

# Dr.S.R.K.Reddy

**Department:** Civil Engineering

**College:** Gudlavalleru Engineering College

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## RESIDENTIAL ADDRESS:

Dr. S.R.K reddy

Professor in civil engineering dept , Gudlavalleru Engineering College,

Seshadri rao Knowledge village, gudlavalleru-521356,A.P

## ACADEMIC QUALIFICATIONS:

Institute Studied	Degree	% of Marks	Year	Field of Specialization
Andhra University, Visakhapatnam	Ph.D	-	March 2006	CIVIL Engineering Topic: Terrain Evaluation and
University of Roorkee, Presently IIT Roorkee,	M.E.	72.5	1975	Earthquake Engineering (Structural Dynamics)
Institution of Engineers (India), Kolkata.	AMIE	60.5	1970	CIVIL Engineering
S.M.V.M. Polytechnic, Tanuku, West Godavari Dist.	LCE.	66.6	1963	CIVIL Engineering

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## ACADEMIC REWARDS / ACHIEVEMENTS:

- i) Special Invitee by the President of India in January 1977 on the occasion of presenting a paper at 6<sup>th</sup> World Conference on Earthquake Engineering held at New Delhi.

- ii) Best Teacher award in JNTUK, Kakinada region in the year 2008
- iii) Attended International Conferences (sponsored by UGC and MHRD, Government of India)
  - at
  - a) Singapore in 1994
  - b) Venice, Italy in 2006 and
  - c) Vancouver, Canada in 2008
- iv) Specialist in Earthquake Engineering
- v) Nominated as Paper Reviewer of International Conferences organized by International Society of Off-shore and Polar Engineering (ISOPE), California, USA.
- vi) Examiner for Ph.D awards at Baba Ambedkar University, Aurangabad

**PROFESSIONAL EXPERIENCE:**

<b>Designation</b>	<b>Institution</b>	<b>Period</b>
Professor	Gudlavalleru Engineering College, Gudlavalleru, Krishna Dist., A.P.	01-03-2015 to till date
Director	Gudlavalleru Engineering College, Gudlavalleru, Krishna Dist., A.P.	01-03-2010 to 28-05-2015
Principal	Gudlavalleru Engineering College, Gudlavalleru, Krishna Dist., A.P.	01.05.2008 to 28-02-2010
Director	Gudlavalleru Engineering College, Gudlavalleru, Krishna Dist., A.P.	05.03.2005 to 30-04-2008
Professor & Head of Civil Engineering	S.R.K.R. Engineering College, Bhimavaram, A.P.	19 Years
Reader	S.R.K.R. Engineering College,	2 Years

	Bhimavaram, A.P.	
Reader	Bapatla Engineering College, Bapatla, Guntur Dist., A.P.	1 Year
Reader & Lecturer	V.R.S. Engineering College, Vijayawada, A.P.	4 Years
Asst. Lecturer	S.M.V.M. Polytechnic, Tanuku, A.P.	14 Years

### **PROJECTS GUIDED/ GUIDING:**

<b>PhD</b>	<b>Post Graduation</b>	<b>Under Graduation</b>
<b>3</b>	<b>5</b>	<b>150</b>

### **SPECIALIZATION:** CIVIL Engineering

Topic: Terrain Evaluation and seismic response of structures in Urban environs of Hyderabad A.P., India

### **RESEARCH PAPERS / BOOKS:**

#### **BOOKS PUBLISHED IN PUBLICATIONS:**

S.R.K.Reddy & K.V.Subba Raju, Editors, Proceedings of National Seminar on "Corrosion in concrete structures and other building materials" during March 24 - 25, 1990.

Book on "Terrain Evaluation and Earthquake Response of Structures" by Reddy SRK and Raju KRK, Lap Lambert Publishing & Co., Germany.

#### **PAPERS PUBLISHED IN JOURNALS:**

##### **a). International Journals:**

1. "Response of Coastal Structures Against Earthquake Forces Considering Soil – Structure Interaction and Tsunami Run – Up Forces" International Journal of Innovative Technology and Exploring Engineering (2013) ISSN:2278-3075 Vol.3, Issue 1, PP: 91-98.
2. "Earthquake response of structures under different soil conditions" International Journal of Engineering Research and Technology (2012) Vol.1, Issue.7, PP 1-6.
3. "Response of Coastal Buildings Subjected to Seismic and Tsunami Forces" International Journal of Engineering Science and Technology (2010) Vol.2(11) 6195-6203.
4. "Terrain Evaluation and Influence of Soil-Structure Interaction on Seismic Response of Structures in Urban Environs" proceedings of Third International Conference on "Protection of Structures against Natural Hazards" held during 27 – 29 September 2006 at Venice, Italy PP 235-242
5. "Vulnerability Assessment and Mitigation Measures against Earthquake induced Tsunamis" Proc. of International Conference on Advances in Structural Dynamics and its applications, 7-9, Dec. 2005, Visakhapatnam, PP357-365.
6. "Integrated Remote Sensing based Terrain Evaluation - A factor for seismic response of structures" 12th SEE-2002, Vol-I Roorkee, PP232-240.
7. "Durability of Concrete Structures in Marine Environment" Bulletin of Electrochemistry, International Journal Electrochemical Science & Technology, Vol 12 No. 1-2, Jan 1996, PP 20-25.
8. "Corrosion survey of concrete structures under Marine Environment" proceedings of Third International Kemsky conference on "Global Trends in Structural Engineering", Singapore, PP-531-537, July 1994.
9. "Control Measures against corrosion in Concrete bridges "Proceedings of the International conference on Bridges and Flyovers, Hyderabad, PP 69-75, Feb. 1991.

**b) Proceedings of International conferences / symposiums:**

1. "Response of Coastal structures against earthquake and Tsunami forces" ISOPE-2008, Vancouver, Canada, July 2008.
2. "Durability of Concrete structures in Marine Environment" 5th International Symposium on Advances in Electro - Chemical Science and Technology, 24-26 Nov. 1994, Madras.
3. "On transfer of column loads to pile group through shell types forms" IASS International symposium, Bangalore, Vol. I! PP 719-728, 1988.

4. "Parametric study on the behaviour of water tower during Earthquakes" proceedings of the First International Conference on Multipurpose High rise R.C.C.Towers and other structures, Bangalore, PP 35-40, 1988.
5. "Seismic behaviour of framed foundations of turbo-generators" Proceedings of 6th World Conference on Earthquake Engg., New Delhi, Jan. 1977, PP1621-1630, Vol.2

**c) Proceedings in National conferences / symposiums:**

1. "Tsunami Warning Systems through GIS Applications" at Institute of Engineers Local Centre Vijayawada on the occasion of National Survey Day, 10<sup>th</sup> April 2010.
2. "Mechanism of Earthquakes and Tsunamis and their Impact on Structures" one day workshop on "Save Mother Earth" held at SRKR Engineering College, Bhimavaram on 04-03-2010.
3. "Impact of Earthquakes and Tsunamis on Coastal Structures" at one day seminar on "Disaster Management Measures in Coast Andhra-An Imperative" at Gudlalleru Engineering College, Gudlalleru on 09- 02-2010.
4. "Innovation-Unique Practice for Continuous Improvement" Proceedings of National Conference on "Best Practices in Engineering Education" organized by Engineering Education Foundation, Pune, 2- 3, Feb. 2007, Paper No.22.
5. "Earthquake Mechanism and Seismic effects on Ground and Structures" Proc. Of STTP on Engineering Technologies in Civil Engineering for Sustainable Development, 26-31, Dec. 2006, Bhimavaram, A.P., PP 1-11
6. "Seismic Vulnerability Assessment of Existing structures in Urban Areas" Proc. Of STTP on Engineering Technologies in Civil Engineering for Sustainable Development, 26-31, Dec. 2006, Bhimavaram, A.P., PP 41-51.
7. "Damaging Effects of Earthquakes and its Response on Structures" A three day training programme on "Earthquake Resistance Design of Structures" organized by Vijayawada Municipal Corporation, Vijayawada during 15 – 17, June 2006.
8. "Tsunamis" A three day Training programme on "Earthquake Resistant Design of Structures" organized by Vijayawada Municipal Corporation, Vijayawada during 15 – 17, June 2006.
9. "Influence of Soil-Structure Interactions on Earthquake Response of Structures" A three day training programme on "Earthquake Resistance Design of Structures" organized by Vijayawada Municipal Corporation, Vijayawada during 15 – 17, June 2006.

10. "Earthquakes and their effect on ground and structures" Key Note Address, Proc. of National Conference on sustaining Technology for Advancements in Civil Engineering, during 24-26, Nov 2005 Bhimavaram, A.P., PP33-42
11. "Influence of Soil-Structure Interaction on Response of structure against Earthquake forces" Proceedings of STTP on "Disaster Resistant Design and Construction of Structures" Annamalai University, Tamilnadu, PP297-303 on 22-11-2004
12. "Roll of Geological and Seismological Studies on the response of structures against earthquake forces" AICTE-ISTER STTP on Advancements in concrete structures and materials, 29th March to 3rd April 2004, at Bhimavaram (A.P) ,PP35-44.
13. "State of Art-on-Earthquake resistant design of structures" at seminar on "Impact of Earth Quake on Buildings and their remedies" conducted by Coastal Builders Association, Vijayawada on 16-03-2001.
14. "A few case studies of deterioration of structures due to corrosion" PP B.20-Proceedings of the National Seminar on Corrosion on Concrete Structures and other building materials, Bhimavaram, March 1990
15. "Corrosion control of concrete structures" PP D-20, Proceedings of the National Seminar on Corrosion in concrete structures and other buildings materials, Bhimavaram, March 1990.
16. "Corrosion control of concrete structures in Marine Environment" National seminar on Research, Design and construction of offshore structures, Visakhapatnam, Feb. 1990.
17. "Design criteria for dynamic response on the elements of precast structural systems" Seminar on slum Improvement through reconstruction, A.U.College of Engg. Waltair, April 1988.
18. "Characteristics study of framed type foundations on different soils" Proceedings of symposium on Modern trends in analysis, design and construction of engineering structures, Jan.1986,Warangal.
19. "Seismic analysis of turbo-generator mat for Narora atomic power plant" Earthquake Engineering studies pp.75-81,Jan. 1975, Univ. of Roorkee, Roorkee.

**PAPERS PUBLISHED IN CONFERENCES/WORKSHOPS: NIL**

**LIST OF WORKSHOPS ORGANIZED: NIL**

## **LIST OF WORKSHOPS /CONFERENCES /SEMINARS ATTENDED:**

### **International Conferences attended in ABROAD:**

1. International Society of Offshore and Polar Engineers (ISOPE) Conference held at Vancouver, Canada during 10 – 16 July 2008.
2. Third International Conference on “Protection of Structures against Natural Hazards” held during 27 – 29 September 2006 at Venice, Italy.
3. Third International Kinsky Conference on "Global Trends in Structural Engineering", Singapore, July 1994.

### **b) International Conferences attended in INDIA:**

1. IIT Madras – INAE-CAETS International Conference on “International Engineering Education” Organized by IIT Madras on 1<sup>st</sup> and 2<sup>nd</sup> March 2007.
2. International Conference on "Advances in structural Dynamics and its applications" held at GITAM, Visakhapatnam during 7-9, Dec. 2005.
3. International Conference on Bridges and Flyovers, Hyderabad, Feb. 1991.
4. International symposium on "Innovative Applications of Shells and Spatial Forms" 21 - 25 Nov. 1988, Bangalore.
5. First International conference on "Multipurpose High rise R.C.C. towers and other structures", Bangalore 1988.
6. Sixth World Conference on "Earthquake Engineering", Jan. 1977, New Delhi.

### **c) National Level Conferences/training programmes attended in INDIA:**

1. National Conference on "Sustaining technology for advancements in Civil Engineering" held at S.R.K.R. Engineering College, Bhimavaram during 24 -26, Nov. 2005.
2. Professional Development Programme on “Management of Engineering Colleges for Quality Education” Organized by Engineering Staff College of India, Hyderabad during 04-06, May 2005.
3. AICTE-ISTE sponsored STTP on "Advancements in concrete structures and materials" during 29th March - 3rd April 2004 at S.R.K.R. Engineering College, Bhimavaram, A.P.
4. Short Term Training Course on "Seismic Resistance of Masonry Structures" under NPEEE programme at I.IT., Chennai 21 - 26 June 2004.
5. Workshop on "Resource Material in Earthquake Engg." Under NPEEE programme at I.IT., Kanpur 26 - 30 April 2004.

6. Short Term course on "Structural Dynamics and Earthquake Engineering" under NPEEE programme at I.I.Sc, Bangalore, 8-13 March 2004.
7. Short Term course on "Advanced Concrete Technology of Constructional Practices" at Gayatri Vidya Parishad College of Engineering, Visakhapatnam, 22 - 24 Jan. 2003.
8. AICTE, NBA Experts Orientation Work Shop on 13th and 14th October 2000 held at JNTU, Hyderabad.
9. Short Term Course on "Random vibrations and applications to Earthquake Engineering" held at IIT.,Khargpur during 21 - 31 Dec. 1999.
10. Short Term Course on "Seismic Design of R.C. Structures" at IIT., Bombay 3-7 Dec. 1996.
11. National workshop on "Codes of practices for R.C. Structures" held at J.N.T.U., Hyderabad on 28-29, July 1995.
12. Continuing Education course on "Future Scanning technology forecasting, Assessment and Management" conducted by Engineering Staff College of India, Hyderabad, 1-6 Jan. 1990.

## **CERTIFICATIONS: NIL**

## **GUEST LECTURES DELIVERED:**

1. Invited lecture on "Earthquakes – Their effect on Buildings located in Seismic Regions" on Engineer's Day, 15-09-2001 at S.R.K.R. Engineering College, Bhimavaram, A.P.
2. Invited lecture on "Terrain Evaluation & Seismic Response of Structures" at K.L.C. College of Engineering, Vaddeswaram, Guntur Dist. on 13-09-2005.
3. Invited lecture on "Influence of soil – structure interaction during earthquakes" as resource person at National programme for "Capacity of Engineers in E.Q. risk Management" organized by G.V.P. College of Engineering, Visakhapatnam, 12-17 April 2006.
4. Invited lecture on "Earthquake effects and behaviour of structures during earthquakes" at Gudlavalleru Engineering College on 10-03-2006.
5. Invited lectures on
  - i) "Earthquake Induced Tsunamis" and

- ii) “Damaging Effects of Earthquakes and its response on structures” delivered at Three Day training programme on Earthquake Resistant Design of structures, 15 – 17, June 2006 organized by Vijayawada Municipal Corporation, Vijayawada under UEVR Project, New Delhi.

### **MEMBERSHIP IN PROFESSIONAL BODIES:**

1. FIE – Fellow of Institution of Engineers(India)
2. MISTE - Member of Indian Society for Technical Education, India
3. Building committee member of Krishna University, Andhra Pradesh.
4. Building committee member of many colleges in East and West Godavari Districts for U.G.C. sponsored building projects.
5. Governing Body Member of Gudlalleru Engineering College, Gudlalleru.

### **CONSULTANCY ACTIVITIES:**

Actively associated with various consultancy services like testing of materials in laboratories, Load testing of Piles and Bridge decks slabs, design of various typical structures like multistoried buildings, industrial structures, bridges, water tanks, rig foundations etc., offered by ONGC, railways, Municipalities and the state and central government organizations.

### **Some Critical Innovative projects taken up:**

1. More than 250 ONGC rig foundation designs and more than 100 bridge inspections were carried out for ONGC organization, Krishna – Godavari basin, Rajahmundry.
2. Strengthening measures for ONGC blow out rig foundation at Pasarlappudi drill site near Amalapuram, East Godavari Dist.
3. Strengthening over head service reservoir of Bhimavaram Municipality.
4. Design of 21 m span gabled lattice girder for Auditorium at Cosmopolitan club, Bhimavaram
5. Design of storage reservoir for blow out equipment at Temple land store complex ONGC, Narasapur.
6. Hollow brick in filled R.C. slabs of size 10m x 10m for cold storage processing plant at Sessali, West Godavari Dist.

7. Load carrying capacity of existing bridges by conducting field load tests on bridges.
8. Terrain evaluation of a part of Hyderabad City to study the behaviour structures against earthquake forces.

**GRANTS FETCHED:**