

Department: CIVIL ENGINEERING | Date: 25<sup>th</sup>-26<sup>th</sup> September 2020

**A Two Day National Level Online Workshop on  
“Technological Advancements in Geotechnical Engineering Practice  
with Geosynthetics (TAGEPG)”  
25<sup>th</sup>-26<sup>th</sup> September 2020**

The Department of Civil Engineering of Sree Vidyanikethan Engineering College has organized A Two Day National Level Online Workshop on **“Technological Advancements in Geotechnical Engineering Practice with Geosynthetics(TAGEPG)”** under **IGS Sree Vidyanikethan Engineering College Student Chapter** during **25<sup>th</sup>-26<sup>th</sup> September, 2020** for the benefit of all Civil Engineering Students and Faculty.

The resource persons were from the Industry and Alumni of Sree Vidyanikethan Engineering College: **Ms. Padmaja Gurram**, Engineer, Strategic Projects & Strategic Initiatives – ISEAP, Maccaferri Environmental Solutions Pvt. Ltd., Gurgaon, India; **Mr. K. Deeraj Kumar Reddy**, Sr. Manager – Pavements, Techfab India Industries Ltd., Hyderabad; **Mr. P. S. Harshit**, Sr. Design Engineer - Vertical Wall Technical Unit, Maccaferri Environmental Solutions Pvt. Ltd., Gurgaon, India; **Mr. P. Narendra Kumar Reddy**, Sr. Engineer, Business Unit – South, Maccaferri Environmental Solutions Pvt. Ltd., Gurgaon, India.

The program session was conducted online through Zoom Platform and the same was live on YouTube. All the Speakers shared their rich knowledge of the subject with all the participants and enriched them with the concepts of

- Applications and Case Studies of Geosynthetics in Road Pavement
- Flexible Solutions for the Problems of Hilly Terrains
- Reinforced Soil Wall System
- Reinforced Soil Wall and Slope Facia Systems with Gabion Facia and their Advantages

Also, they shared their practical experience faced during field executions and their insights on career opportunities in the field of geotechnical engineering. A total of 202 students and 59 faculty and professional engineers from industry and academia across the country were participated in the program.

Dr. O. Eswara Reddy, Professor, HoD and BOS Chairman, Department of Civil Engineering, SVEC; Faculty Advisor-IGS SVEC Student Chapter; Convener of the Event; Mr. M. Tharun Kumar, Assistant Professor; Coordinator-IGS SVEC Student Chapter and Coordinator of the event graced the occasion. Office bearers of IGS SVEC Student Chapter were the organizers of this program. On the whole, the event was proved successful.

The photographs of the program are as follows.



**Dr. O. Eswara Reddy**

Professor, HoD and BoS Chairman

Faculty Advisor- IGS SVEC Student Chapter

### Indian Geotechnical Society Sree Vidyanikethan Engineering College (IGS SVEC) Student Chapter



**SREE VIDYANIKETHAN ENGINEERING COLLEGE**  
(Autonomous)  
Sree Sainath Nagar, Tirupati – 517 102  
(Affiliated to JNTUA Anantapuramu, Approved by AICTE, Accredited by NBA; NAAC with 'A' Grade)  
**Indian Geotechnical Society Sree Vidyanikethan Engineering College**  
Student Chapter

**Resource Persons**

**Mr. K. Deeraj Kumar Reddy**  
Sr. Manager – Pavements  
TechFab India Industries Ltd.  
Hyderabad

**Ms. Padmaja Guram**  
Engineer, Strategic Projects & Strategic Initiatives - ISEAP  
Maccaferri Environmental Solutions Pvt. Ltd.  
Gurgaon, India

**Resource Persons**

**Mr. P. S. Harshit**  
Sr. Design Engineer - Vertical Wall Technical Unit  
Maccaferri Environmental Solutions Pvt. Ltd.  
Gurgaon, India

**Mr. P. Narendra Kumar Reddy**  
Sr. Engineer  
Business Unit - South  
Maccaferri Environmental Solutions Pvt. Ltd.  
Gurgaon, India

**A Two Day National Level Online Workshop on**  
**Technological Advancements in Geotechnical Engineering Practice with Geosynthetics**  
Organized by  
**Department of Civil Engineering**

**Date** 25-26 September, 2020 | **Registration Link** <https://tinyurl.com/y4855mgc> | **No Registration Fee e-Certificate will be issued for all active participants**

**Program Outline**

- Applications and Case Studies of Geosynthetics in Road Pavement
- Flexible Solutions for the Problems of Hilly Terrains
- Reinforced Soil Wall System
- Reinforced Soil Wall and Slope Facia Systems with Gabion Facia and their Advantages.

**Event Platform**

PMID - 638 234 9773  
Passcode - 323444

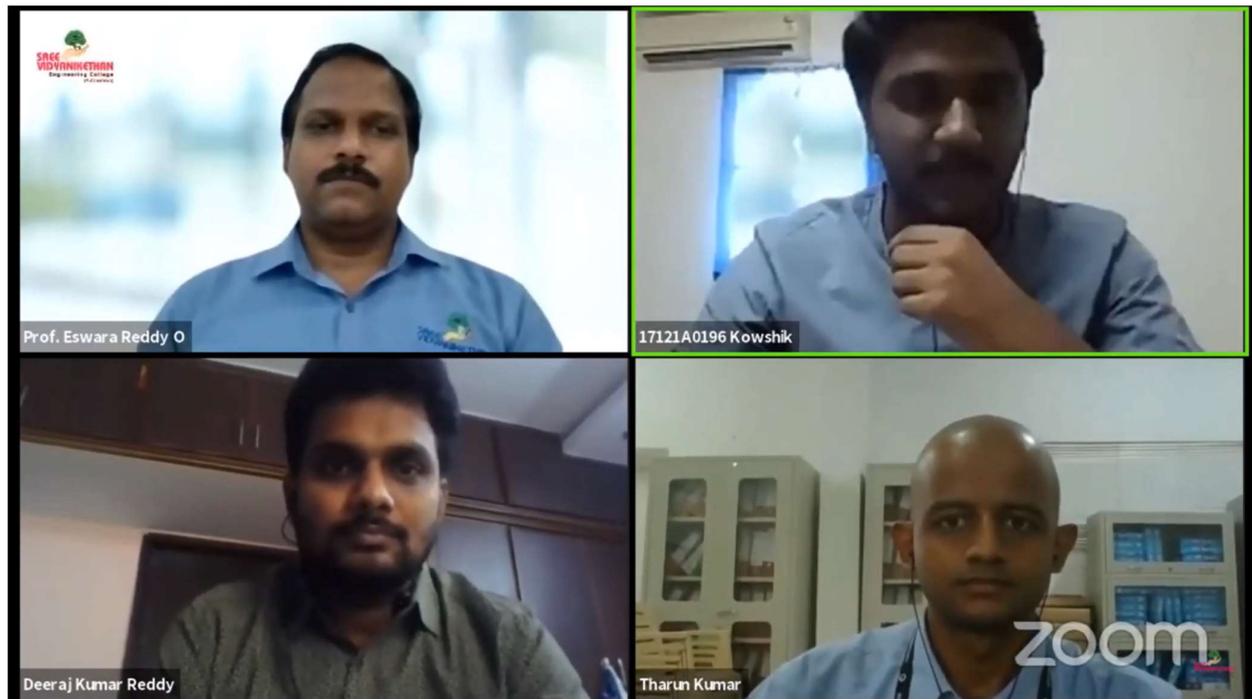
YouTube Links are Provided in the Program Schedule

**Chief Patrons** **Patron** **Convener** **Coordinator** **Organizing Committee**

**Dr. M. Mohan Babu** Chairman, SVET  
**Sri. Vishnu Manchu** CEO, SVET  
**Dr. P. C. Krishnamachary** Principal, SVEC  
**Dr. O. Eswara Reddy** Professor, HoD and BoS Chairman & Faculty Advisor IGS SVEC Student Chapter  
**Mr. M. Tharun Kumar** Coordinator IGS SVEC Student Chapter 9492594305

Mr. T. Kowshik Kumar - President  
Mr. G. L. Prashanth Reddy - Vice President  
Ms. T. Mounika - Secretary  
Mr. K.S. Ashrith Gupta - Treasurer  
Ms. Roopa, D.S - Social Activities Committee  
Ms. R. Lakshmi Pavani - Membership Committee  
Mr. T. R. Ravichandra - Publicity Committee  
Mr. T. Venkatesh Prasad - Fund Raising Committee  
Ms. T. Hemalatha - Community Service Committee

Flyer of the Event



Welcome Address by Mr. T. Kowshik Kumar, President- IGS SVEC Student Chapter

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**Resource Persons**

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Sr. Manager – Pavements  
Techlab India Industries Ltd,  
Hyderabad

**Ms. Padmaja Gurrām**  
Engineer, Strategic Projects & Strategic  
Initiatives - ISEAP  
Maccaferri Environmental Solutions Pvt. Ltd,  
Gurgaon, India

**Mr. P. S. Harshit**  
Sr. Design Engineer - Vertical Wall Technical Unit  
Maccaferri Environmental Solutions Pvt. Ltd  
Gurgaon, India

**Mr. P. Narendra Kumar Reddy**  
Sr. Engineer  
Business Unit - South  
Maccaferri Environmental Solutions Pvt. Ltd,  
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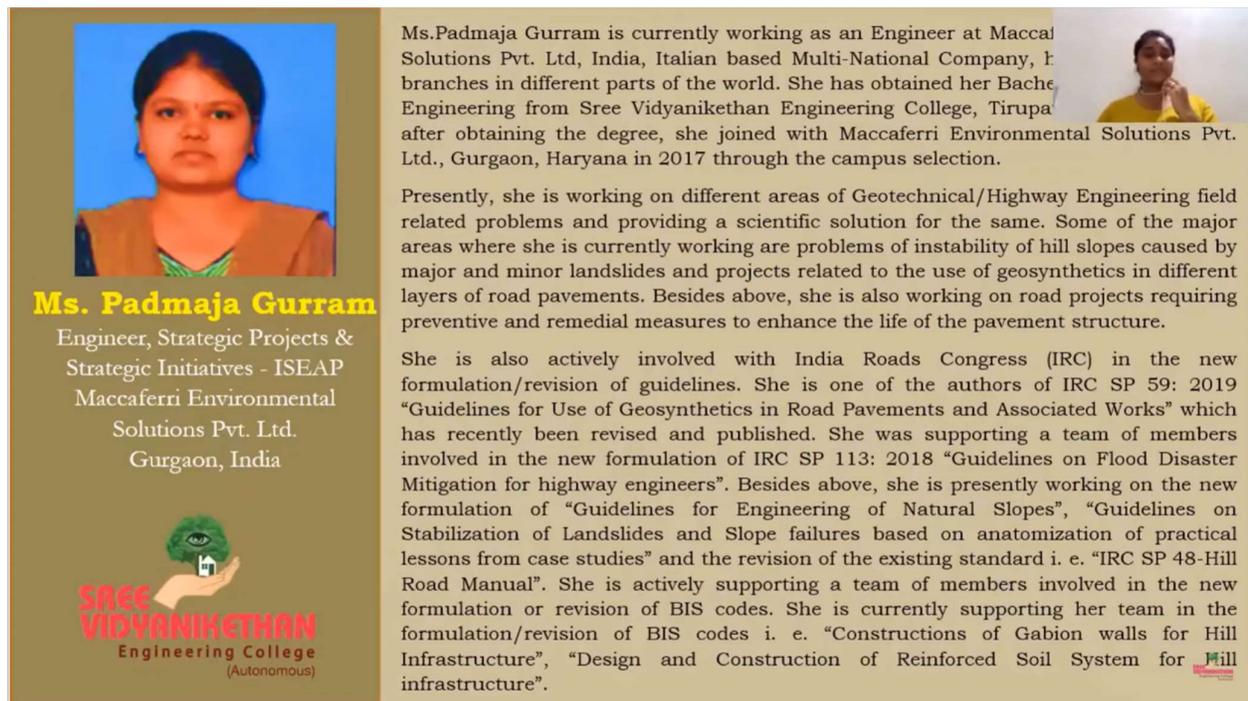
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Ms. T. Mounika - Secretary  
Mr. K.S. Ashrith Gupta - Treasurer  
Ms. Roopa, D. S - Social Activities Committee  
Ms. R. Lakshmi Pavani - Membership & Welfare  
Mr. T. R. Ravichandra - Publicity Committee  
Mr. T. Venkatesh Prasad - Fund Raising Committee  
Ms. T. Hemalatha - Community Service Committee

Opening Remarks by Dr. O. Eswara Reddy, Professor, HoD and BOS Chairman, Department of Civil Engineering, SVEC; Faculty Advisor-IGS SVEC Student Chapter



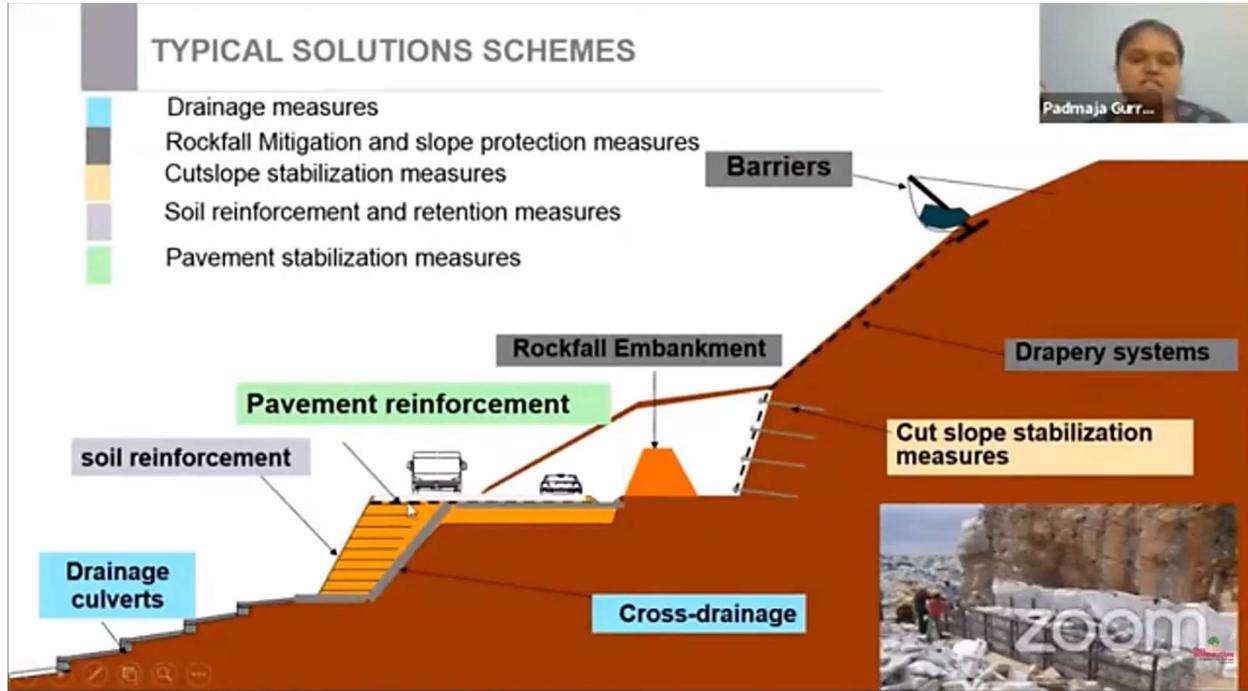
**Ms. Padmaja Gurrām**  
Engineer, Strategic Projects & Strategic Initiatives - ISEAP  
Maccaferri Environmental Solutions Pvt. Ltd.  
Gurgaon, India

Ms. Padmaja Gurrām is currently working as an Engineer at Maccaferri Environmental Solutions Pvt. Ltd, India, Italian based Multi-National Company, has branches in different parts of the world. She has obtained her Bachelor's Degree in Civil Engineering from Sree Vidyanikethan Engineering College, Tirupati after obtaining the degree, she joined with Maccaferri Environmental Solutions Pvt. Ltd., Gurgaon, Haryana in 2017 through the campus selection.

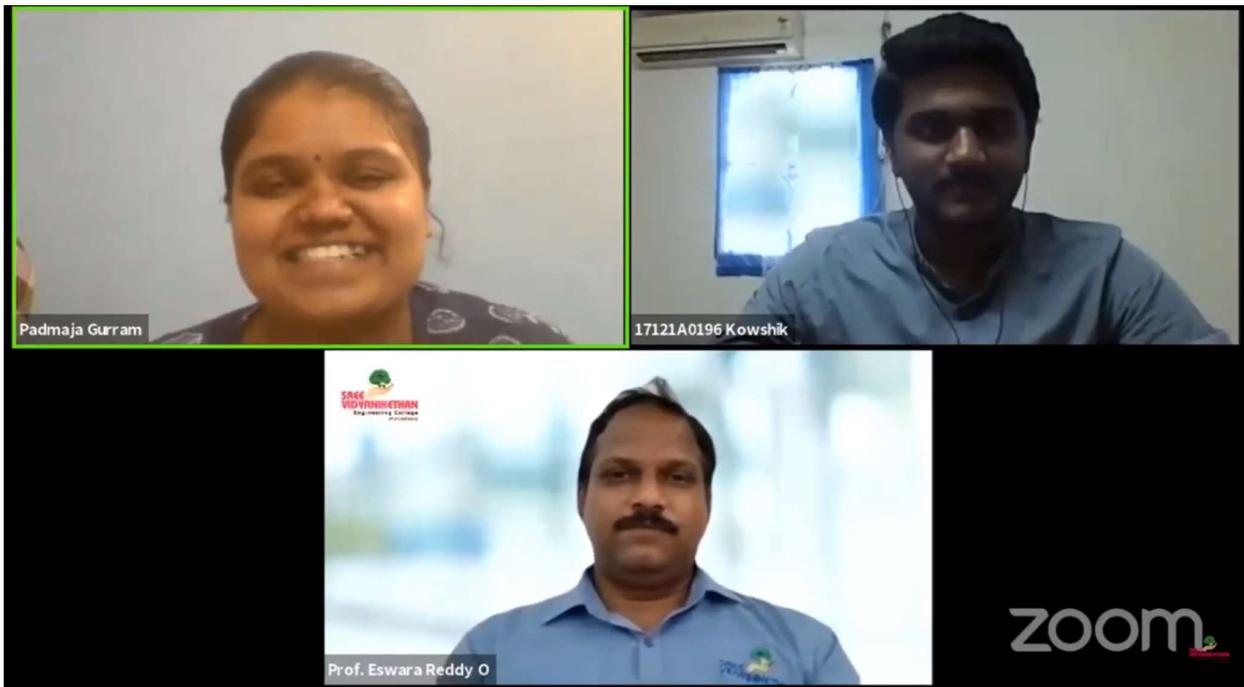
Presently, she is working on different areas of Geotechnical/Highway Engineering field related problems and providing a scientific solution for the same. Some of the major areas where she is currently working are problems of instability of hill slopes caused by major and minor landslides and projects related to the use of geosynthetics in different layers of road pavements. Besides above, she is also working on road projects requiring preventive and remedial measures to enhance the life of the pavement structure.

She is also actively involved with India Roads Congress (IRC) in the new formulation/revision of guidelines. She is one of the authors of IRC SP 59: 2019 "Guidelines for Use of Geosynthetics in Road Pavements and Associated Works" which has recently been revised and published. She was supporting a team of members involved in the new formulation of IRC SP 113: 2018 "Guidelines on Flood Disaster Mitigation for highway engineers". Besides above, she is presently working on the new formulation of "Guidelines for Engineering of Natural Slopes", "Guidelines on Stabilization of Landslides and Slope failures based on anatomization of practical lessons from case studies" and the revision of the existing standard i. e. "IRC SP 48-Hill Road Manual". She is actively supporting a team of members involved in the new formulation or revision of BIS codes. She is currently supporting her team in the formulation/revision of BIS codes i. e. "Constructions of Gabion walls for Hill Infrastructure", "Design and Construction of Reinforced Soil System for Hill Infrastructure".

Introduction of the Speaker Ms. Padmaja Gurrām by  
Ms. Roopa, D. S, Social Activities Committee Head – IGS SVEC Student Chapter.



Ms. Padmaja Gurram, Engineer, Strategic Projects & Strategic Initiatives – ISEAP, Maccaferri Environmental Solutions Pvt. Ltd., Gurgaon, India delivering the Lecture on "Flexible Solutions for the Problems of Hilly Terrains"



Ms. Padmaja Gurram, Engineer, Strategic Projects & Strategic Initiatives – ISEAP, Maccaferri Environmental Solutions Pvt. Ltd., Gurgaon, India addressing the Q & A Session

**Indian Geotechnical Society**  
**Sree Vidyanikethan Engineering College (IGS SVEC) Student Chapter**



**Mr. K. Deeraj Kumar Reddy**

Sr. Manager – Pavements  
Techfab India Industries Ltd.  
Hyderabad

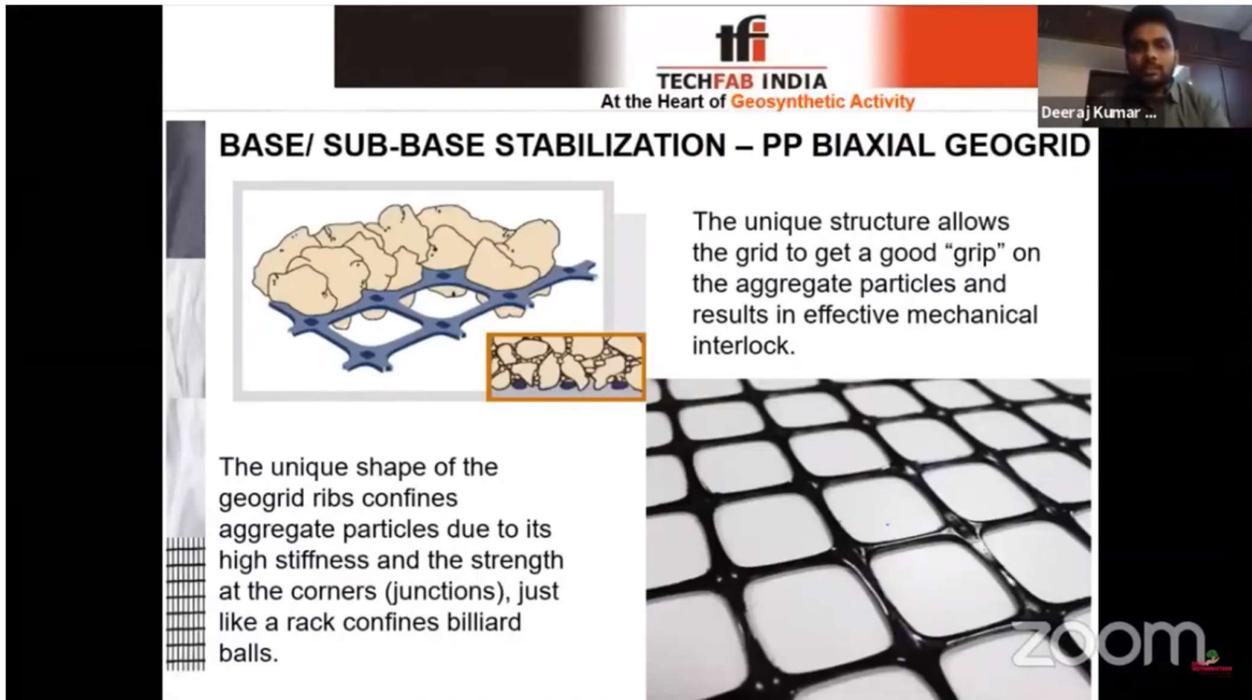


Mr. Deeraj Kumar Reddy, a highly skilled civil engineer having experience with technical and commercial knowledge on Retaining structures, Geosynthetics and hydraulic structures. He was graduated from Sree Vidyanikethan Engineering College, Tirupati in Civil Engineering.

Mr. Deeraj Kumar Reddy worked as Sr. Manager in several projects in private limited industries including Techfab India Industries Ltd. and Maccaferri Environmental Solutions Pvt. Ltd. He held so many key responsibilities as Sr. Manager in many projects involving design and marketing activities for Geosynthetic Applications in Road Pavements, Development of standard design and marketing tools for the pavement applications and so on. The key projects involved by Deeraj Kumar Reddy are Amaravati Pavement Stabilization Works, Missing link Project in Gujarat, Uttarakhand Landslide Rehabilitation Works, Valmiki Nagar Riverfront Development Works.

Mr. Deeraj Kumar Reddy has Experience in geotechnical and environmental solutions using Geosynthetic material with applications in Pavement Stabilization, Gabion Retaining walls, Flood control works, reinforced soil walls/slopes, erosion control, and coastal protection works. He had vast Knowledge on various geosynthetics, woven steel wire products and their applications. He also well familiar with IRC, IS, BS, ASTM and Euro Codes for flood control and retention works. He was more Successful at anticipating future problems and implementing creative solutions and also effective in managing large diverse teams on variety of projects.

Introduction of the Speaker, Mr. K. Deeraj Kumar Reddy by  
Ms. T. Hemalatha, Community Service Committee Head – IGS SVEC Student Chapter



**tfi**  
**TECHFAB INDIA**  
At the Heart of Geosynthetic Activity

**BASE/ SUB-BASE STABILIZATION – PP BIAXIAL GEOGRID**

The unique structure allows the grid to get a good “grip” on the aggregate particles and results in effective mechanical interlock.

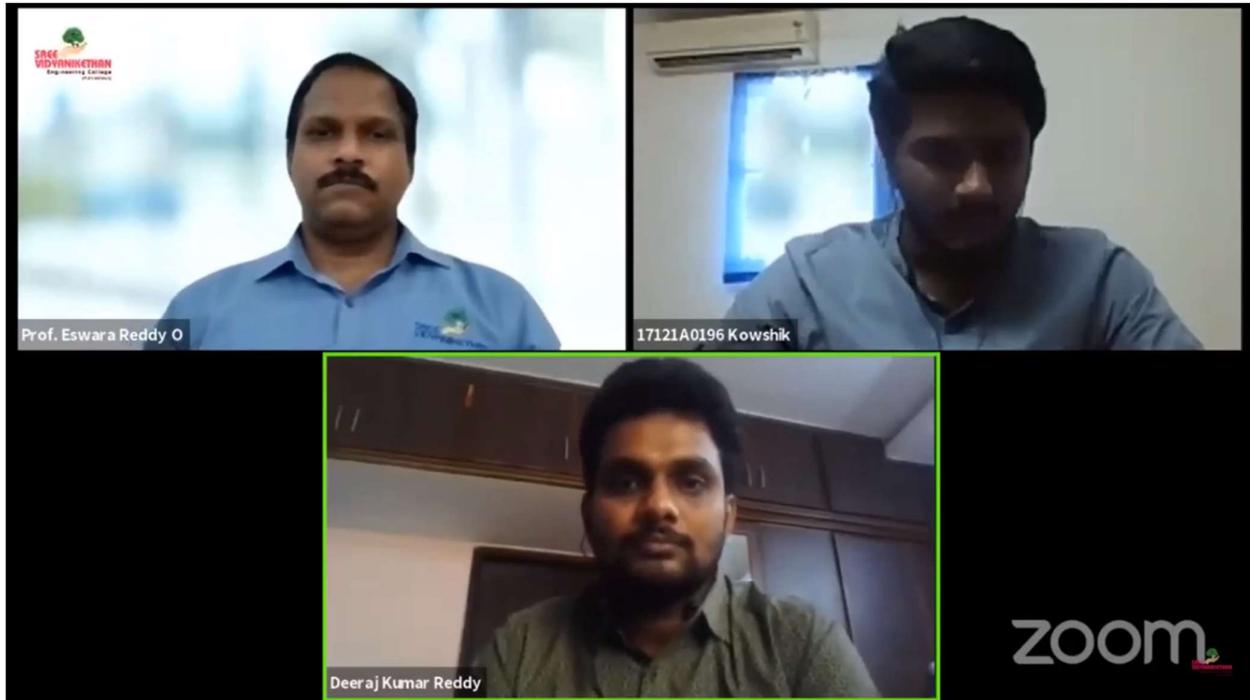
The unique shape of the geogrid ribs confines aggregate particles due to its high stiffness and the strength at the corners (junctions), just like a rack confines billiard balls.

Deeraj Kumar ...

zoom

Mr. K. Deeraj Kumar Reddy, Sr. Manager – Pavements, Techfab India Industries Ltd., Hyderabad delivering the Lecture on “Applications and Case Studies of Geosynthetics in Road Pavement”

**Indian Geotechnical Society  
Sree Vidyanikethan Engineering College (IGS SVEC) Student Chapter**



Mr. K. Deeraj Kumar Reddy, Sr. Manager – Pavements, Techfab India Industries Ltd., Hyderabad addressing the Q & A Session



**Mr. P. S. Harshit**

Sr. Design Engineer - Vertical Wall Technical Unit  
Maccaferri Environmental Solutions Pvt. Ltd  
Gurgaon, India



Mr. P.S Harshit is currently working as Senior Engineer leading the design team of Vertical Wall Technical Unit at Maccaferri Environmental Solutions Pvt. Ltd, Gurgaon, India. He has obtained his bachelor's degree in Civil Engineering from Sree Vidyanikethan Engineering College, Tirupati and has done Post Graduate Diploma in Operations Management from Welingkar Institute of Management Development and Research.

Mr. P.S Harshit has over 6 years of working experience in Geotechnical / Highway Engineering fields. He is involved in Highway Projects for providing Geotechnical Solutions for Soil Retention, Slope Stability and Ground Improvement works. Majority of his work involved Designing of Reinforced Soil walls using geosynthetics for various applications in Highway, Railway and Real Estate Projects in India.

Introduction of the Speaker, Mr. P. S. Harshit by Ms. T. Mounika, Secretary- IGS SVEC Student Chapter

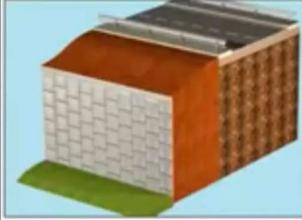
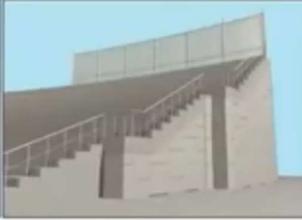
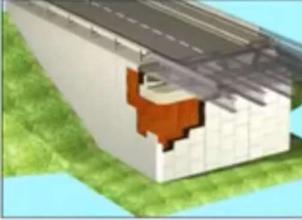
**Indian Geotechnical Society**  
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TYPICAL APP



<input type="checkbox"/> Road & Highway	<input type="checkbox"/> Industries & Mines	<input type="checkbox"/> Residential & Commercial developments
<input type="checkbox"/> Railroads	<input type="checkbox"/> Parks and Gardens	<input type="checkbox"/> Hydraulics (docks, embankments and dams)
<input type="checkbox"/> Airports	<input type="checkbox"/> Architecture (stadium, arenas)	




Mr. P. S. Harshit, Sr. Design Engineer - Vertical Wall Technical Unit, Maccaferri Environmental Solutions Pvt. Ltd., Gurgaon, India delivering the Lecture on "Reinforced Soil Wall System"



Prof. Eswara Reddy O



G LAKSHMI PRASHANTH



Harshit



Mr. P. S. Harshit, Sr. Design Engineer - Vertical Wall Technical Unit, Maccaferri Environmental Solutions Pvt. Ltd., Gurgaon, India addressing the Q & A Session

**Indian Geotechnical Society**  
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**Mr. P. Narendra Kumar Reddy**

Sr. Engineer  
Business Unit - South  
Maccaferri Environmental  
Solutions Pvt. Ltd.  
Gurgaon, India



Narendra kumar Reddy is currently working as a Maccaferri Environmental Solutions Pvt. Ltd, India Multi-National Company, having projects and branches in different parts of the world. He has obtained her Bachelor's degree in Civil Engineering from Sree Vidyanikethan Engineering College, Tirupati and immediately after obtaining the degree, he joined with Maccaferri Environmental Solutions Pvt. Ltd., Gurgaon, Haryana in 2015 through the campus selection.

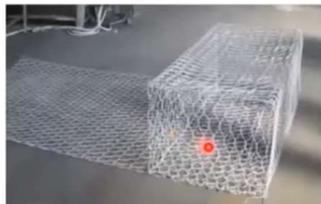
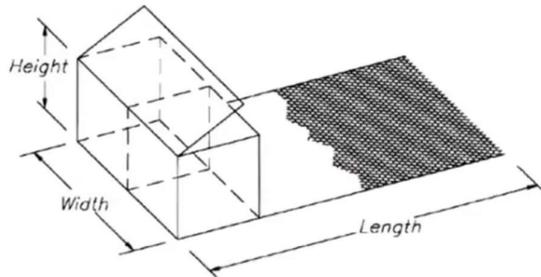
Presently, he is working as a business unit member for the development of Geotechnical & Highway Engineering field related projects in southern part of India. Some of the major areas where he is currently working are problems of instability of hill slopes caused by major and minor landslides and projects related to the use of geosynthetics in different layers of road pavements. Besides above, he is also working on road projects requiring preventive and remedial measures to enhance the life of the pavement structure. .



Introduction of the speaker Mr. P. Narendra Kumar Reddy by  
Ms.R.LakshmiPavani, Membership Committee Head – IGS SVEC Student Chapter.

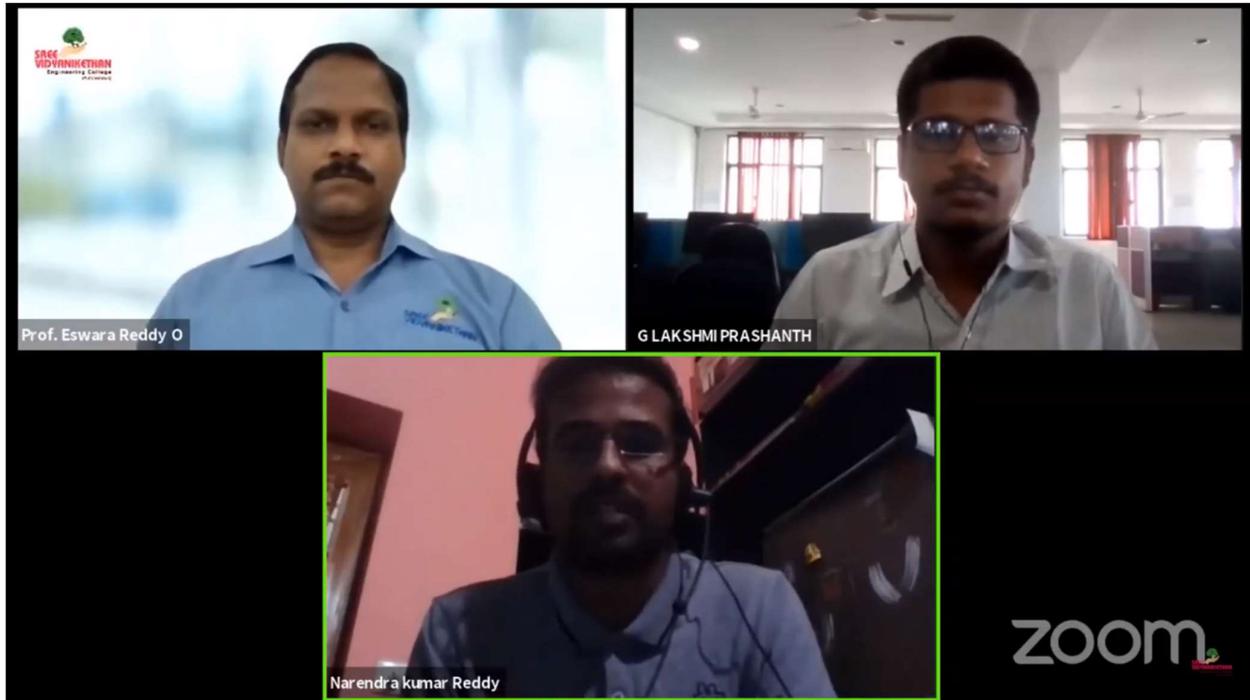
2. Sustainable and advance solutions

GABION FACIA SYSTEM (GFS) FOR REINFORCED SOIL WALLS



14

Mr. P. Narendra Kumar Reddy, Sr. Engineer Business Unit – South,  
Maccaferri Environmental Solutions Pvt. Ltd., Gurgaon, India delivering the Lecture on  
"Reinforced Soil Wall and Slope Facia Systems with Gabion Facia and their Advantages"



Mr. P. Narendra Kumar Reddy, Sr. Engineer Business Unit – South,  
Maccaferri Environmental Solutions Pvt. Ltd., Gurgaon, India addressing the Q & A Session

***YouTube Link of all the Sessions***

[https://www.youtube.com/watch?v=HxhX5NVdWfk&list=PLiesgREIK6YMOAMzI2SXNWSRkbojRdqG\\_&index=1](https://www.youtube.com/watch?v=HxhX5NVdWfk&list=PLiesgREIK6YMOAMzI2SXNWSRkbojRdqG_&index=1)