutta (1980)
2. Hydroxyaryltellurium(IV) Halides Annual convention of chemists,p.5.,I.I.T.,Bombay(1980).
3. Solution Studies on chlorohydroxyphenyltellurium(IV) Trihalides. Annual convention of chemists,p.21,I.I.T.,Bombay(1980)
4. Methyl substituted Hydroxyphenyltellurium(IV) Bromides and Iodides Proc. 68th I.S.C., part III ,p.31,Varanasi(1981).
5. Reactions of Hydroxyaryltellurium(IV) Halides Annual convention of chemists,p.13., I.I.T. Madras and Madras University (1981).
6. Studies on Synthesis,Characterization and Antimicrobial activity of some Metal Thiomalates. Proc. 75th I.S.C., part III ,p.2, Pune(1988).
7. Studies on the Reactions of Triphenyltelluronium Halides with Titanium tetrahalides:Synthesis of Triphenyltelluronium Halotitanates(IV).Proc. 76th I.S.C., part III,p.31,Madurai(1989).
8. Thiodipropionate complexes of Ag(I) and Ti(IV):Synthesis & Characterization . Proc. 77th I.S.C., part III,p.37,Cochin(1990).
9. Amperometric determination of some Lanthanides with Thiomalic acid.Proc. 77th I.S.C., part III,p.16,Cochin(1990).
10. Amperometric determination of As(V) and Tl(III)with Thiomalic acid. Proc. 78th I.S.C., part III,p.22,Indore(1991).
11. Amperometric determination of Cu(II),Ag(I),Au(III) and Pd(II) with 3-mercaptopropionic acid.International conf. on energy, environment and electrochemistry , 10-12 Feb. 1993,Karaikudi, paper no.2-17, p.A-42.

12. Triphenyltelluronium chlorometallates. Winter school-cum-workshop on organometallic chemistry(sponsored by DST),p.1,Dec 6-8,1993 IIT, Delhi.
13. Amperometric trace determination of Ir(III). Proc. 81st I.S.C., part III,p.143,Jaipur,Jan 3-7(1994).
14. Amperometric trace determination of Rh(III)& Os(VIII)with 2-mercaptopropionic acid. Proc. 83rd I.S.C., part III,p.12-13,Patiala,Jan 3-7(1996).
15. Phenacyltellurium(IV) halides. Prof.B.L.Khandelwal celebration seminar,dept.of chem. IIT Delhi, 27th July 1996.
16. Studies on the complexes of 4-Hydroxyphenyltellurium trihalides. Proc. 85th I.S.C., part III,p.37,Hyderabad,Jan 3-7(1998).
17. Complexes of (Methylhydroxyphenyl)tellurium trichlorides with N,O and S donors Proc. 85th I.S.C., part III,p.40,Hyderabad, Jan 3-7 (1998).
18. Pyridine Complexes of (Methylhydroxyphenyl)tellurium(IV) tribromides and triiodides. Proc. 86th I.S.C., part III,p.19,Chennai,Jan 3-7(1999).
19. Synthesis of some new Diaryltellurium(IV) compounds via telluroxides. Proc. 87th I.S.C., part III,p.30,Pune,Jan 3-7(2000).
20. Ligand properties of some Diaryltelluroxides. Proc. 88th I.S.C., part III,p.23-24,IARI New Delhi,Jan 3-7(2001).
21. Studies on some Telluroxide Complexes of Organotellurium(IV) Trichlorides and Organotin(IV) chlorides. Indian Council of Chemists, XXth Conference, paper no. IO-3, p-2, University of Mysore,Mysore, Dec. 22-24,2001.
22. Synthesis and Characterization of some Unsymmetrical Diorganyl tellurium(IV) dichlorides. Indian Council of Chemists, XXth Conference, paper no. IO-14, p-9, University of Mysore,Mysore, Dec. 22-24,2001.
23. Studies on some unsymmetrical Diorganyltellurium(IV) dihalides. 21st Conference of Indian Council of Chemists, R. D. University, Jabalpur , Oct 24 - 26 (2002) , Paper No. IO-31 , p-19.
24. Study on the synthesis and properties of some unsymmetrical diaryl tellurium(IV) Dichlorides, 22nd Annual conference of Indian council of chemists, IIT Roorkee, Oct. 17-19, (2003), IO-01, p.10.
25. Investigations on some Acyl (aryl)tellurium(IV) dihalides. IXth International Conference on the Chemistry of Selenium and Tellurium, IIT Bombay, Feb. 23-27 (2004), P-56, p.111.
26. Unsymmetrical bis(hydroxyaryl)tellurium(IV) dichlorides: Synthesis and characterization. 23rd Annual conference of Indian council of chemists, K.C. College, Mumbai, Oct. 29-31, (2004), IO-04, p.11-12.
24. Study on the Hydrolytic Behaviour and Antibacterial Activity of Some Unsymmetrical Diorganyltellurium(IV) Dichlorides. Fifth International Conference on Advances in Metrology ,NPL, New Delhi , Feb.23- 25. 2005. p.101

25. Study on the Applications of some Bis(hydroxyaryl)telluroxides as Aldol Catalyst. 25th Annual conference of Indian council of chemists, University of Mumbai and Birla College Kalyan, Dec. 27-29, 2006, Paper No. OP-17, p. 88.
26. Study on the Applications of some Bis(hydroxyaryl)telluroxides as oxidizing reagents in organic synthesis, 26th Annual conference of Indian council of chemists, H.S. Gaur University Sagar, M.P. Feb. 26-28, 2008, Paper No. OP-35, p.124.
27. Studies on the oxidizing properties of some Tellurinic acid anhydrides. 27th Annual conference of Indian council of chemists, Gurukul Kangri University, Haridwar, Dec.26-28,(2008), Paper No. IO-08, p.22 and OP-45 p.130.
28. Synthesis and characterization of Bipyridyl complexes of some Diorganytellurium(IV) dihalides. 27th Annual conference of Indian council of chemists, Gurukul Kangri University, Haridwar, Dec.26-28,(2008), Paper No. IO-10,p.23.
29. Synthesis and characterization of Ethylenediamine complexes of some Diaryltellurium (IV) dihalides. 27th Annual conference of Indian council of chemists Gurukul Kangri University, Haridwar, Dec.26-28,(2008), Paper No. IO-17,p.27.
30. Synthesis and characterization of Adducts of some Diorganytellurium(IV) dichlorides with strong Lewis acids. 27th Annual conference of Indian council of chemists Gurukul Kangri University, Haridwar, Dec.26-28,(2008), Paper No. IP-06 p.49.
31. Studies on the hydrolysis of some Unsymmetrical Diorganytellurium(IV) dihalides. 27th Annual conference of Indian council of chemists Gurukul Kangri University, Haridwar, Dec.26-28, (2008), Paper No. IP-07, p.50.
32. Investigation on some Transition Metal Complexes of Novel Tellurium Containing 10-Membered Tetraazamacrocycles Nitu and K. K. Verma*, 29th Annual conference of ICC, P.U.Chandigarh, Dec. 19- 21 (2010), Paper No. IP-11, p. 63-64.
33. Studies on some Tellurium Containing Macrocyclic Complexes of d⁸ Metal – Ions. Nitu and K. K. Verma*, 29th Annual conference of ICC, P.U.Chandigarh, Dec. 19- 21(2010), Paper No. IP-13, p.64-65.
34. Synthesis and Characterization of Metal Complexes of Group-12 with Tetraazamacrocycles Containing Tellurium Nitu and K. K. Verma*, 29th Annual conference of ICC, P.U.Chandigarh, Dec. 19-21(2010), Paper No.IO-41, p.40-41.
35. Template Synthesis of Tellurium Containing 12-Membered tetraazamacrocyclic Complexes and Their Characterization K.K.Verma, Nitu and Sapana Garg, 29th Annual conference of ICC, P.U.Chandigarh, Dec. 19-21(2010), Paper No. IP-04, p. 59-60.
36. Synthesis and Characterization of 1,3-diaminopropane Complexes of some Diaryltellurium(IV) dihalides. Shashi Chhabra and K. K. Verma, 29th Annual conference of ICC, P.U.Chandigarh, Dec. 19-21(2010), Paper No.-IO-39, p.39-40.

Participation in conferences/Seminars :

S.No.	Conferences/Symposia	Duration	Name of institute
1.	67th session of Indian Science Congress	Feb.1-5,1980	Jadavpur University Calcutta
2.	Annual Convention of chemists 1980	Dec.9-13,1980	IIT Bombay
3.	68th session of Indian Science Congress	Jan.7-12,1981	B.H.U. Varanasi
4.	75th session of Indian Science Congress	Jan.7-12,1988	University of Pune,Pune
5.	Coordination Chemistry : Different dimentions .	April 7-8,1989	Allahabad University , Allahabad
6.	Symposium on Emerging Frontiers in Corrosion & its control.	March 5-7,1995	M.D.University,Rohtak
7.	Winter School-cum-Workshop on Organometallic Chemistry.	Dec. 6-8,1993	IIT Delhi
8.	National Symposium on Radiochemistry (3-week Refresher course).	Sept 26-Oct15, 1994	CPDHE,DelhiUniversity, Delhi
9.	Recent Trends in Applications of NMR Spectroscopy	Nov. 28,1994	IIT Delhi
10.	Applications in Frontiers of IR,Raman and UV-Vis Spectroscopic Techniques	March 13,1995	Hotel RajHans,Surajkund New Delhi
11.	Applications of NMR Spectroscopy	Nov.10,1995	Scope complex New Delhi
12.	Professor B.L.Khandelwal celebration seminar	July 27,1996	Chem. Dept.,IIT Delhi
13.	National Workshop on Solid State Nuclear Track Detectors(NTSI)	Oct.8-10, 1996	ChemDept.,M.D.U.Rohtak
14.	85th session of Indian Science Congress	Jan. 3-7,1998	Osmania University, Hyderabad
15.	88th session of Indian Science Congress	Jan. 3-7,2001	IARI, New Delhi
16.	20 th Annual Conference of	Dec. 22-24,2001	University of Mysore,

Indian Council of Chemists		Mysore.
17. 21 st Conference of Indian Council of Chemists	Oct. 24–26,2002	R. D. University, Jabalpur.
18. Patent Awareness Workshop	Dec. 21,2002	M. D. U. Rohtak.
19. 22 nd Conference of Indian Council of Chemists	Oct. 17-19, 2003	IIT, Roorkee
20. 23 rd Conference of Indian Council of Chemists	Oct. 29-31, 2004	K. C. College, Mumbai
21. Patent Awareness Workshop	Dec.30, 2005	M. D. U. Rohtak

Awards and Distinctions :

- Secured 1st position in M D University, Rohtak, M.Sc. Chemistry examination held in 1978, Awarded a gold medal thereof.
- Published one patent (Govt. of India)

Assignments outside M D University, Rohtak :

- Outside subject Expert of Post graduate Board of Studies, H P University, Shimla for two years.
- Outside subject Expert of Under graduate Board of Studies, Kurukshetra University, Kurukshetra for two years, 2010-2012.

Other contributions :

- Delivered About Twenty Extension Lectures at various institutes including UGC sponsored Refresher Courses in Chemistry