

RESUME

Dr. Pradeep Kumar

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Date of Birth : 11.04.1964.

Educational Qualification :

- **Ph.D.** (Civil Engineering), 2009, C.S.J.M. University, Kanpur.
- **M.Tech.** (Civil Engineering), 1986, Indian Institute of Technology, Kanpur.
- **B.Tech.** (Civil Engineering), 1984, College of Technology, GBPUA&T, Pantnagar.

Total 28 years - Field (06 Yrs.) and Teaching (22 Yrs.) Experience :

S.No	Name of Organization	Duration	Position / Assignment
1.	C.S.M.R.S., N.Delhi (Min. of Water Res,GOI)	1987- 1990	Res. Asstt. (Engg.) / Geophy.& Geotech. Investigations of major river valley projects
2.	T.H.D.C., Tehri (GOI & UP Govt. Ent.)	1990- 1993	Assistant Engineer – Investigation & Construction of Coffor Dam.
3.	P.G.C.I.L., N. Delhi (Navratna PSU)	1993	Asstt. Engineer (Design)
4.	H.B.T.I. Kanpur	1993- 1998	Lecturer – Civil Engg.
5.	H.B.T.I. Kanpur	1998- 2003	Senior Lecturer – Civil Engg.
6.	H.B.T.I. Kanpur	2003-Till Date	Asstt. Professor / Associate Professor

Areas of Research & Consultancy Activities :

Concrete Technology, Building Materials, Transportation Engineering, Waste Utilization,
Engineering Geology & Geo-environmental Engineering.

Academic Assignments (Member / Examiner / Expert) :

- Member, Editorial Board, VSRD International Journal.
- Member, Editorial Board, International Journal of Advances in Engg. Research.
- Member, Technical Review Board, International Journal of Info.& Futuristic Research.
- U.P.Technical University, Lucknow.
- Mahamaya Technical University, Noida.
- G.B.Technical University, Lucknow.
- Board Of Technical Education,U.P., Lucknow.
- I.S.M. University, Dhanbad.
- Rajiv Gandhi Pravidhik Vishwavidyalay., Bhopal.
- C.S.A. University of Ag. & Tech., Kanpur
- C.S.J.M. University, Kanpur.
- Integral University, Lucknow.
- B.B.D. University, Lucknow.
- Pacific University, Udaipur
- S.V.University, Meerut.
- Bhagwant University, Ajmer.

Research Projects Undertaken :

- Preparation of Digital Database of different soils of Kanpur and surrounding districts using Geographic Information System, sponsored by **UP Council of Science & Technology**, Lucknow.

- Development and Performance Evaluation of a new Cementitious Binder derived from industrial wastes, sponsored by **All India Council for Technical Education**, New Delhi.

Academic Projects Guided :

- **Ph.D.** - 03 Completed, 01 submitted.
- **M.Tech.**- 11 Completed (04 Structures, 07 Env. Engg.).
- **B.Tech.**- 32 completed.
- **A.M.I.E.**- 03 completed.

Papers Published in the International / National Conferences :

- More than Forty Five papers published in the International and National Conference Proceedings / Journals.

Books Edited :

- Proceedings of Conference on “Advances in Civil Engg.-Perspective of Developing Countries”, HBTI Kanpur, 2003.
- Proceedings of Conference on “Advances in Materials and Techniques in construction”, Instt. of Engrs. (I), I.I.T. Kanpur, 2010.
- Technical Notes for Training of Engineers of RED, U.P, H.B.T.I. Kanpur.

Organization of Conference / Seminar / Workshop / Short Term Course / Lectures :

- Convened **Five** National Conferences.
- Conducted **Four** All India workshops.
- Organized **Six** Training Programmes for Field Engineers.
- Delivered **Six** Expert Lectures at Instt.of Engrs., Engg. Colleges & IRDT.

Memberships of Professional Bodies:

- **Fellow** – Institution of Engineers (India)
- Life Member - Indian Society of Rock Mechanics.
- Life Member – Indian Geotechnical Society.
- Member – Indian Roads Congress.
- Life Member – Indian Society of Remote Sensing.

Administrative Positions held :

- Expert- Public Service Commission, Uttar Pradesh
- Expert- Public Service Commission, Uttarakhand
- **Member-State Technical Agency, PMGSY (M.O.R.D.), U.P.**
- **State Level Monitor, BRGF U.P. (Min. of Panchayati Raj, GOI).**
- Member-Inspection Committee, A.I.C.T.E., N.Delhi.
- **Nodal Officer- Govt. Engg. College, Mainpuri, U.P.**
- Dy. Nodal Officer, Dr. B.R. Ambedkar Engg. College of I.T., Bijnor.
- **Chairman-Institution of Engrs.(I), Kanpur Centre, 2012-14.**
- Hony. Secretary-Institution of Engrs.(I), Kanpur Centre, 2006-08.
- Member- Institution of Engrs.(I), U.P.State Centre, Lucknow
- Coordinator - Indo-Russian Working Group, Tehri.
- Nodal Officer- SEE-UPTU, Lucknow.
- Officer Incharge- Maintenance, H.B.T.I. Kanpur.

Consultancy Projects undertaken :

- Imparted consultancy to the tune of Rs. 10 lacs per annum for more than fifty projects of P.M.G.S.Y., N.H.A.I., I.O.C.L., B.P.C.L., P.W.D., R.E.S., K.D.A., Nagar Nigam etc for Highway Pavement Design, Concrete Mix Design, Soil Investigation, Material Characterization and Land Survey for last fifteen years.

(Dr. Pradeep Kumar)

ANNEXURE-I

List of R & D Activities :

Organization of Conference / Seminar / Workshop / Short Term Course

1. Conferences :

- (i) "Advances in Civil Engineering : Perspectives of Developing Countries"- H.B.T.I. Kanpur, 2003.
- (ii) "Futuristic Textiles", Institution of Engineers (I), Kanpur Local Centre- 2008.
- (iii) "Airport Infra Structures, "Institution of Engineers (I), Kanpur Local Centre- 2008.
- (iv) "Remediation of Environmental Pollution", H.B.T.I. Kanpur, 2009.
- (v) " Advance in Materials & Techniques in Construction", IIT Kanpur 2010.
- (vi) "Latest Innovations and Challenges in Civil Engineering", PSIT COE, Kanpur, 2014.

2. Workshops :

- (i) Workshop on Cement Technologies, H.B.T.I. Kanpur, 2004.
- (ii) Workshop on Highway Engineering, H.B.T.I. Kanpur, 2007.
- (iii) Workshop on Engineering Materials, H.B.T.I. Kanpur, 2008.
- (iv) Workshop on Disaster Management, H.B.T.I. Kanpur, 2010.

3. Training Programmes :

- (i) S.T.T.P. for Working Engineers of Rural Engg. Services, Govt. of U.P. under Pradhan Mantri Gramin Sadak Yojna (PMGSY), March 2002.
- (ii) S.T.T.P. for Working Engineers of Rural Engg. Services, Govt. of U.P. under Pradhan Mantri Gramin Sadak Yojna (PMGSY), April 2004.
- (iii) 03 no. S.T.T.P. for Working Engineers of Rural Engg. Services, Govt. of U.P. under Pradhan Mantri Gramin Sadak Yojna (PMGSY), July 2011.
- (iv) 02 no. S.T.T.P. for Working Engineers of Rural Engg. Services, Govt. of U.P. under Pradhan Mantri Gramin Sadak Yojna (PMGSY), 2013-14.
- (v) 02 no. S.T.T.P. for Working Engineers of Rural Engg. Services, Govt. of U.P. under Pradhan Mantri Gramin Sadak Yojna (PMGSY), 2014-15.

4. M.Tech. / Ph.D. Guided :

M. Tech.			
Sl.No.	Name of Student	Broad Area of Thesis	Year
1	Aqbal Ahmad	Comparative Intze Tank Design	2009
2	V.P. Singh	Standard Deviation Development	2011
3	A. Pughazhenthly	Effect of Agg. Size on Mix Design	2011
4	Atul Kumar	Effect of Fire on Concrete	2012
5	Garima Srivastava	Water Quality Index	2013
6	Nidhi Dwivedi	Air Quality Index	2013
7	Suyog Gupta	Real Time Solid Waste Management	2014
8	Shubham Rathi	Energy Recovery from Solid Waste	2014
9	Anurag Upadhyay	Exhaust Emission Analysis using Delphi	2015
Ph.D.			
1.	S.K Porwal	F.E.M. Analysis for Stress & Stiffness	2012
2.	Rashmi Ashtt	City Development Planning of Kanpur	2012
3.	A.K. Gupta	Ground Water Pollution Analysis	2014
4.	Nakul Gupta	Strength & Durability Study of Concrete	2016

ANNEXURE-II

List of Publications :

Papers Published in the International / National Conference Proceedings / Journals:

(A) International Conferences :

1. P.Kumar and U.K.Singhal, (1999), "Immobilization of Electroplating wastes through Solidification/Stabilization", Proc., Int. Con. On Environmental challenges for the new millennium, Jamia Millia Islamia, N.Delhi, (India).
2. P.Kumar and M. Tandon, (2000), "State of the Art on E.I.A. in Developing Countries", Proc., World Congress On Environmental challenges in the new millennium, Institution of Engineers(I), Calcutta, (India).
3. P. Kumar, (2006), "Disaster Management Plans for major cities- A Case study of U.P.", Proc., World Congress of Construction Industry Development Council, N.Delhi, India.
4. P. Kumar and P. Kutti, (2008), "Significance of GIT in Soil Identification", Proc., Int. Conf. on Geomechanics, Goa, India.
5. P. Kumar, (2009), "Environmental Risk Assessment: A Futuristic Approach", Proc., Int. Conf. on Recent Trends in Management, Technology and Environment, Muzaffarnagar, U.P., India.
6. P. Kumar and S. Misra, (2011), "Comparative Analytical Evaluation of Framed Structures with Varying Geometry & EQ Zones", Proc., Int. Conf. on Recent Trends in Engg., Tech. & Management, BIET, Jhansi, India.
7. P. Kumar and B. Kumar (2013), "Green Concrete: An Eco-Friendly Sustainable Building Material", Int. Conf. on Emerging Trends in Engg. & Tech., T.M.U. Moradabad, April 2013.
8. P. Kumar and A. Tripathi (2015), "Energy Recovery from Municipal Solid waste", Int. Conference of Civil Engg. (ASCE section), **VIT, Vellore**, March 2015.
9. S. Gupta and P. Kumar (2015), "A Real Time Solid Waste Monitoring & Management System", 3rd GSTF Annual International Conference (ACE 2015), **Singapore**, April 2015.

(B) National conferences:

1. P. Kumar and J.K. Singh, (1999), "Impact of science & Technology on Quality of Life", Proc., National Seminar on Human Values & Technological progress, H.B.T.I. Kanpur, U.P..
2. P.Kumar and A.K. Verma,(1999),"Environmental Friendly Alternatives for Sludge Disposal", Proc., Indian Geotechnical Society Conference on Geotechnical and Environmental Aspects of managing M.S.W., M.N.R.E.C., Allahabad, U.P..
3. P.Kumar and A.K. Patel,(1999),"Environmental Impact Assessment of Tehri Dam Project : A Case Study", Proc., National Seminar on Environmental hazards and Sustainable Development, R.E.C., Hamirpur, H.P..
4. P. Kumar and S.K. Agrawal, (1999), "use of Plastic waste as Filler in Concrete", Proc., National Seminar on Packaging Technology: Strategies for 21st century, H.B.T.I. Kanpur, U.P..
5. P. Kumar and S. Kumar, (2000), "Application of polymer fibres in cement Concrete", Proc., National Symposium on Environmental challenges for the new millennium, H.B.T.I. Kanpur,
6. P. Kumar and S. Kumar, (2003), "FaL-G : Its properties in Fresh and Hardened states", Proc., National conference on Advances in Civil Engg. : Perspectives of developing countries, H.B.T.I. Kanpur, U.P..
7. P.Kumar and M.Jafri , (2003), "FaL-G : A Low Cost Housing material for Tomorrow", Proc., Indian Engineering Congress, Institution of Engineers(I), Lucknow, U.P..
8. P.Kumar and H.S.Niranjan, (2004), "Energy Behaviour in Buildings", Proc., National Seminar on Advances in Building construction and Rehabilitation Technologies, I.I.T. Kanpur, U.P.
9. P.Kumar and H.S.Niranjan, (2005), "Socio-Economic Considerations of Rural Roads- A Case study", Proc., Mid Term Seminar of C.I.D.C., N.Delhi.
10. P.Kumar and N. Kumar, (2005),"Cr(VI) Removal by Microorganisms", Proc. of N.C.E.E.E., I.T. BHU, Varanasi, U.P.
11. P. Kumar, (2006), "Modified Binders are here to stay", Proc. of Mid Term Seminar of Indian Roads Congress, Agra, U.P..
12. P. Kumar, S. Pawar and P. Kutti, (2006), "Rain Water Harnessing and Harvesting", Proc., I.E.(I) Seminar, Nagpur, Maharashtra.

13. P.Kumar and H.S.Niranjan, (2007), "Ground Improvement Techniques for Earthquake prone areas", Seminar on Real Estate, I.E.(I), U.P. State centre, Lucknow, U.P..
14. P. Kumar and S. Kumar, (2007), "I.T. based Approach for approval of High Rise buildings", Proc., Seminar on Real Estate, I.E.(I), U.P. State centre, Lucknow, U.P..
15. P. Kumar and P. Kutti, (2007), "Role of GIT in Soil Identification", Proc., Bhartiya Vigyan Sammelan, Bhopal, M.P.
16. P. Kumar (2007), "Design Consideration for Energy efficient Buildings", Seminar on Energy Efficient Built Environment, I.E.(I), U.P. State centre, Lucknow, U.P.
17. P. Kumar, (2007), "I.T. based Approach for approval of High Rise buildings", Seminar on Real Estate, I.E.(I), U.P. State centre, Lucknow, U.P.
18. P. Kumar, (2009), "FaL-G : An Asset for Low Cost Housing", Proc., Mid Term Seminar, I.E.(I), U.P. State centre, Lucknow, U.P.
19. P. Kumar and S. Kumar, (2010), "FaL-G : Its properties in Fresh and Hardened states", Proc., National conference on Advances in Materials & Techniques in Construction, I.I.T. Kanpur, U.P.
20. P. Kumar and A. Pugazhenthly, (2010), "FaL-G : Its properties in Fresh and Hardened states", Proc., National conference on Advances in Materials & Techniques in Construction, I.I.T. Kanpur, U.P.
21. P. Kumar and N. Gupta, (2014), "Non Destructive Assessment of Concrete Structures", Proc., All India Seminar on 'Latest Innovations and Challenges in Civil Engineering', PSIT Kanpur.

(C) International Journals :

1. P. Kumar and S. Porwal, (2011), " An Analytical Approach for Stiffness Analysis of a structural Member using Finite Element Method ", VSRD International Journal of Mech. Engg., VSRD Publications, Gurgaon, India, Vol. 1(2), pp 57-64 .
2. S. Porwal and P. Kumar (2011), " Stress Analysis of a Structural member using Finite Element Method ", VSRD International Journal of Mech. Engg., VSRD Publications, Gurgaon, India, Vol. 1(3), pp 104-109.
3. Rashmi Ashtt and P. Kumar (2012), " Sustainable Water Resources for the Future generations: A Case Study of Kanpur ", International Journal of Research in Science and Technology, Vol. 1, Issue 6, ISSN:2249-0604 , India.
4. A.K. Singh and P. Kumar, (2013), " Merits of Design Mix over Nominal Mix in practice at Construction sites ", VSRD International Journal of Mech., Civil & Auto Engg., e-ISSN: 2249-8303, p-ISSN: 2319-2208, V-III, Issue-VIII, Aug. 2013.
5. H.P. Pandey and P. Kumar, (2013), " Training Need Analysis for manpower Employed at Sites ", VSRD International Journal of Mech., Civil & Auto Engg., e-ISSN: 2249-8303, p-ISSN: 2319-2208, V-III, Issue-VIII, Aug. 2013.
6. V.P. Tripathi and P. Kumar , (2013), " GGBF in Cement Indusrty: A Sustainable Solution ", VSRD International Journal of Mech., Civil & Auto Engg., e-ISSN: 2249-8303, p-ISSN: 2319-2208, V-III, Issue-VIII, Aug. 2013, pp 311-314.
7. B. Kumar and P. Kumar, (2013), " Performance Evaluation of Cement Mortar with Stone dust as Fine Aggregates ", VSRD International Journal of Mech., Civil & Auto Engg., e-ISSN: 2249-8303, p-ISSN: 2319-2208, V-III, Issue-XI-XII, Nov.-Dec. 2013.
8. S.V. Rao and P. Kumar, (2013), "FaL-G Bricks : A Long lasting Low Cost Housing Materials", VSRD International Journal of Mech., Civil & Auto Engg., e-ISSN: 2249-8303, p-ISSN: 2319-2208, V-III, Issue-XI-XII, Nov.-Dec. 2013..
9. M.M. Jafri and P.Kumar, (2013), " An Analysis for Understanding of Utilization and Characteristics of Power Plant Waste ", VSRD International Journal of Mech., Civil & Auto Engg., e-ISSN: 2249-8303, p-ISSN: 2319-2208, V-III, Issue-XI-XII, Nov.-Dec. 2013.
10. M.M. Jafri and P.Kumar, (2013), " A Feasibility Study in Low Volume Road Embankment Construction using Fly Ash. ", VSRD International Journal of Mech., Civil & Auto Engg., e-ISSN: 2249-8303, p-ISSN: 2319-2208, V-III, Issue-XI-XII, Nov.-Dec. 2013.
11. S.V. Rao and P.Kumar, (2014), " Application of FaL-G Hollow Masonry Blocks in Building Construction ", International Journal of Engg. Tech. Management and Applied Sciences, Academic Science Publications, ISSN 2349-4476, V-2, Issue-6, Nov. 2014.

(D) National Journals :

1. P. Kumar and N. Kumar, (2004), "Energy Conservation Possibilities in Academic Institutions : A Case Study", Journal of Indian Building Congress, Vol. 11, No. 01, , N.Delhi.

2. P. Kumar and S. Kumar, (2010), "FaL-G : An Extravagant Ignorance in Low Cost Housing", Journal of Indian Building Congress, Vol. 17, No. 01, 2010, N.Delhi.
3. P. Kumar and A. Pugazhenti, (2011), "Bending Behaviour of Cement Mortar with Reinforced skinny Beam and Crushed Stone Dust as Fine Aggregates", SHODH, a Journal of Management, Technology & Social Sciences (ISSN 2249-152X), Kanpur, India, Vol.1, Issue1, July 2011, pp 73-79.
4. P.Kumar and A. Srivastav, (2011), "Green Concrete: An Eco-Friendly Sustainable Building Material", Journal of Indian Building Congress, Vol. 18, No. 02, ,N.Delhi.
5. P. Kumar and V. Misra, (2012), "Non Engineered Metal Buildings: A new Trend in Construction Industry", Journal of Indian Building Congress, Vol. 19, No. 02, ,Kolkata.
6. P. Kumar and Rashmi Ashtt, (2013), "MRTTS Project of Delhi-Gurgaon Metro Corridor", Journal of Indian Building Congress, Vol. 20, No. 01,,N. Delhi.
7. P. Kumar and Kalpna Devi, (2013), "Innovative Earthquake Resistant Technologies", Journal of Indian Building Congress, Vol. 20, No. 02, ,Kolkata. (**Best Paper Award**)

ANNEXURE-III

List of Short Term Courses (S.T.C.) Attended :

Sl. No.	Name of Course	Conducted by	Period of Course
1	QIP STC on Remote Sensing	I.I.T. Kanpur	June 5-12,1995
2	ISTE Summer school on Rural Envnt	I.I.T. Kharagpur	Jun.19-Jul.2,1995
3	QIP STC on Remote Sensing	I.I.T. Kanpur	July 1-13,1996
4	QIP STC on Concrete	I.I.T. Kanpur	Dec 7-12,1996
5	ISTE Summer school on Soil Mechanics	T.I.E.T. Patiala	June 10-21,1997
6	AICTE S C on Marine Geotechnology	S.V. Uni., Tirupati	June 21-30,1997
7	AICTE S. C. on Energy Efficient Buildings	M.M.M.E.C., Gkp	Mar. 16-21,1998
8	QIP STC on Experimental Geotechnics	I.I.T. Bombay	June 15-26,1998
9	QIP STC on Ground Water Assessment	I.I.T. Delhi	July 13-17,1998
10	QIP STC on Air Quality	I.I.T. Kanpur	July 05-09,1999
11	QIP STC on Concrete	I.I.T. Kanpur	July 17-22,2002
12	QIP STC on Pavement & Traffic Engg.	I.I.T. Kanpur	Mar. 28-31,2004
13	NPEEE STC on Earthquake Engg.	I.I.Sc. Bangalore	Sept. 06-10,2004
14	N.I.T.T.T STC on Int. Property Rights	H.B.T.I. Kanpur	Sept. 25-30,2004
15	NPEEE STC on Earthquake Engg.	I.I.T. Roorkee	May 26-31,2006
16	QIP STC on Pavement Design	G.E.C. Ludhiana	June 02-06 2008
17	QIP STC on Urban Transport Planning	S.V.N.I.T. Surat	Oct. 05-09,2009
18	QIP STC on Barrier Free Environment	I.I.T. Roorkee	July 01-05,2011
19	Scrutiny of DPRs of PMGSY Roads	I.A.H.E., Noida	May 20-26,2012
20	TEQIP-Rock Engg. for Infra Development	I.I.T. Guwahati	April 4-8, 2016
21	TEQIP- Structural Fire Engg.	I.I.T. Hyderabad	July 11-22, 2016

(Pradeep Kumar)