

## Curriculum Vitae

**Name** : Dr. Ram Prakash Tiwari

**Father's Name** : Dr. Raj Narain Tiwari

**Date of Birth** : June 05, 1966



**Present Designation & Address** : Professor & Chairman,  
GIS Cell,  
M.N.N.I.T. Allahabad-211 004

**Residential Address** : Plot No. 31, Balrampur House  
Allahabad-211002

**Permanent Address** : 204, Gangotri Apartment, Mahmoorganj  
Varanasi-221010

**Sex** : Male

**Nationality** : Indian

**Academic Qualification** :

S.No.	Exam. Passed	College/ Institution	Board/ University	Year	Division	% Marks
1	High School	B.T.H.S. Varanasi	U.P. Board	1981	1 <sup>st</sup> (Hons)	76.8
2	Intermediate	Queen's College, Varanasi	U.P. Board	1983	1 <sup>st</sup> (Hons)	76.2
3	B.E. (Civil)	M.N.N.I.T., Allahabad	University of Allahabad	1987	1 <sup>st</sup>	71.2
4	M.E.(Civil) Geotechnical Engineering	M.N.N.I.T., Allahabad	University of Allahabad	1989	1 <sup>st</sup>	69.3
5	Ph.D. in Civil Engineering	M.N.N.I.T., Allahabad	University of Allahabad	1999	Awarded	

### Experience with details:

S.No.	Post Held	Department/ Institute	Experience	Pay Scale	Responsibility
1	Lecturer	CED, KNIT, Sultanpur	29 Aug. 1989 to 28 Aug. 1995	Rs. 2200-4000	1.Teaching of UG and PG classes 2.Supervision of M. Tech. thesis 3.Consultancy work
2	Sr. Lecturer	CED, KNIT, Sultanpur	29 Aug, 1995 to 28 Aug, 2000	Rs. 3000-5000	1.Teaching of UG and PG classes 2.Supervision of M. Tech. thesis 3.Consultancy work
3	Reader	CED, KNIT, Sultanpur	29 Aug. 2000 to 18 Jan. 2002	Rs. 3700-5700	1.Teaching of UG and PG classes 2.Supervision of M. Tech. thesis 3.Consultancy work
4	Project Officer (On Deputation)	NTMIS, M.N.N.I.T., Allahabad	05 Feb. 99 to Jan. 18, 02	Rs. 3700-5700	1.Supervision of Project work 2.Supervision of M.E. thesis
5	Asst. Professor	CED, M.N.N.I.T., Allahabad	Jan.19, 2002 to Dec.31, 2005	Rs. 12000- 18300	1.Teaching of UG and PG classes 2.Supervision of Ph.D. & M. Tech. thesis. 3.Research Projects & Consultancy works.
6	Associate Professor	CED, M.N.N.I.T., Allahabad	Jan.01, 2006 to Dec.3, 2007	Rs. 12000- 18300	1.Teaching of UG and PG classes 2.Supervision of Ph.D. & M. Tech. thesis. 3.Research Projects & Consultancy works.
7	Professor	CED, M.N.N.I.T., Allahabad	<b>Dec.4, 2007</b> to till date	Level 14A of the Seventh CPC Pay Matrix	1.Teaching of UG and PG classes 2.Supervision of Ph.D. & M. Tech. thesis. 3.Research Projects & Consultancy works.
8	Professor & Head	CED, M.N.N.I.T., Allahabad	July 27,2011 to July 26,2013	Rs. 37400- 10000-67000	1.Administrative Works 2.Teaching of UG and PG classes 3.Supervision of Ph.D. & M. Tech. thesis. 4.Research Projects & Consultancy works.

### Honours & Awards:

1. *Award:* IGS-AIMIL best Local Chapter Award, awarded to Allahabad Chapter for year 2002.
2. Appreciation Certificate by Maha Kumbh Mela Administration-2013
3. Appreciation Certificate for Keeping Clean & Pollution Free to River Ganga & Yamuna by District Administration, Allahabad-2013.
4. National Youth Honour-2015, Child Line, Allahabad-Kaushmbi, January 12, 2015
5. Shiksha Shiromani Samman-2016, Kailash Gautam Srijan Sansthan, Allahabad September-2016

### Games & Sport:

1. Represented College Team in Lawn Tennis.
2. Represented College Team in Base Ball
3. Represented Inter-Class Tournament of Yoga

### Research & Publications:

- (A) Thesis:** (i) M.E. Thesis “Strength and Deformation Behaviour of Chunar and Kota Sandstones”  
(ii) Ph.D. Thesis “Soil-Waste Interaction Behaviour”

**(B) Ph.D. Supervised:**

1. “Materials Management in Roads Construction” by Akel A.K. Jaafar. (May-2006)
2. “Remediation of Soils Contaminated with Non-Aqueous Phase Liquids (NAPL’s)” by P. Vasudeva Rao(November-2006)
3. “Electro Kinetic Remediation of Fine Grained Contaminated Soils” by P. Balaramudu.(August-2007)
4. “GIS based Disaster Management System for Allahabad City” by S H Abbas (October-2009).
5. “Enhanced Electrokinetic Remediation of Cadmium Contaminated Soil by Zero Valent Particles” by Arti Alok (March-2015).
6. “Estimation of Liquefaction Potential of Soils Using Soft Computing Methods” by Vijay Kumar (October-2015).
7. “Treatment of Low Strength Waste Water through UASB Reactor and PFM System” by Ashish Tiwari(June-2017).
8. “Analysis of Earth & Rock fill Dam” by Tiwari Ritesh Kumar Chandrasekhar (Dec. 2017).
9. “Electro Kinetic Remediation of Copper Contaminated Soils by Using Zero Valent Nano Iron Particle & Analysis by Zeta Potential Meter” by Rahul Das Gupta (2018).
10. “Non-Linear Inelastic Modelling of Soil Structure Interaction Mechanism” by Atul Jaiswal (2018).

**(C) Ph.D. Thesis under supervision:**

1. “Utilisation of Used Foundary Sand in Soil Stabilisation” by Vipin Prajapati (Submitted).
2. “ Electrokinetic Remediation of Heavy Metal Contaminated Expansive Soil” by Sharma Hari Ballabh Dutt.

**(D) M.Tech. Thesis Supervised:**

- 1 “Prediction of Strength Behaviour of Geo textile Reinforced Sultanpur Silts” by Mohit Gupta (1992).
- 2 “A Critical Review of Reliability Analysis and its Application to Geotechnical Engineering” by Y.N. Prasad(1992).
- 3 “Evaluation of Soil Chemistry and its Role in Highway Embankment Erosion-A Case Study of U.P.P.W.D. Road Near Bhadohi Town in District Varanasi (U.P.)” by T.N. Tripathi(1993).

- 4 "Utilisation of Industrial Waste (Fly Ash) in Landfill Barrier" by Rajesh Kumar(2000).
- 5 "Strength Evaluation of Expansive Soil Stabilised with Lime Sludge with Pore Pressure Measurement" by Sanjay Kumar Srivastava(2003).
- 6 "Geotechnical Evaluation of Soil Contaminated with Organic Solvent and De-contaminated with Surfactant" by P. Vasudeva Rao(2003).
- 7 "Geotechnical Evaluation of Soil Contaminated with Metals (zinc, nickel and lead) and Effect of Surfactant in De-contamination" by M. Umasankaru(2003).
- 8 "Geotechnical Evaluation of Soil Contaminated with Metal ( $MgCl_2$ ) and Effect of Surfactant in De-contamination" by Y. Reveendra Naidu(2003).
- 9 "A Software for Design & Cost Analysis of MSW Landfill : Evaluation for Allahabad City" by Mahendra Kr. Nema(2004).
- 10 "Laboratory Studies on Remediation of Soil Contaminated with DNAPLS" by M. Sreeramulu(2004).
- 11 "Removal of Heavy Metal from Soil using Surfactant Flushing Mechanism (Copper)" by Neeraj Kumar Agarwal(2004).
- 12 "Study on Desorption of Arsenic Contaminated Soil using Surfactant" by Michael V. Dilawar(2004).
- 13 "Natural Resource Database of Northern Districts in Uttar Pradesh" by Joy F. Bedi(2004).
- 14 "Consolidation Behaviour of Amended Soil" by D.K. Shukla(2004).
- 15 "Studies of Sorption and Desorption of Phenol on different Soils" by Shiv Narayan(2004).
- 16 "Enhanced Remediation of Trichloroethylene Contaminated Soils with Liquid Organic Cleaner" by Akhilesh Kumar(2004).
- 17 " Sorption of Lead on Soil and Desorption Using Surfactant" by Neeraj Kumar (2004).
- 18 "Stabilization / Solidification of Chromium Contaminated Soil Using Lime" by Rajeev Kumar(2005).
- 19 "Sorption & Desorption of Copper in Soil" by Shweta Kandpal(2005).
- 20 "Use of Fly Ash in Road Construction" by Godse Abhijit Arun(2005).
- 21 "Desorption Study of Contaminated Soil Waste Pesticides" by Prashant Kumar Singh(2005).
- 22 "Stabilization of Erodable Soils with Synthetic Fibers" K. Joseph Daniel(2005).

- 23 "Assessment of Subgrade soil Properties for Design of Drainage Layer in Pavement Foundation" by Vikas Pratap Singh(2005).
- 24 "Optimisation of Road Construction Material Transportation using GIS" by N. Murali(2005).
- 25 "Landfill Site Selection using GIS for Allahabad City" by K. Mahesh Reddy(2005).
- 26 "Analysis of Circular Foundation using F.E.M." by Ganesh W. Rathod(2005).
- 27 "Geotechnical Characterisation and Design of Spillway Section of Rasin Dam" by Syed Tabish Ahad(2005).
- 28 "Geotechnical Characterisation and Design of Earthen Section of Rasin Dam" by Navin Kumar Pathak(2005).
- 29 "F.E.M. Analysis of Leachate Flow in Landfill" by Amit Krishna(2005).
- 30 "Consolidation and Seepage Behaviour of Stabilised Erodible Soil" by Govind Prasad Yadav(2005).
- 31 "Geotechnical Characterisation and Design of Weir for Rasin Dam" by Vijay Kumar(2005).
- 32 "Evaluation of Geotechnical Properties of Soil Contaminated with Grease and Decontaminated with L.O.C" by Jeetendra Kumar(2005).
- 33 "Electrokinetic Remediation of Soil Contaminated with Heavy Metal" by O.P. Ranjan(2005).
- 34 "Sorption and Desorption Behaviour of Chromium at Different pH" by Yeetendra Kumar (2005).
- 35 "Installation of Well Foundation with Controlled Sinking by Jack Down System" by Rajeev Kumar(2006).
- 36 "Sorption & Desorption Studies of Soil Contaminated with Heavy Metals (Cu & Cd)" by Sunil Kumar Ahirwar (2006).
- 37 "Sorption of Cadmium on Soils with Varying Soil-Contaminant Ratio & It's Remediation" by Anil Kumar Yadav (2006).
- 38 "Enhanced Remediation of Clayey Soil Contaminated with Diesel & PEG" by Ravi Garga(2006).
- 39 "Enhanced Electrokinetic Remediation of High Sorption Soil Contaminated with Heavy Metal" by Vedpal Singh(2006).
- 40 "Remediation of Cadmium Contaminated Clayey Soil" by N. Adinarayana(2006).

- 41 "Enhanced Electrokinetic Remediation of Cadmium Contaminated Clayey Soil" by Ganga Sagar (2006).
- 42 "Immobilization of Heavy Metal (Copper) in Contaminated Soil by Stabilization with Lime and Cement " by Hanumanth Kulkarni (2007).
- 43 "Electrokinetic Remediation of Heavy Metals from Contaminated Soils " by V.B.N. Sarma(2007).
- 44 "Enhanced Electrokinetic Remediation of Heavy Metals from Contaminated Soils " by P. Chandra Sekhar(2007).
- 45 "Immobilization of Heavy Metal (Cadmium) in Contaminated Soil by Stabilization with Lime and Cement" by Rakesh Dhapola(2007).
- 46 "GIS Based Disaster Mitigation and Management Strategy for Megacities" by Praveen Jha(2007).
- 47 "Physico-Chemical Decontaminatio of Soils Contaminated with Inorganic Contaminants" by Anurag Kumar Singh(2007).
- 48 "Stabilisation of Chromium Contaminated Soil by Lime" by Sonam K. Tshering (2008).
- 49 "Estimation of SPT N-Value using ANN Technique" by Rajendra Kore (2008).
- 50 "Use of Geoinformatics in the Assessment of Natural Resources & Develpoment of Bhutan" by M.N.Lamichaney (2008).
- 51 "Electrokinetic Remediation of Cadmium Contaminated Fine Grained Soil" by Mane Abhinav Sonaji (2008).
- 52 "Undrained Cyclic Behaviour of Cohesive and Cohesionless Soils" by Ravi Kumar Singh (2008).
- 53 "Characterisation of Open Dumps and Their Rehabilitation" by Ravinder Gadipalli (2008).
- 54 "Stabilisation of Chromium Contaminated Soil" by Mukesh Kumar Parihar (2008).
- 55 "Electro Kinetic Removal of Toxic Contaminants from Soils Using Reactive Nano-Particals" by Mahesh Rawat (2009).
- 56 "Electrokinetic Remediation of Copper Contaminated Soil" by Surendra Kumar(2009).
- 57 "Design & Construction of Tail Race Tunnel A Case Study" by Santosh Singh(2010).
- 58 "Stabilisation of Virgin & Contaminated Expansive Soil Using Cement Kiln Dust" by P.K.Kashyap(2010).

- 59 "Electrokinetic Remediation of Copper Contaminated Soil Using Zero Valent Nano Iron Particles" by Raghvendra Sahu(2010).
- 60 "Electrokinetic Remediation of Cadmium Contaminated Soil Using Zero Valent Nano Iron Particles" by Rahul Dasgupta(2010).
- 61 "Use of Zeta Potential Meter for Cadmium Contaminated Clayey Soil: Monitoring & Analysis" by Sanjeev Tripathi(2012).
- 62 "Estimation of Liquefaction Potential of Soils Using Neuro Fuzzy Technique" by Nisheet Tiwari (2012).
- 63 "Analysis of Laterally Loaded Pile" by Sonali Srivastava (2012).
- 64 "Effect of Chemical Additives on Zeta Potential of Contaminated Soil" by Sneha Gupta (2013).
- 65 "Analysing and Mitigating Liquefaction Hazard" by Saurabh Kumar (2013).
- 66 "Assessment of Liquefaction Potential using RVM" by Ravi Kr. Suman (2014).
- 67 "Stabilisation of Black Cotton Soil Using Geo-Textiles" by Rishi Srivastava (2014).
- 68 "Use of Copper Slag in Flexible Pavement" by Pradeep Kumar (2014).
- 69 "Effect of Prestressed Geotextile on Square Footing of Sand Supporting" by Akhand Pratap Singh (2014).
- 70 "Application of Jute Geotextile for Unpaved Road Construction" by Vaishali Rajbhar (2015).
- 71 "Application of Non-Woven Geotextile for Soil Improvement in Pavements" by Kshama Gupta (2015).
- 72 " Compositional Analysis of Contaminated Soils" by Abhishek Srivastava (2015).
- 73 " Compositional Study of Soil with Tannery Effluent" by Nitin Kumar Shukla (2015).
- 74 "Electrokinetic Remediation of Lead Contaminated Highly Compressible Soil Using EDTA Solution" by Dewashish Mishra (2017)
- 75 " Effect of Cement on Geotechnical Properties of Glycerol Contaminate Clayey Soil" by Sarfaraj Khan (2017)
- 76 "Electrokinetic Remediation of Zinc Contaminated Highly Compressible Soil Using EDTA Solution" by Shivam Singh Yadav (2017)
- 77 "Design of Rigid Pavement on Expansive Soil Stabilised with Lime" Sharma Hari Ballabh Dutt (2017)

**(E). Publications in International Journal / National Journal / Conferences / Seminars:**

**(i) National Journal:**

1. **R.P. Tiwari**, M.K. Gupta and R.K. Srivastava: "Laboratory Studies on Surfactant Enhanced Remediation of Engine Oil Contaminated Soils" *Indian Geotechnical Journal*, Mumbai, India, pp 287-298.
2. **R.P. Tiwari** and R.K. Srivastava: "Shear Strength Behaviour of Amended Soils", *Highway Research Bulletin*, New Delhi, India, July 2003, pp 21-37.
3. T.B. Banerjee, Arun Kumar Sharma, **R. P. Tiwari** and Manoj Pandey: "Rehabilitation of Old Bridges on National Highways in U.P." *Indian Highways*, New Delhi, India, January 2007, pp11-18.

**(ii) International Journal:**

4. Rakesh K. Srivastava, **Ram P. Tiwari** and Bala Ramudu P: "Electrokinetic Remediation Studies on Cadmium Contaminated Soil" *Iran Journal of Environmental Health Science & Engineering* 2007, Vol.4, No.4, pp 207-214.
5. **R. P. Tiwari**, Bala Ramudu P, R. K. Srivastava and M.K. Gupta: "Sorption and Desorption Studies of Zinc Metal on An Alluvial Soil" *Iran Journal of Environmental Health Science & Engineering* 2007, Vol.4, No.3, pp 139-146.
6. Rakesh K. Srivastava, **Ram P. Tiwari** and Bala Ramudu P: "Enhanced Removal of Cadmium from Alkaline Soil by Electromigration" *Journal of Land Contamination and Reclamation*, 2008, Vol.16, No.3, pp 191-212..
7. S.H. Abbas, R.K.Srivastava and **R.P.Tiwari**: "GIS Based Disaster Management- A Case Study for Allahabad Sadar Sub-District (India)" *Management of Environment Quality –An International Journal*, Vol. 20 No.1,pp 33-51,2009.
8. Arti Alok, **R.P.Tiwari** and R.P.Singh: "Enhanced Remediation of Cadmium and Copper from Clayey Soil" *Oxidation Communication*, Bulgaria, Malyasia, Book No.-3, Vol.33, 2010, pp. 583-592, (ISSN: 0209-4541) (SCI).
9. Vijay Kumar, Kumar Venkatesh, **R.P.Tiwari** and Yateendra Kumar " Application of ANN to Predict Liquefaction Potential" *International Journal of Computational Engineering Research*, March-April 2012, Vol. 2, Issue No. 2, pp 379-389.
10. Alok Arti, **R.P.Tiwari** and R.P.Singh "Effect of pH of Anolyte in Electrokinetic Remediation of Cadmium Contaminated Soil" *International Journal of Engineering Research & Technology*, December 2012, Vol. 1, Issue 10.



11. Kumar Venkatesh, Vijay Kumar & **R. P. Tiwari**. "Appraisal of Liquefaction Potential using Neural Network and Neuro Fuzzy Approach" Applied Artificial Intelligence (Taylor & Francis Group), Vol.-27:8, 2013, Pages: 700–720, (ISSN: 0883-9514) (SCI).
12. Vijay Kumar, Kumar Venkatesh and **R.P. Tiwari**, "A Neuro fuzzy Technique to Predict Seismic Liquefaction Potential of Soil", International Journal of Neural Network World, 3/14, pp 249-266, 2014. (ISSN: 1210-0552) (SCI).
13. **R.P.Tiwari**, R.P.Singh and Arti Alok, " Selection of a Suitable Surfactant Based on Zeta Potential for use as Purging Solution in EK Remediation of Cadmium from Cadmium Contaminated Soil" Oxidation Communications, Bulgaria, Book No.-3, pp. 1511-1520, Vol.38, 2015. (ISSN: 0209-4541)(SCI).
14. Bipin Prajapati, **R.P.Tiwari** and A.K.Sachan " Utilazation of Used Foundry Sand in Concrete Mix Design" International Journal of Engineering Science Invention Research & Development, pp 615-622, Vol.-2, Issue-9, 2016 (ISSN:2349-6185).
15. Bipin Prajapati, A.K.Sachan, **R.P.Tiwari** and Nitin Kumar Singh " Comparative Study of Used Foundry Sand and Marble Dust on Geotechnical Properties of Silty Soil" International Research Journal of Engineering and Technology" pp 1316-1325, Vol.-3, Issue-5, 2016 (ISSN: 2395-0072).
16. Bipin Prajapati, **R.P.Tiwari** and A.K.Sachan " Effect of Woven Polyester Geotextile on the Strength of Black Cotton Soil" International Journal of Innovative Research in Science, Engineering and Technology, Vol.-5, Issue-7, 2016 (ISSN: 2347-6710).

**(iii) National & International Conference:**

**International Conference:**

17. R.K. Srivastava, A.V. Jalota, **R.P. Tiwari**, T.Nath and A.K. Sahu : "Evaluation of Soil Chemistry and It's Role of Highway Embankment erosion : A Case Study (India)", International Conference on the Implication of Ground Chemistry / Microbiology for Construction, IGCC-92, University of Bristol, England, pp 284-292.
18. R.K. Srivastava and **R.P. Tiwari**, Y.N. Prasad and A.A.A. Amir: "Reliability Analysis Application in Geotechnical Engineering", 2<sup>nd</sup> International Conference on SM and FE, 1993, Tehran, Iran, pp 100-117.
19. R.K. Srivastava, M. Singh and **R.P. Tiwari** : "Laboratory study of Soil-Industrial Waste Water Interaction Behaviour", XIII ICSMFE 1994, New Delhi, India, pp 1553-1556.
20. R.K. Srivastava, P.G. Patil and **R.P. Tiwari** : "Swelling and Consolidation Behaviour of Industrial Waste Stabilized Expansive Soil", 11<sup>th</sup> Asian Regional Conference, 1999, Seoul, Korea, pp 473-476.
21. R.K. Srivastava, **R.P. Tiwari**, S.K. Duggal and Surya Narain : "Characterization and Interaction of Industrial Waste Sludge with Alluvial Soil", South-Asian countries conference on Challenges to Architects and Civil Engineers During Twenty-First Century, 1999, Kathmandu, Nepal,.
22. R.K.Srivastava, **R.P.Tiwari**, V.Agarwal, P.Bala Ramudu and M.Umasankaru : "Remediation of Mixed Metal Contaminated Soil with Surfactant" 15<sup>th</sup> Southeast

- Asian Geotechnical Conference (SEAGC), Vol.1, November 22-26, 2004, Bangkok, Thailand, pp 675-680.
23. R.K. Srivastava, **R.P. Tiwari**, V. Agarwal, P. Bala Ramudu, S. Narayan and M.K. Gupta : "Studies of Sorption and Desorption of Phenol on Different Soils", International Conference on Geotechnical Engineering, October 3-6, 2004, Sharjah, UAE, pp 459-462.
  24. **R.P. Tiwari**, P. Vasudeva Rao, R.K. Srivastava "Pollutant-Surfactant Interaction on Geotechnical Properties of soil" International Conference on Geosynthetic & Geoenvironment Engineering-2004, DEC 8-10, 2004, IIT Bombay, pp 129-134.
  25. Sreeramulu M., Bala Ramudu P., **R.P. Tiwari**, R.K. Srivastava and V. Agarwal: "Enhanced Remediation of Soil Contaminated with DNAPL's", International Conference on Geosynthetic & Geoenvironment Engineering-2004, DEC 8-10, 2004, IIT Bombay, pp 493-498.
  26. **R. P. Tiwari**, A. K. Singh, A.K. Jaafar : "Quality system for Material Used in Road Construction", 11th International Conference of Productivity and Quality Research (ICPQR) –2005, IIT Delhi, India.
  27. **R. P. Tiwari**, A. K. Singh, A.K. Jaafar, "Material System as an Integrated Unity", 11th International Conference of Productivity and Quality Research (ICPQR) )-2005, IIT Delhi, India.
  28. R.K. Srivastava, Mahesh Reddy, P. Bala Ramudu and **R.P. Tiwari** "Landfill Site Selection Using GIS" Proceedings International Congress on Environmental Geotechnics, June 26-30, 2006, Cardiff, U.K. Vol. II, pp. 1557-1563
  29. **R. P. Tiwari**, A. K. Singh, A.K. Jaafar, "Material Quality system for Construction", 4th Jordanian Civil Engineering Conference (JCEC)-2006, Jordanian, pp 75-86.
  30. R.K. Srivastava, **R.P. Tiwari** & P. Bala Ramudu "Enhanced Removal of Cadmium from Spiked Soil by Electromigration" International seminar on *Geo-Environmental Engineering – 2007*, 22-24 May 2007, Grenoble, France.
  31. R.K. Srivastava, **R.P. Tiwari** & P. Bala Ramudu "Removal of Cadmium Using Electrokinetics – Effect Of Enhancement Agents" The First Sri Lankan Geotechnical Society International Conference on Soil and Rock Engineering" Colombo, Sri Lanka, August 6-11, 2007.
  32. R.K. Srivastava, **R.P. Tiwari** & P. Bala Ramudu "Electrokinetic Remediation of Cadmium Contaminated Clayey Soil" 13th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering (13th ARC) 2007, Kolkata, India, December, 10 – 14, 2007.
  33. Bala Ramudu P., **R. P. Tiwari** and R. K. Srivastava " Enhanced Electrokinetic Remediation of Soil Contaminated with Heavy Metals" GEO Congress-2008, Geotechnics of Waste Management & Remediation", ASCE, New Orleans, Louisiana, USA, 9-12th March, 2008.
  34. Bala Ramudu P., R. K. Srivastava and **R. P. Tiwari** " Speciation and Solubility of Cd<sup>+</sup> and Cu<sup>+</sup> in Electrokinetic Process" Geo-Environmental Engineering-2008, pp 135-140, June 12-14, 2008, Kyoto, Japan.

35. S.H. Abbas, R.K.Srivastava and **R.P.Tiwari** “ GIS Based Flood Management- A Case Study for Allahabad City” International Conference and Exhibition on Geographic Information Technology and Application, Map Asia-2008, Malaysia, 18-20<sup>th</sup> August 2008.
36. Arti Alok, **R.P.Tiwari** and R.P.Singh “ Effect of Purging Solution’s pH on Electrokinetic Remediation of Cadmium Contaminated Soil”. International Conference on Recent Trends and Challenges in Civil Engineering, MNNIT Allahabad, Allahabad, 12-14<sup>th</sup> December, 2014.

**National Conference:**

37. R.K. Srivastava, A.V. Jalota, **R.P. Tiwari** and K.S. Rao : “Strength and Deformation Behaviour of Chunar and Kota Sandstones”, Indian Geotechnical Conference, 1989, Vishakhapatnam, India, pp 407-410.
38. A.V. Jalota, R.K. Srivastava and **R.P. Tiwari** : “Strength and Deformation Behaviour of a Mirzapur Sand Stone” National Symposium on Applications of Rock Mechanics in River Valley Project, 1989, Roorkee, India, pp 49-52.
39. **R.P. Tiwari**, T. Nath, R.K. Srivastava, A.V. Jalota and A.K. Sahu : “Performance of a Highway Embankment Prone to Soil Erosion-A Case Study”, Indian Geotechnical Conference, 1991, Surat, India, pp 87-90.
40. R.K.Srivastava, M.Singh and **R.P. Tiwari**, “Environmental Issues : Water Resources Development Project”, All India Seminar on ‘Protection of Fresh Water Bodies from Pollution, 1992, Varanasi, India, 63-68.
41. R.K. Srivastava, M.Singh, B.Singh, and **R.P. Tiwari** : “Geotechnical Aspects of Industrial Waste Water Disposal”, All India Seminar on ‘Protection of Fresh Water Bodies from Pollution”, 1992, Varanasi, India, pp 7-11.
42. R.K. Srivastava, **R.P. Tiwari** and M. Gupta : “Strength Behaviour & Prediction Studies on Geotextile Reinforced Alluvial Soils of Northern India”, National Seminar on Geosynthetic and Reinforced Earth, 1992, Baroda, India, pp 15-22 .
43. R.K. Srivastava, **R.P. Tiwari** and M. Gupta : “Influence of Geotextile Reinforcement on C.B.R. Value of Alluvial Soils”, National Seminar on Geosynthetic and Reinforced Earth, 1992, Baroda, India, pp 36-40.
44. R.K. Srivastava, M.Singh, **R.P. Tiwari** and A.K. Sahu : “Evaluation and Applicability of Strength Criteria for Rocks-Sand Stones and Quartzites of Mirzapur Region, India” International Conference on Rock Slope Stability, 1992, New Delhi, India, pp 117-124.
45. R.K. Srivastava, M.Singh, B.Singh and **R.P. Tiwari** : “Soil- Fluid (Fertilizer Plant Effluent) Interaction behaviour”, Indian Geotechnical Conference, 1992, Calcutta, India, pp 501-504.
46. **R.P. Tiwari** and V.K. Singh : “Effect of Press Mud and Surkhi on Strength Behaviour of Clayey Soils”, Indian Geotechnical Conference, 1994, Warangal, India, pp 195-198.

47. R.K. Srivastava, **R.P. Tiwari**, M.Singh and L.Yadav: "Geotechnical Evaluation of A Coal Mine Waste Rock", Indian Geotechnical Conference, 1995, Bangalore, India, pp 57-60.
48. R.K. Srivastava, D.K. Joshi, **R.P. Tiwari** and N.K. Shukla: "SEM Analysis & Geotechnical Characterization of Industrial Waste-Expansive Soil Interaction Behaviour", Indian Geotechnical Conference-1997, Baroda, pp 101-102.
49. M.K. Gupta and **R.P. Tiwari** : "Assessment and Investigation of Contaminated Sites", Indian National Conference on Geoenvironment, 1998, Allahabad, India, pp 1-84.
50. **R.P. Tiwari** and M.K. Gupta, "Bioremediation of Contaminated land", Indian National Conference on Geoenvironment, 1998, Allahabad, India, 1-84.
51. **R.P. Tiwari**, R.K. Srivastava, M.Singh and M.K. Pandey : "Characterization and Interaction of Industrial Wastes with Expansive Soil", National Seminar on Flyash Characterisation and Its Geotechnical Applications, 1999, Bangalore, India, pp 33-38.
52. **R.P. Tiwari**, R.K. Srivastava and S. Narain : "Interaction of Industrial Waste (Liquid & Sludge) with soil", Indian Geotechnical Conference, 1999, Calcutta, India, pp 217-219.
53. **R.P. Tiwari**, R.K. Srivastava, M. Singh and Rajesh Kumar : "Utilisation of Industrial Waste (Fly Ash) in landfill Barrier" Indian Geotechnical Conference, 2000, Mumbai.
54. **R.P. Tiwari** and R.K. Srivastava : "Expansive Soil-Industrial Waste Interaction Behaviour" Indian Geotechnical Conference 2001, Indore, India, pp 207-210.
55. **R.P. Tiwari**, R.K. Srivastava and M. Singh: "Predicting Sequeezing Potential in Tunnels Excavated in Jointed Rocks" Indian Geotechnical Conference 2002, Allahabad, India, pp 461-464.
56. P.Bala Ramudu, **R.P.Tiwari** and R.K.Srivastava: "Soil Nailing Technique" Souvenir Indian Geotechnical Conference –2002, Allahabad, India.
57. R.K.Srivastava, **R.P.Tiwari**, V.Agarwal and P.Bala Ramudu: "Remediation of Oil Contaminated Soil with Surfactant" Proc. ACEDEC-2003, HBTI, Kanpur, India.
58. R.K.Srivastava, **R.P.Tiwari**, P.Bala Ramudu and M.K. Nema: "Landfill Cost Model for Disposal of MSW", Sustainable Landfill Management-2003, Anna University, Chennai.
59. R.K.Srivastava, I.C.Agarwal, Vipin Agarwal, **R.P.Tiwari** and P.Bala Ramudu : "Sorption and Desorption of Zinc, Lead & Chromium Ions on Indian Alluvial Soil" Indian Geotechnical Conference – 2003, Roorkee, India, pp 235-238.
60. **R.P.Tiwari**, P.Vasudeva Rao, R.K.Srivastava: "Role of Surfactant (LOC) in the Remediation of Soil Contaminated with Polyethylene Glycol", Indian Geotechnical Conference-2004, December 17-19, 2004, Warangal, India, pp 545-548.
61. P. Bala Ramudu, N. Agarwal, **R. P. Tiwari**, R. K. Srivastava and V. Agarwal: "A Laboratory Studies on the Remediation of Soil Contaminated with Copper" Indian Geotechnical Conference-2004, December 17-19, 2004, Warangal, India, pp 533-536.
62. **R.P. Tiwari**, P. Vasudeva Rao & R.K. Srivastava: "Removal of TCE from Alluvial Soils Using SDS" National Conference on Geotechnics in Environmental Protection (GEN-2005), April 9-10, 2005, Allahabad, pp 11-18-21.

63. M.K. Gupta, R.K. Srivastava, **R.P. Tiwari** & V. Agarwal: “Enhanced Decontamination of Waste-Engine Oil with Surfactant Triton X-100” National Conference on Geotechnics in Environmental Protection (GEN-2005), April 9-10, 2005, Allahabad, pp III-58-62.
64. R.K. Srivastava, **R.P. Tiwari**, P. Bala Ramudu, M.K. Nema & A. Sridhar: “Design of A Graphical Interface Decision Support System for MSW Landfills” National Conference on Geotechnics in Environmental Protection (GEN-2005), April 9-10, 2005, Allahabad, pp V-19-22.
65. **R.P. Tiwari**, Vikas Pratap Singh & Ganesh W. Rathod: “Statistical Prediction of Permeability for Drainage Layers in Pavement”, National Conference on Geotechnics in Environmental Protection (GEN-2005), April 9-10, 2005, Allahabad, pp IX-20-22.
66. Hanumanth Kulkarni, **R.P. Tiwari**, S.S. Quadri, “Expansive Soil Improvement by Lime Piles”, National Conference on Foundations & Retaining Structure (NCFRS) at IIT, Roorkee, 23 – 24 May, 2007, pp 177-180.
67. Dewashish Mishra, **R.P. Tiwari**, Vijay Kumar: “Chelating Agent- Aided Electrokinetic Extraction of Lead from Highly Compressible Clayey Soil, Indian Geotechnical Conference, December 14-17, 2017, Guwahati, Th 05-228 pp 1-4.
68. Sharma Hari Ballabh Dutt, **R.P. Tiwari**, Vijay Kumar: “ Design of Rigid Pavement on Expansive Soil after Stabilisation with Lime” Indian Geotechnical Conference, December 14-17, 2017, Guwahati, Th 09-234 pp 1-4.

**(F) Research Project under taken:**

- Surfactant Enhanced Remediation Techniques for Remediation of Contaminated Soil, MHRD Project of **Rs. 11.00 Lacs** (2004-2007).
- National Technical Manpower Information System, A scheme MHRD funded by AICTE, New Delhi (a Continuous Project , as Project Officer from Feb.,1999 to May, 2005) **Total cost Rs. 60.00 Lacs.**
- Electrokinetic Removal of Toxic Contaminants from Soils Using Reactive Nano-Particle, Department of Science Technology, Government of India, New Delhi, Project of **Rs. 23.5 Lacs** (2007-2015).
- Scrutiny of Project Proposals for the State of Uttar Pradesh under Pradhan Mantri Gram Sadak Yojana (PMGSY) during 5 years (2012-2017) **Total cost: Rs. 37749.00 Lacs.**
- “Development of In-House Expertise on Dam Safety under Dam Rehabilitation and Improvement Project (DRIP)” Central Water Commission, Government of India, New Delhi, Project of **Rs. 461.00 Lacs** (2017-2019).

### **(G) Development of New Post Graduate Programmes**

#### **1. Environmental Geotechnology**

(Approved by AICTE and commenced from 2003)

#### **2. Water Management (Sequential Summer Semester Programme)**

### **(H) Development of New Laboratory Activities:**

1. Rock Mechanics Laboratory.
2. Environmental Geotechnology Laboratory.
3. Advanced Geotechnical Engineering Laboratory.
4. CAD Laboratory
5. Geology Laboratory

### **(I) Major Consultancy Projects Undertaken:**

Provided consultancy services in a tune of **Rs. 4.41 Crores** in last Six years to central government departments, state government departments, semi government organisation and other multi national and private companies, like:

- Lea International Limited, Canada
- BCEOM, France
- UPPCL, Lalitpur, Rasin Earthen Dam Project
- CPWD
- Indian Railways
- MES
- Larsen & Toubro Ltd., India
- HCC Ltd.,
- Oriental Structural Engineers Pvt. Ltd.,
- PMGSY Project.
- NTPC
- UPRES
- UPPWD
- Mukand Ltd., Bombay.
- UPHDB
- UPSEB

- UPRNN
- Meja Urja Nigam Pvt. Limited, etc.
- UP Jal Nigam
- Third Party Inspection & Quality Check of Irrigation Projects of Irrigation Deptt., Uttaranchal
- Third Party Inspection & Quality Check of Road Projects of U.P.P.W.D.
- Third Party Inspection & Quality Check of Maha Kumbh works-2013
- Allahabad Development Authority, Allahabad
- Nagar Nigam. Allahabad

**(II) Conference / Seminar / Workshop Organised:**

- (i) Curriculum Development Workshop on 'Ground Management Remediation & Reclamation of Derelict, contaminated, water logged and saline lands, December 6<sup>th</sup>, 1997.
- (ii) Indian National Conference on Geo-environment, April 9-10, 1998.
- (iii) National Workshop on Environmental Protection through Integrated Waste Management, Oct. 25-30, 1999.
- (iv) National Seminar on "Geotechnical and Environmental Aspects of Managing Municipal Solid Waste, Oct. 30<sup>th</sup>, 1999.
- (v) Organised Seminar on 'Geotechnical Perception of Environmental Challenges' June 29-30, 2001 M.N.R.E.C, Allahabad.
- (vi) Curriculum Development Workshop on Syllabus for a Post Graduate Course in 'Environmental Geotechnology' June 30, 2001, M.N.R.E.C, Allahabad.
- (vii) Organised Indian Geotechnical Conference-2002, 20-22 Dec'02 at MNNIT Allahabad.
- (viii) Organised National Conference on Geotechnics in Environmental Protection, 9-10 April 2005.
- (ix) Curriculum Development Workshop on Syllabus for Under Graduate and Post Graduate Course in "Geotechnical Engineering" April 10, 2005 M.N.N.I.T., Allahabad.
- (x) National Conference on "Earthquake Disaster : Technology and Management" , February 11-12, 2006, MNNIT Allahabad.
- (xi) Sensitisation Workshop for Academicians & Researchers Interested in Submitting Project Proposals to DST, MNNIT, Allahabad, 10<sup>th</sup> April, 2007.

- (xii) Curriculum Development Workshop on Syllabus for Post Graduate Courses in Civil Engineering May 11, 2013 M.N.N.I.T., Allahabad.
- (xiii) Short Term Course on “Modern Construction Materials & Practices” July 17-21, 2013 M.N.N.I.T. Allahabad.
- (xiv) Short Term Course on “Geotechnical Investigations for Urban Planning and Investigations” December 16-20, 2013 M.N.N.I.T. Allahabad.
- (xv) National Conference on “Geo-Environmental Issues and Sustainable Urban Development” October 11-12, 2014, M.N.N.I.T. Allahabad.
- (xvi) Self Financed Course on “ Water & Waste Water Examination” January 27-29, 2015, M.N.N.I.T. Allahabad
- (xvii) Self Financed Course on “ Geotechnical Investigations for Civil Engineering Projects” January 30-February 01, 2015, M.N.N.I.T. Allahabad
- (xviii) Self Financed “ Summer Training Cum Internship Programme in Civil Engineering” June12- July08, 2017.

**Conference / Seminar / Workshop Attended:**

Attended and presented paper in the following Conferences / Seminars / Workshops:

- (i) Indian Geotechnical Conference-1988, Allahabad.
- (ii) Indian Geotechnical Conference-1989, Vishakhapatnam.
- (iii) All India Seminar on “Protection of Fresh Water Bodies from Pollution”, 1992, Varanasi.
- (iv) National Seminar on “Geosynthetics and Reinforced Earth”, 1992, Baroda.
- (v) Indian Geotechnical Conference-1992, Calcutta.
- (vi) International Conference on Soil Mechanics and Foundation Engineering, 1994, New Delhi.
- (vii) Indian Geotechnical Conference, 1994, Warangal.
- (viii) Indian Geotechnical Conference, 1995, Bangalore.
- (ix) Indian Geotechnical Conference, 1997, Baroda.
- (x) Indian Conference on Geo-environment, 1998, Allahabad.
- (xi) Curriculum Development Workshop on “Ground-Management, Remediation & Reclamation of Derelict Contaminated Waterlogged and Saline Lands”, 1998, Allahabad.



- (xii) Workshop on “National Technical Manpower Information System”, 1999, New Delhi.
- (xiii) National Workshop on “Environmental Protection through Integrated Waste Management”, 1999, Allahabad.
- (xiv) National Seminar on “Geotechnical and Environmental Aspects of Managing Municipal Solid Waste”, 1999, Allahabad.
- (xv) Indian Geotechnical Conference, 1999, Calcutta.
- (xvi) Indian Geotechnical Conference, 2000, Bombay.
- (xvii) Indian Geotechnical Conference, 2001, Indore.
- (xviii) Seminar on “Sensitisation Programme on Intellectual Property Rights” September 2002, Allahabad.
- (xix) Indian Geotechnical Conference, 2002, Allahabad.
- (xx) Indian Geotechnical Conference, 2003, Roorkee.
- (xxi) Geosynthetics India-2004, October 27-30, 2004, New Delhi.
- (xxii) Indian Geotechnical Conference, 2004, Warangal.
- (xxiii) Short term programme on “Curriculum Processes”, Feb. 15-17, 2005, Allahabad
- (xxiv) Geotechnics in Environmental Protection (GEN-2005), April 9-10, 2005, Allahabad.
- (xxv) National Seminar Cum Business Meet on Use of Fly Ash in Roads & Embankments, June 5-6, 2005, Allahabad.
- (xxvi) QIP Course on Geoenvironmental and Landfills at IIT Delhi, New Delhi, Nov. 28- Dec. 2, 2005.
- (xxvii) National Conference on Foundations & Retaining Structure (NCFRS) at IIT, Roorkee, 23 – 24 May, 2007.
- (xxviii) Application of Remote Sensing, GIS and GPS in Solid Waste Management and Sustainable Development at AIT, Bangkok, 20-29<sup>th</sup> August, 2007
- (xxix) “Geocongress-2008” ASCE, New Orleans, Louisiana, USA, 9-12<sup>th</sup> March, 2008.
- (xxx) Training on “Laboratory & Field Instruments Manufactured by GDS Instruments”, June 9<sup>th</sup> – 15<sup>th</sup>, 2014 GDS Instruments, Hook, UK.

(xxxix) Exposure Visit for “ Knowledge Exchange in Dam Safety and Management Issues with a focus on Seismic Hazard in Japan”, Japan Water Agency, October 3<sup>rd</sup> -7<sup>th</sup> ,2016, Tokyo, Japan.

(xxxix) “ 3<sup>rd</sup> Indian Conference on Applied Mechanics” July 5<sup>th</sup> – 7<sup>th</sup> , 2017, Allahabad.

(xxxix) “Outcome Based Accreditation for Undergraduate Engineering Programme” Feb. 8<sup>th</sup> & 9<sup>th</sup> , 2018, Sultanpur.

### **Memberships of Professional Societies:**

- (a) Life Member of Indian Geotechnical Society (LM-3224).
- (b) Life member of Indian Society for Technical Education (LM-19092).
- (c) Life member of Indian Society for Rock Mechanics and Tunnelling Technology (LM-528).
- (d) Life member of Indian Society for Construction Materials and Structures (LM-178).
- (e) Life member of Indian Society of Wind Engineering (LM-169).
- (f) Member of International Society for Soil Mechanics and Foundation Engineering.
- (g) Member Indian Road Congress. (OM- 26175)
- (h) Life Member Institute of Engineers (M-131261-2)
- (i) Life Member Institute of Valuers (F-21971)
- (j) Indian Concrete Institute (LM-11981)

### **Specific Experience / Association in the field of Technical Education**

- O.C. Geotechnical Engineering Lab., M.N.N.I.T., Allahabad
- Project Officer, Nodal Centre (NTMIS).
- Warden In-charge, Tagore Hostel, M.N.N.I.T., Allahabad
- Hon. Secretary, Alumni Association, M.N.N.I.T., Allahabad
- Examiner of U.G. and P.G. and M.E. Thesis in several engineering colleges.
- Participated and organised several curriculum development workshops.
- Participated in large number of national conference and seminars and organised four national conferences at MNNIT, Allahabad.

- Expert member in selection committee for U P. Public Service Commission.
- Examination works of U P Public Service Commission, Allahabad.
- Expert Member for Examination Works in UPSC, New Delhi.
- Registrar, K.N.I.T., Sultanpur
- Carried out R& D project from grants received from MHRD and AICTE.
- Honorary Secretary, Indian Geotechnical Society, Allahabad Chapter.
- Convener, Industry Institute Interaction Cell, MNNIT Allahabad.
- Convener, Disaster Mitigation and Management Cell, MNNIT Allahabad.
- Advisor in three Technical Institutions of Uttar Pradesh.
- Expert member of National Board of Accreditation, AICTE, New Delhi
- Expert member of UPTU Academic Excellence Award Committee.
- Technical Expert / Advisor for various Projects of Uttar Pradesh & Uttara Khand.
- Member, State Technical Agency, PMGSY, Uttar Pradesh.
- Expert member in selection committee for Bihar Public Service Commission
- Member, Monitoring Committee for Maha Kumbh-2013 by U.P.Government.
- Executed academic collaboration with Asian Institute of Technology, Thailand, Bangkok.
- Executed academic collaboration with Hong Kong University, Hong Kong.
- Head, Civil Engineering Department, MNNIT Allahabad
- Chairman, Construction Works & Maintenance Division, MNNIT Allahabad
- Dean (Student Welfare), MNNIT Allahabad
- Chief Proctor, MNNIT Allahabad
- Chairman, GIS Cell, MNNIT Allahabad

**Technical Session Chaired:**

- Co-chairman for Technical Session Ground Improvement Techniques at IIT, Roorkee, 23-24 May, 2007.
- Chairman for Technical Session on “Ecology, Environment & Technology” in National Conference on Dimensions of Public Policy & Rural Development at MNNIT Allahabad, 8-9 March, 2014.

**Other Responsibility:**

- Technical Advisor for **Maha Kumbh-2013** appointed by U.P. Government.
- Project In-charge of “Development of In-House Expertise on Dam Safety under Dam Rehabilitation and Improvement Project (DRIP)” Central Water Commission, Government of India, New Delhi, Project of **Rs. 461.00 Lacs**.

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