

CURRICULAM VITAE

Name : Dr. M. **Chakradhara Rao**
Position : Associate Professor, Civil Engg. Dept., IT,
Guru Ghasidas Vishwavidyalay (A Central University)
Bilaspur, C.G., India
Date of Birth : 15th June 1973
Present Address : Q.No: H-4, GGV Campus, GGV, Bilaspur
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Education:

Ph.D (Structural Engg.): **Indian Institute of Technology, Kharagpur**, India, 2010
M.Tech. (Structural Engg.): **National Institute of Technology, Surathkal**, India, 1999
B.Tech. (Civil Engg.): Nagarjuna University, Andhra Pradesh, India, 1997
Diploma (Civil Engg.): MVGR Government Polytechnic, Vizianagaram. Andhra Pradesh, 1993
S.S.C: Board of Secondary Education, Hyderabad, 1987

Research Interests:

- **Reuse of Construction Waste Material in Concrete**
- **Static and Impact Testing of Concrete**
- **Microstructural Analysis of Concrete**

Research Experience and Publications:

- **Worked as Project Associate from Jan, 2007 to Dec, 2009, in the Department of Civil Engineering at IIT Kharagpur.**
- **Chakradhara Rao, M.,** Bhattacharyya,S.K., Barai,S.V. *Influence of Field Recycled Coarse Aggregate on Properties of Concrete. Journal of Materials and Structures, RILEM (Springer), 44 (1), 205 – 220, 2011.*
- **Chakradhara Rao, M.,** Bhattacharyya,S.K., Barai,S.V. *Behaviour of Recycled Aggregate Concrete under Low velocity Impact. Journal of Construction and Building Materials (Elsevier), 25 (1), 69 – 80, 2011.*
- **Chakradhara Rao, M.,** Bhattacharyya,S.K., Barai,S.V. *Recycled Coarse Aggregate and its Use in Concrete. Indian Concrete Institute Journal, Jan-March, 2011.*
- **Chakradhara Rao, M.,** Bhattacharyya,S.K., Barai,S.V. *Microstructure of Recycled Aggregate Concrete. Journal of Structural Engineering, 38 (1), 75 – 83, 2011.*

- **Chakradhara Rao, M.,** Bhattacharyya,S.K., Barai,S.V. Non Destructive testing of recycled aggregate concrete. International Journal of Structural Engineering and World Congress, March, 2012.

International Conferences

- **Chakradhara Rao, M.,** Bhattacharyya,S.K., Barai,S.V. *Preliminary Test Results of RCA based Concrete.* **Proceedings of International Conference on XXXVI World Congress on housing Sector, Kolkata, 3-7th November 2008.**
- **Chakradhara Rao, M.,** Bhattacharyya,S.K., Barai,S.V. *Characterisation of Recycled Aggregate Concrete.* **Proceedings of the Sixth Structural Engineering Convention, SEC-2008, Chennai, 18-20th December 2008.**
- **Chakradhara Rao, M.,** Bhattacharyya,S.K., Barai,S.V. *Influence of Different Sources of Recycled Coarse Aggregate on Properties of Concrete.* **Proceedings of First International Conference on Recycling and Reuse of Materials (ICRM 2009), Kottayam, Kerala, 17-19th July 2009.**
- **Chakradhara Rao, M.,** Bhattacharyya,S.K., Barai,S.V. *Characterisation of Recycled Aggregate Concrete Prepared with Recycled Coarse Aggregate obtained from Two Different Sources.* **International Conference on Advances in Concrete, Structural and Geotechnical Engineering, Pilani, 25-27th October 2009.**
- **Chakradhara Rao, M.,** Bhattacharyya,S.K., Barai,S.V. *Towards Waste to Wealth: Construction and Demolition (C&D) Waste as Aggregate in Concrete.* International Seminar on “**Waste to Wealth**” “**Green Building Materials and Construction Technologies using Agricultural and Industrial Waste**”. New Delhi, 12-13th November 2009.
- **Chakradhara Rao, M.,** Bhattacharyya,S.K., Barai,S.V. *Recycled Aggregates: A sustainable Construction Material.* The National Conference on “**Sustainable Development of Urban Infrastructure**” VNIT Nagpur, 18 – 19th June 2010.
- **Chakradhara Rao, M.,** Bhattacharyya,S.K., Barai,S.V. *Influence of Recycled Aggregates on Mechanical Properties of Concrete.* **The 5th Civil Engineering Conference in the Asian Region and Australasian Structural Engineering Conference 2010.** Sydney, Australia, 8 – 12th August 2010.
- **Chakradhara Rao, M.,** Bhattacharyya,S.K., Barai,S.V. *Recycled aggregate concrete: A sustainable built environment.* **International conference on Sustainable built environment – The state of the art.** 12-14th December 2010, Kandy, Srilanka.
- **Chakradhara Rao, M.,** Bhattacharyya,S.K., Barai,S.V. *Microstructure of Recycled aggregate concrete.* **Proceedings of the Seventh Structural Engineering Convention, SEC-2010, Annamalai Univeristy, Tamilanadu, 8-10th December 2010.**

Lecture Notes

- “Recycled Aggregate Concrete” A QIP Short term course on “**Pavement, Materials, Design and Evaluation**” Organized by **Civil Engineering Department, IIT Kharagpur, 2009.**
- “Recycling of Construction and demolition Waste” AICTE Sponsored Staff Development Program organized by GMRIT, RAJAM, 30th May to 11th June 2011.

Research Projects:

- 1) Title: Normal and medium strength concrete with 100% recycled coarse aggregate
Funding Agency: CSIR, New Delhi, India
Duration: 3 years
PI: Dr.M.Chakradhara Rao
- 2) Title: Effective Treatment techniques to remove the attached Cement Mortar from recycled aggregate and test its fitness to use in concrete
Funding Agency: DST, New Delhi, India
Duration: 3 years
PI: Dr.M.Chakradhara Rao
Status: Submitted for Approval

Research Projected Involved:

1. Title: Recycled Aggregate Based Concrete
Sponsoring Agency: University Grants Commission (UGC), India
Duration: 3 yrs
Worked as Project Associate at IIT Kharagpur

Professional Experience:

1. *Period from May 2012 to Till date*
Organization: IT, GGV, Bilaspur, C.G., India
Position held: **Associate Professor**
2. *Period from March 2011 to April, 2012*
Organization: GITAM University, Visakhapatnam, Andhra Pradesh, India
Position held: **Professor**
3. *Period from September 2010 to March 2011*
Organization: Bapatla Engineering College, Bapatla, Andhra Pradesh, India
Position held: **Professor & Head, Civil Engg.Dept.**
4. *Period from March 2005 to January 2007*
Organization: Bapatla Engineering College, Bapatla, Andhra Pradesh, India
Position held: **Assistant Professor**

5. *Period from July 1999 to March 2005*

Organization: Bapatla Engineering College, Bapatla, Andhra Pradesh, India

Position held: **Lecturer**

Additional Responsibilities Held:

At GGV

- **Looking after the construction activities of GGV, which involves mainly the Design and vetting and proof checking of structural designs of various buildings, Technical suggestions at various construction sites, etc.**
- **In-charge for Materials and Structures Laboratories of Civil Engg. Dept., IT**
- **Member, CEC&CMC, GGV**
- **Member, Academic Council, GGV**
- **Member, Curriculum Revision, Dept. of Civil Engineering**

At GITAM University

- Departmental Research Coordinator, Civil Engineering, GITAM University
- Coordinator, Class work monitoring, GITAM University
- Member, BOS, Civil Engineering

At Bapatla Engineering College

- Head, civil Engineering Department
- Chairman, BOS, Civil Engineering
- Looking after the structural designs and construction activities of sister institutions of Bapatla Engineering College during 2004 to 2006.
- Concrete Laboratory In-Charge
- Laboratory In-Charge for Fluid Mechanics
- Material testing and evaluation for many private and public sector organizations