



**Name** : **DR. SANJAY KUMAR**

Dr. Sanjay Kumar joined the Institute in 1996.



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**Area of Research Interest:**

- Performance evaluation of Building Elements
- Mechanical Properties of Concrete
- Self-Compacting Concrete
- Fiber Reinforced Concrete
- Analysis and Design of Steel Structures
- Low Cost Building Materials
- Composite Materials
- Structural Health Monitoring and Control

2. **Designation** : **Associate Professor**

3. **Postal Address** : **Department of Civil Engineering,  
NIT, Jamshedpur – 831014, Jharkhand,  
INDIA.**

4. **Date of Birth** : **24-03-1968**

5. **Employment (Experience) Details:**

S. No.	Post	Duration		Employer	Nature of Employment	Functional Activities
		From	To			
1.	Lecturer	26 <sup>th</sup> March 1996	25 <sup>th</sup> March 2001	RIT, Jamshedpur	Regular	Teaching and Research
2.	Sr. Lecturer	26 <sup>th</sup> March 2001	25 <sup>th</sup> March 2006	NIT, Jamshedpur	Regular	Teaching and Research
3.	Assistant Professor	26 <sup>th</sup> March 2006	25 <sup>th</sup> March 2009	NIT, Jamshedpur	Regular	Teaching and Research
4.	Associate Professor	26 <sup>th</sup> March 2009	Till date	NIT, Jamshedpur	Regular	Teaching and Research

6. **Educational Qualifications:** Ph. D (Civil Engg.) Structural Engg.

- (i) Title of PG Thesis: *Effect of Steel Fibers on Short-Term Deflection of High Strength Concrete Beams*
- (ii) Title of Ph.D. Thesis: *Material Characterization of Low-Cost Building Elements*

7. **Conference/Seminar/Short-Term Course/Workshop Organized:**

- (i) Organized a NATIONAL WORKSHOP on “Recent Advances in Civil Engineering Research (RACER-2019)” from 21<sup>st</sup> to 25<sup>th</sup> Jan. 2019 sponsored by TEQIP-III.
- (ii) Organized a NATIONAL CONFERENCE on “Advances in Sustainable Construction Materials (ASCM-2020)” from 3<sup>rd</sup> to 4<sup>th</sup> Aug. 2020.

8. **Sponsored Projects / Research:**

S. No	Title of Project	Sponsoring Agency & Grant Received		Year of start and Total period	Name of P.I. and other investigators
1.	Modernization and Removal of Obsolescence of the Concrete and Structure Laboratory (MODROBS).	M.H.R.D., New Delhi Govt. of India	Rs. 14 lakhs	2002-2003 2 Years	Dr. M.M. Prasad (PI) Sanjay Kumar (Co-PI)

9. **Books / Articles published:**

**Book Chapter Publication**

- (i) S. Jeeva Chithambaram, **Sanjay Kumar**, M.M. Prasad, “Study on effect of Sodium Hydroxide concentration on Geopolymer Mortar”, Sustainable Construction and Building Materials, 2018, *Springer*, pp.651-658 (SCOPUS Indexed).  
[https://doi.org/10.1007/978-981-13-3317-0\\_58](https://doi.org/10.1007/978-981-13-3317-0_58)
- (ii) Chandrakant Niraj, Pintu Kumar and **Sanjay Kumar**, “Behaviour of Steel Fiber Reinforced Self-Compacting Concrete”, Advances in Sustainable Construction Materials (ASCM-2020), Vol. No. 124, 2021, *Springer*, pp. 441-449. [ISBN:978-981-33-4589-8]  
[https://doi.org/10.1007/978-981-33-4590-4\\_42](https://doi.org/10.1007/978-981-33-4590-4_42)

**Book/Proceedings Edited**

“Proceedings of the National Conference on Advances in Sustainable Construction Materials, Biswas S., Metya S., **Kumar Sanjay**, Samui P., **Springer, Singapore, 2021**  
[https://doi.org/10.1007/978-981-33-4590-4\\_42](https://doi.org/10.1007/978-981-33-4590-4_42)

#### 10. Subjects Taught (&):

##### U.G.

Design of Steel Structures, Bridge and Tunnel Engineering, Pre-stressed Concrete Design, Structural Mechanics, Structural Analysis, Transportation Engineering, Building Materials, Basic Civil Engineering, Construction Technology, Sustainable Development

##### P. G.

Plastic Analysis & Limit State Design of Steel Structures, Design of Multi-Storeyed Building, Advanced Steel Design, Advanced Concrete Technology, Pre-stressed Concrete Design, Structural Health Monitoring and Control

#### 11. Extra-curricular Activities/Management & Institutional Development Elements:

##### Institute Level:

- Worked as Member of Civil Works Committee and Boundary Wall Committee
- Worked as Programme Coordinator of Graduate Engineer of Civil Engg. Department
- Worked as member of Project Management Cell.
- Worked as Warden/Senior Warden of Institute Hostel.
- Worked as member convener of P.T.P.G. Admission Committee.
- Worked as tabulator P.T.P.G. Programme.
- Acted as member of PMGSY and attended several meetings with D.C. and D.D.C. Jamshedpur and shorted out its related problems.
- Worked as member of screening Committee for appointment to the post of Assistant Professor as Director's Nominee

##### Deptt./Centre's Level:

- Prof. in-charge of Concrete & Structure Lab, Transportation Engg., Survey Lab.
- Delivered lecture on mason training programme under Hudco sponsored project.
- Member, Departmental Academic Committee.
- Member, Department Purchase/Write-off Committee
- Faculty advisor cum tabulator for 2003, 2007, 2011 and 2015 Batch.
- Coordination Committee for third year field surveying
- Member of screening Committee for appointment to the post of Assistant Professor
- Faculty advisor of M. Tech (Structural Engg.) 2019 batch
- Faculty advisor of Ph. D. 2020 batch
- Worked as member convener of Ph. D. Admission Committee.

##### Other Work:

- Acted as an expert member in State Commission (J.P.S.C., Ranchi).
- Acted as an observer for AIEEE, C.B.S.E. Exam. and JEE (Main) Exam.
- Delivered an invited lecture on the topic "Use of steel in place of wood" at Town Division, Tata Steel, Jamshedpur on May 2003.

- Delivered lectures on Training of State Engineers of Govt. of Jharkhand under the National Programme for Capacity Building of Engineers in “Earthquake Risk Management” (NPCBEERM) held during 23-28 Jan., 2006 on the topic “Retrofitting Materials”, 27 Feb.-04 Mar., 2006 on the topic “Seismic Vulnerability Reduction”.
- Acted as an observer for UGC National Eligibility Test (NET) Exam.
- Acted as a member in State Commission (J.P.S.C, Ranchi) for scrutiny for appointment to the post of Assistant Professor.
- Delivered TEQIP-III Sponsored Webinar on “Design of Steel Structure” in the Department of Civil Engineering at Chaibasa Engineering College (Estd. by Govt. of Jharkhand and run by Techno India) during May 5, 2020 to May 7, 2020.
- Advisory committee member of National Conference on Sustainable Advancements in Civil Engineering (NCSACE 2020) at LNJP Institute of Technology, 10<sup>th</sup> to 11<sup>th</sup> April, 2020, Chhapra, Bihar.
- Acted as an examiner for Viva-Voce exam for M. Tech. (Structural Design Lab and Advanced Concrete Lab) Civil Engg. Deptt., BIT Sindri, Dhanbad, 2021, Jharkhand.

## 12. Research Contribution

:

### (a) Publication in JOURNALS

1. S. J. Chithambaram and **Sanjay Kumar**, “Flexural Behaviour of Bamboo Based Ferrocement Slab Panels with Flyash” **Journal of Construction and Building Materials**, 2017, Vol. 134, *Elsevier*, pp.-641-648. [SCI] <http://dx.doi.org/10.1016/j.conbuildmat.2016.12.205>
2. S. J. Chithambaram, **Sanjay Kumar**, M. M. Pd , “Thermo-Mechanical Characteristics of Geopolymer Mortar”, **Journal of Construction and Building Materials**, 2019, Vol. 213, *Elsevier*, pp. 100-108. [SCI] <http://doi.org/10.1016/j.conbuildmat.2019.04.051>
3. S. J. Chithambaram, **Sanjay Kumar**, M. M. Pd and D. Adak, “Effect of Parameters on the Compressive Strength of Fly ash based Geopolymer Concrete”, **Journal of Structural Concrete**, 2018, *Wiley Publication*, Vol. 19, pp.1202–1209. [SCI] DOI:10.1002/suco.201700235
4. **Sanjay Kumar** and M.M. Prasad, “Bamboo Reinforced Flexural Members for Housing Development in India”, **International Journal for Housing Science and Its Applications**, Florida, U.S.A., 2005 Vol. 29, No. 2, pp. 137-151.
5. **Sanjay Kumar**, “Experimental Investigation on Fly Ash and Blast Furnace Slag in Construction of Cement Concrete Pavement”, **Journal of Indian Highways**, 2014 Vol. 42, No.7, pp. 37-45.

6. **Sanjay Kumar**, S. J. Chithambaram, “Behaviour of Steel Fibre Reinforced Self Compacting Concrete Beams in Flexure”, **Journal of Structural Engineering** 2019, Vol. 46 (3), pp. 238-244. [SCOPUS].
7. S. J. Chithambaram, **Sanjay Kumar**, M. M. Prasad, “Workability and Compressive Strength of Self-Compacting Geopolymer Concrete (SCGC) Exposed to Elevated Temperature”, **Journal of Structural Engineering**, 2020, Vol. 46, (5), pp. 337-345. [SCOPUS].
8. **Sanjay Kumar**, S. J. Chithambaram, “ Effect of Marine Environment on Characteristics of Self-Compacting Geopolymer Concrete, **European Journal of Environmental and Civil Engineering**, (Communicated for publication)

**(b) International Conferences:**

1. **Sanjay Kumar** (2019), “Performance of Reinforced Self Compacting Concrete Short Column Containing Steel Fibres” UKIERI Concrete Congress, NIT Jalandhar, 5<sup>th</sup> to 8<sup>th</sup> March 2019, pp. 193-.
2. **Sanjay Kumar**, S. J. Chithambaram, Manish Kumar and M.M.Prasad (2019), “Strength Performance of Geopolymer Concrete Exposed to Elevated Temperature” UKIERI Concrete Congress, NIT Jalandar, 5<sup>th</sup> to 8<sup>th</sup> March 2019,
3. S. J. Chithambaram, **Sanjay Kumar**, M.M. Prasad (2018), “Study on effect of Sodium Hydroxide concentration on Geopolymer Mortar”, International Conference on Sustainable Construction and Building Materials ICSCBM 2018, NITK Surathkal, 18<sup>th</sup> to 22<sup>nd</sup> June 2018, pp..
4. S. J. Chithambaram, **Sanjay Kumar**, M.M. Prasad (2018), “Experimental Studies on Geopolymer Concrete at Ambient Temperature”, Int. Conference on Composite Materials and Structures ICCMS 2017, IIT Hyderabad, 27<sup>th</sup> to 29<sup>th</sup> Dec. 2017, pp..
5. S. Jeeva Chithambaram, U. Chaitnya Krishna and **Sanjay Kumar** (2016) “Dynamic Analysis of RC Elevated Intze Water Tank Using Different Bracing in Staging”, Proc., 4<sup>th</sup> Annual **International Conference** on Architecture and Civil Engineering (ACE 2016), Singapore, pp..
6. **Kumar, Sanjay** and Prasad, M.M., (2015) “Performance Evaluation of Bamboo-Reinforced Blended Concrete Members in Compression”, Proc., **International Conference** on “Concrete Research Driving Profit and Sustainability”, UKIERI Concrete Congress, Dr B R Ambedkar National Institute of Technology, Jalandhar, India 2-5 Nov. 2015, pp..

7. **Kumar, Sanjay** and Prasad, M.M., (2008), “Flexural Behaviour of Short Steel Fiber Reinforced Concrete Beams”, **7<sup>th</sup> RILEM International Symposium** on Fiber Reinforced Concrete: Design and Applications (BEFIB 2008), 17-19<sup>th</sup> Sept. 2008, IIT Madras, Chennai, India.
8. **Kumar, Sanjay** and Prasad, M.M., (2008) “Behaviour of Bamboo Based Ferrocement Slabs for Low Cost Housing”, Proc., **International Conference** on “CONCRETE: Construction’s Sustainable Option”, Concrete Technology Unit, University of Dundee DD14HN, U.K., 2008, pp. 209-217.
9. **Kumar, Sanjay** and Prasad, M.M., (2005) “Industrial Waste Utilization In Building Elements”, **6<sup>th</sup> International Congress** “Global Construction: Ultimate Concrete Opportunities”, Concrete Technology Unit, Univ. of Dundee, Scotland, U.K., 5-7 July 2005 pp. 351-359.
10. **Kumar, Sanjay** and Prasad, M.M., (2004) “The Behaviour of Prefabricated Flexural Member for Low Cost Housing”, Proc. of **International Conference** on “Advances in Concrete and Construction”, Deptt. of Civil Engg., V.C.E., Hyderabad (A.P). India, 16-18, Dec. 2004.
11. **Kumar, Sanjay** and Prasad, M.M., (2004) “Utilization of Industrial Wastes In Building Construction”, **1<sup>st</sup> Int. Exhibition and Conference** on Building Materials and Construction Technologies, 12-15 Feb., 2004, PragatiMaidan, New Delhi, India, pp. 108-116.
12. **Kumar, Sanjay**, Prasad, M.M., and Kumar, V., (2003) “Effect of Coating on Compressive Strength Of Concrete”, Proc. of **International Conference** on Emerging Technology (ICET-2003) 19-21, Dec. 2003 KIIT, Bhubaneswar, India.
13. **Kumar, Sanjay** and Prasad, M.M., (2003) “Bamboo Reinforced Blended Concrete Composite Column”, Proc., **International conference** on “Emerging Technology (ICET 2003)”, KIIT., Bhubneshwar, Orissa, India, 19-21 Dec. 2003.
14. **Kumar, Sanjay** and Prasad, M.M., (2003) “Use of Blended Concrete for Low Cost Housing”, Proc., **International Conference** on “Recent Trends in Concrete Technology and Structures (INCONTEST 2003)”, Deptt. of Civil Engg., Kumaraguru College of Technology, Coimbatore, India, 10-12 Sept. 2003, Vol. II, pp. 224-231.
15. **Kumar, Sanjay** and Prasad, M.M., (2003) “Performance of Bamboo Reinforced Flexural Members”, Proc., **Int. Symposia** on “Celebrating Concrete: People and Practice”, Concrete Technology Unit, University of Dundee, U.K., 3-4 Sept. 2003, pp. 339-348.

16. **Kumar, Sanjay** and Prasad, M.M., (2003) “Behaviour of Bamboo-Reinforced Flexural Members”, **International Conf.** on “Construction Management and Materials CONMAT2003”, Deptt. of Civil Engineering, I.I.T., Kharagpur, India, Jan., 2003, pp.707-716.
17. Prasad, M.M.; Kumar, V. and **Kumar, Sanjay**, (2002) “Earthquake and Disaster Management-An Overview” Proc., **International Conference** on N.I.T., Bhopal M.P., India, 16-19 Jan, 2002, pp. 313-318.

**(c) National Conferences:**

1. **Kumar, Sanjay**, (2012) “Intelligent Transport System using Electronic Devices”, Proc. of National Conference and Workshop on Recent Advances in Traffic Engineering (RATE 12), Dept. of Civil Engineering, SVNIT, Surat, Gujarat, June 07-09, 2012, pp. .
2. **Kumar, Sanjay** and Prasad, M.M., (2007), “Utilization of FaL-G Bricks for Low Cost Housing”, Proc. of National Conference on “Recent Trends in Civil Engineering”, Deptt. of Civil Engg., RIT, Rajaramanagar, Maharashtra, March 2007, pp. 99-111.
3. **Sanjay Kumar** and M.M. Prasad, (2004) “Characterization of alternative building materials” National Seminar on Recent Trends in Building Materials (RTBM-2004), 26-27 Feb., 2004 Regional Research Laboratory (CSIR), Bhopal, India, pp. 126-132.
4. **Sanjay Kumar**, V. Kumar and M.M. Prasad, (2004) “Some Mechanical Properties of Recron 3S Fibre Concrete”, Proc. of National Conf. on “Advantages in Concrete Technology (ACT-2004), 26-27 Feb., 2004, Dept. of Civil Engineering., T.I.E.T., Patiala, India.
5. **Kumar, Sanjay**; and Prasad, M.M., (2003) “Earthquake Resistant Building – An Overview” Proc., National Conf. on “Emerging Trends in Concrete Construction (NC-ETCC)”, Deptt. of Civil Engg., C.B.I.T., Hyderabad, India, 22-24.
6. **Kumar, Sanjay** and Prasad, M.M., (2003) “Alternative Building Materials for Low Cost Housing”, Proc., National Seminar, “Materials, Equipments and Construction Technologies”, V.I.T., Vellore, India, Jan 2003, pp.C-31 –C-36.
7. **Kumar, Sanjay**; Kumar, V. and Prasad, M.M., (2002) “Management in Construction – A Perfect Approach” Proc., National Seminar on “Infrastructure Development Retrospect & Prospects”, 17<sup>th</sup> Indian Engineering Congress, The Institution of Engineers (I), Bihar State Centre, Patna, India, 2002, pp 189-193.
8. **Kumar, Sanjay** and Prasad, M.M., (2002) “Utilization of Fly ash as a Building Material” National Conf. on “Appropriate Technologies for Industrial Control and Environmental Management” Sri. V.U.C. of Engineering, Tirupati, India, Nov. 2002, pp. 125-128.
9. **Kumar, Sanjay**; Prasad, M.M. and Kumar, V., (2002) “Material Characteristics of High-Performance Concrete-An Overview” Proc., National Seminar on “Advances in Concrete and Concrete Structures”, The Institution of Engineers (I), Local Centre, Belgaum, Karnataka, India, 25-26 Oct. 2002, pp. 23-27.

10. **Kumar, Sanjay**; Kumar, V. and Prasad M.M., (2002) "Industrial Waste-A Cost Effective and Environmental Friendly Building Material" Proc., National Sem. on "Civil Engineering Strategies in the Making of India-A Global Giant (CESMIGG)", Deptt. of Civil Engg., Crescent Engg. College, Chennai, India, Oct. 2002, pp. 73-77.
11. **Kumar, Sanjay**; Kumar, V. and Prasad M.M., (2002) "Feasibility of Concrete Pavement in Jharkhand" Proc., All India Seminar on "Development of Road Infrastructure in Jharkhand", The Institution of Engineers (I), Dhanbad Local Centre, India, 29-30 June 2002, pp. 161-167.
12. **Kumar, Sanjay**; Kumar, V. and Prasad, M.M., (2002) "Low Cost Prefabricated Building Elements", All India Seminar on "Mechanization and Prefabrication in Building", The Inst. of Engineers (I), Indore Local Centre and S.G.S.I.T. & Sc. Indore, M.P., India, 2002.
13. **Kumar, Sanjay**; Kumar, V. and Prasad M.M., (2002) "Study of Flexural and Split-Tensile Strength of Fly ash-Silica Fume Concrete" Proc., National Conference on "Advances in Construction Material", Deptt. of Civil Engineering, N.I.T., Hamirpur, India, 8-9 April 2002.
14. **Kumar, Sanjay**; Kumar, V. and Prasad M.M., (2002) "Effect of Wind Load on Multistoried Residential Buildings" Proc., National Seminar on "Wind Engineering (NCWE-02)", Deptt. of Civil Engineering, I.I.T., Roorkee, India, April 2002, pp. 215-227.
15. **Kumar, Sanjay**; Kumar, V. and Prasad, M.M. (2001), "Corrosion of Reinforced Concrete and its Protection" Proc., National Seminar on "Corrosion and its Protection" N.M.L., Jamshedpur, India, 11-12 Dec. 2001, pp. 51-56.
16. Prasad, Prahlad and **Kumar, Sanjay**, (2001) "Seismic Behaviour of Reinforced Steel Fibrous High Strength Concrete" Proc., National workshop on "Advances in structural engineering", Deptt. of Civil Engineering, Sri Venkateswara University, Tirupati, A.P., India, Dec. 2001, pp. 219-225.
17. **Kumar, Sanjay**; Kumar, V. and Prasad, M.M. (2001), "Fly ash Concrete-A Good Building Material" Proc., National Conference on "Utilization of Fly ash in New Millennium", Andhra University, Visakhapatnam, India, 2001 pp. 103-107.
18. Kumar, V.; **Kumar, Sanjay** and Prasad, M.M. (2001), "Fly ash-Silica Fume Concrete-A New Construction Material" Proc., Seminar on "Concrete in the Service for Adaptability and Durability", MNREC, Allahabad, 7 Sept. 2001, pp. III 36-42.
19. **Kumar, Sanjay** and Prasad, Prahlad (2000) "Effect of steel fibers on short-term deflections of High strength concrete beams" Proc., National Conf. on "Advances in concrete technology (ACT-2000)" Deptt. of Civil Engg., Thapar Institute of Engg. & Tech. (Deemed University), Patiala (India), Sept. 2000, pp. 8-16.
20. **Kumar, Sanjay**; Paswan, K. and Singh, S.C., "Theory of Accidents on Roadways, Causes and Remedial Measures" Proc., National Sem. on "Traffic Problems of Growing Cities", Govt. Engg. College, Jabalpur, India, Feb. 1997, pp. 88-96.



**13. Ph. D/M Tech Supervision:****(a) Ph.D Supervision**

S. No	Details				
	Degree	Name of the Student	Title of Thesis	Completed	Co-Supervisor, if any
<b>Ph.D.</b>					
1	Ph.D.	Mr. S. Jeeva Chithambaram	Material Characteristics of Self Compacting Geo-polymer Concrete	Completed	Ex. Prof. M. M. Pd
2	Ph.D.	Mrs. Anasuya Sahu	Investigation on Sustainable Concrete Using Recycled Concrete Aggregate With Ground Granulated Blast Furnace Slag (GGBFS)	In progress	Prof. A K L Srivastava
3	Ph.D.	Mr. Vikash Kumar	Performance Evaluation of High Performance Mortar Using Supplementary Cementitious Materials	In progress	----

**(b) M.Tech. Supervision**

1	M. Sc. Engg.	Smt. Kiran Sinha	Flexural Behaviour of Short Steel Fiber Reinforced Concrete Beams	Completed	---
2	M. Sc. Engg.	Sri Umesh Kr. Sinha	Influence of silica fume on some properties of High Strength Concrete and Flexural Behaviour of Beams	Completed	---
3	M. Sc. Engg.	Sri Suresh Yadav	Effect of Silica Fume and Steel Fibres on Some Mechanical Properties of High Strength Concrete	Completed	---
4	M. Sc. Engg.	Sri Jagdish Prasad	Investigation on Utilization of Waste Materials In Low Cost Building Bricks	Completed	Prof. A.K.L. Srivasatva
5	M. Tech	Mr. S. Jeeva Chithambaram	Performance of Steel Fibres Reinforced Self Compacting Concrete	Completed	---
6	M. Tech	Mr. Uppu Chaitanya Krishna	Dynamic Analysis of Elevated Intze Water Tank using Different Bracing in Staging	Completed	---
7	M. Tech	Mr. Anoop Singh	Flexural Characteristics of Steel Fibre Reinforced Self Compacting Concrete Beams	Completed	---
8	M. Tech	Mr. Abhishek	Dynamic Behaviour of Reinforced Concrete Chimney	Completed	---
9	M. Tech	Mr. Chandrakant Niraj	Behaviour of Steel Fiber Reinforced Self Compacting Concrete Short Column	Completed	---

10	M. Tech	Mr. Arun N.	Mechanical Properties of Geopolymer Concrete at Ambient Temperature	Completed	---
11	M. Tech	Mr Manish Kumar	Influence of Parameters on Geopolymer Concrete Exposed to Elevated Temperatures	Completed	---
12	M. Tech	Mr Ashwin Viswanath	Effect of Elevated Temperatures on the Properties of Flu Ash Based Geopolymer Mortar	Completed	---
13	M. Tech	Mr Rishabh Verma	Experimental Study on Glass Fiber Reinforced Self-Compacting Mortar and Ferro cement Slab in Flexure	Completed	---
14	M. Tech	Ms. Aswathy Rajan	Mechanical Properties and Durability studies of Carbon Fiber Reinforced Portland Cement Mortar	Completed	---
15	M. Tech	Mr Ayan Benarjee	Structural Safety of Tall R. C. Buildings in India (IS 16700:2017)	Completed	---
16	M. Tech	Mr David Kumar	Strength and Durability of Self Compacting Concrete Containing Recycled Concrete Aggregate	Completed	---
17	M. Tech	Mr. Shyamal Kumar	Siesmic Response Reduction of Frame Structure using Multiple Tuned Mass Dumper	Completed	---
18	M. Tech	Mr. Konda Veeresh	Behaviour of Tall Buildings [G+23] With Various Slenderness Ratio	Completed	---
19	M. Tech	Mr. Ashish Kumar	Performance Based Non Linear Time History Analysis of High Rise Building	in Progress	---
20	M. Tech	Md Obaid Rub	Yet to decide	in Progress	---
21	M. Tech	Mr Adarsh Srivastava	Yet to decide	in Progress	---
<p><b>(c) B. Tech Project Supervision:</b></p> <p>More than <b>35 Projects</b> till date</p>					

### **Ph.D Thesis Examined**

1. “Experimental Investigations on the Performance of Ultrafine Ground Granulated Blast Furnace Slag and Copper Slag based Geopolymer Concrete” by Mr R. Vijayasathy (Roll No.: 403915004) under the supervision of Dr. P. Jayabalan, Professor and Dr. J. Karthikeyan, N I.T. Trichirappalli-620015, India in Sept. 2021.

**14. (i) Seminar / Conference Attended / Papers presented & Published****(i) Conference / Seminar / Workshop Attended**

<b>S. No</b>	<b>Name of the Conference /Seminar/Symposium/ Workshop</b>	<b>Organized by</b>	<b>Date</b>	<b>Type</b>
1.	“Structural Steel Design for University Faculty”	INSDAG & Delhi College of Engineering, Delhi, India.	14- 20 Dec. 2001	National Workshop
2.	“Experimental Techniques in Structural Engineering”	Dept. of Civil Engg., I.I.T. Madras, India	15- 21 July 2002	National Workshop
3.	“Development of Road Infrastructure in Jharkhand”	The Institution of Engineers (I) Dhanbad Local Centre, India	29- 30 June 2002	All India Seminar
4.	“Construction Management and Materials (CONMAT- 2003)”	Dept. of Civil Engg. I.I.T., Kharagpur, India.	9-11 Jan. 2003	International Workshop and Conference
5.	“Recent Trends in Concrete Technology and Structures (INCONTEST-2003)”	Dept. of Civil Engg. KCT, Coimbatore, India	10-12 Sept., 2003	International Conference
6.	“Emerging Technology (ICET-2003)”	Dept. of Civil Engg., KIIT, Bhubaneswar, India	19-21 Dec., 2003	International Conference
7.	“Fly ash Utilization”	Dept. of Civil Engg., KIIT, Bhubaneswar, India	19 <sup>th</sup> Dec. 2003	Workshop
8.	“Recent Trends in Building Materials (RTBM-2004)”	CSIR, Bhopal (RRL, Bhopal), India.	26-27 Feb., 2004	National Seminar
9.	“Technical Education in National Scenario”	NIFFT, Ranchi, India.	20- 21 Dec., 2006	Workshop
10.	Workshop on Human Resources Training: Changes and Opportunities	Deptt. of Humanities N.I.T., Jamshedpur	09- 10 Feb., 2008	Workshop
11.	WORKSHOP ON EUROCODES	Indian Habitate Centre, New Delhi	11-13 Sept., 2008	Workshop (Indian Concrete Inst., New Delhi Centre)

12.	Workshop On IS: 800-2007	Hotel Hindustan International, Kolkata	17-18 December, 2008	Workshop organized by INSDAG & TATA STEEL
13.	“Numerical Methods and its Application in Science and Engineering”	Deptt. of Mathematics, N.I.T., Jamshedpur.	19-23 Aug., 2013	Training Programme
14.	“Application of Total Station and DGPS for Projects”,	Engineering Staff College of India, Hydrabad.	2 <sup>1st</sup> to 25 <sup>th</sup> Oct., 2013	Training Programme
15.	“Earthquake Risk Management” (NPCBEERM)	Dept. of Civil Engg., I.I.T Kharagpur, India.	5 <sup>th</sup> June to 8 <sup>th</sup> July 2009	National Programme for Capacity Building of Engineers in “Earthquake Risk Management” (NPCBEERM), Govt. of India..

(ii) **Summer / Winter School / Short Term Courses Attended**

S. No	Name of the Conference /Seminar/Symposium/ Workshop	Organized by	Date	Sponsored by/ Type
16.	“Non-Conventional Energy Sources and its Applications”	Department of Mech. Engg., R.I.T., Jamshedpur, India.	12 <sup>th</sup> to 24 <sup>th</sup> May, 1997	Summer School Sponsored by ISTE
17.	“Advances in Civil Engineering Materials”	Department of Struc. Engg. & Constrction Management., R.E.C. Jalandhar, India.	28 <sup>th</sup> Dec., 1998 to 8 <sup>th</sup> Jan, 1999	Winter School Sponsored by AICTE-ISTE
18.	“Corrosion in Concrete Structures and its Repair”	Applied Mechanics Dept., S. V. Regional College of Engg. & Technology, Surat, India.	19 <sup>th</sup> June to 1 <sup>st</sup> July, 2000	Summer School Sponsored by AICTE/ISTE
19.	“Team Building and Performance Management”	Dept. of Mathematics and Humanities, R.E.C. Warrangal (A.P), India.	5th-16th June 2000	Summer School Sponsored by AICTE/ISTE
20.	Teacher’s Role in Engineering Education	Dept. of Mech. Engg., R.I.T., Jamshedpur, Jharkhand, India	25 Dec. – 13 Jan 2001	3-week Induction Training Programme
21.	“Welding of Steel Structures”	Steel Metallurgy & INSDAG, Kolkata, Centre of Excellence, C.H. Area, Jamshedpur, India.	9 <sup>th</sup> Aug., 2003	Refresher Course

22.	“Advances in Construction Materials Technology”	Dept. of Civil Engg., I.I.T. Madras, Chennai, India.	12-17 July, 2004	AICTE Sponsored by STTP(QIP)
23.	“Finite Element Method and Its Application”	N.I.T., Jamshedpur, India.	27 <sup>th</sup> June to 8 <sup>th</sup> July, 2005	Faculty Training Program Under TEQIP
24.	“Seismic Evaluation and Retrofit”	Deptt. of Earthquake Engineering, IIT Roorkee, India.	19 <sup>th</sup> Dec. to 24 <sup>th</sup> Dec., 2005	National Programme on Earthquake Engineering Education (NPTEE), MHRD, Govt. of India.
25.	“Geotechnical Investigation for Structural Engineering”	IIT, Gandhinagar	15 <sup>th</sup> Oct. to 17 <sup>th</sup> Oct., 2015	Short Course

15. (i) **Contribution to Teaching** (last 5 years)

## (a) Introduction / Design of New courses / Electives

S. No.	Details
1.	Introduction of the subject Sustainable Development (GE18106CE) in all branches (U.G. level) in Semester course.
2.	Introduction of the subjects Prestressed Concrete (CE16117) and Bridge Engineering (CE16116) in Civil Engineering (U.G. level) in Semester course.

## (b) Laboratory Development

S. No.	Details
1.	For the development of Concrete and Structure Lab a 200T capacity of compression testing machine installed in concrete and structural engineering lab. A humidity chamber installed in concrete and structural engineering lab. Moulds and equipment's installed for casting and testing of different building elements like slab, beam etc. in concrete and structural laboratory of Civil Engg. Deptt. Moulds and equipment's installed for casting and testing of different building elements like slab, beam etc. in concrete and structural laboratory of Civil Engineering. Department. All equipment like vibration table,
2.	As a Prof. in-charge of Transportation Engineering Lab a lot of work has been done for its development as new equipment's installed in the laboratory and also all the old equipment's have been repaired. Core cutting machine and los angles abrasion testing machine made in order. As a Prof. in-charge of Survey Lab. all the equipment's have been repaired.

## 16. Contribution to Institutional Corporate life

S. No.	Details
1.	Worked as Warden/Senior Warden of Institute Hostel 2009-2010.
2.	Delivered an invited lecture on the topic “Use of steel in place of wood” at Town Division, Tata Steel, Jamshedpur on May 2003.
3.	I have acted as Member of Several Departmental Committees of Civil Engg. Dept. like Departmental Academic Committee, Department Purchase Committee, Faculty advisor for U.G. & P.G. etc.
4.	Acted as member of Pradhan Mantri Gramin Sarak Yojana and attended several meetings with D.C. and D.D.C. Jamshedpur and shorted out its related problems.
5.	I have been Prof. in-charge of Concrete and Structure lab., Survey lab. and Transportation Engineering Lab.
6.	I was a member convenor of P.T.P.G. Admission Committee for 2002 Batch.
7.	I was in Coordination Committee for third year field surveying from 1998 to 2003.
8.	I was tabulator for P.T.P.G. of 2000 Batch.
9.	I was faculty advisor/Tabulator for 2003, 2007, 2011 Batch. At present I am faculty advisor/Tabulator for 2015 Batch.
10.	Acted as an expert in state commission.
11.	Acted as an observer for All India Engg. Entrance Examination, C.B.S.E. Exam.
12.	Attended hostel duties and acted as members in different committees 1998 to 2005
13.	Attended several National and International Seminar/Conferences/Workshop/Symposia/ Short Term Courses.
14.	Question paper setting/evaluation answer scripts for different Institutions like B.C.E., Bhagalpur, N.I.T., Patna, MIT, Muzzafarpur, B.I.T., Sindri etc for U.G. & P.G. etc.

**17. Extension and Field Outreach Activities:****Major Consultancy /Testing Projects: 64 (Completed/in progress)**

S. No.	Title of Project	Sponsoring Agency	Amount of Grant	Duration	Co-investigators	Whether completed or in Progress
1	Concrete core cutting and its strength test	M/s Mr. H. Ishii, Manager, Quality Control Division Lot-4, Main Civil Works Purulia, Taisai Corporation	Rs. 10,868/-	8.7.2001	M.M. Pd, <b>Sanjay Kumar &amp; V. Kumar</b>	Completed
2	Design mix of concrete grades M25 & M30	M/s Mr. S. Chakraborty, The Petron Civil Engg. Ltd. C/o Lafarge Cement Factory Jojobera-Site, JSR.	Rs. 52,555/-	16.5.2001 to 23.8.2001	M.M. Pd, <b>Sanjay Kumar &amp; V. Kumar</b>	Completed
3.	Renovation/Rehabilitation of Overhead Water Tank	P.H.E.D., Jugsalai, Jamshedpur		2001	M.M. Pd & <b>Sanjay Kumar</b>	Completed
4.	Design Mix of M25, M30 and M40 Grades of Concrete	M/s National Projects Construction Company Ltd., Ranchi-2	Rs. 52,640/-	30.10.2002 to 30.01.2003	M.M. Pd, <b>Sanjay Kumar &amp; B. K. Pd</b>	Completed
5.	Design Mix of M25 (plain) and M25 (with plasticizer and fibre)	M/s Choudhary Engg. & Chemical Pvt. Ltd. Sidhgora, Agrico, Jamshedpur	Rs. 34,442/-	25-08-2002 to	Dr. M.M. Pd, <b>Sanjay Kumar &amp; V. Kumar</b>	Completed
6.	Mix Design of Concrete corresponding to Flexural Strength of 4.5 Mpa	M/s Nav Nirman Builders M-9 (old), Adityapur 1 Jamshedpur –13	Rs. 47,000/-	25-11-2004 to 7-4-2005	Dr. M.M. Pd, <b>Sanjay Kumar &amp; V. Kumar</b>	Completed
7.	Mix Design of M-20 and M-25 Grade of Concrete	M/s Vallabh Steels Limited, Dugdha, Gamahria, Saraikela-Kharswan – 832108	Rs. 37,000/-	From 28-04-2005 July 2005	<b>Sanjay Kumar &amp; Shailendra Kumar</b>	Completed
8.	Design mix of concrete grades M25 (Plain) M25 With Fiber.	M/s Choudhary & Chemicals Pvt.Ltd., Sidgora, Jamshedpur	Rs 34,000/-	August 2004	M. M. Pd , <b>Sanjay Kumar, V. K</b>	Completed
9.	Material testing for proposed road under PMGSRY.	Contractor, Jamshedpur	Rs. 9,000/-	April 2002 – July 2002	<b>Sanjay Kumar, A.K.Sinha</b>	Completed
10.	Checking Vetting of D.P.R. of PMGSRY	Jharkhand State	<b>10 Lakhs</b>	2007-2008	A.K.Khan, <b>Sanjay Kumar</b>	Completed
11.	Checking Vetting of D.P.R. of Bihar Rajya Pul Nirman Nigam Ltd.	Bihar State	<b>10 Lakhs</b>	2007-2008	A. K. Khan,, <b>Sanjay Kumar, V.K &amp; B.K.P</b>	Completed
12.	Design Mix of M25 Grades of Concrete	M/s P. K. Aggrawala Rakha Copper Project, Dist.- East Singbhum, Jharkhand-832106.	Rs. 50,652/-	Oct. 2008- Dec. 2008	M. M. Pd, <b>Sanjay Kumar &amp; B.K. Pd</b>	Completed

13.	Proof checking of Analysis and Design of R.O.B. (Flyover), Kodarma	M/S Ekam Consulting Pvt Ltd., J-23, Vatika Green City, Dimna Road, Mango, Jamshedpur-18.	Rs. 80,000/-	Oct. 2008- Dec. 2008	Dr. M.M. Pd, <b>Sanjay Kumar</b> , B.K. Prasad & V. Kumar	Completed
14.	Design Mix of M40 & M20 Grades of Concrete	M/s K. K. Builders Pvt. Ltd., H.No. -27, New Kalimati Road, Sakchi, Jamshedpur.	Rs. 67,967/-	Dec. 2008 - 2009	Dr. M.M. Prasad, <b>Sanjay Kumar</b> & B.K. Prasad	Completed
15.	Design Mix of M35 Grades of Concrete	M/s Kew Construction Pvt. Ltd., Moubhandar, Ghatshila, Dist- East Singhbhum, Jharkhand.	Rs. 50,652/-	Dec. 2008 - 2009	Dr. M.M. Prasad, <b>Sanjay Kumar</b> & V. Kr	Completed
16.	Design Mix of M20 & M25 Grades of Concrete	M/s Garg Construction Pvt. Ltd.,	Rs. 67,967/-	2009	Dr. M.M. Prasad, <b>Sanjay Kr</b> & V. Kr	Completed
17.	Design Mix of M20, M25 & M30 Grades of Concrete	M/s Swati Udyog Pvt. Ltd., P.O. Juri, Singhbhum, Jamshedpur.	Rs.1,28,956/-	Dec. 2008 - 2009	M.M. Pd, <b>Sanjay Kumar</b> & B.K. Pd	Completed
18.	Design Mix of M20, M25, M30 And M40 Grades of Concrete	M/s Jindal Steel Pvt. Ltd., Bokaro.	Rs.1,56,956/-	Jan. 2009	Dr. M.M. Pd, <b>Sanjay Kumar</b> & B.K.P, V. Kr	Completed
19.	Proof checking of Analysis and Design of R.U.B. composite bridge, Hazaribagh to Barkakana	M/S Ekam Consulting Pvt Ltd., J-23, VatikaGreenCity, Dimna Road, Mango, Jamshedpur-18.	Rs. 80,000/-	Jan. 2009	Dr. M.M. Prasad, <b>Sanjay Kumar</b> , B.K. Pd & V. Kumar	Completed
20.	Proof checking of Analysis and Design of Major Bridge (Composite Girder) between Kodarma to Giridih	M/S Ekam Consulting Pvt Ltd., J-23, VatikaGreenCity, Dimna Road, Mango, Jamshedpur-18.	Rs. 80,000/-	Jan. 2009	Dr. M.M. Prasad, <b>Sanjay Kumar</b> , B.K. Prasad & V. Kumar	Completed
21.	Proofchecking/Vetting of Design & Drawing of proposed CRM complex of Tata Steel at Bara, JSR., Jharkhand	M/s TCE Pvt. Ltd., Jamshedpur.	Rs.2,50,456/-	Jan. 2009	M. M. Pd, <b>Sanjay Kumar</b> & B.K. Prasad	Completed
22.	Proofchecking/Vetting of Design & Drawing of proposed Warehouse at Fatuha, Bihar.	M/s Zamil Steel Pvt. Ltd., Ranchi, Jharkhand.	Rs. 39,764/-	July 2009	Dr. M.M. Prasad & <b>Sanjay Kumar</b>	Completed
23.	Proofchecking/Vetting of Design & Drawing of proposed Warehouse at Motihari, Bihar.	M/s Zamil Steel Pvt. Ltd., Ranchi, Jharkhand.	Rs. 31,712/-	Nov. 2009	Dr. M.M. Prasad & <b>Sanjay Kumar</b>	Completed
24.	Proof checking of Analysis and Design of R.O.B. (With Skew angle 39 <sup>0</sup> ),	M/s Ashrita Engineering Services, C-158, Ashok Nagar, Ranchi-834002	Rs. 17,712/-	Dec. 2009	Dr. M. M. Pd, Dr. A. K. L Srivastava, <b>Sanjay Kumar</b>	Completed



25.	Design Mix of M20& M25 Grades of Concrete	M/s SAPL Infrastructure Pvt. Ltd., Bistupur, Jamshedpur.	Rs. 78,137/-	Jan.2010	Dr. M.M. Prasad, <b>Sanjay Kumar</b> & Dr.A.K.L.S	Completed
26.	Design Mix of M20 and M30 Grades of Concrete	M/s Simplex Infrastructure Pvt. Ltd., Kolkata.	Rs. 78,137/-	Aug.2010	Dr. M.M. Pd, <b>Sanjay Kumar</b> & Dr.A.K.L.S	Completed
27.	Proof checking of detailed Design for construction of Major Bridge no. 182 (9x45.7m) betn IB and Brajrajnagar stations,in connection with 3 <sup>rd</sup> line between Champa-Jharsuguda.	M/S Rahee Infratech Limited 107, Lakhinarayan Talla Road, Shalimar, Howrah-711103.	Rs. 59,562/-	Aug.2010	Dr. M.M. Pd, <b>Sanjay Kumar</b>	Completed
28.	Proof checking of splice joint design of 29 m span steel girder for Road Over Bridge at Namkom, Ranchi.	South Eastern Railway Office of the dy. Chief Engineer/Construction/ Ranchi.	Rs. 22,060/-	Jan.2011	M. M. Pd, <b>Sanjay Kumar</b> & A.K.L.Srivastava	Completed
29.	Proofchecking/ Vetting of Design & Drawing of proposed Warehouse at Fatuha, Bihar.	M/s Zamil Steel Pvt. Ltd., Ranchi, Jharkhand.	Rs. 60,764/-	Feb. 2011	Dr. M.M. Prasad, <b>Sanjay Kumar</b> & Dr.A.K.L.S	Completed
30.	Design Mix of M30 Grades of Concrete	The Project Manager M/S Mangalam Homes & Heritage Mall, Sonari, Jamshedpur	Rs. 45,554/-	April 2012	Dr. A. K. Khan & Dr <b>Sanjay Kumar</b>	Completed
31.	Design Mix of M25 & M35 Grades of Concretes	The Assistant Divisional Engineer-II, South Eastern Railway, Tatanagar	Rs. 81013/-	April 2012	Dr. A. K. Khan & Dr <b>Sanjay Kumar</b>	Completed
32.	Proof checking of detailed design and drawing for emergent construction of HL bridge including its approach road on 12 <sup>th</sup> km of Garhwa-Shahpur Road (MDR)	M/s Sparsh Engineering Company Pvt. Ltd, Ranchi & Govt. of Jherkhand	Rs. 1,45,000/-	June 2012	Dr. A. K. Khan & Dr <b>Sanjay Kumar</b>	Completed
33.	Proof checking of the design and drawing of Box Culvert Bridge No. 125 on Raigarh-Kotaria Section	M/S Ekam Consulting Pvt Ltd., 164 C, Ashok Nagar, Road No. 4D, Ranchi.	Rs.13,483/-	July 2012	Dr.A.K.Khan, <b>DrSanjay Kr</b>	Completed
34.	Proof checking of the design and drawing	M/S Ekam Consulting Pvt Ltd., 164 C, Ashok Nagar, Road No. 4D, Ranchi.	Rs.13,483/-	July 2012	A. K Khan & <b>Sanjay Kumar</b>	Completed
35.	Proof checking of the design and drawing of Proposed Bridge No. 2 (span 3x18.3 m) over river Kuchai at Km 293.109 on third line between	M/s Ekam Consulting Pvt Ltd., 164 C, Ashok Nagar, Road No. 4D, Ranchi.	Rs.13,483/-	July 2012	Dr.A.K.Khan, <b>Dr Sanjay Kumar</b>	Completed

36.	Design Mix of M25, M30 & M35 Grades of Concretes for Construction of Bridges under PMGSY in Deoghar District	M/s K.K.Builders Pvt. Ltd., New Kalimati Road, Sakchi, Jamshedpur	Rs.98,090/-	March 2013	Dr.A.K.Khan, Dr <b>Sanjay Kr</b>	Completed
37.	Testing of construction materials (Site No.-1)	M/s Project Manager CBDWSPL, Bistupur Jamshedpur	Rs.80,000/-	2016	Dr M M Pd Dr <b>Sanjay Kr</b>	Completed
38.	Testing of construction materials (Site No.-2)	M/s Project Manager CBDWSPL, Bistupur Jamshedpur	Rs.80,000/-	2016	Dr M M Pd Dr <b>Sanjay Kr</b>	Completed
39.	Testing of Materials and Mix Design of M25 grade of concrete of Office Building for PF Organization Employees	M/s Assistant Engineer, NIT Project Div.-III, Adityapur, Jamshedpur	Rs. 155000/-	2016	Dr M M Pd Dr <b>Sanjay Kr</b>	Completed
40.	Testing of construction materials for construction of 500 bedded Hospital at Kharsawan	M/s Ranjit Kumar, Dy, Project Manager (C) NBCC Ltd. Ranchi	Rs. 103000/-	2016	Dr <b>Sanjay Kr</b> Dr B K Pd	Completed
41.	Checking and Vetting of Structural Design Stability of a PEB Steel Building (Admin. building) at HWMF, Adityapur	M/s Adityapur Waste Management Pvt. Ltd. [RAMKY], Sini More, Saraikela-Kharsawan	Rs. 51000/-	2016	Dr A. K. Singh Dr <b>Sanjay Kr</b>	Completed
42.	Structural Design Review/ Monitoring of RCC and others of Chhota Govindpur & Baghbera piped water supply schemes (MVS)	Government of Jharkhand	<b>Rs. 200 Lakhs</b>	2016-2019	M.M.P, A.K.L.S, RPS, <b>Sanjay Kr</b> AKS, P.P, B.K.P, V.K, SKP	Completed
43.	Mix Design of M25 grade of Concrete	M/s Likhitha Infrastructure Pvt. Ltd. Hyderabad	Rs. 76582/-	2018	Dr. A.K.L Srivastava Dr <b>Sanjay Kr</b>	Completed
44.	Mix Design M25 & M30 grade of Concrete	M/s Shapoorji Pallonji & Co. KIPL(JV), Kadma, Jamshedpur	Rs. 140538/-	2018	Dr <b>Sanjay Kr</b> Dr B K Pd	Completed
45.	Mix Design-M35 & M40 grade of Concrete	M/s Aakash (India) Projects & Builders Pvt. Ltd., Mango, Jamshedpur--	Rs. 124018/-	2019	Dr <b>Sanjay Kr</b> Dr P. Pd	Completed
46.	Mix Design M20 & M25 grade of Concrete	M/s Vikash Engineering, Novamundi, Singhbhum, Jharkhand-	Rs. 178534/-	2019	Dr <b>Sanjay Kr</b> Dr P. Pd	Completed
47.	Vetting of Structural Design and Structural Drawings for proposal (G+3) storied building at Seraikela for Pradhan Mantri Awas Yojna-	M/s Skematic Consultants, Dumdum Park, Kolkata	Rs. 35400/-	2019	Dr <b>Sanjay Kr</b> Dr S. Metya	Completed

48.	Mix Design of M25 grade of Concrete (Pumpable concrete)	M/s S. G. Construction Co. Engineers & Contractors, New Delhi--	Rs. 103132/-	2019	Dr <b>Sanjay Kumar &amp;</b> Dr P. Pd	Completed
49.	Mix Design of M30 grade of Concrete (Pumpable concrete)	M/s Tarapore & Company, Baspani Road, PO+PS: Joda-758034 Keonjhar, Odisha	Rs. 107852/-	2019	Dr <b>Sanjay Kumar &amp;</b> Dr P. Pd	Completed
50.	Non-Destructive Test of concrete structure by Rebound Hammer	M/s Rakesh Enterprises, Contractors & Engineers, Nirmala Bhawan, Dimna Road, Mango Jsr	Rs. 35400/-	2020	Dr <b>Sanjay Kumar &amp;</b> Dr S. Metya	Completed
51.	Mix Design M25 & M30 grade of Concrete	Executive In-Charge, EPC-WATER, Jusco Ltd. Northern Town Bistupur Jamshedpur.	Rs. 1,78,534/-	2020	Dr <b>Sanjay Kumar, &amp;</b> Dr V. Kr	Completed
52.	Mix Design M40 grade of Concrete	M/s Balaji Constructions Engineers & Contractors Sonari, Jamshedpur	Rs. 1,07,904/-	2020	Dr. A.K.L Srivastava Dr <b>Sanjay Kr</b>	Completed
53.	Proof Checking of Railway Minor Bridge No. 19 and 22	Shri M. Venkatesh, D.P.M. M/s RSR-PBS (JV), Tilak Road, Rajamundry-3, A.P.	Rs. 59,000/-	2020	Dr <b>Sanjay Kr</b> Dr B K Pd, & Dr. S. Metya	Completed
54.	Mix Design M35, M40 & M50 grade of Concrete of Paver Blocks	M/s R. K. Construction, Jamshedpur	Rs. 2,39,776/-	2021	Dr <b>Sanjay Kumar &amp;</b> Dr.S. Biswas	Completed
55.	Mix Design M25, M30 & M35 grade of Concrete	M/s Shapoorji Pallonji & Co. Pvt. Ltd, 500 Bedded Hospital Projects at Palamu, Jharkhand	Rs. 2,36,826/-	2021	Dr <b>Sanjay Kumar &amp;</b> Dr.S. Biswas	Completed
56.	Mix Design M20, M25 & M30 grade of Concrete	M/s Tata Power FGD Project, Jojobera, Jamshedpur	Rs. 2,59,836/-	2021	Dr. A.K.L Srivastava Dr <b>Sanjay Kr</b>	Completed
57.	Vetting of Structural Drawing of [G +8] Residential Building under PMAY.	M/s Mohan Poddar, A/406 Crystal Arcade, Shankar Nagar, Raipur, Chhattisgarh-	Rs. 1,18,000/-	2021	Dr <b>Sanjay Kumar &amp;</b> Dr. K. K. Sharma	Completed
58.	Proof Checking the Design and Drawing of Adityapur Station Building under RVNL.	M/s Chhaya Architect and Consultants, Third Floor, Taj Building, Aambagan, Sakchi, Jamshedpur	Rs. 59,000/-	2021	Dr Sanjay Kumar	Completed
59.	Proof Checking/Vetting of Structural Designed by M/s Chhaya Architect and Consultants for Proposed Construction of Officers Quarters Building at Chakradharpur, LIC, Jharkhand.	Manager (Estates) Life Insurance Corporation of India Jamshedpur Divisional Office Jeevan Prakash Building Jamshedpur	Rs. 59,000/-	2021	Dr Sanjay Kumar	Completed

60.	Proof Checking of Detailed Design & Drawing of Bridge nos 8A (Span 1 x 7.5x 5.1) RCC Box at CH: 16/450 KM	M/s EMAK Consultancy Engineers Pvt Ltd Argora Road, Ranchi, Jharkhand	Rs. 29,500/-	2021	Dr Sanjay Kumar & Dr Seeram Madhuri	Completed
63.	Mix Design M35 grade of Concrete with 53 Grade OPC Cement	M/s JWIL – SPML JV Sustainable Water Management, Jindal ITF Centre, New Delhi.	Rs. 1,07,852/-	2021	Dr Sanjay Kumar	In progress
64.	Mix Design Job of Concrete with 400 Kg OPC Cement 53 Grade OPC Cement	M/s JWIL – SPML JV Sustainable Water Management, Jindal ITF Centre, New Delhi.	Rs. 1,07,852/-	2021	Dr Sanjay Kumar	In progress

**18. Development of Course Material / Monograph: N.A.**

S. No.	Details
1.	Introduction of the subject Sustainable Development (GE18106CE) in all branches (U.G. level) in Semester course
2.	Introduction of the subjects Prestressed Concrete (CE16117) and Bridge Engineering (CE16116) in Civil Engineering(U.G. level) in Semester course

**19. International Exposure:**

S. No.	Details
1.	Interaction with several foreign researchers during attending international Conference and Workshop to know latest development in the field of Civil Engineering and to meet our vision and achieve goal.

**20. Any other Academic Contribution:****(a) Membership of Professional Societies**

1. Life Member of INDIAN ROAD CONGRESS (I.R.C.)  
**L.M. No. 29747.**
2. Subscriber of Indian Concrete Journal **No. 1001008390).**
3. Life Member of “The Indian Society for Technical Education” (ISTE)  
**L.M.No. 45740.**

**(b) Reviewer in Journals**

1. Journal of Structural Engineering (Madras) – [SCOPUS]
2. Journal of Construction and Building Materials – [SCI]
3. Journal of Structures – [SCI]

**Innovations in teaching:**

- Tutorial sheets, Home assignments, Quiz test, Class test etc. have made available and finally their submission in the stipulated time period.
- Field visit for the different subjects: Like Tata Motors for Steel Design, Lafarge Cement for Concrete Technology, JUSCO, Chandil Dam for WRE etc.
- Special /group discussions on a particular problem have made available.

**Vision:**

All kinds of resources and interaction may be utilized to get closer contact with nearby organizations like National Metallurgical Laboratory, Tata Steel, Tata Motors, XLRI, Jamshedpur and I.I.T., Kharagpur to meet our vision and achieve goal. I am always remaining stand in a hope to get inspired to achieve our Institution at par with other IIT's/World Class Institutions.

I, hereby, declare that all the statements/ particulars made/furnished are true, complete and correct to the best of my knowledge and belief.

Place:

Date:

(Signature)