

Curriculum-Vitae

Name: Brajkishor Prasad

Father's Name: Shri Bhagwat Prasad

Present Position: Associate Professor

E-Mail: bkkpp@yahoo.co.in

DATE OF BIRTH: 30-10-1963

Present Address: Department of Civil Engineering
National Institute of Technology Jamshedpur,
Jamshedpur-831 014, Jharkhand

EDUCATIONAL QUALIFICATION:

Sl. No.	Certificate / Degree	Board / Institute	Year of Passing	Class / Division
1.	Ph.D.	RGPV Bhopal	2009	-
2.	M Sc. Engg. (Structural Engg)	R.I.T. Jamshedpur	2000	Ist
3.	B.Sc. Engg. (Civil Engg.)	M.I.T. Muzaffarpur	1989	68.94 %

Ph.D. Thesis Topic: Behaviour of Latex Modified Concrete under Cyclic Loading

M.Tech. Thesis Topic: Properties of Fiber Reinforced Concrete with Over-burnt Coarse Aggregate

Research Interests:

- Construction Materials & Technology
- Fiber reinforced concrete
- Polymer Modified Concrete
- Structures under cyclic loading
- Structural health monitoring
- Strengthening of Structures
- Concrete technology
- Pre-stressed Concrete Design
- Development of cementitious materials
- Utilization of waste material
- Durability of structures

RESEARCH AWARDS/FELLOWSHIPS RECEIVED:

- (i) Scholarship during Ph.D. under QIP Scheme at SGSITS Indore

Ph. D. Supervised (With Full Details): Nil

CONFERENCE/WORKSHOP ORGANISED:

- GIAN Course Coordinator (II), Sponsored by MHRD, GIAN course on “Analysis and Design of Structures in Fire (ADSF-2017), NIT Jamshedpur, October 9 – October 13, 2017, Number of participants – 58.

MEMBER OF EDITORIAL BOARD OF THE JOURNALS: Nil

RESEARCH PUBLICATIONS (With Full Details):

INTERNATIONAL REFERRED SCI/SCOPOUS JOURNALS:

I. International Journals: SCI/ SCOPOUS - 02

1. Virendra Kumar, Amit Kumar, B. K. Prasad “Mechanical behavior of non-silicate based alkali-activated ground granulated blast furnace slag”, Construction and Building Materials, Vol. 198, Page- 494-500, 2019
2. B. K. Prasad, U. Gupta, U. B. Choubey, Behaviour of Latex Modified Concrete under cyclic loading, Construction Materials, Vol. 163, 27-34, 2010.

II. National Journals: SCI/ SCOPOUS – 04

1. B. K. Prasad “Characteristics of LMRC beams under monotonic and cyclic loading: An experimental study” Journal of Institution of Engineers (India): Series A, 2250-2149, 2019.
2. B K Prasad, “Flexural Fatigue Response of LMRC Beams under Cyclic Loading”, Journal of Structural Engineering, Chennai, accepted and to be published in the month of September 2019.
3. B. K. Prasad, Uttamasha Gupta and U B Choubey, Slow cycle fatigue response of Latex modified concrete in compression, Journal of Structural Engineering, Vol. 35 No. 3, 216-223, 2008.
4. U B Choubey, Uttamasha Gupta and B. K. Prasad, Cyclic Response of Latex modified Reinforced concrete beams, Journal of Structural Engineering, Vol. 33 No. 5, 0970-0137, pg-407-412, 2007.

III. Book Chapters:-

1. Kumar, V., Prasad, B., Chakraborty, S., Singh, P., Murthy, Y. R., & Kapure, G. (2018). Experimental Investigation on Compressive Strength of LD Slag Aggregate Concrete. In *Sustainable Construction and Building Materials* (pp. 485-493). Springer, Singapore.

INTERNATIONAL/NATIONAL CONFERENCES:

i) International Conferences: 08

- “Utilisation of LD slag aggregate in construction industry” B. K. Prasad, V. Kumar and P. Singh, UKIERI Concrete Congress, NIT Jalandhar, 5-8 March 2019.

- “Utilization of ferrochrome slag as fine aggregate”, V. Kumar, B.K Prasad, and D Barnwal , 15th NCB International seminar on cement, concrete and building materials, 05-08 December 2017 pg.164
- “Performance of ground granulated blast furnace slag as binder with non silicate based activator”, V. Kumar, B.K Prasad, A.Kumar, and N. Ramkumar, 15th NCB International seminar on cement, concrete and building materials, 05-08 December 2017, pg. 126.
- **B. K. Prasad**, “Water Absorption Capacity of Latex Modified Concrete”, 7th **International Structural Engineering Conference (ISEC - 7)**, June 18 -23, 2013, Honolulu (USA), Vol. II, pp. 1085-1090.
- **B. K. Prasad**, Uttamasha Gupta and U. B. Choubey, “Measurement of attenuation for photons and removal cross-section for neutrons in L M C, 6th **International Structural Engineering Conference (ISEC - 6)**, June 22 -26, 2011, Zurich, Switzerland.
- B. K. Prasad, Uttamasha Gupta and U. B. Choubey, “Flexural Fatigue Response of Latex Modified Reinforced Concrete Beams”, 4th International Structural Engineering Conference (ISEC - 4), Vol. 1, pp. 293-299, Melbourne, Australia.
- B. K. Prasad, Uttamasha Gupta and U. B. Choubey, “Performance of Latex Modified Reinforced Concrete Beams under Cyclic Loading”, 5th Asian Symposium on Polymers in Concrete, September 11 -12, 2006, SERC, Chennai, India, pp 213-222.
- Prasad, B. K., Gupta Uttamasha and Choubey U. B. “Comparative Study of Latex Modified Portland Cement Concrete”, Proceedings of 2nd National Conference on Advances in Materials and Mechanics of Concrete Structures (NCAMMCS), 12-13 August, 2005, I. I. T. Madras, pp. 42-49.
- Prasad, B. K., Gupta Uttamasha and Choubey U. B. “Comparative Study of Latex Modified Portland Cement Concrete”, Proceedings of 2nd National Conference on Advances in Materials and Mechanics of Concrete Structures (NCAMMCS), 12-13 August, 2005, I. I. T. Madras, pp. 42-49.

ii) National Conferences/Seminars: 03

- Prasad, B. K., Ganesan S., and Singh P., “Mechanical behavior of polymer concrete and ordinary cement concrete on elevated temperatures- A comparative study” Recent advances in Civil Engineering, NIT Patna, 6-7 June 2019.
- Prasad, B. K., Patel A. and Singh P, “Mechanical properties of fiber reinforced self compacting concrete” Recent advances in Civil Engineering, NIT Patna, 6-7 June 2019.
- Prasad, B. K., Gupta Uttamasha and Choubey U. B. “Comparative Study of Latex Modified Portland Cement Concrete”, Proceedings of 2nd National Conference on Advances in Materials and Mechanics of Concrete Structures (NCAMMCS), 12-13 August, 2005, I. I. T. Madras, pp. 42-49.

RESEARCH PROJECTS/CONSULTANCY PROJECTS:

i) Sponsored Research Projects

- Research Project on Feasibility Study for Use of Ferrochrome Slag in Construction/Road sponsored by R & D Division, Tata Steel Ltd. Jamshedpur, Aug. 2016 to Nov. 2017, (13.39 Lacs)
- Research Project on Feasibility studies on LD Slag as Coarse, Fine Aggregates and Cementitious Materials in Construction sponsored by R & D Division, Tata Steel Ltd. Jamshedpur, Dec. 2017 to Dec. 2018, (26.51 Lacs)

ii) Industrial Projects/ Consultancy

- Design Mix of Concrete M10, M15, M20, M30, M35 & M40 for construction projects.
- Mix Design of Concrete, M/s Assistant Engineer NIT, Project Sub-Division III, CPWD JSR
- Proof checking of Rail Bridge at KM 8.796 in between MatakharSarasaJamalpur station in connection with new Rail line Project, M/S Shamvwi Consultant, 314, Jagat, Patna
- Review of Design & Drawing of 180 M long Barricating Wall of height 17.5 above the RCC Column, M/s J. Majumdar & Associates, Kolkata
- Proof checking of ROB no 209 at ch 91/330 in connection with Koderma – Giridih new rail line project, M/S Emak Consulting Engineers Pvt Ltd., Ranchi
- Proof checking of ROB at Ranchi, M/s Project Director, JUIDCO Ltd
- Proof checking of Railway Bridge, M/S Emak Consulting Engineers Pvt Ltd., Ranchi
- Improvement works of Chaibasa-Kandra-Chowka Road in Jharkhand for Core conducting of Structures, M/s GKC Project Ltd, HITEC City, Hyderabad
- Vetting of Design and drawing of WWTP for Tata Steel Jamshedpur , M/s Bhagwat Engineering, New Kalimati, JSR
- Consulting for proof-checking of design of 2-Lane via-duct and reinforced earth work at chakradharpur, Jharkhand, M/s Mr. Surana, Triveni Enterprises, 3/6, H.S.Tower, Bistupur, Jamshedpur
- Proof checking of the design & drawing of Bridges works of Bhimsen Jhansi (206 Kms) route of Jhansi Division of NCR in UP, M/s Skylark, Designer & Engineers Pvt.
- Proof checking of Railway Bridges, M/S Emak Consulting Engineers Pvt Ltd., Ranchi
- Proof checking of Rail substructure(Pier & abutment), M/S Shamvwi Consultant, 314, Jagat, Patna
- Proof checking of HPCL Building at Barauni, M/s Ram Kripal Singh Construction Pvt., Ranchi
- Proof checking of ROB, M/S Emak Consulting Engineers Pvt Ltd., Ranchi
- Proof checking of Railway substructure(Pier & abutment), M/S Shamvwi Consultant, 314, Jagat, Patna
- Mix Design of Concrete M10, M15, M20, M25 & M30 for construction of Gajiaya Barrage, M/s L & T Construction
- NDT for assessment of the strength of the strength of floor slab & intake well for khunti well for khunti water supply scheme, D.K.Singh, Project Director (Technical), JUIDCO Ltd, Ranchi
- Assessment of R & D Building condition through NDT & Scanning of RCC roof slab at Tata steel, Jamshedpur, Chief, R & D Scientific Services , R & D Building, Tata Steel, Jamshedpur
- NDT of Board Head Quarter Building Ranchi, Jharkhand, Chief Engineer, State Housing Board, Jharkhand, Ranchi.
- Concrete Core Testing for Tata Project Ltd., Capstone Consultants Pvt. Ltd, Mumbai
- NDT for Swtchyard RCC Road at 220 KV at 400/220KV ChaibasaSub station Jharkhand, Mr. D. Pandey, Sr. Electrical Engineer, 400/220KV Chaibasa Sub station, Jharkhand
- Ranchi Urban Water Supply Scheme under JNNURM-Estimate of reinforcement through scanning work of RCC beams and columns, M/s L & T Ltd, Water & Effluent Treatment, Ranchi.
- Proof checking of the Design & Drawing of 20 nos Major Bridge (Br. No 26,29,31,32,40, 63, 64,,66,92,97,100,104,123,140,146,165,166,167,168,169) in connect in with the proposed doubling of existing railway line between Kiul-Gaya 124.304 km long of East Central Railway, M/S Emak Consulting Engineers Pvt Ltd., Ranchi

- Proof checking of the Design & Drawing of 162 nos Minor Bridges in connection with the proposed doubling of existing railway line between Kiul-Gaya 124.304 km long of East Central Railway, M/S Emak Consulting Engineers Pvt Ltd., Ranchi
- Vetting of Foundation design, D.K.Singh, Project Director (Technical), JUIDCO Ltd, Ranchi
- IVA Work for Chhota Govindpur & Baghera Piped Water Supply Schemes (MVS) Executive Engineer-cum-Member Secretary Neer Nirmal Pariyojana, D.W. & S. Division Jamshedpur, DPMU, East Singhbhum

TEACHING EXPERIENCE:

Designation	Employer	Period
Associate Professor	BOG, N.I.T. Jamshedpur	06-06-2009 to continuing
Lecturer (Selection Grade)	BOG, N.I.T. Jamshedpur	06-06-2006 to 05-06-2009
Lecturer (Senior Scale)	BOG, N.I.T. Jamshedpur	06-06-2001 to 05-06-2006
Lecturer	BOG, R.I.T. Jamshedpur	06-06-1996 to 05-06-2001

AWARDS, HONOURS & RECOGNITIONS:

MEMBER OF PROFESSIONAL ACADEMIC BODIES:

The Institution of Engineers (India): Fellow (A/ F), AM 0744959

The Institution of Engineers (India): Chartered Engineer (India) (AM 0744959)

Indian Society for Technical Education (ISTE): LM 28575

American Concrete Institute (India): India Chapter

REVIEWER OF INTERNATIONAL JOURNALS AND BOOKS: Nil

INVITED TALKS/SEMINARS GIVEN:

Any Other Information:

i) Visits Abroad (Foreign Universities):

- University of Dundee, Scotland, U.K. during 5-7 July 2005 to attend and present research paper in 6th International Congress at University.
- NCRE Laboratory at Taiwan (ROC) during 20-24 October, 2008 to attend International Training Program for Seismic Design of Structures 2008 hosted by National Center for Research on Earthquake Engineering sponsored by National Science Council.
- ETH, Zurich University, Switzerland during 6-8 June 2012 to attend and present research paper in 7th International Conference on Structures in Fire-SIF' 2012.

ii) STC/Training Programme attended:

- Training Programme on “Advances in Concrete Technology covering use of Admixture, Self Compacting, Concrete and High Performance Concrete”, 23 – 25 May 2017
- Nation workshop on “ NBC 2016 & Recently Revised Seismic Codes – Impact on Structural Design, Construction & Safety of Buildings”, 27 – 28 June 2017, New Delhi
- Short Term GIAN course on “ Structural Behaviour and Design in Extreme Thermal Conditions Including Fire Effects”, 11 – 22 July 2016, IIT Hyderabad
- Training Programme on “Understanding Earthquake Behaviour of Buildings”, 21 -26 May 2016, VNIT Nagpur
- Training Programme on “Behaviour Buildings Characterization and Testing”, 1-5 June 2015, MNIT Jaipur
- Short Term course on “International Training Program for Seismic Design of Structures 2008”, October 20-24, 2008, Tiawan, Republic of China.
- Short Term course on “Applied Numerical Methods”, 07.7.2008- 11.7.2008, I.I.T., Roorkee
- Training Programme on ABAQUS Software, 19-23 May 2008, New Delhi
- Short Term course on “Seismic Reliability and Life Assessment of Structures”, 12 Mar 2007, I.I.T. Kharagpur,
- Short Term course on “Programming and Data Structures”, 02 Jan - 08 Jan 2007, N.I.T., Jamshedpur
- Short Term course on “Numerical Methods”, 26 Dec - 31 Dec 2006, N.I.T., Jamshedpur
- Short Term course on “Structural Dynamics-Applications to Earthquake Engineering”, 03 July - 14 July 2006, I.I.T., Bombay
- Short Term course on “Seismic Design of Reinforced Concrete Buildings”, 16 May - 21 May 2005, I.I.T., Roorkee,
- Short Course on “Seismic Design of Bridges”, 22 Nov - 26 Nov 2004, I.I.T., Kanpur
- Short Course on “Seismic Design of steel Structures”, 27 Sept.2004 - 01Oct. 2004, I.I.T., Kanpur
- Short Term Training Course “Seismic Retrofit of Multistoreyed Reinforced Concrete Buildings”, 28 June - 3 July 2004, I.I.T. Madras
- Short Term Training Course “Seismic Resistance of Masonry Structures” , 21 June - 26 June 2004, I.I.T. Madras
- Short Term Training Course “Structural Dynamics & Seismic Design”, 14 June - 19 June 2004, I.I.T. Madras
- Short Course on “Seismic Design of Reinforced Concrete Buildings”, 28May to 1 June, 2001, I.I.T., Kanpur
- Short Term course on “Teacher’s Role in Engineering Education”, 25 Dec - 13 Jan 2001, R.I.T. Jamshedpur
- Short Term course on “Recent Advantage in Chemical, Electrochemical and Nuclear Energy System”, 21 Oct - 31 Oct 1999, PES College of Engg. Mandya, Karnataka
- Short Term course on “Recent Advantage in Industrial Management”, 28 Dec - 8 Jan 1999, N.I.T., Jalandhar

Ongoing Ph. D. Projects:

- 1. Mr. Amit Kumar (2015) “Behaviour of Phosphate Activated Ground Granulated Blast Furnace Slag as a Clinker Free Binder”.**
- 2. Mr. Prince Singh (2016) “Characterization and performance evaluation of LD slag aggregate concrete”.**