



**SRI VENKATESWARA COLLEGE OF ENGINEERING**



**DEPARTMENT OF CIVIL ENGINEERING**  
**&**  
**CIVIL ENGINEERING ASSOCIATION (CEA)**

A Report of Guest lecture on  
**“SUSTAINABLE CONSTRUCTION MATERIALS”**

**07<sup>th</sup> January 2023, 3.00 to 4.30 PM**



**SRI VENKATESWARA COLLEGE OF ENGINEERING**  
(An Autonomous Institution affiliated to Anna University, Chennai)  
Pennalur, Sriperusmbudu Tk – 602 117



**DEPARTMENT OF CIVIL ENGINEERING**

**Report of Guest Lecture on “SUSTAINABLE CONSTRUCTION MATERIALS”**

Date : Saturday, 07<sup>th</sup> January 2023  
Time : 3.00 PM to 4.30 PM  
Mode : Online through Google Meet  
Meeting Link: [https:// meet.google.com/xku-jmqw-vkn](https://meet.google.com/xku-jmqw-vkn)

**Speaker**

Mr.GAURAV CHANDRA BRIDHANI,  
Prime Minister Research Fellowship (PMRF) Scholar,  
Structural Engineering Division,Dept of Civil engineering,IIT Madras.

**Convenor**

Dr.R.Kumutha, Professor & Head/Civil Engineering

**Faculty Coordinator**

Mr.R.Kalavannan Assistant Professor/Civil Engineering.

**Target Audience:** Students, Faculty members

Number of Participants benefited: 44

UG Students	36
Faculty	08

## BROCHURE



**SVCE** | Sri Venkateswara  
College of  
Engineering



An Autonomous Institution - Affiliated to Anna University, Pennalur , Sriperumbudur Tk.  
Tamil Nadu 602117

Department of Civil Engineering  
&  
Civil Engineering Association



Solicit Your Esteemed Presence for the  
Guest Lecture  
on

**“SUSTAINABLE CONSTRUCTION MATERIALS”**

by



**Mr. GAURAV CHANDRA BRIDHANI**

Prime Minister Research Fellowship (PMRF) Scholar  
Structural Engineering Division, Dept of Civil engineering  
IIT Madras

Date & Time: 07.01.2023 (03.00 PM to 04.30 PM)

Gmeet Link: [meet.google.com/xku-jmqw-vku](https://meet.google.com/xku-jmqw-vku)

**Student Coordinators**

Mr. Mohammad Salmaan Shariff K N  
Mr. Ramana R  
(III year/Civil Engineering)

**Faculty Coordinator(s)**

Mr. R. Kalaivannan AP/CVE  
Ms. Ruby Freya AP/CVE

**Convenor**

Dr. R. Kumutha,  
Prof & Head / CVE



## **PERSONAL BIO OF THE SPEAKER**

Mr. GAURAV CHANDRA BRIDHANI is a Prime Minister Research Fellowship (PMRF) scholar specializing in Structural Engineering in the Civil engineering department. He has been developing a novel numerical technique for solving fracture boundary value problems in mechanics using meshless basis functions for implicit constitutive material models.

His research interests are Mechanics of Deformable Bodies, Non-linear mechanics, Finite element method, Meshless methods and Constitutive modelling. He had graduated with my Master of Technology (M.Tech.) in Structural engineering from the Indian Institute of Technology Madras (IIT Madras) in 2018.

He had completed his Bachelor of Technology (B.Tech.) in 2016 in Civil engineering from the College of Technology Pantnagar under Govind Ballabh Pant University of Agriculture & Technology, Pantnagar. He also served as an Assistant Professor in the Civil engineering department of Graphic Era Hill University and GLA University.

His hobbies are reading Mythological fiction and playing badminton.

## **BRIEF REPORT OF THE WEBINAR**

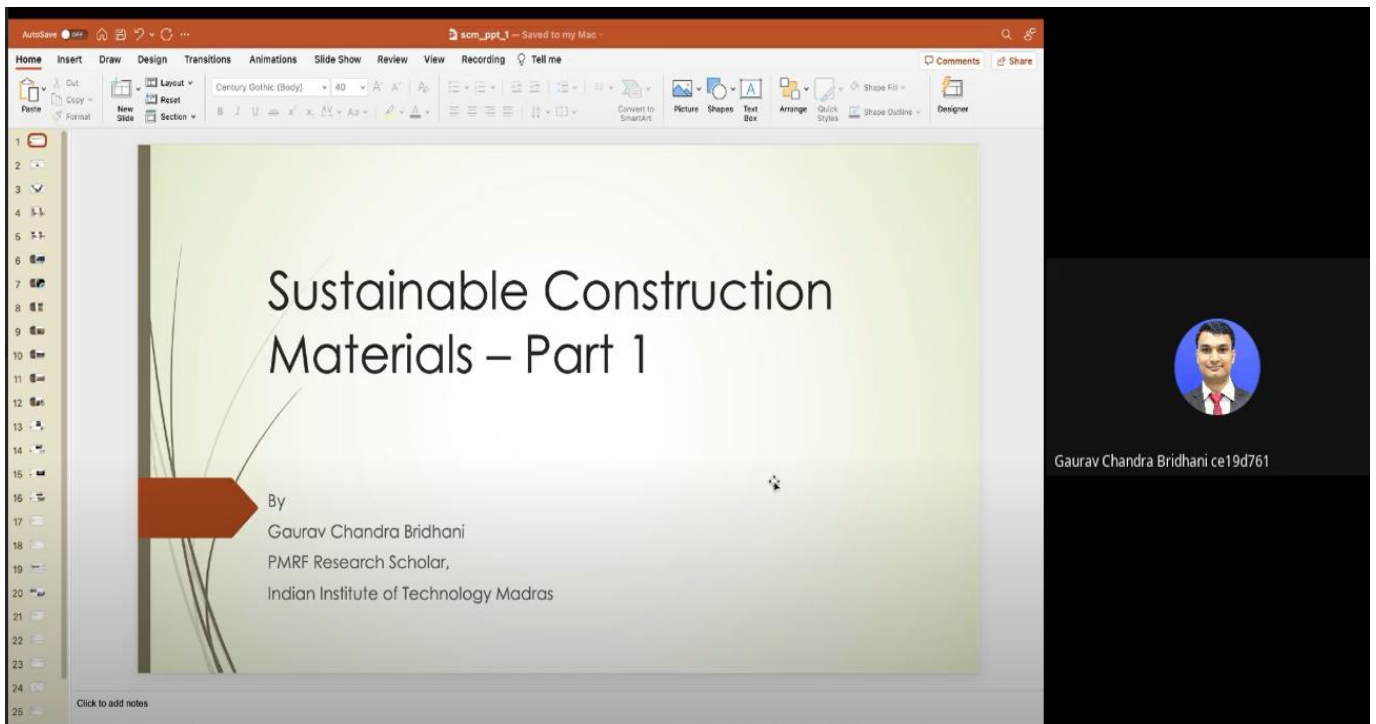
Mr.R.Kalaivannan, Assistant Professor, Department of Civil Engineering, Sri Venkateswara College of Engineering welcomed the gathering and introduced the speaker, Mr. Mr.Gaurav Chandra Bridhani to all the participants.

The speaker started his lecture with welcome note. He gave introduction about sustainable construction materials Later he explained about why sustainable construction materials to be used in construction industries. Further, he talked about the importance of sustainable practices in construction industry and benefits of the same. Also, he covered about how we could combat the global warming through using sustainable construction materials.

The speaker concluded the session and discussed on the queries from the participants.

The session was interactive, and the questions raised by the participants were answered by the speaker. The session ended with a vote of thanks delivered by Mr.Kalaivannan R Assistant Professor/Civil Engineering. The participants also had appreciated the webinar.

## SNAPSHOTS OF THE WEBINAR



The screenshot shows a PowerPoint presentation slide with the following content:

- Title:** Sustainable Construction Materials – Part 1
- Author:** By Gaurav Chandra Bridhani, PMRF Research Scholar, Indian Institute of Technology Madras

The slide is displayed within a Microsoft PowerPoint window. The right sidebar shows the presenter's profile: Gaurav Chandra Bridhani ce19d761.

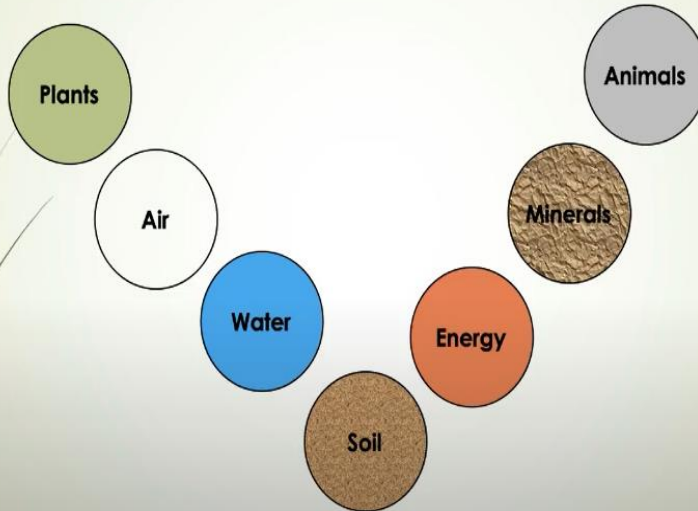


The screenshot shows a PowerPoint presentation slide with the following content:

- Title:** Steps taken so far
- Image 1:** A historical black and white photograph of women in saris standing under a tree. Text overlay: **1974** | The Chipko movement took place
- Image 2:** A modern yellow tree spade machine being used to transplant a tree.
- Caption:** Tree spade machine

The slide is displayed within a Microsoft PowerPoint window. The right sidebar shows the presenter's profile: Gaurav Chandra Bridhani ce19d761.

## Natural Resources



Gaurav Chandra Bridhani ce19d761

## Sustainability in Construction

➤ According to research, building and construction works in countries which are part of the Organisation for Economic Co-operation and Development (OECD) (38 countries) use:

- ❖ 25-40% of total energy
- ❖ 30% of raw materials
- ❖ 30-40% of global greenhouse gas emissions
- ❖ 30-40% of solid waste generation



Gaurav Chandra Bridhani ce19d761

## LIST OF PARTICIPANTS

<b>S.No</b>	<b>Name of the Participant</b>	<b>Name of the Institution/Industry</b>	<b>Category</b>
1.	AADESHWAR S	SVCE	Student
2.	AMARAVATHY U	SVCE	Student
3.	GIRI RAVENDAR M	SVCE	Student
4.	PREM KUMAR S	SVCE	Student
5.	RETHEKA SHIVAKUMAR	SVCE	Student
6.	BHARATH K	SVCE	Student
7.	MANIMARAN A	SVCE	Student
8.	ARIVUMANI S	SVCE	Student
9.	BALAJI M	SVCE	Student
10.	GOKUL A	SVCE	Student
11.	GOPINATH A V	SVCE	Student
12.	GOPINATH K	SVCE	Student
13.	GURUPRAKASH K	SVCE	Student
14.	GURURAJE M	SVCE	Student
15.	HARIHARAN V	SVCE	Student
16.	KAVINSELVA P	SVCE	Student
17.	LAKSHMAN ANAND S	SVCE	Student
18.	LOKESHWARAN R	SVCE	Student
19.	MOHANA PRIYA S	SVCE	Student
20.	R.J.RAMANHUJAM	SVCE	Student
21.	RAMANAN BB	SVCE	Student
22.	RANJANA PIRIYADHARSHINI	SVCE	Student
23.	SIDDHARTH J U	SVCE	Student
24.	VARUN BABU C S	SVCE	Student
25.	VIGNESH A	SVCE	Student
26.	VIKRANTH J	SVCE	Student
27.	YOKESH J P	SVCE	Student
28.	YUGHESWARAN R B	SVCE	Student
29.	LOMINA R	SVCE	Student
30.	GIRIDHARAN V	SVCE	Student
31.	HARSHITHA T	SVCE	Student
32.	PRABHU B	SVCE	Student
33.	HARINI A	SVCE	Student
34.	PRIYADARSHINI R	SVCE	Student

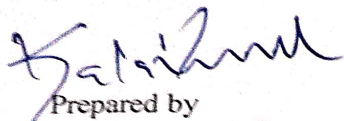


<b>S.No</b>	<b>Name of the Participant</b>	<b>Name of the Institution/Industry</b>	<b>Category</b>
35.	RAGHAVENDRA B	SVCE	Student
36.	RASHIK AHMED R	SVCE	Student
37.	MATHIMITHA	SVCE	Student
38.	ZAAHIR SHA	SVCE	Student
39.	DR.R. KUMUTHA	SVCE	Faculty
40.	RUBY FREYA	SVCE	Faculty
41.	VIJAY VIGNESH A	SVCE	Faculty
42.	HARISWARAN S	SVCE	Faculty
43.	MATHIYAZHAGAN R	SVCE	Faculty
44.	KALAIVANNAN R	SVCE	Faculty
45.	ARUN G	SVCE	Faculty

**Total Number of respondents: 18**

<b>Feedback</b>	<b>Strongly Agree</b>	<b>Agree</b>	<b>Neutral</b>	<b>Disagree</b>
The session delivered the information I expected to receive.	9	6	3	0
The subject matter was presented effectively.	7	9	2	0
The pace and duration of the webinar was satisfactory.	9	6	3	0
The resource person is knowledgeable.	7	9	2	0
The resource person presented the information in a clear and logical manner	9	7	2	0
Sufficient time was given for interaction	9	7	2	1
The webinar was well organized	9	6	3	0
As a result of this webinar, I gained new knowledge	7	8	3	0

**Feedback Link:** <https://forms.gle/iaFBTCS3vrseCB7v8>



Prepared by

Mr.R.Kalaivannan R

Assistant Professor/Civil Engg  
Faculty Coordinator



Approved by

Dr.R.Kumutha

(HoD/Civil Engg.)  
Convenor

