

Department: CIVIL ENGINEERING | Date: 21st May 2020

Expert Lecture on
“Sustainable Utilization of Scrap Tire Derived Geomaterials for Civil Engineering Applications”

The Department of Civil Engineering of Sree Vidyanikethan Engineering College has organized an Expert Lecture on **“Sustainable Utilization of Scrap Tire Derived Geomaterials for Civil Engineering Applications”** under **“IGS Sree Vidyanikethan Engineering College Student Chapter”** on **21st May 2020** from **11:00 A.M to 01:00 P.M.** for the for the benefit of all Civil Engineering Students and Faculty.

The resource person was an eminent personality from the Academia: **Prof. A. Murali Krishna**, Associate Dean, Planning & Infrastructure, Department of Civil and Environmental Engineering, Indian Institute of Technology Tirupati, Tirupati.

The program session was conducted online through **Microsoft Teams Platform**. Expert shared his rich knowledge of the subject with all the participants and enriched them with the concept of Sustainable Utilization of Scrap Tire Derived Geomaterials for Civil Engineering Applications. A total of 120 students and 18 faculty members from the host institution were participated in the program.

Dr. O. Eswara Reddy, Professor, HoD and BOS Chairman, Department of Civil Engineering, SVEC and Faculty Advisor-IGS SVEC Student Chapter; Mr. M. Tharun Kumar, Assistant Professor and Coordinator-IGS SVEC 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.

An Expert Lecture on Sustainable Utilization of Scrap Tire Derived Geomaterials for Civil Engineering Applications

Organized By
IGS SVEC STUDENT CHAPTER

Date: 21st May 2020, Time: 11:00 AM – 1:00 P.M

Platform

Microsoft Teams



<https://rebrand.ly/sustainable-use-of-scrap-tire-derived-geomaterials>



Resource Person

Prof. A. Murali Krishna

Associate Dean, Planning & Infrastructure
Professor (Geotechnical Engineering)
Department of Civil and Environmental Engineering
Indian Institute of Technology Tirupati

Flyer of the Event

Scrap Tire Derived Materials

As per ASTM D6270

- Scrap tire derived (STD) materials divided into 3 types

Tire crumbs

- Maximum size of 12 mm

Tire chips

- Between 12 and 50 mm

Tire shreds

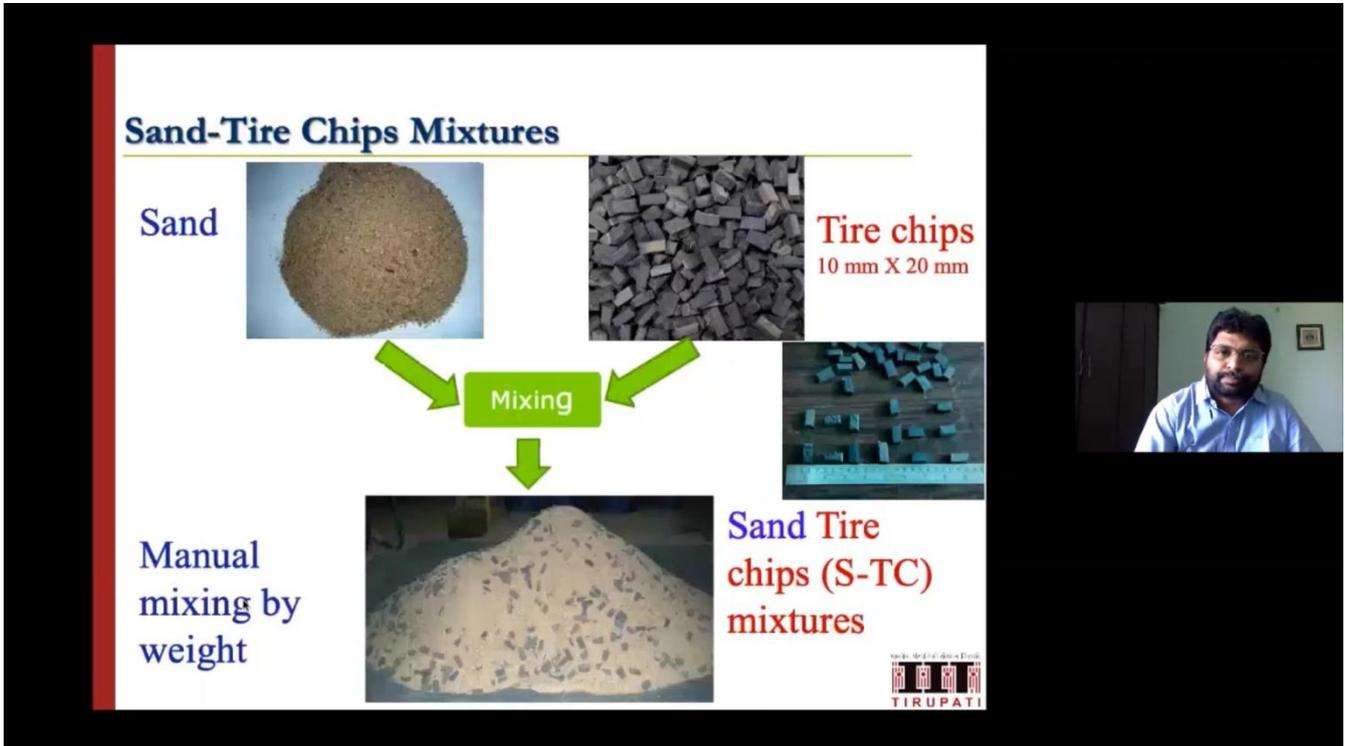
- Between 50 and 305 mm



Standard Practice for
Use of Scrap Tires in Civil Engineering Applications
Designation: D6270 – 17



Prof. A. Murali Krishna delivering the Expert Lecture on “Sustainable Utilization of Scrap Tire Derived Geomaterials for Civil Engineering Applications”



Sand-Tire Chips Mixtures

Sand

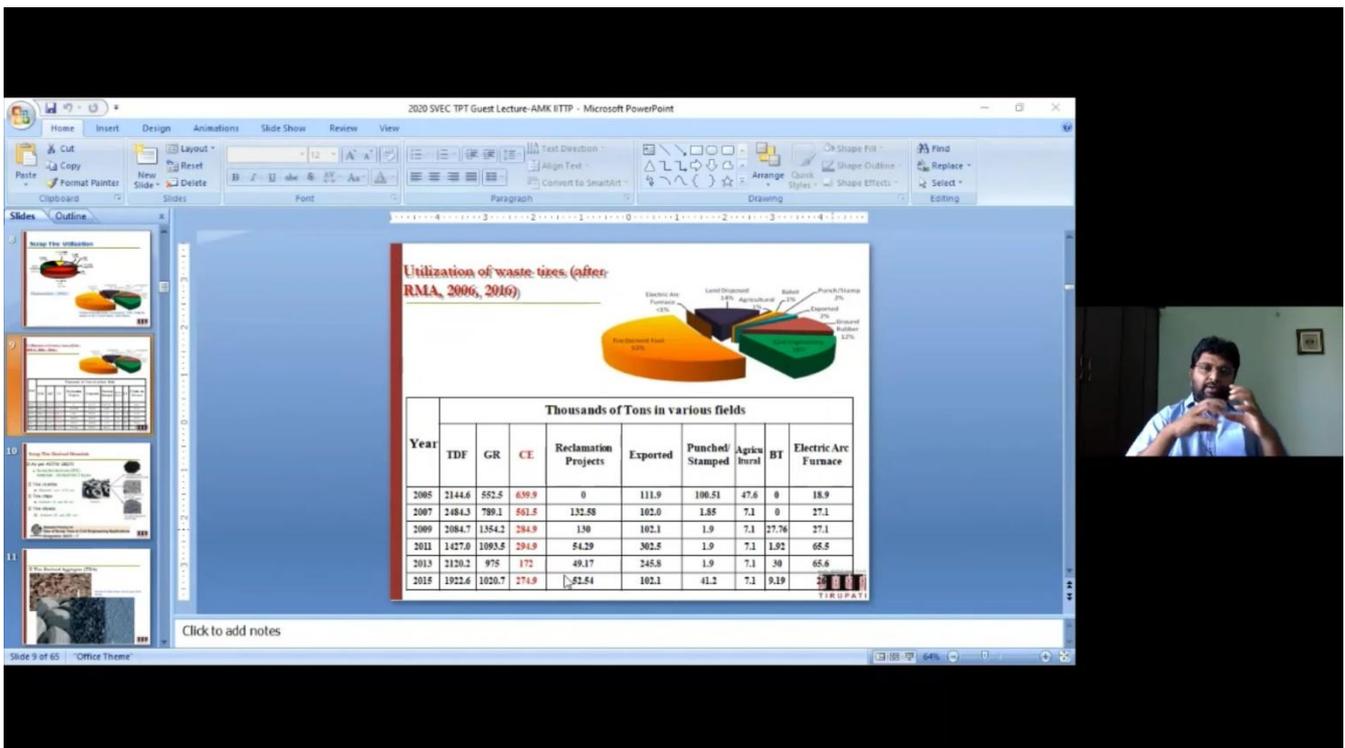
Tire chips
10 mm X 20 mm

Mixing

Manual mixing by weight

Sand Tire chips (S-TC) mixtures

Prof. A. Murali Krishna explaining about Sand-Tire Chips Mixtures



2020 SVEC TPT Guest Lecture-AMK IITP - Microsoft PowerPoint

Utilization of waste tires (after RMA, 2006, 2016)

Electric Arc Furnace 20%
Land Filled 10%
Reclamation 30%
Exported 10%
Punched/Stamped 10%
Agriculture 10%
Other 10%

Thousands of Tons in various fields

Year	IDF	GR	CE	Reclamation Projects	Exported	Punched/Stamped	Agricul thral	BT	Electric Arc Furnace
2005	2144.6	552.5	639.9	0	111.9	100.51	47.6	0	18.9
2007	2484.3	799.1	561.5	132.88	102.0	1.85	7.1	0	27.1
2009	2084.7	1354.2	284.9	139	102.1	1.9	7.1	27.76	27.1
2011	1427.0	1093.5	294.9	54.29	302.5	1.9	7.1	1.92	65.5
2013	2120.2	975	172	49.17	245.8	1.9	7.1	30	65.6
2015	1922.6	1020.7	274.9	52.54	102.1	41.2	7.1	9.19	20

Prof. A. Murali Krishna during the Q & A Session