

## CURRICULUM VITAE

**Dr.G.Reddy Babu**

**Ph.D., FIE**

**Professor**

**Dept of Civil Engineering**

**Gudlalleru Engineering College**

**Gudlalleru**

**Andhra Pradesh, India.**

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### EXPERINCE SUMMARY

•Working as **professor**, Dept of Civil Engineering, **Seshadri Rao Gudlalleru Engineering College,Gudlalleru**, from 1<sup>st</sup> June, 2018

• Worked as **professor and Head**, Dept of Civil Engineering, **Vishnu Institute of Technology**, Bhimavaram, from 14<sup>th</sup> May, 2016 to 31<sup>st</sup> May 2018 (2 Yrs)

•Worked as **professor and Head**, Department of Civil Engineering, **Narasaraopeta Engineering College (NEC)**, Narasaraopet, from 29<sup>th</sup> Sept 2011 to 2<sup>nd</sup> May, 2016 (4Yr 7 months)

Worked as **professor**, Department of Civil Engineering, **Kallam Haranadhareddy Institute of Technology(KHIT)**, Guntur from 10<sup>th</sup> June 2011 to 28<sup>th</sup> Sept, 2011 (3 months)

•Worked as **professor & Principal**, **GITMW, Proddatur** from 1<sup>st</sup> Dce, 2010 to 9<sup>th</sup> June 2011(6 months).

Worked as **professor and Head**, Department of Civil Engineering, **SVITS**, Mahabubnagar, from 1<sup>st</sup> Aug 2010 to 30<sup>th</sup> Nov, 2010 (4 months)

• Worked as **Assistant professor** in Department of Civil Engineering, **Srikalahasteswara Institute of Technology (SKIT)**, Srikalahasti, from 31<sup>th</sup>, May 2006 to 31 July 2010 (4 yrs 2 month).

• Worked as **Teaching Assistant** in Department of Civil Engineering, **S V U College of Engineering, S V University**, Tirupati from 7<sup>th</sup>, July, 2003 to 29 April 2006 (2 yrs 10 month).

• Worked as **Assistant professor** in **Siddharth Institute of Engg & Tech, Puttur**, from 15<sup>th</sup> Oct 2001 to 21<sup>st</sup> Oct April, 2002 (1 yr).

**Total Teaching Experience: 22 Years**

## **EDUCATION**

- **Doctor of Philosophy in Civil Engineering** from J N T University, Anantapur, A.P, India, March, 2010.
- **Master of Technology in Environmental Engineering with First Class** from S.V.U.College of Engineering, S.V.University, Tirupati, Jan, 2002.
- **Bachelor of Technology in Civil Engineering** from S.V.U.College of Engineering, S.V.University, Tirupati, Sept, 1997.

## **PERSONAL INFORMATION**

Name : G.Reddy babu  
Father's Name : G. Anjaiah  
Date of Birth : 29 – 04 – 1966  
Marital status : Married

## **Publications in International Journals**

G. Reddy Babu, Fluoride Removal in Groundwater by Ordinary Portland Cement Blocks, Journal of Technology, Volume:12, Issue: 1, Jan, 2024 Pp, 94 – 105, (Scoups) ISSN: 1012-3407 DOI:18.15001/JOT.2024/V12I1.24.3024 <https://journaloftechnology.org/volume-12-issue-1-2024/>

1.C.Rajakumar , P. Kodanda Rama Rao , G. Reddy Babu, A.Sreenivasulu, ,2021, Experimental and numerical prediction of California bearing ratio of expansive soil stabilized by bagasse ash and geotextile reinforcement, IOP Conference Series: Earth and Environmental Science 796 (2021) 012057, doi:10.1088/1755-1315/796/1/012057

<https://tinyurl.com/y9ejw76u>

2. C.Rajakumar,G.Reddybabu,P.Kodanda Rama Rao,2021,Landslide hazard zonation mapping using frequency ratio and relative effect models in Katteri macro watershed Nilgiris district, Tamilnadu, IOP Conf. Series: Earth and Environmental Science 796 (2021) 012059,doi:10.1088/1755-1315/796/1/012059

<https://tinyurl.com/45ahhhuy>

3. V.V.V.Sarma Velavalapalli, **G. Reddy Babu**, P.Manoj, **Speculative Study On Properties Of Concrete By Partial Replacement Of Cement With Metakaolin And Ornamental Quarry Dust**, published in **International Journal of Research and Technology**, Vol. 8, Issue 4, Dec, 2020, Pp; 206-218 , ISSN: 2321–7529 (Online) || ISSN: 2321–7510 (Print).

**4. C. Rajakumar and G. Reddy Babu, Experimental study and neural network modelling of expansive sub grade stabilized with industrial waste by-products and geogrid, published in Journal of Materials Today: Proceedings , Vol. 4, 2021, Pp:131-137 (Elsevier) ISSN: 2214-7853**

<https://tinyurl.com/5n6pku39>

**5. G. Reddy Babu, N V Ramana, T.Naresh Kumar and K. Visesh Kumar, Effect of Nanosilica on Properties and Durability in Cement, published in Journal of Materials Today: Proceedings Vol. 9, 2019, Pp:599-605 (Elsevier) ISSN: 2214-7853**

<https://doi.org/10.1016/j.matpr.2019.07.739>

<https://tinyurl.com/pyvktz9a>

**6. G. Reddy Babu, P. Gireesh kumar, Effect of Sulfates on Cement and Fly Ash Mortar Made with Treated Domestic Wastewater, Publish in International Journal of Recent Technology and Engineering (IJRTE) Vol. 7, Issue 4, 2018, ISSN: 2277-3878**

<https://tinyurl.com/rm5kv2rr>

**7. G.Reddy Babu, B. Madhusudana Reddy, N. Venkata Ramana, Quality of Mixing Water in Cement Concrete “A Review” published in Journal of Materials Today: Proceedings Vol. 5, 2018, Pp:1313-1320 (Elsevier) ISSN: 2214-7853**

<https://tinyurl.com/4v9p3bur>

**8. G.Reddy Babu, N. Venkata Ramana, Feasibility of wastewater as mixing water in cement, published in Journal of Materials Today: Proceedings Vol. 5, 2018, Pp:1607-1614 (Elsevier) ISSN: 2214-7853**

<https://tinyurl.com/mvta4uxk>

**9. N. Venkata Ramana, G.Reddy Babu, U.Raghu Babu, Bearing Strength of Steel Fibre Reinforced Black Marble Stone Waste Aggregate Concrete, published in Journal of Materials Today: Proceedings Vol. 5, 2018, Pp:1201-1210 (Elsevier) ISSN: 2214-7853**

<https://tinyurl.com/yck333dn>

**10. G. Reddy Babu, Durability of Portland Slag Cement Mortar Made with Non Potable Water, published in International Journal of Advance Engineering and Research Development (IJAERD), Vol. 4, Issue. 8, 2017, ((Thomason Reuters and UGC Approved No: 44839). ISSN: 2348-4470(e), 2348-6406(p) IF:4.72**

<https://tinyurl.com/4472scz6>

11. G. Reddy Babu, Durability of Mortar Made with Non Potable Water with Lime, published in **International Journal Innovation Science, Engineering & Technology (IJSET)**, Vol. 4, Issue. 8, 2017, ((Thomason Reuters and UGC Approved No: 4798 and 48287), ISSN:2348-7968(e), IF: 5.264

<https://tinyurl.com/yc42awhr>

12. G. Reddy Babu, Use of Sludge and Treated Domestic Wastewater in Clay Bricks, published in **International Journal for Research in Applied Science & Engineering Technology (IJRASET)**, Vol. 5, Issue. 9, 2017, ((Thomason Reuters and UGC Approved No:44382). ISSN:2321-9653(e), IF:6.887

<https://tinyurl.com/44w2zv62>

13. G. Reddy Babu, Use Of Treated Domestic Wastewater In Clay Bricks, published in **Journal of Emerging Technologies and Innovative Research (JETIR)**, Vol. 4 Issue 9, September, 2017. ( H-Index, UGC Approved No: 63975 ) ISSN:2349-5162, IF:5.87.

<https://tinyurl.com/3hhkk4hv>

14. G. Reddy Babu, Durability of Clay bricks Made with Sludge and Treated Domestic Wastewater, published in **International Journal of Current Advanced Research(IJCAR)**, Vol. 6 Issue 8, Aug, 2017. (UGC Approved No: 43892) ISSN(e): 2319-6475, (P): 2319-6505, IF: 5.995

<https://tinyurl.com/44w2zv62>

15. G. Reddy Babu, Durability of Mortar made with Outlet water of water treatment plants with lime, published in **International Journal of Engineering Sciences & Research Technology(IJESRT)**, Vol. 6 Issue 10, Oct, 2017. ( H-Index, UGC Approved No:48486 ) ISSN:2277-9655, IF: 4.116

<https://tinyurl.com/4yfhc9yt>

16. G.Aditya. M.T.S. Lakshmayya, G. Reddy Babu, Design and Construction of Rural Road from Boppudi-Kotavaripalem in Andhra Pradesh-A Case Study, published in **International Journal for Research in Applied Science & Engineering Technology (IJRASET)**, Vol. 4, Issue. II, Feb, 2016. (UGC Approved No: 44382) ISSN: 2321-9653, IF: 6.887.

17. G.Narasimhulu, C.Sashidhar, G.Reddy Babu, B.Madhusudhana Reddy, Effect of Calcium Sulphate on Durability parameters of Fly ash Blended Cement” **International Journal of Engineering Trends and Technology (IJETT)** (**Scopus**)– Volume 33 Number 6- March 2016. ISSN:2231-5381, IF:2.88.

<https://tinyurl.com/22efttr7>

18. G.Narasimhulu, C.Sashidhar, G.Reddy Babu, B.Madhusudhana Reddy, Effect On Strength Parameters Of Double Mixed Sulphate On Fly Ash Blended Cement Mortar” **International**

**Research Journal Of Engineering And Technology (IRJET)– Volume 3 Issue 3 - March 2016. , ISSN:2395-0056(e), 2395-0072(p), IF:4.45.**

**19. G.Narasimhulu, C.Sashidhar, G.Reddy Babu, B.Madhusudhana Reddy, “Experimental Study Of Ammonium Sulphate Effect On Fly Ash Blended Cement Mortar” International Journal for Research & Development in Technology(IJRDT) (SCOPUS)– Volume 6 Issue 1 Aug-2016. ISSN: 2349-3585(e), IF:3.82**

**20. G. Reddy Babu and N. Venkata Raman, “Effect of zinc and magnesium sulfate on properties of high strength cement mortar,” published in International Journal for Research in Science and Advanced Technology (IJRSAT), Vol. 2, Issu. 2, Mar-Apr, 2013, ISSN: 2319-2690.**

**21. G. Reddy Babu and N. Venkata Raman, “Influence of Copper on Properties of Blended Cement Mortar,” published in International Journal of Applied Engineering and Technology, Vol .3 (2), April-June, 2013, ISSN: 2277-212X(e).**

**22. G. Reddy Babu and N. Venkata Raman, “Durability of Bricks Cast with Industrial Sludge,” published in International Organization of Scientific Research, Vol. 6, Issu. 4, May-Jun, 2013. ISSN:2278-1684(e), 2320-334X(p).**

**23. G. Reddy Babu “Effect of Nano-Silica on Properties of Blended Cement,” published in International Journal of Computational Engineering and Research, Vol .3, Issue 5, , May 2013. (UGC Approved No:47631), ISSN:2250-3005, IF:0.675.**

**24. G. Reddy Babu and N. Venkata Raman, Feasibility of Treated Domestic Waste Water for Cement Mortar,” Published in Indian Journal of Research, Vol. 3, Issu. 4, May, 2013(UGC Approved NO:47432), ISSN:2250-1991, IF: 5.761**

**25. D.V. S. N. Murthy, G. Reddy Babu, B. Madhusudhana Reddy, Feasibility of Treated Wastewater of Phosphatic Fertilizer industry as Mixing Water in Cement Mortar,” published in International Journal of Civil Engineering(IJCE) (Scopus) Vol 4, Issue 1, 2012. ISSN:0975-5314.**

**26. G. Reddy Babu B. Madhusudana Reddy, N.Venkata Ramana, and C. Sashidhar, “Effect of heavy metal and magnesium sulfate on properties of blended cement mortar,” published in Research Journal of Chemical Sciences(RJCS) Vol .1, No. 7, 2011, Pp 27 – 35, ISSN: 2231-606X.**

**27. G. Reddy Babu, B, Madhusudhana Reddy & K. Madan Mohan Reddy “Removal of COD of reactive dyes by polyaluminium Chloride (PAC)” published in Global Journal of Researches in Engineering(GJRE), Vol.10, issue 1, April 2010, pp 76-78. (H-Index) , ISSN: 0975-5861.**

**28. B. Madhusudana Reddy, G. Reddy Babu, I.V. Ramana Reddy, Effect of heavy metal present in mixing water on properties and sulfate attack on blended cement mortar, Published in International Journal of Civil and Structural Engineering(IJCSE), (UGC Approved NO: 2709) Volume, 1 No: 4, 2011, ISSN: 0976-4399.**

<https://tinyurl.com/bdcva9ev>

29. D.V.Satyanarayana Moorthy, K. Mallikarjuna Rao, **G. Reddy Babu**, **Physical and mechanical properties of a clayey soil contaminated with a vat dye pollutant**, published in **Environmental pollution control journal**, Vol, 13, No.4, June 2010, pp 17-23, (No ISSN ).

30. D.V.Satyanarayana Moorthy, and **G. Reddy Babu**, **Removal of COD Reactive Dyes using Poly Aluminium Chloride**, published in **ARNP Journal of Engineering and Applied Sciences**, (UGC Approved NO: 8551)Vol. 5, No.6, June 2010 .ISSN:1819-6608  
<https://tinyurl.com/yss3j8ex>

31. K.Mallikarjuna Rao, V. Tirumala Rao and **G. Reddy Babu**, “On Interaction of a Clayey Soil with Textile Dye Waste”, published in **International Journal, Electronic journal of Geotechnical Engineering**, (EJGE) Vol. 13 Bund (A), 2008. (H-Index, **SCOPUS**), ISSN:1089-3032.

<https://tinyurl.com/2ztdv7xy>

32. K.Mallikarjuna Rao, V. Tirumala Rao and **G.Reddy Babu**, “Influence of a textile dye waste on properties of a clayey soil”, published in **International Journal of Physical Sciences**, Vol. 19, No. 3, 2007, pp 385 – 396. (H-Index, **SCOPUS**, UGC Approved No: 44588 and 47046), ISSN:2319-8044(e), 0970-9150(p). IF: 2.81  
<https://url.vgirish.net/Gn8ime EJ7>

33. **G. Reddy Babu**, H.Sudarsana Rao, and I.V. Ramana Reddy, “Influence of metal ions in industrial wastewater on cement setting, strength development and hardening”, published in **International Journal of Physical Sciences**, Vol. 19, No. 3, 2007, pp 409 – 418. (H-Index, **SCOPUS**, UGC Approved No: 44588 and 47046), ISSN:2319-8044(e), 0970-9150(p). IF: 2.81  
<https://url.vgirish.net/SRbfYYt1q6>

#### **Publications in National Journals**

34. **G. Reddy Babu** and D Sri Vinay, **Permissible limit of Sulphates in mixing water of cement mortar**, published in **Journal of Concrete Technology**, Vol. 1, Issu. 1, Feb, 2015.(No ISSN)

35. B. Madhusudana Reddy, **G. Reddy Babu**, I.V. Ramana Reddy, **Effect of led present in mixing water on properties and durability of high strength cement mortar**, Published in **ICJ, The Indian Concrete Journal**. Vol. 87, No. 1, Jan 2013, Pp 45-51(**SCOPUS**), ISSN:0019-4565.

<https://tinyurl.com/bd4z6kdm>

**36. G. Reddy Babu, H.Sudarsana Rao, and I.V. Ramana Reddy, “Effect of Metal Ions in Industrial Wastewater on Cement Setting, Strength development and Hardening”, published in ICJ, The Indian Concrete Journal, Vol. 86, April 2009, No. 3, pp 43 - 49 (SCOPUS), ISSN: 0019-4565**

<https://url.vgirish.net/qULziWVL8G>

<https://tinyurl.com/rd4e966b>

**37. G. Reddy Babu, H.Sudarsana Rao, and I.V. Ramana Reddy,” Use of Treated Industrial Wastewater as Mixing Water in Cement Works ”, published in NEPT, Nature Environment and Pollution Technology Journal, Vol. 6, No. 4 , pp 595 – 600, 2007.(SCOPUS, UGC Approved No: 37351), ISSN:0972-6268(p).**

[https://url.vgirish.net/tQu\\_dfGkHa](https://url.vgirish.net/tQu_dfGkHa)

<https://tinyurl.com/bdh5hkaf>

**38. G.Reddy Babu, M. Srimurali, M. Vijaya Sekhar Reddy and I.V.Ramana Reddy, “Sorption Studies for Colour Removal of Spent Orange Dye Effluent using Powdered Activated Carbon”, published in NEPT, Nature Environment and Pollution Technology Journal, Vol. 6, No. 1, PP 97 – 103, 2007. (SCOPUS, UGC Approved No: 37351),ISSN: 23-3454(e), 0972-6268(p).**

<https://url.vgirish.net/MPfTokIMwd>

<https://tinyurl.com/2fw77nd9>

**39. G.Reddy Babu, B.Chandra Sekhar, B. Damodhara Reddy and I.V.Ramana Reddy, “Sorption of Some Reactive Chemical Dyes using Powdered Activated Carbon”, published in NEPT, Nature Environment and Pollution Technology Journal, Vol. 5, No. 3, PP 375 – 380, 2006.(SCOPUS, UGC Approved No: 37351), ISSN: 0972-6268**

<https://url.vgirish.net/PHkatty-Bz>

**40. I.V.Ramana Reddy, N.R.S. Prasad Reddy, G.Reddy Babu, B.Kotaiah and P.Chiranjeevi, “Effect of Biological Contaminated Water on Cement Mortar Properties”, published in ICJ, The Indian Concrete Journal, Vol. 80, Feb 2006, No. 2, pp 203-206 (SCOPUS), ISSN: 0019-4565.**

<https://url.vgirish.net/2JIdWT2nQw>

<https://tinyurl.com/ya9ksb38>

**41. I.V.Raman Reddy, N.R.S.Prasad Reddy and G.Reddy Babu,“Effect of Magnesium Sulphate (slightly acidic compound) in Mixing Water on properties of Cement.”, published in Dream Earth publication, Journal of pradushan Nirmulan Vol. 2, No. 4, PP 33 -38, 2005, ISSN:0972-8902.**

**42. G. Reddy babu, k. Mallikarjuna Rao, and I.V. Ramana Reddy, Value Addition for Sludge generated from Sand Beneficiation Treatment plant”, published in NEPT, Nature**

Environment and Pollution Technology Journal, Vol. 4, No. 2, PP 203 – 206, 2005.(**SCOPUS**, UGC Approved No: 37351), ISSN: 0972-6268.  
<https://url.vgirish.net/g4ODPIhf4F>

### **Publications in International Conferences**

**43. G. Reddy Babu, G.Rajkumar, N V Ramana and D. Varaprasad, Use of Treated Domestic Wastewater in Cement and Fly Ash Mortar**, published in International conference on Advanced Research And Innovations in Civil Engineering (ARICE -2019), held on 13th and 14th June, organized by Department Of Civil Engineering, Muthoot Institute of Technology & Science, Kerala, Publications supported by (**Springer Journal**)

**44. G. Reddy Babu, Effect of Chemicals on Mortar Cubes Cast With Using Treated Domestic Wastewater**, published in International conference on Desalination InDA-2018, Organized by NIT Tiruchirappalli and Indian Desalination Association on 20th and 21st April, 2018.

**45. G.Reddy Babu, B. Madhusudana Reddy, N. Venkata Ramana, B. Sudharshan Reddy“Experimental Study on Feasibility of Non Potable Water With Lime on Properties of PPC”** Published in IOP Conference Series: Materials Science and Engineering, Volume 225, No: 012271 (2017) (**SCOPUS** and UGC Approved) ISSN: 1757-899X.

**46. G. Reddy Babu, Effect of wastewater on properties of Portland Pozzolana Cement**, published in American Institute of Physics (AIP) Conference proceedings, Volume 1859, No; 020103 (2017) (**SCOPUS**, and UGC Approved) ISSN:978-0-7354-1533-1

**47. G. Reddy Babu, G Madhav Kumar, An Eco Friendly Solution to the Food Waste Disposal**, published in American Institute of Physics (AIP) Conference proceedings 1859, 020068 (2017) (**SCOPUS**, and UGC Approved) ISSN:978-0-7354-1533-1 )

**48. G. Reddy Babu, Reuse of wastewater in Portland Slag Cement**, published in International Conference on Global Civil Engineering Challenges in Sustainable Development and Climate Change (ICGCSC-2017) held on 17<sup>th</sup> and 18<sup>th</sup> , March, 2017, Mangalore Institute of Technology & Engineering, Mangalore, Karnataka, India.  
ISBN:978-93-5267-355-1

**49. Strength and Ductility of R.C Beams with Epoxy Bonded Fiber Reinforced Polymer Plates**, published in International conference on Recent Developments in Structural Engineering(RDSE-2007) held in Manipal Institute of Technology. Manipal.

### **Publications in National Conferences**

**50. Use of Treated Electroplating Industry wastewater as Mixing Water in Cement Works”** Published in National Conference on Recent Advances in Structural Engineering held on 4<sup>th</sup> April, 2008 in Dept of Civil Engineering JNTU College of Engineering, Anantapur, A.P.



**51. Strength Characteristics of Magnesite Cements with By-Product Materials Replacement, National Conference on Recent Advances in Structural Engineering** held on 9<sup>th</sup> March, 2007 in Dept of Civil Engineering JNTU College of Engineering: Anantapur, A.P.

**52. Rehabilitation of Reinforced Concrete Rectangular beams Using Ferro cement Plates, National Conference on Recent Advances in Structural Engineering** held on 9<sup>th</sup> March, 2007 in Dept of Civil Engineering JNTU College of Engineering: Anantapur, A.P.

**53. An experimental Investigation on Micro Silica Concrete with Fly Ash on Strength Behaviour,** published in **National Conference on Recent Advances in Structural Engineering** held on 11<sup>th</sup> and 12<sup>th</sup> Feb, 2006 in Dept of Civil Engineering JNTU College of Engineering, Kakinada, A.P.

**54. A Study of a Mineral Acidic Compound (H<sub>2</sub>SO<sub>4</sub>) Effects on Cement Mortar Properties** Published in **National Conference on Recent Advances in Structural Engineering** held on 11<sup>th</sup> and 12<sup>th</sup> Feb, 2006 in Dept of Civil Engineering JNTU College of Engineering, Kakinada, A.P.

**55. High Strength Concrete using Silica Fume with Superplasticiser,** Published in National Conference **Environmental Effects on Civil Engineering Structures** held on 14<sup>th</sup> and 15<sup>th</sup> July, 2006. Dept of Civil Engineering, S.V.U.College of Engineering, S.V.University, Tirupati, A.P.

**56. Feasibility of Contaminated Water with Metals (Mercury Compounds) for Cement Mixing,”** Published in National Conference **Environmental Effects on Civil Engineering Structures** held on 14<sup>th</sup> and 15<sup>th</sup> July, 2006. Dept of Civil Engineering, S.V.U.College of Engineering, S.V.University, Tirupati, A.P.

#### **Short term Course/ Workshops/Seminars Attended**

**1. Participated as a delegate in AICTE Sponsored QIP Short Term Course on Cardiovascular Solid and Fluid Mechanics (CSFM) held on 26th March to 1st April 2017, Organized by Department of Applied Mechanics/ Department of Engineering Design Indian Institute of Technology(IIT), Madras Chennai.**

**2. Participated as a delegate in Faculty Development Programme on Soft Skills and Effective Teaching ” held from 6<sup>th</sup> to 11<sup>th</sup> May, 2013 in Narasaraopeta Engineering College, Narasaraopet, A.p**

**3. Participated as a delegate in National Seminar on “Neural Networks in Civil Engineering Structures” held on 16<sup>th</sup> Feb, 2008 in Dept of Civil Engineering, JNTU College of Engineering, Anantapur, A.P.**

**4. Participated as a delegate in National Seminar on “Emerging Treatment Technologies for High and Medium Strength Wastewaters” held on 8<sup>th</sup> – 9<sup>th</sup> January, 2004 in Dept of Environmental Engineering, Sri Jayachamarajendra College of Engineering, Mysore (affiliated to VTU).**

**5. Participated as a delegate in National Workshop on “Environmental Pollution and Awareness” held on 26<sup>th</sup> August, 2004 in Dept of Civil Engineering, K.S.R.M.College of Engineering, Affiliated to S.V.University, Kadapa**

**6. Participated as a delegate in National conference on “Recent Advances in Structural Engineering” held 9<sup>th</sup> Sept, 2004 in Dept of Civil Engineering, JNTU College of Engineering, Anantapur, A.P.**

### **Policy Document**

**1) Member for revising of ISO: 12439 “Mixing water for Concrete”**

### **Projects:**

**1) Selected for UGC Research Award (2016-2018) India**

### **Patent:**

**1) CNIB-Water Management Technology: Water Collection And Notification Using IOT – Based Technology, Application No: 202041042657A. Patent Application publication date: 9/10/2020**

### **Book Chapter Published**

**1)Title: Impact of Nanosilica in Ordinary Portland Cement over its Durability and Properties,  
ISBN 978-1-83962-315-8**

**2) Title: Effect of Pollutants in Wastewater on Properties of Cement  
ISBN-13: 978-620-2-05726-4, ISBN-10: 6202057262, EAN: 9786202057264**

**3) Title: Feasibility of Reverse Osmosis (RO) Plant Wastewater for Reuse in Cement Mortar  
Print ISBN: 978-81-19491-98-8, eBook ISBN: 978-81-19491-99-5**

**4) Title: Sustainable Solution to the Food Waste Disposal at Workmen Camp  
Print ISBN: 978-81-19491-98-8, eBook ISBN: 978-81-19491-99-5**

### **Research Areas:**

- i) Quality of mixing water in concrete
- ii) Reuse of treated wastewater in cement
- iii) Partial replacement of cement with industrial by products
- iv) Durability of concrete and cement mortar.
- v) Sustainable environmental

### **Membership in professional Bodies**

**Fellow of Institute of Engineers, (F-1247715) India**

**Member in International Association of Engineers IAENG (Number: 183569)**

### **Consultancy**

**Consultant for quality of drinking water**

**Consultant for mixing water for concrete**

**Consultant for evaluation of structures fails in the chemical environment**

**Consultant for Treatment plants of water and wastewater**