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VOLUME_18_JUNE_2022



CIVIL ENGINEERS ASSOCIATION NEWS LETTER (CEAN)



**SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN::BHIMAVARAM
(AUTONOMOUS)**

DEPARTMENT OF CIVIL ENGINEERING

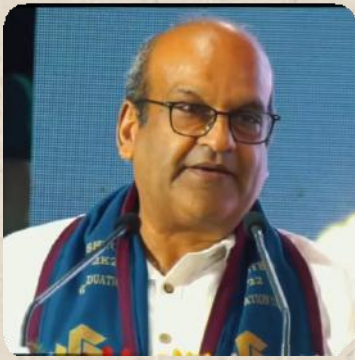
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Accredited by NBA & NAAC with 'A+' Grade

Vishnupur, Bhimavaram, West Godavari Dist., Andhra Pradesh, India, PIN - 534202



"A Compassionate human being who has seen diversity and had practiced mindfulness in different walks of his life"



Shri K.V. Vishnu Raju
Chairman



Shri R. Ravi Chandran
Vice-chairman



Shri K. Aditya Vissam
Secretary

**THE HALF YEARLY NEWSLETTER OF THE
DEPARTMENT OF CIVIL ENGINEERING**

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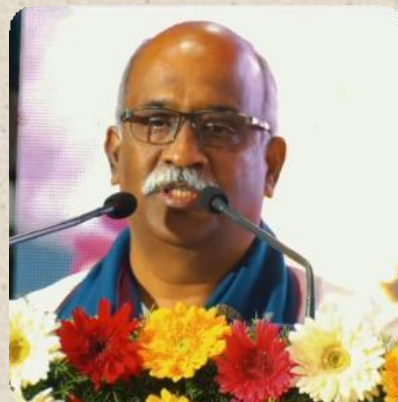
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Dr. P. Srinivasa Raju
Vice-Principal



Dr. G. Srinivasa Rao
Principle



Dr. Pala Gireesh Kumar
Professor & HoD
Department of Civil Engineering

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□ **Vision, Mission and PEO,s of Civil Department**

❖ **Vision of the Department**

- “To empower women in the field of civil engineering by imparting knowledge, training, ethical values and meets the needs of the academia and industry.”

❖ **Mission of the Department**

- To provide value based education for sustainable competitive edge.
- To impart skills required for civil engineering career along with understanding the role and responsibility in fulfilling the fundamental social needs.
- To nurture professionalism through continuously counselled and mentored environment.
- To inculcate the culture of research and consultancy in the students

❖ **Program Educational Objectives (PEOs)**

- To apply the knowledge of fundamental sciences in civil engineering and provide optimum solutions for real life problems
- To adopt contemporary engineering knowledge to become an ethical civil engineer
- To flourish in continued education and employment with an orientation to serve the society.

❑ **Editor of Book (Springer Publisher)**

Dr. Pala Gireesh Kumar - Associate Professor & Head of the Department

E-mail – gireeshcivil@svecw.edu.in

Research Interests –Terramechanics, Pavement Materials, Traffic Engineering, Pedestrian Behaviour, Vehicular Pollution, Materials in Construction.



Editor of Book (Springer Publisher)

Dr Pala Gireesh Kumar Contributed as Corresponding Editor of Book (Springer Publisher) “**Recent Advances in Civil Engineering**” - *Proceedings of the 2nd International Conference on Sustainable Construction Technologies and Advancements in Civil Engineering (ScTACE 2021)* and Book was published.

Released on May 17th 2022 and is available online.



The book presents the selected proceedings of the 2nd International Conference on Sustainable Construction Technologies and Advancements in Civil Engineering (ScTACE 2021). This book discusses the latest developments and contributions towards sustainable construction technologies and advances in civil engineering. Various topics covered in this book are Construction technologies, Geotechnical engineering, Transportation and Traffic engineering, Structural engineering, Environmental engineering, Remote Sensing and GIS, Geo-Environmental engineering, Water Resources engineering and Earthquake engineering. This book will be useful for students, researchers and professionals working in the area of civil engineering.

❑ Paper Publications

Dr P. Sridhar published two conference papers in the Lecture notes of Civil Engineering. The conference details are available on the online mode. The title of the conference is **Recent Advances in Civil Engineering - Proceedings of the 2nd International Conference on Sustainable Construction Technologies and Advancements in Civil Engineering (ScTACE 2021)**.

Dr P. Sridhar - Associate professor in the Department of Civil Engineering

E-mail - parupallysridhar@svecw.edu.in

Research Interests –Remote Sensing and GIS applications, Machine Learning, Fuzzy Logic, Watershed Management, Microwave Remote sensing

❑ Paper Titles:

1. A Study on Deformation Characteristics of Splice Connection in Steel Structures

[Cite this paper](#)

Ramana Kollipara, V. Gunneswara Rao, T.D., **Sridhar, P.** (2022).A Study on Deformation Characteristics of Splice Connection in Steel Structures. In: Kumar, P.G., Subramaniam, K.V.L., Santhakumar, S.M., Satyam D., N. (eds) Recent Advances in Civil Engineering. Lecture Notes in Civil Engineering, vol 233. Springer, Singapore. https://doi.org/10.1007/978-981-19-0189-8_29.

2. A Machine Learning Perspective for Remote Sensing

[Cite this paper](#)

Challa, N.P., **Sridhar, P.**, Shyam Mohan, J.S. (2022). A Machine Learning Perspective for Remote Sensing. In: Kumar, P.G., Subramaniam, K.V.L., Santhakumar, S.M., Satyam D., N. (eds) Recent Advances in Civil Engineering. Lecture Notes in Civil Engineering, vol 233. Springer, Singapore. https://doi.org/10.1007/978-981-19-0189-8_45.



❑ **New Ph.D admission**

Mr.B.Venkatesh – Assistant Professor in the Department of Civil Engineering

E-mail - bvenkateshcivil@svecw.edu.in

Research Interests –Structural engineering, Earthquake resistant building design, Alternate sustainable construction materials.

Got Ph.D admission in Andhra University under APRSET-2021



❑ **Patent Publication**

Mr.B.Venkatesh published a patent from “THE PATENTS ACT, 1970(39 of 1970) & The patent rules, 2003.

Application Number : 202241020115

Title of the Invention: *BALAST RESISTANT ANALYSIS AND DESIGN OF RCC MULTISTOREY BUIDING*

Application Details	
APPLICATION NUMBER	202241020115
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	04/04/2022
APPLICANT NAME	1 . BUTTI VENKATESH 2 . OMMI SURESH 3 . Samrendra Kumar Singh 4 . Dr. Umesh P. Patil 5 . Y VENKTA ARCHAN 6 . Mr. Sujith Velloor S Nair 7 . Dr. Vinay kumar Gaddam 8 . Kuchipudi Kundana Priya 9 . Mrs. Mallika Chowdary Chirumamilla
TITLE OF INVENTION	BLAST RESISTANT ANALYSIS AND DESIGN OF RCC MULTISTOREY BUILDING
FIELD OF INVENTION	CIVIL
E-MAIL (As Per Record)	avbreddy9@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	15/04/2022

❑ **Dream House Construction Laboratory (DHCL)**

Dream House Construction Laboratory (DHCL) is a captivating initiative adopted by the Department of Civil Engineering where miniature constructions are done following real-time procedures and standards. As an initial step of DHCL, the faculties have come forth to take up the task of constructing a miniature house along with the support of students. The faculties are keeping a lot of efforts to set clear base and fetch a good foundation for the students concerning the DHCL.



❑ **Field Visit – rub (road under bridge)**

FIELD VISIT: On 18th and 19th April & 13th, 19th and 22nd MAY 2022

I, II and III year Civil Engineering students went for a field trip to gain the empirical knowledge. The site visited was Road under Bridge (RUB) by RVNL located near town station, D Mart, Bhimavaram. The main purpose of this construction is to provide a road under bridge in such a way that the traffic volume is controlled by providing multiple ways for the passengers to reach their respective destination.



The method is **Pre-cast box segment with open cut method**. Project manager gave a brief introduction about the project and he showed all the blue prints of the project. The design part and the problems a civil engineer will encounter in the field was explained and visualized by the students.

ANSWERS TO STUDENT QUESTIONS:

Problems encountered during the project:

- Land sliding
- Lateral support systems and sheet piles are placed
- Aquifer was encountered at 8m below GL during excavation

Standard box sizes: 12' x 12' in 1' span and rises increments Dia-500mm typically come in 6' and 8' lengths. Custom box sizes: Nonstandard sizing is permissible and must be designed per project design specification. Box culverts are subjected to lateral earth loads from soil and hydrostatic loads. Seismic loads where applicable. GI binding wire Link loads -- Tie strips Links top matt + bottom matt Strips are not good. Used: M35 -- concrete Zaveri cement. Ordinary Portland cement (OPC) Weight batching w/c M35 0.45 & 0.453 grade. In total they placed 32 boxes of 24 m each box and width of 1.5m and the weight of each box is 60 tones. The total budget of this RUB was 1.5cr.



❑ Industry collaborations

Dr Pala Gireesh kumar, Head of the department had signed MoU with **Infra support Engineering Consultants Pvt. Ltd., Bangalore** on 19th May 2022. Er. K B Rathnakara Reddy, Managing director of Infra supports and executive director T Lokesh appreciated the efforts taken by the department for the beneficiary of the students. Students from II B Tech K Naga Sireesha, A L M V Sowjanya Sri, K Tulasi Rama Saraswathi, G Divvy Swarupini, K Bhagyavalli are also been in the discussion and interaction with the industry experts during the MoU process.



Dr Pala Gireesh kumar, Head of the department and Mr B Venkatesh Assistant Professor along with 5 students (II B Tech) interacted with S Ravi, project manager of CBRE Bangalore and it is fortunate to receive a commitment from the industry in providing Internship opportunities to our students every year.



❑ Student Paper Publications

Ms. Muthina Venu Lalithya published a conference paper in the Lecture notes of Civil Engineering. The title of the conference is **Recent Advances in Civil Engineering - Proceedings of the 2nd International Conference on Sustainable Construction Technologies and Advancements in Civil Engineering (ScTACE 2021)**.



Paper Title:

3D Concrete Printing in Construction Industry—A State of the Art

Cite this paper

Harika Sesetti, **Muthina Venu Lalithya** & Pala Gireesh Kumar (2022). 3D Concrete Printing in Construction Industry—A State of the Art published in Recent Advances in Civil Engineering. Lecture Notes in Civil Engineering, vol 233. Springer, Singapore.

https://link.springer.com/chapter/10.1007/978-981-19-0189-8_32

Ms. Musini Tejaswi published a conference paper in the Lecture notes of Civil Engineering. The title of the conference is **Recent Advances in Civil Engineering - Proceedings of the 2nd International Conference on Sustainable Construction Technologies and Advancements in Civil Engineering (ScTACE 2021)**.



Paper Title:

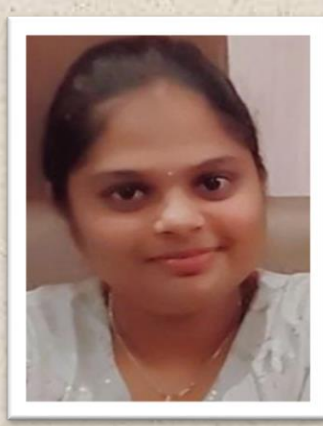
A Comprehensive Study on Vehicular Pollution and Predictive Simulation—A Review

Cite this paper

Pala Gireesh Kumar, Abhirami Priyanka Pathivada & **Musini Tejaswi** (2022). A Comprehensive Study on Vehicular Pollution and Predictive Simulation—A Review, published in Recent Advances in Civil Engineering. Lecture Notes in Civil Engineering, vol 233. Springer, Singapore.

https://link.springer.com/chapter/10.1007/978-981-19-0189-8_20

Ms. Gudimetla Likhitha, Ms. Inapagolla Teja Sahithi, Ms. Bandi Lavanya Reddy & Ms. Polisetti Sunyuha of III year published a conference paper in the Lecture notes of Civil Engineering. The title of the conference is **Recent Advances in Civil Engineering - Proceedings of the 2nd International Conference on Sustainable Construction Technologies and Advancements in Civil Engineering (ScTACE 2021)**.



Paper Title:

Intelligent Traffic Control System for Smart Transportation—A Way Forward *Cite this paper*

Pala Gireesh Kumar, **Gudimetla Likhitha, Inapagolla Teja Sahithi, Bandi Lavanya Reddy & Polisetti Sunyuha** (2022).

Intelligent Traffic Control System for Smart Transportation—A Way Forward, published in Recent Advances in Civil Engineering. Lecture Notes in Civil Engineering, vol 233. Springer, Singapore.

https://link.springer.com/chapter/10.1007/978-981-19-0189-8_21

❑ Book Chapter publication

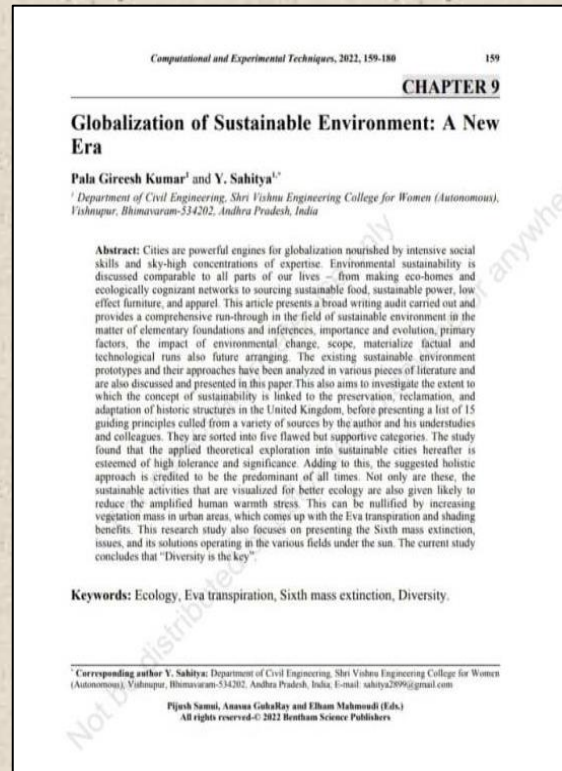
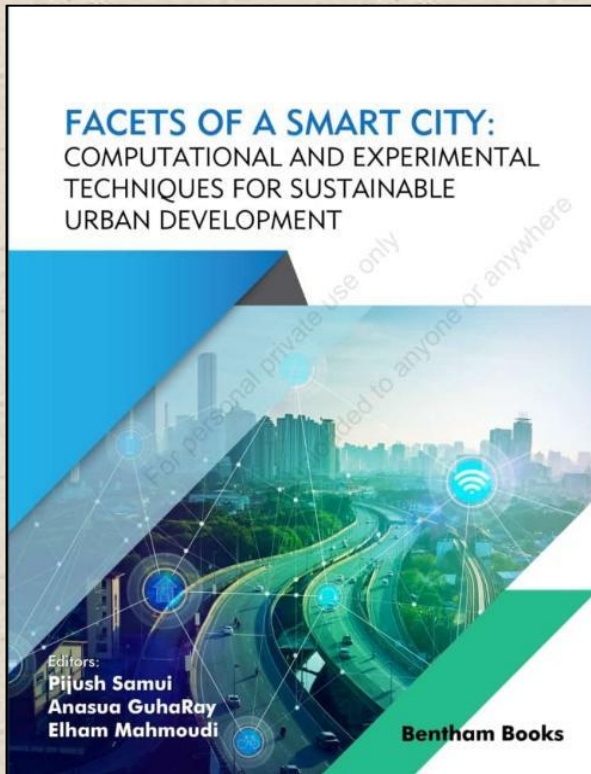
Ms. Y sahitya contributed one chapter for the book titled, “**Facets of a Smart City: Computational and Experimental Techniques for Sustainable Urban Development**,” which was published by Bentham Science Publishers Pte. Ltd. Singapore and Indexed in Scopus and SCI. The Book is also available in Amazon.



https://www.amazon.com/dp/9815049097/ref=cm_sw_r_wa_api_i_YBSGD5SNZSYF7F285NQF

Chapter Title:

Globalization of Sustainable Environment: A New Era



Editorial Team



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Professor & HOD

Chief Editor



Mr.Butti. Venkatesh
Assistant Professor

Editor