



**Dr. VVS Surya Kumar Dadi,
Ph.D. IITR**

School	: School of Studies of Engineering & Technology
Department	: Civil Engineering
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Qualifications:

Technical Education

Ph.D. (Earthquake Engineering-Structural Dynamics), Indian Institute of Technology, Roorkee, India. [2005 – 2010]

M.Tech. (Earthquake Engineering-Structural Dynamics), Indian Institute of Technology, Roorkee, India. [2002 – 2004]

B. Tech. (Civil Engineering), J.N.T.U.C.E. Hyderabad, India [1997 – 2000]

Diploma (Civil Engineering), S.B.T.E.T., Hyderabad, India [1993 – 1996]

Areas of Interest/Specialization:

Teaching:	UG-B.Tech (Civil Engg), PG-(M.Tech. Structural Engineering) & Ph.D-(Structural Engg.)
Research:	Earthquake Resistant Design, Experimental Evaluation of RC elements, Performance Based Design, Nonlinear modeling of RC Structures
Consultancy:	Seismic Design and Evaluation of Structures, Testing of RC Components, Performance Based Design of Structures, Nonlinear Modeling of RC Structures, Design of Steel Structures

Experience:

- 1.Associate Professor,**
Department of Civil Engineering, School of Engineering & Technology, Guru Ghasidas Vishwavidyalaya, Bilaspur (GGV, BSP), (C.G.), India.
[Feb. 2020 – Till date]
- 2.Assistant Professor,**
Department of Civil Engineering, School of Engineering & Technology, Guru Ghasidas Vishwavidyalaya, Bilaspur (GGV, BSP), (C.G.), India.
[Apr. 2012 – Feb 2020]
- 3.Assistant Professor, (On Contract)**
Department of Civil Engineering, National Institute of Technology, Jamshedpur (NIT, JSR) Jharkhand, India.
[Apr. 2011 - Apr. 2012]
- 4.Research Associate (R.A.), (Consultancy project-BMPTC)**
Department of Earthquake Engineering, Indian Institute of Technology Roorkee, India.
[Mar. 2011 – Apr. 2011]
- 5.Research Associate (R.A.), (Consultancy project-SAIL)**
Department of Earthquake Engineering, Indian Institute of Technology Roorkee, India.

[Jan. 2010 – Feb. 2011]

6. Research Associate (R.A.), (Consultancy project-MOSERBAER)

Department of Earthquake Engineering, Indian Institute of Technology Roorkee, India.

[Jan. 2009 – Dec. 2009]

7. Senior Research Fellow (S.R.F.), (Research project-DST)

Department of Earthquake Engineering, Indian Institute of Technology Roorkee, India.

[Aug. 2004 – Oct. 2007]

Awards and Honors

- Awards of Research Associate Fellowships for carrying research under consultancy projects.
- Award of Senior Research Fellowship for carrying Research under Department of Science and Technology (DST) project.
- Ministry of Human Resources and Development (MHRD) scholarship for Ph.D. studies.
- Ministry of Human Resources and Development (MHRD) scholarship for post-graduate studies.

Research Projects

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International Collaboration/Consultancy:**Consultancy Works**

- **Internal Consultancy;** Consultancy work related to constructions of Guru Ghasidas Vishwavidyalaya (GGV), were carried out by all the faculty members (six-member group) of Civil Engg. Dept., I.T. including Structural Design / Vetting for Building Projects. The details of internal consultancy works are

S.No.	Name of Building Construction Project Work	Estimated Cost (in Lakh)	Task Executed
1	Department of Forestry, Department of Rural Technology and Workshop Building under Institute of Technology	789	From April 2012 to Feb 2014
2	University' Guest House	692	
3	Cafeteria	272	
4	Academic Staff College' Guest House	119	
5	Accelerator Hall	626	
6	Department of Zoology and Department of Chemistry	2585	
7	Department of Physics	93	
8	Primary Health Centre	62	
9	Boys Hostel (2 Buildings.)	1471	
10	Physics Extension Block	432	
11	Department of Forestry Extension (Hall and Porch)	33	
		7174	

- **External Consultancy;** Consultancy works from outside of the Guru Ghasidas Vishwavidyalaya, were carried out by all the faculty members (six-member group) of Civil Engg. Dept., I.T. including Structural Design / Vetting for Building Projects. The details of external consultancy works are given as follows

S.No	Name of Project Work	Estimated Cost (in Lakh)	Task Executed
1	G+2 storied building, total 24DU's, at Bartarai Project, Near SECL Office, Bsp, under, 'I.H.S.D.P., Group-I, 528 unit (24-22 block) by the Nagar Palik Nigam, Bilaspur, vide work order no 937/BMC/plan.-admn. /2013-14, Bsp. Dtd. 19-9-13.	50.89 Each block	March 2014
2	G+2 storied building, total 24DU's, at Khamtari, Near Govt. Engg. College, Koni, Bsp. under 'I.H.S.D.P., Group-I, 528-unit (24-22 block) Nagar Palik Nigam, Bilaspur, vide work order no 930/BMC/plan.-admn. /2013-14, Bsp. Dtd. 19-09-13.	50.89 Each block	March 2014
3	G+2 storied building, total 24DU's, under 'I.H.S.D.P.', Group-Z-7, 120 units (24-5 block) House Construction, by the Nagar Palik Nigam, Bilaspur, vide work order of BMC no 755/BMC/plan.-admn. /2013-14, Bsp. Dtd. 13-5-13.	50.89 Each block	March 2014
4	G+2 storied building, total 24DU's, under, 'I.H.S.D.P., Group-VII, 48 unit (24-2 block) by the Nagar Palik Nigam, Bilaspur, vide work order of BMC no 769/BMC/plan.-admn. /2013-14, Bsp. Dtd. 17-5-13.	50.89 Each block	April 2014
5	G+2 storied building, total 24DU's under, 'I.H.S.D.P.', Group-Z-IV, 120 units (24-5 block) by the Nagar Palik Nigam, Bilaspur, vide work order of BMC no 762/BMC/plan.-admn. /2013-14, Bsp. Dtd. 13-5-13.	50.89 Each block	April 2014
6	G+2 storied building, total 36 DU's, for only one Block, under, 'I.H.S.D.P.', Group-8, 36 unit (36-1 block) by the Nagar Palik Nigam, Bilaspur, (C.G.) vide work order of BMC no 783/BMC/plan.-admn. /2013-14, Bsp. Dtd. 17-05-13.	76.39 Each block	May 2014
7	G+2 storied building, total 24 DU's, vetted for only one Block, under, 'I.H.S.D.P.', Group-3, 264 units (24-11 block) by the Nagar Palik Nigam, Bilaspur, (C.G.) vide work order of BMC no 1068/BMC/plan.-admn. /2013-14, Bsp. Dtd. 30-11-13.	50.89 Each block	May 2014
8	H.L. Bridge across Champa Nalla, on Ambikapur-Gangapur Road.	104.33	Sept.2014
Total amount		486 Lakh	

List of Publications (All)

National/International Journals/Magazines

- 1 **V. V. S. Surya Kumar Dadi** and Pankaj Agarwal (2013) "Updating of Nonlinear Analytical Modeling of Soft Storey RC Frame Building Models Based on Cyclic Test Results", **Bulletin of Earthquake Engineering (Springer)**. 11:1493–1515. DOI 10.1007/s10518-013-9434-7
- 2 **Dadi, VVSSK & Agarwal, P** (2013), "Cyclic Performance Evaluation of Unconfined and Confined Beam-Column Joint Specimens with Different Type Of Reinforcing Characteristics as per ASCE/SEI 41-06", **Australian Journal of Structural Engineering (Taylor & Francis)**, ISSN: 13328 – 7982, Vol. 14, No. 3.
- 3 **Surya Kumar Dadi, V. V. S.** and Agarwal, Pankaj (2013) "Influence of Reinforcement Characteristics on Non-Linear Performance Evaluation of Confined Beam-Column Joints under Cyclic Loading", **Advances in Civil Engineering Materials (ASTM)**, Vol. 2, No. 1, pp. 201–217.
- 4 **Dadi, V. V. S. S. K. & Agarwal, P.** (2013), "The Effect of Compressed Infill Panels on Cyclic Performance of

Exterior Beam-Column Joints”, **Australian Journal of Structural Engineering (Taylor & Francis)**), ISSN: 13328 – 7982, Vol. 14, No. 3.

- 5 **Surya Kumar Dadi, V. V. S.** and Agarwal, Pankaj (2015) "*Effect of Types of Reinforcement on Plastic Hinge Rotation Parameters of RC Beams under Pushover and Cyclic Loading*" **Earthquake Engineering and Engineering Vibration (Springer)**, Vo. 14, No. 3, PP. 503-516.
- 6 **Surya Kumar Dadi, V. V. S.** and Agarwal, Pankaj (2015) "*Comparative Post-Yield Performance Evaluation of Flexural Members under Monotonic and Cyclic Loadings based on Experimental Tests*" **Structures (Elsevier)**, doi:10.1016/j.istruc.2015.02.002, Vol. 2, pp 72-80.
- 7 **VVS Surya Kumar Dadi**, and Agarwal, Pankaj (2016) "*Nonlinear Cyclic Performance Evaluation of Soft Storey RC Frame Buildings Based on Different Characteristics of Reinforcement*" **KSCE Journal of Civil Engineering (Springer)**, March 2016, Volume 20, Issue 2, pp 738–746
- 8 R. Siva Chidambaram, **VVS Surya Kumar Dadi**, and Agarwal, Pankaj (2017) "*Seismic Retrofit of Damaged Column of Buildings by using External Bolted Mechanical Couplers with and without FRP Confinement*" **The Master Builder (Magazine)**, ISSN: 2249-1228, Nov. 2017, pp 32–36,

International/National Conf./sem./Symp.

- 1 **V V S Surya Kumar Dadi** and Pankaj Agarwal (2008) "**Cyclic behavior of exterior beam column joint specimens under quasi static testing**", the 14th World Conference on Earthquake Engineering, Beijing, China oct-12-17, pp. No-12-01-0209.
- 2 **V V S Surya Kumar Dadi** and Pankaj Agarwal (2009) "**Evaluation of ductile performance of exterior beam column joints under cyclic loading**", National conference on Trends and challenges in structural engineering and construction technologies (TCSECT-2009), Central Building Research Institute (CBRI) Roorkee, India on Feb 11-12.
- 3 **V V S Surya Kumar Dadi**, Ratnesh Kumar and Girish Chandra Joshi (2009) "**Seismic survey and condition assessment of school buildings in Uttarakhand**", National seminar on Housing and Disaster Mitigation Efforts in India: Case Studies (HDME-2009), Centre for Excellence in Disaster Mitigation and Management, IIT Roorkee, India April 18th

Recent Books/Book Chapters/Monographs etc.

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Research Supervision

- M.Tech (Structural Engineering)- 02-ongoing

Administrative Responsibilities

- Member of Academic Council, GGV from 30-10-2018 to 28-02-2020, as an Assistant Professors
- Member of Academic Council, GGV from 2021, as Associate Professor
- Warden, Type-IV Boys Hostel (2018)
- Member of CEC-CMC since 2018 to till date.
- Invited Member, Building Committee, GGV: 2019, 54th BC dated 14-10-2020, 55th BC dated 20-01-2021, 2020,2021,2022 60th BC dated 06-03-2023
- Coordinator University Engineering Section 2018-Till date.
- Coordinator, NBA: Civil Engineering Department

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- DRC Member (Civil Engg) 2022
 - Faculty Coordinator, Techfest Equilibrio 2016

Additional Information

Professional Memberships:

- Life member of The Indian Society of Earthquake Technology
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