# K.S.R COLLEGE OF ENGINEERING, TIRUCHENGODE (Autonomous)

Approved by AICTE, New Delhi & Affiliated to Anna University,

Chennai.

#### **ORGANIZED BY**

#### DEPARTMENT OF CIVIL ENGINEERING

#### **NATIONAL CONFERENCE**

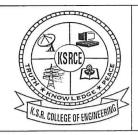
Academic Year: 2021-2022

#### TITLE

Ninth National Conference on "Trendy and Sustainable Development in Civil Engineering"

DATE: 10.06.2022

K.S.R. COLLEGE OF ENGINEERING K.S.R. KALVI NAGAR, TIRUCHENGODE-637 215



## K.S.R. COLLEGE OF ENGINEERING: TIRUCHENGODE – 637 215 (Autonomous)

#### **Event Schedule**

1	Name of the Event (Seminar/Workshop/Conference/FDP/Any other)	National Conference	
2	Name of the Department	Civil Engineering	
3	Date of the Event	10.06.2022	
4	Venue	Google Meet	
5	Title of the Event	Ninth National Conference On "Trendy And Sustainable Development In Civil Engineering"	
6	Name of the Co-ordinators		
7	Total Participants	60	
8	Objectives of the Event	The main goal was to bring together students, academics, scientists, practising engineers, and industry experts to discuss novel concepts, innovative research methods, and a wide range of topics related to the sustainable development of civil engineering.	

CO-ORDINATOR

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HoD/CIVIL

Dr. V. REVATHI, M.Tech., Ph.D.,
Professor and Head
Department of Civil Engineering
K.S.R. College of Engineering
Tiruchengode - 637 215.

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A.S.R. COLLEGE OF ENGINEERING
K.S.R. KALVI NAGAR,
TIRUCHENGODE-637 215



#### K.S.R. COLLEGE OF ENGINEERING: TIRUCHENGODE - 637 215 (Autonomous)

National Conference on "Trendy and Sustainable Development in Civil Engineering"

Date: 10.06.2022

#### **EVENT REPORT**

Ninth National Conference on "Trendy and Sustainable Development in Civil Engineering" was organised by the department of Civil Engineering in K.S.R. College of Engineering, Tiruchengode, and it was held on June 10, 2022.

The NCTSDCE-2022's main goal was to bring together students, academics, scientists, practising engineers, and industry experts to discuss novel concepts, innovative research methods, and a wide range of topics related to the sustainable development of civil engineering.

A hymn of adoration served as the event's opening invocation. Dr. V. Revathi, The Convener - NCTSDCE-22, welcomed the gathering in her welcoming speech. Thiru. R. Srinivasan, vice chairman, K.S.R. Educational Institutions, delivered the presidential address. Dr. P. Senthilkumar, Principal, KSRCE offered the principal address.

The ceremony's inaugural address was given by Dr. P.Velumani, Associate professor, Department of Civil Engineering, BMS Institute of Technology and Management, Bangalore. The National Conference received 42 research papers out of which 29 papers were selected for presentation. The NCTSDCE-22 organising secretary, Dr. P. Prashanthini, delivered the vote of thanks.

CO-ORDINATOR

ATHI, M.Tech., Ph.D., Dr. V. RE Professor and Head Department of Civil Engineering K.S.R. College of Engineering Tiruchengode - 637 215.

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K.S.R. COLLEGE OF ENGINEERING K.S.R. KALVI NAGAR, TIRUCHENGODE-637 215

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#### **ABOUT THE INSTITUTION**

K.S.R. College of Engineering was established in the year 2001 by Aarthi Educational and Charitable Trust, approved by AICTE, New Delhi and affiliated to Anna University. This college is an NAAC (A Grade) Accredited & ISO 9001-2008 certified institution and offers 8 U.G. programmes and 13 P.G. programmes and 7 Research **Progrmmes** 

The college is situated on the Erode-Tiruchengode state highway 8 km from Tiruchengode and 12 km from Erode railway junction. The college is located in a sprawling campus of about 350 acres in the serene, cool shades of coconut trees among the 16 K.S.R. Groups of Institutions. The college has excellent infrastructure, well-equipped laboratories, and computerized library with access to many National & International journals.

#### ABOUT THE DEPARTMENT

The Department of Civil Engineering was started in the year 2002 with a goal to be the centre of excellence for the development and dissemination of knowledge in Structural, Construction, Water Resources and Management, Transportation, Environmental. Urban. Geotechnical, Remote Sensing & GIS and its applications for the society. Students from our department have proved to be meritorious and our faculty has been regularly presenting papers in journals and conferences.

The department also offers M.E. in Structural Engineering and Construction Engineering & Management at P.G level. Furthermore, this department is a Research Centre approved by Anna University. This department Mass bagged "Two times Accreditation" from NBA, NEW TIRUCHENG Delhi.

#### ORGANIZING COMMITTEE

#### **Chief Patrons:**

Lion Dr. K. S. Rangasamy, MJF

Founder, K.S.R. Educational Institutions

Mr. R. Srinivasan.

Vice Chairman, K.S.R. Educational Institutions

Patron:

Dr. P. Senthil Kumar, Ph.D (IITM)

Principal

K.S.R College of Engineering, Tiruchengode

Convener:

Dr. V. Revathi

Professor and Head

K.S.R. COLLEGE OF ENGINEERING Department of Civil Engineering

K.S.R College of Engineering, Tiruchengode

Co-Convener

Dr. S. Senthilkumar

Professor

Department of Civil Engineering

K.S.R College of Engineering, Tiruchengode

**Organizing Secretaries** 

Dr. P.Prasanthni, Asst. Prof

Mr. S.Saravanaganesh, Asst.Prof

c.011 Members

Faculty of Civil Engineering

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**NINTH NATIONAL CONFERENCE ON** "TRENDY AND SUSTAINABLE DEVELOPMENT IN CIVIL

**ENGINEERING**"

NCTSDCE 2022

10th JUNE 2022

Organised by



**Department of Civil Engineering** 

**K.S.R** College of Engineering

(Autonomous)

K.S.R Kalvi Nagar, Tiruchengode

Namakkal - 637215

Tamilnadu

#### **ABOUT THE CONFERENCE**

The conference covers state-of-theart of the Trendy & Sustainable Development the field of Structural, Material. Transportation Engineering, Water Resource Engineering and Management, Geotechnical Engineering ConstructionEngineering Design, Experiment and Construction Regulations and other Civil Engineering related discipline. The conference offers opportunities to research scholars. postgraduate students and industrialists to share innovative ideas related to the field of Civil Engineering.

#### **Call for Papers**

- Concrete Structures
- Concrete Technology
- Construction Management
- Earthquake Engineering Innovative
   Construction Materials
- Pavement Engineering
- Soil and Foundation Engineering
- Steel and Composite Constructions
- Maintenance & Rehabilitation of Structures
- Sustainable Construction & building
- Water Resource Management
- Disaster mitigation and management
- Remote sensing and GIS applications
- > Application of Nano materials in CE
- > Other topics related to Civil Engineering

#### **GUIDELINES TO AUTHORS**

- The authors are requested to submit the full paper in MS Word not exceeding 6 pages to the E-mail: nctsdce22@gmail.com
- PaperFormat: Paper should be in A4 size of Times New Roman font 10 pts, with margins of Top & Bottom 12 mm, Left & Right15 mm with single line spacing.
- First page should include the title of the paper (14 pts), Name of the author, their affiliation, Contact no and their E-mail ID (10 pts), Abstract: Bold (9 pts). Sub headings: Italic (10 pts).
- The Paper must be original and unpublished.

#### **Mode of Conference**

The conference will be organized in the online mode. Link details will be shared through Email for the accepted papers.

#### **Online Registration Link**



https://rb.gy/kdfkwj

For Queries:

Pr.P.Prasanthni: 7373033313

Mr.S.Saravanaganesh: 9894723953

**REGISTRATION FEE** 

Students :Rs.800/-

Academicians/ :Rs.1200/-

**Research Scholars** 

Mode of Payment by DD/NEFT/UPI/Online

#### FOR ONLINE PAYMENT

Account Name : Civil Engineering-KSRCE

Account No.:231801000009233

Bank:Indian Overseas Bank

IFSC Code: IOBA0002318

Branch: T.Goundampalayam, Tiruchengode

MICR Code:638020030

#### IMPORTANT DATES TO REMEMBER

Submission of full length paper: 25,05,2022

Intimation of acceptance: 27.05.2022

Last date for registration: 28.05.2022

#### **CONTACT ADDRESS**

Dr.V.Revathi,

Professor and Head

Department of Civil Engineering

K.S.R College of Engineering, Tiruchengode

Ph:9865442862

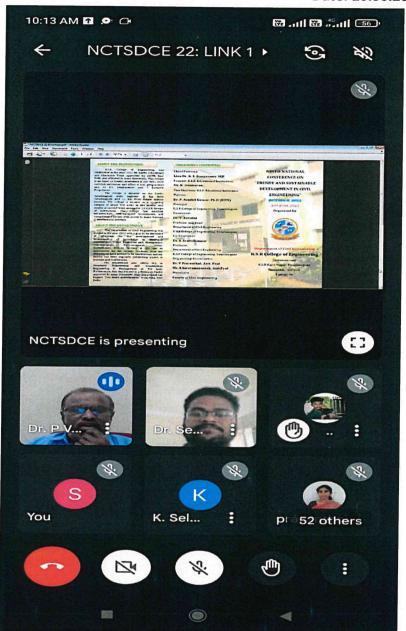
Email: nctsdce22@gmail.com

Website: www.ksrce.ac.in

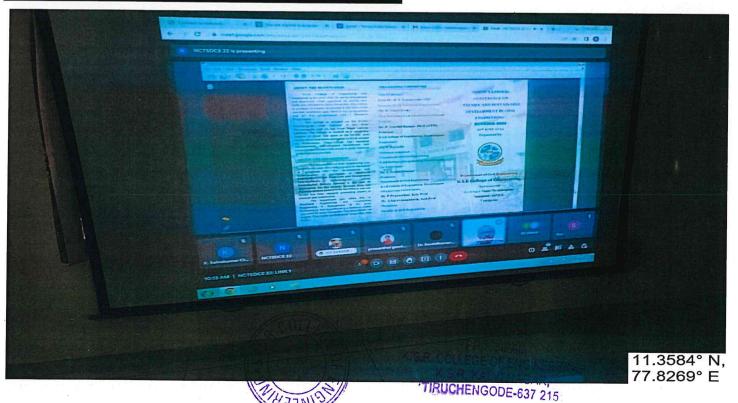
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TIRUCHENGODE-637 245

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## National Conference on "Trendy and Sustainable Development in Civil Engineering" Date: 10.06.2022







Timestamp Statu	Name:	Designation:	Institution:	Email ID:	Category of Registration
2022/05/12 5 Mr.	Bhor Amol Sunil	Assistant Professor	Samarth College Of Engineering Belhe	amolbhor01@gmail.com	Academic / Post Doctorates
2022/05/12 f Mr.	A. K. M. THOHIDUL ALAM KHAN	Ph.D Research Fellow	Chittagong University of Engineering and Technology (CUE	thohidul.ce@gmail.com	Research Scholars / P.G. Students
2022/05/12 f Mr.	Ramu Kasagani	Asst Professor	Ramachandra college of Engineering	ramukasagani0113@rcee.ac.in	Academic / Post Doctorates
2022/05/12 7 Ms.	B. Brindha	B. E Civil engineering-final year	University College of engineering. Ariyalur	brindha4575@gmail.com	Others
2022/05/12 7 Ms.	Thilagavathi	BE (Civil engineering final year)2018-202	University College of engineering Ariyalur	dthilagavathi01@gmail.com	U.G Students
2022/05/12 7 Ms.	Ranjitha R	BE civil (2018-2022)batch	University college of engineering ,Ariyalur .	ramamoorthyranjitha15@gmail.com	U.G Students
2022/05/13 1 Ms.	Jayashree. S, Nandhini. R, Rahin	i Student (Final year)	Kings College of Engineering	Nandhiniravisk01@gmail.com	U.G Students
2022/05/13 7 Ms.	S. JAYA LAKSHMI	IV YEAR, B. E CIVIL ENGINEERING	KINGS COLLEGE OF ENGINEERING	jayalakshmi18092001@gmail.com	U.G Students
2022/05/13 7 Ms.	R.PADMA REKA	B.E.CIVIL ENGINEERING	KING'S COLLEGE OF ENGINEERING, PUNALKULAM	padma613403@gmail.com	U.G Students
2022/05/13 7 Ms.	C. Pavithra	B.E civil engineering	Kings College of engineering	arthi4864@gmail.com	U.G Students
2022/05/13 { Ms.	N.Sarmila	IV year civil	Kings College Of Engineering	sarmilasarmila1021@gmail.com	U.G Students
2022/05/16 1Ms.	K.Roosika	Final year	Kings college of engineering	rusykannan@gmail.com	U.G Students
2022/05/16 1Ms.	B.priyanka	BE.civil engineering	Kings College of engineering	priyankab243726@gmail.com	U.G Students
2022/05/18 1Mr.	VIJAYARAJESH P	Student	ADHIYAMAAN COLLEGE OF ENGINEERING	vijayarajesh2003@gmail.com	U.G Students
2022/05/26 7 Mr.	Vigneshwaran k	M.e structural engineering final year	Ksr college of engineering	trvicky13@gmail.com	U.G Students
2022/05/26 1Mr.	GIRINATH T	Student	KSR COLLEGE OF ENGINEERING	ktr.girinath@gmail.com	Research Scholars / P.G. Students
2022/05/28 5 Mr.	BALAMURUGAN K	PG Student	K. S. R College of Engineering	balamurugan.k317@gmail.com	Research Scholars / P.G. Students
2022/05/28 5 Mr.	Kalaiya Pandian A	Pg -student (ME-Structral Engineering)	KSR COLLEGE OF ENGINEERING	vicky.pandian56@gmail.com	Research Scholars / P.G. Students
2022/05/28 § Mr.	ARAVINDH	STUDENT	KSR COLLEGE OF ENGINEERING	kasiaravindh@gmail.com	Research Scholars / P.G. Students
2022/05/28 1Mr.	N Prabakar	Student	KSR COLLEGE OF ENGINEERING	prabakarchsm@gmail.com	Research Scholars / P.G. Students
2022/05/31 7 Mr.	RENUGARAJ R	STUDENT	K.S.RANGASAMY COLLEGE OF TECHNOLOGY	renugarajraj@gmail.com	Research Scholars / P.G. Students
	Parth Patil/ Parth Pitale/ Yash				,
2022/06/05 5 Mr.	Movalia/ Suyash Gage	Student	Datta Meghe College of Engineering	yashm348@gmail.com / parthpitale40@gmail.com	U.G Students
2022/06/06 1 Ms.	S. Brindha	Student		brindhas0106@gmail.com	Research Scholars / P.G. Students
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#### K.S.R COLLEGE OF ENGINEERING, TIRUCHENGODE- 637215

#### DEPARTMENT OF CIVIL ENGINEERING

## NINTH National Level Conference On "Trendy and Sustainable Development in Civil Engineering" 10th June 2022

Google Meet link: https://meet.google.com/tmy-eeog-yoz

Chair Person: Dr S.Senthilkumar, Professor/Civil

S.NO	Paper ID	Title of the paper	Author	College Name	Timings
1	NCTSDCE01	Experimental Investigation on Partial Replacement of Cement Using Waste Glass Powder	Dr. R. Saravanan, Ms S. Jayashree, Ms R. Nandhini, Ms S. Rahini	Kings College of Engineering, Punalkulam	10 am to 10.10 am
2	NCTSDCE02	Experimental Investigation on Partial Replacement of Cement Using Oystershell Powder	Ms. K. Elakkiya Ms. S. Jayalakshmi, Ms R. Padma Reka, MsC.Pavithra, MsN.Sarmila	Kings College of Engineering, Punalkulam	10.10am to 10.20 am
3	NCTSDCE32	Experimental Investigation on Treatment of Commercial Effluent Using Activated Sludge Process	Mr. R.Ramchandar P.Abinaya B.Priyanka K.Roosika	Kings College of Engineering, Punalkulam	10.20 am to 10.30 am
4	NCTSDCE33	Experimental Investigation On Treatment Of Commercial Efflunt Using Activated Sludge Process	Mr. R.Ramchandar P.Abinaya B.Priyanka K.Roosika	Kings College of Engineering, Punalkulam	10.30 am to 10.40 am
5	NCTSDCE03	Development of Green Building Construction Schemes To Reduce Development Footprint In Building	K.Selvakumar, R.Monisha	K.S.R College of Engineering, Tiruchengode	10.40 am to 10.50 am
6	NCTSDCE04	Experimental investigations of making flexible pavement by using discarded plastic	Mr.S. Elango, Dr.S.Senthilkumar M.Pradeep,	K.S.R College of Engineering,	10.50 am to 11 am



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		neet.google.com/udc-xnzo-gy Gunesekaran, Associate Professo			
1	NCTSDCE07	Study on Investigation of Partial Replacement of Fine Aggregate by Quarry Dust and Fly Ash ir Concrete	K. Manikandan P.Sudha	K.S.R College of Engineering, Tiruchengode	10 am to 10.10 am
2	NCTSDCE08	Experimental Investigation on Plastic Sand Aggregate as a Partial Replacement for Coarse Aggregate in Concrete	Balamurugan P.Prasanthni	K.S.R College of Engineering, Tiruchengode	10.10am to 10.20 am
3	NCTSDCE09	An Analytical Study of The Key Barriers In Construction Project Coordination	Dr.P.Prasanthni Ramprasath	K.S.R College of Engineering, Tiruchengode	10.20 am to 10.30 am
4	NCTSDCE10	A detailed report on quality control Management in construction industry	T. Suthanraj Dr.V.Revathi	K.S.R College of Engineering, Tiruchengode	10.30 am to 10.40 am
5	NCTSDCE11	Study on lean practices implementation issues in Indian construction industry	S. Aravind Dr N.Muralimohan	K.S.R College of Engineering, Tiruchengode	10.40 am to 10.50 am
6	NCTSDCE12	Analytical study on seismic response of RC and steel Structures with lead rubber bearing in dampers using ETABS	N.Prabakar V.Revathi	K.S.R College of Engineering, Tiruchengode	10.50 am to 11 am
		neet google.com/nsr-ccvs-zev	/Civil		
1	NCTSDCE24	Construction of specimen of GFRG (glass fiber reinforced gypsum) Panels as walls in 5Building Instead of Conventional Walls	Pranav Chavan Pratham lad Prathamesh DeshmukhGauriMune B Manjula Devi	DattaMeghe College of Engineering,Sect or-3, Airoli, Navi Mumbai-400708	10 am to 10.10 am

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2	NCTSDCE19	A Review an Optimum Length of Railway Sleepers	Parth Patil, Parth Pitale,Suyash Gage,Yash Movalia, B. Manjula Devi	DattaMeghe College of Engineering, Sect or-3, Airoli, Navi Mumbai-400708	10.10am to 10.20 am
3	NCTSDCE15.	An Experimental Study on Papercrete Bricks Manufactured Using Paper Pulp Lime Cement and Fly Ash	P.Sudha, S Brindha	K.S.R College of Engineering, Tiruchengode	10.20 am to 10.30 am
4	NCTSDCE16.	Experimental Investigation on Recron Fiber Infused Self Curing Concrete	S.Pradheep Dr.M.Gunasekaran	K.S.R College of Engineering, Tiruchengode	10.30 am to 10.40 am
5	NCTSDCE13	Sustainable geopolymer concrete using ground granulated Blast furnaceslag and rice husk ash: strengthProperties	P.Hema R. Abinaya, S.Chandran, B. Dinesh, M. Karthick, V.Revathi	K.S.R College of Engineering, Tiruchengode	10.40 am to 10.50 am
6 10,20	NCTSDCE14.	Experimental Study on Partial Replacement of fine aggregate by spent coffee grounds in concrete	P.Prasanthni, V.Venkataramanan, M.Bose, T.Gowthamraaj	K.S.R College of Engineering, Tiruchengode	10.50am to 11am

Google Meet link: meet google com/rdx-ihpq-vvc

Chair Person: Mr K. Selvakumar, Assistant Professor/Civil

1 1	NCTSDCE18	Experimental Investigation Under Flexural Loading On Behaviour of Ferrocement Channels	D.Jayakumar N.JeyapremrajDr.M.Gunas ekaran	K.S.R College of Engineering, Tiruchengode	10 am to 10.10 am
2	NCTSDCE20	Study Of Geopolymer Concrete Using Ground Granulated Blast Furnance Slag And Flyash	Mr.S.Saravanaganesh, Ajith A, Gokulraj R, Suresh kumarP	K.S.R College of Engineering, Tiruchengode	10.10am to 10.20 am
3	NCTSDCE21	Experimental Study On Metakaolin and Rice-Husk Ash Based on Geopolymer Concrete	S. Dineshkumar, V.Kavinprasath, L.V. Thatchanamur hy, S.V.Ravivarma,	K.S.R College of Engineering, Tiruchengode	10.20 am to 10.30 am
4	NCTSDCE22	Strength and Durability Of E- Plastic Waste Concrete Incorporating Quarry Dust	D.Kanagaraj, A.Kalaiya/Pandian	K.S.R College of Engineering,	10.30 am to 10.40 am



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5	NCTSDCE23	Experimental study on geopolymer Concrete with different types of curing	Mr.A.Thomaseucharist Mr.T.VijayashankarP.Sant hosh Kumar K.Anandharaj P.Kesavakumar V.Revathi	K.S.R College of Engineering, Tiruchengode	10.40 am to 10.50 am
6 18 Oc.	NCTSDCE17	Experimental Investigation for Urban Roads Diesel Driven Vehicles Air Pollution Modeling	G.MeenakshiSundaramM. SaravanaPrabhuV.Subram anian Dr.M.Gunasekaran	K.S.R College of Engineering, Tiruchengode	10.50am to 11am

Google Meet link: meet.google.com/daf-exxj-kxj

Chair Person: Mr D.Kanagaraj, Assistant Professor/Civil

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115	NCTSDCE25	An Experimental Study of Concrete by Partial Replacement of Alccofine and Rice Husk Ash	A.Thomas Eucharist V.Renuka	K.S.R College of Engineering, Tiruchengode	10 am to 10.10 am
2	NCTSDCE26	Experimental study on partial replacement of coarse Aggregate by coconut shell in concrete	A. Alex Rajesh, A. Gokul, P.S. Hariprasath, A. Kaviyarasan4, T. Kirubakaran	K.S.R College of Engineering, Tiruchengode	10.10am to 10.20 am
3	NCTSDCE27	Experimental Study on Administer of Futile Materials by Means of Green Concrete	B. Suresh, S. Naveenkumar, S. Saranraj, B. Vetrivel	K.S.R College of Engineering, Tiruchengode	10.20 am to 10.30 am
4 me 01	NCTSDCE28	Experimental Investigations of MakingFlexiblePavement by Means of DiscardedPlasticas Well as Mineral Fillers	S. Elango D. Kanagaraj, P. Dhivakar, V. Sasikumar, R. Ravishankar	K.S.R College of Engineering, Tiruchengode	10.30 am to 10.40 am
5	NCTSDCE29	Experimental Study on Geopolymer Concrete Using Heavy Weight Aggregate	T. Vijayashankar, Mehul Jha, Manikandan.V Mugeshkann.R, Rema.M	K.S.R College of Engineering, Tiruchengode	10.40 am to 10.50 am
6	NCTSDCE 30	Assessment of Water Pollution Level Around the Industrial Area (3 Districts)	G. Tamilarasi M.Aravindh M.gokul K.muthuraja	K.S.R College of Engineering, Tiruchengode	10.50am to 11am

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K.S.R.Kalvi Nagar, Timuchengoore-637 215
Namakkali Dist., Tamilnada

Google Meet link: meet.google.com/qxr-ufhs-rqa Chair Person: FN - Dr P. Prasanthni, Assistant Professor/Civil K.S.R College Strength Studies on Geo-Mr.S.Saravanaganesh, Polymer Concrete of 10 am to S.Mayilsamy 1 NCTSDCE05 10.10 am Engineering, By Using Fly Ash and Quarry Tiruchengode Dust Dr P.Prasanthni R.Nallenthiran Experimental study on partial K.S.R College 10.10am replacement of coarse T.Manickavel of 2 to 10.20 NCTSDCE31 Aggregate by E-waste in M.Saravanan Engineering, am concrete Tiruchengode S.Prabhakaran R.Babu, Experimental study on partial K.S.R College 10.20 am replacement of fine aggregate L.Naveenkumar of to 10.30 3 NCTSDCE32 Engineering, M.Sathish kumar By steel slag in concrete am Tiruchengode R.Srinivasan K.S.R College An Analysis On Employee 10.30 am Mr.A.Thomas Eucharist of Turnover Problem In to 10.40 NCTSDCE06 4 Engineering, R.Ragul Construction Industry

TIRUCHENGODE

PRINCIPAL K.S.R.COLLEGE OF ENGINEERING K.S.R.Kalvi Nagar, Tiruchengode-637 215 Namakkal Dist., Tamilnadu

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Tiruchengode



### K.S.R.COLLEGE OF ENGINEERING

(Autonomous)

Affiliated to Anna University Chennai & Approved by AICTE
Accredited by NAAC with A Grade and Eligible courses accredited by NBA

K.S.R Kalvi Nagar, Tiruchengode - 637 215 Namakkal District, Tamilnadu, India

# DEPARTMENT OF CIVIL ENGINEERING NINTH NATIONAL CONFERENCE ON "TRENDY AND SUSTAINABLE DEVELOPMENT IN CIVIL ENGINEERING" NCTSDCE - 2022

## CERTIFICATE

This is to certify that **Mr. K.SELVAKUMAR**, Assistant Professor, K.S.R. College of Engineering, Tiruchengode, has presented a paper titled **Development of Green Building Construction Schemes To Reduce Development Footprint In Building** in the Ninth National Conference on "Trendy and Sustainable Development in Civil Engineering NCTSDCE 2022 Organized by the Department of Civil Engineering, K.S.R. College of Engineering, Tiruchengode on 10th June 2022.

Coordinator COLLEGE 637 215

Recatti K.S.R. COI K.S. TIRUC

vener & HoD / Civil

G Alm

Principal