

**Resume****Dr. V V S Surya Kumar Dadi, Ph.D (EQ-Str. Dynamics (IITR))****Associate Professor**

Department of Civil Engineering,  
School of Engineering & Technology, Guru Ghasidas Vishwavidyalaya (GGV),  
Bilaspur-495009, (C.G.), India.

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**Dr.V V S Surya Kumar Dadi, B Tech.(Civil), M.Tech. (EQ-Str. Dynamics), Ph. D. (EQ-Str. Dynamics)**  
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Cell: +91 9039545982, Email: [surya.dadi@gmail.com](mailto:surya.dadi@gmail.com)

**Areas of Interest**


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<b>Teaching:</b>	Civil Engineering and Structural Engineering
<b>Research:</b>	Earthquake Resistant Design, Experimental Evaluation of RC elements, Performance Based Design, Nonlinear modeling of RC Structures
<b>Consultancy:</b>	Seismic Design and Evaluation of Structures, Testing of RC Components, Performance Based Design of Structures, Nonlinear Modeling of RC Structures, Design of Steel Structures

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**Technical Education**

1. **Ph.D.** (Earthquake Engineering-Structural Dynamics), Indian Institute of Technology, Roorkee, India. [2005 – 2010]
2. **M.Tech.** (Earthquake Engineering-Structural Dynamics), Indian Institute of Technology, Roorkee, India.[2002 – 2004]
3. **B. Tech.** (Civil Engineering), J.N.T.U.C.E. Hyderabad, India [1997 – 2000]
4. **Diploma** (Civil Engineering), S.B.T.E.T., Hyderabad, India [1993 – 1996]

**Academic Awards and Achievements**

1. Awards of Research Associate Fellowships for carrying research under consultancy projects.
2. Award of Senior Research Fellowship for carrying Research under Department of Science and Technology (DST) project.
3. Ministry of Human Resources and Development scholarship for Ph.D. studies.
4. Ministry of Human Resources and Development scholarship for post-graduate studies.
5. Among the top three of the Class in B. Tech and obtained First Class with Distinction
6. Class Topper in Diploma in Civil Engineering and obtained First Class with Distinction

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### **Professional Experience**

**1. Associate Professor,**

Department of Civil Engineering, School of Engineering & Technology,  
Guru Ghasidas Vishwavidyalaya, Bilaspur (GGV, BSP), (C.G.), India.

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[Feb. 2020 – Till date]

**2. Assistant Professor,**

Department of Civil Engineering, School of Engineering & Technology,  
Guru Ghasidas Vishwavidyalaya, Bilaspur (GGV, BSP), (C.G.), India.

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[Apr. 2012 – Feb 2020]

**3. Assistant Professor, (On Contract)**

Department of Civil Engineering, National Institute of Technology, Jamshedpur (NIT, JSR)  
Jharkhand, India.

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[Apr. 2011 - Apr. 2012]

**4. Research Associate (R.A.), (Consultancy project-BMPTC)**

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

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[Mar. 2011 – Apr. 2011]

**5. Research Associate (R.A.), (Consultancy project-SAIL)**

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

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[Jan. 2010 – Feb. 2011]

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

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

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[Jan. 2009 – Dec. 2009]

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

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

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[Aug. 2004 – Oct. 2007]

**Academic Projects****• PhD Thesis:**

“Nonlinear Modeling of Soft-storey RC Frame Based on Cyclic Testing of Components.”

**• M.Tech. Dissertation:**

“Seismic Evaluation of Reinforced Concrete Building with a Soft-Storey”

**• B. Tech Project:**

“Wind Analysis and Design of Multi-Storied Hotel Building”

**Computer Skills**

- Programming languages: FORTRAN, MATLAB.
- Graphical packages: AUTOCAD
- Structural Engineering packages: STAAD PRO, ARTEMIS, ANSYS, SAP 2000 (Nonlinear)

**List of Publications****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 14<sup>th</sup> 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 18<sup>th</sup>

**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](https://doi.org/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,

### Consultancy Works

**a) Internal Consultancy;** Consultancy work related to constructions of Guru Ghasidas Viswavidyalaya (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	

**b) External Consultancy;** Consultancy works from outside of the Guru Ghasidas Viswavidyalaya, 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
	<b>Total amount</b>	<b>486 Lakh</b>	

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