


## FINAL REPORT

# CIVIL ENGINEERING CONFERENCE IN THE ASIAN REGION [CECAR9]

**“SUSTAINABLE DESIGN AND ECO TECHNOLOGIES FOR INFRASTRUCTURE”**

 *Taj Resort & Convention Centre, Goa, India*

[www.cecar9.com](http://www.cecar9.com)

 *September 21<sup>st</sup> -23<sup>rd</sup>, 2022*

*Presented by* **The Institution of Civil Engineers (INDIA) – ICE(I)**



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## CECAR9 OVERVIEW

<b>VENUE</b>	<ul style="list-style-type: none"><li>• <i>Taj Resort &amp; Convention Centre, Goa, India</i></li></ul>
<b>DATE</b>	<ul style="list-style-type: none"><li>• <i>September 21<sup>st</sup>-23<sup>rd</sup>, 2022</i></li></ul>
<b>NO. OF PARTICIPANTS</b>	<ul style="list-style-type: none"><li>• <i>426</i></li></ul>
<b>NO. OF SUBMITTED PAPERS</b>	<ul style="list-style-type: none"><li>• <i>192</i></li></ul>
<b>NO. OF SESSIONS</b>	<ul style="list-style-type: none"><li>• <i>42 [ Some of the TCs have 2 or more sessions]</i></li></ul>
<b>NO. OF EXHIBITORS &amp; BOOTHS</b>	<ul style="list-style-type: none"><li>• <i>13 &amp; 21</i></li></ul>



## GENESIS OF CECAR9

- CECAR (Civil Engineering Conference in the Asian region) is the Triennial International Conference of ACECC. It is one of its major activities and so far 8 CECARs have been organized in the various Asian countries with participation from across the globe.
- The ACECC 34th Executive Committee Meeting held on April 12-14, 2018, at Hanoi in Vietnam decided that the upcoming CECAR9 would be hosted in India by The Institution of Civil Engineers (India) - ICE(I) in 2022.
- Therefore, India got the privilege to host CECAR9 for the first time.



## CECAR9 LEADERSHIP



*ACECC Chair*

**Prof. R.M. Vasan**



*ACECC Planning  
Committee Chair*

**Dr. Rajinder Ghai**



*ACECC Technical  
Coordinating Committee  
(TCC) Chair*

**Dr. S.D. Sharma**



## CECAR9 LEADERSHIP



*ACECC Secretary  
General*

**Dr. Uday P. Singh**



*ACECC Deputy  
Secretary General*

**Dr. Seunghak Lee  
Er. Shalendra Ram**



*CECAR9 Director &  
LOC Chair*

**Prof. T.R. Piplani**



S. NO.	CATEGORY	EARLY BIRD REGISTRATION TILL (15 JULY 2022)	FULL REGISTRATION TILL (31 AUG 2022)
<b>1.</b>	<b>ACECC MEMBERS &amp; FOREIGN DELEGATES (EXCEPT SPECIFIED)</b>		
i)	DELEGATES	US \$ 400	US \$450
ii)	PAPER PRESENTERS	US \$350	US \$400
iii)	STUDENTS	US \$300	US \$350
iv)	ACCOMPANYING PERSON	US \$300	US \$350
<b>2.</b>	<b>FOR PAKISTAN, BANGLADESH, NEPAL &amp; MONGOLIA DELEGATES</b>		
i)	DELEGATES	US \$300	US \$350
ii)	PAPER PRESENTERS	US \$300	US \$350
iii)	STUDENTS	US \$150	US \$200
iv)	ACCOMPANYING PERSON	US \$200	US \$250
<b>3.</b>	<b>FOR INDIAN DELEGATES</b>		
i)	DELEGATES	Rs. 21,500/-	Rs. 25,000/-
ii)	PAPER PRESENTERS	Rs. 21,500/-	Rs. 25,000/-
iii)	STUDENTS	Rs. 11,000/-	Rs. 14,500/-
iv)	ACCOMPANYING PERSON	Rs. 14,500/-	Rs. 18,000/-

- Due to Pandemic, the all registrations were made on Early Bird rates



## REGISTRATIONS

CATEGORY	NUMBERS
ACECC MEMBERS	62
NON-ACECC MEMBERS	8
HOST COUNTRY - INDIAN DELEGATES - SPEAKER, MODERATORS, STUDENTS ETC.	304
ACCOMPANY PERSONS	8
ACECC COMPLIMENTARY DELEGATES	44
<b>TOTAL</b>	<b>426</b>





## REGISTRATIONS DEMOGRAPHIC OVERVIEW

ACECC MEMBERS	TOTAL	PAID	ACC PERSON (PAID)	COMP
<b>ACECC SECTT.</b>	2	0		2
<b>ASCE</b>	11	1	4	6
<b>CICHE</b>	11	7		4
<b>EA</b>	7	1		6
<b>HAKI</b>	7	4		3
<b>ICEI</b>	310	304	2	4
<b>IEB</b>	10	8		2
<b>JSCE</b>	31	25		6
<b>KSCE</b>	18	14		4
<b>MACE</b>	6	2	2	2
<b>PICE</b>	3	0		3
<b>Fed MES</b>	2			2
<b>Others (IEP, NEA, EZ, MdRSCE, VTCEA)</b>	0			0
<b>Others (Non ACECC)</b>	8	8		0
<b>TOTAL</b>	<b>426</b>	<b>374</b>	<b>8</b>	<b>44</b>



## EXHIBITION - PROGRESSIVE VISTA

➤ **21 BOOTHS**

✓ **13 EXHIBITORS:**

1. **URBANACC**

2. **CEPM**

3. **EBTPL**

4. **NORMET**

5. **OUTINORD**

6. **JAQUAR**

7. **JCB**

8. **DOOSAN**

9. **TATA HITACHI**

10. **ACE**

11. **BEML**

**GOVT. COMPLIMENTARY BOOTH :**

12. **BRO**

13. **GOA PAVILION**

➤ **Many visitors were found in exhibit booths during the three days.**

➤ **Several students visited the booth exhibitors and interacted with the exhibitors, exchanging information and ideas.**



## FINANCIAL SUMMARY

	BUDGETED	ACTUALS
<b>TOTAL REVENUE</b>	\$385,750	\$286,055
<b>TOTAL EXPENSES</b>	\$510,770	\$380,557
<b>NET PROFIT/(SHORTFALL)</b>	<b>(\$125,020)</b>	<b>(\$94,502)</b>



## FINANCIAL SUMMARY

### ➤ REVENUE

REVENUE	BUDGETED	ACTUALS
CECAR9 REGISTRATIONS	\$198,200	\$107,810
TECHNICAL TOUR	\$1,050	\$0
BOOTH EXHIBITS	\$50,000	\$47,245
ACECC CORPORATE CONTRIBUTION	\$136,500	\$131,000
<b>GRAND TOTAL</b>	<b>\$385,750</b>	<b>\$286,055</b>



## FINANCIAL SUMMARY

### ➤ REGISTRATION INCOME BY CATEGORY

CATEGORY	NO. OF REGISTRANTS	REGISTRATION FEE RECEIPT (IN US \$)
ACECC	62	21,500
NON ACECC	8	2400
INDIAN DELEGATES & STUDENTS	304	81,910
ACCOMPANYING PERSONS	8	2000
ACECC COMPLIMENTARY	44	0
<b>GRAND TOTAL</b>	<b>426</b>	<b>107,810</b>



# ACECC MEMBERS' CORPORATE CONTRIBUTION FOR CECAR9

S. No	ACECC Members	Corporate Contribution (US \$) CECAR9	No of Complimentary Registration
1	ASCE	25,000	6
2	JSCE	25,000	6
3	EA	25,000	6
4	CICHE	20,000	4
5	KSCE	20,000	4
6	ICE(I)	4,000	4
7	HAKI	4,000	3
8	PICE	4,000	3
9	VFCEA	-	-
10	MACE	1,000	2
11	IEP	1,000	0
12	IEB	1,000	2
13	NEA	-	-
14	FedMES	1,000	2
15	MdRSCE	-	-
		<b>1,31,000</b>	<b>42 +2(ACECC SECTT.) = 44</b>



## FINANCIAL SUMMARY

### ➤ EXPENSES

EXPENSES	BUDGETED	ACTUALS
VENUE/ROOM RENTAL & CATERING	\$173,665	\$169,750
EQUIPMENTS	\$127,690	\$109,000
MARKETING & PRINTING	\$35,750	\$21,807
OTHERS	\$173,665	\$80,000
<b>GRAND TOTAL</b>	<b>\$510,770</b>	<b>\$380,557</b>



## FINANCIAL SUMMARY

EXPENSES	AMOUNT
<b>1. VENUE/ROOM RENTAL &amp; CATERING</b>	<b>\$169,750</b>
<b>2. EQUIPMENTS</b>	
i. EVENT MANAGEMENT	\$74877
ii. CARGO	\$2005
iii. GIFTS & MEMENTOES	\$2804
iv. TRAVELLING EXPENSES	\$29314
<b>EQUIPMENTS TOTAL</b>	<b>\$109,000</b>
<b>3. MARKETING &amp; PRINTING</b>	
i. PRINTING	\$10438
ii. MEDIA	\$3333
iii. IT SERVICES	\$8036
<b>MARKETING &amp; PRINTING TOTAL</b>	<b>\$21807</b>
<b>4. OTHERS</b>	
i. OPERATIONS/SALARIES/HONORARIUM ETC.	\$55359
ii. BANK CHARGES	\$510
iii. MISC. EXP.	\$24131
<b>OTHERS TOTAL</b>	<b>\$80000</b>
<b>TOTAL</b>	<b>\$380,557</b>





# PRESIDENTIAL MEETING & DINNER



## OPENING CEREMONY, 21<sup>st</sup> SEPTEMBER 2022, 10:00-12:30

- The following dignitaries grace the inaugural session with their gracious presence :
- Chief Guest: Dr. Pramod Sawant, Hon'ble Chief Minister, Goa
- Presiding over: Shri Om Birla, Hon'ble Speaker of the Lok Sabha (Virtually)
- Guest of Honour: Lt. General Harpal Singh, EnC, M/o Defence, Govt. of India
- Welcome Address by Dr. R.M. Vasan, ACECC Chair
- Keynote Address by Dr. S.L. Swamy, Chairman, ICE(I)
- Inaugural Address by Chief Guest, Dr. Pramod Sawant, Chief Minister, Goa
- Presidential Pearls by Shri Om Birla, Hon'ble Speaker of the Lok Sabha
- Address by Guest of Honour, Lt. General Harpal Singh, EnC, M/o Defence
- Vote of Thanks by Ms. Maya Thakur, Director General, ICE(I)
- Dignitaries on Dias with the Dignitaries off the Dias Facilitation by Protocol Master, Prof. T. R. Piplani, LOC Chair & Director CECAR9



## PLENARY SESSIONS

- **Plenary Session 1, Sep 21, 12:00-12:30 P.M**
  - Lt. General Harpal Singh, EnC, M/o Defence, Govt. of India
- **Plenary Session 2, Sep 21, 12:30-13:00 P.M**
  - Dr. Dennis D. Truax : President, ASCE
- **Plenary Session 3, Sep 22, 9:30 -10:30 A.M**
  - Dr. Ashok Kumar, Outstanding Scientist, M/o Science and Technology, Govt. of India.
- **Plenary Session 4, Sep 22, 10:30-11:00 A.M**
  - Dr. Rekiro Abe, Chairperson, Oriental Consultants India Pvt. Ltd
- **Plenary Session 5, Sep 23, 09:00-10:00 A.M**
  - Advantage Goa – Senior Officers, Govt. of Goa
- **Plenary Session 6, Sep 23, 10:00-10:30 A.M**
  - Mr. Dudujan Zuma – from South Africa
- **Plenary Session 7, Sep 23, 10:30-11:00 A.M**
  - Dr. Adesh Jain, Chairman, I2P2M



# TECHNICAL SESSIONS



# TECHNICAL SESSIONS : SUB-THEMES OF THE MAJOR THEME

## I. CIVIL ENGINEERING EDUCATION

1. Sustainability of Civil Engineering Education in the context of UNS.D.G
2. Ethics an important component of Civil Engineering curriculum.

## II. INFRASTRUCTURE DESIGN AND CONSTRUCTION TECHNOLOGIES.

1. Innovative Infrastructure, design practices and construction technology for sustainability.
2. Infrastructure development for smart and sustainable cities and affordable housing for developing economies.

## III. NEW CONSTRUCTION MATERIALS

1. New construction materials and sustainability of infrastructure.

## IV. GEO TECHNICAL ENGINEERING

1. Geotechnology management, operation & safety.

## V. TRANSPORTATION

1. Eco-Technologies in pavement design & construction of roads & airports.
2. Traffic Management, operation & safety.
3. New frontiers in Railway technology.





# TECHNICAL SESSIONS : SUB-THEMES OF THE MAJOR THEME

## VI. ENVIRONMENTAL ENGINEERING

1. Green building concept, design & construction technology & their impact on carbon rating.
2. Landfill management technology for energy production.
3. Industrial waste treatment technologies & water pollution.

## VII. WATER RESOURCE MANAGEMENT

1. Water resource management techniques & technologies.

## VIII. RENEWABLE ENERGY

1. Renewable energy, its storage & use

## IX. Application of IT & modelling

1. Application of IT in Civil Engineering projects.
2. Modelling for efficient design of Civil Engineering projects.

## X. DISASTER MANAGEMENT

1. Disaster preparedness, mitigation & rehabilitation.



# TECHNICAL SESSIONS SCHEDULE

<b>DAY - I</b>	<b>(14:00-15:30)</b>	<b>Concurrent Technical Sessions - I</b>						
	<b>Session Location</b>	<b>WEST 1</b>	<b>SOUTH 2</b>	<b>SOUTH 1</b>	<b>WEST 2</b>	<b>CINEMA</b>	<b>BOARD 1</b>	<b>BOARD 2</b>
	<b>Theme</b>	Civil Engineering Education	Disaster Management	Transportation	TC - 14	TC -28	TC-21	TC-22
	<b>Sub-theme</b>	Ethics & Engineering: A Perspective Beyond Limitations	Emerging Engineering Technologies: a boon for Disaster Management	Transforming the Nation Through ITS	TC-14: Sustainable infrastructure projects in ACECC countries	Application of Monitoring Technology for Infrastructure Maintenance	Transdisciplinary Approach for Building Societal Resilience to Disasters	Retrofitting and Strengthening of Existing Infrastructures
	<b>Session Chair</b>	Prof. Purnanand Savoikar Professor and Chairman Board of Studies Civil Engineering Department Goa College of Engineering Goa Mobile: 09922732822, 09422455056	DR. SANTOSH KUMAR-CHAIRMAN - NIDM	Lt. GEN HARPAL SINGH, PVSM, VSM, ADC, Engineer-in-Chief, Intergrated Headquarters, Ministry of Defence, Government of India	DR. Tom SMITH	Dr. Eiki Yamaguchi	Mikio ISHIWATARI, Co Chair- Mr. Romeo S. Momo(PICE)	Prof. Iswandi Imran
<b>EXPERT SPEAKERS - WITH PAPER TITLE</b>	Prof. Koshy Tharakan Professor Department of Philosophy Goa University Mobile: 9428825995 E-mail: koshy@unigoa.ac.in	Mr. D Prabhu, Sr. Engg. Manager, L&T Constructions	DR. P-A WIKSTROM,, COUNSELLOR , INNOVATION AND SCIENCE OF SWEDEN , SWEDEN	Brett C. Phillips	Dr. Masaki Nakano-	Yoshihiro KATSUHAMA- (Nippon KOEI Co., Ltd, Japan)	Dr. Sarosh H. Lodi-Experiences of in Pakistan - (VIRTUAL)	



14:00-15:30	Concurrent Technical Sessions - I						
Session Location	WEST 1	SOUTH 2	SOUTH 1	WEST 2	CINEMA	BOARD 1	BOARD 2
Theme	Civil Engineering Education	Disaster Management	Transportation	TC - 14	TC -28	TC-21	TC-22
Sub-theme	Ethics & Engineering: A Perspective Beyond Limitations	Emerging Engineering Technologies: a boon for Disaster Management	Transforming the Nation Through ITS	TC-14: Sustainable infrastructure projects in ACECC countries	Application of Monitoring Technology for Infrastructure Maintenance	Transdisciplinary Approach for Building Societal Resilience to Disasters	Retrofitting and Strengthening of Existing Infrastructures
<b>EXPERT SPEAKERS - WITH PAPER TITLE</b>	Prof. Ashish K Rege Principal Goa College of Architecture, Goa Mobile: 9822486810 E-mail: aksr2010us@gmail.com gca.archoffice@gmail.com	Dr. M K KAUSHIK-	GREEN TRANSPORT- DR. Ganpathy Arumugan - EBTITLC	Iswandi Imran, Indonesia, HAKI	Ms. Robin Eunju Kim	Ting-Chi TSAO- (Sinotech Engineering Consultants, INC., Taiwan)	Abdul Malek Sikder- Seismic Assessment and retrofitting of the national radio station in Bangladesh
	Dr.S D Manjare- BITS GOA	BRIG. G MUTHUKUMAR BRIG CE Dr. ABHISHEK ROY	DR. SHALENDRA RAM, Technical Director - Transportation, AECOM	Dr.K Gunalan	Mr. Tzu Kang Lin- Current state of Infrastructure	Dr. Khamarrul Azahari RAZAK (Universiti Teknologi Malaysia, Malaysia)	Umesh Kumar SHARMA





14:00-15:30	Concurrent Technical Sessions - I						
Session Location	WEST 1	SOUTH 2	SOUTH 1	WEST 2	CINEMA	BOARD 1	BOARD 2
Theme	Civil Engineering Education	Disaster Management	Transportation	TC - 14	TC -28	TC-21	TC-22
Sub-theme	Ethics & Engineering: A Perspective Beyond Limitations	Emerging Engineering Technologies: a boon for Disaster Management	Transforming the Nation Through ITS	TC-14: Sustainable infrastructure projects in ACECC countries	Application of Monitoring Technology for Infrastructure Maintenance	Transdisciplinary Approach for Building Societal Resilience to Disasters	Retrofitting and Strengthening of Existing Infrastructures
<b>EXPERT SPEAKERS - WITH PAPER TITLE</b>	Dr Sandeep Rankawat, Ass. Professor, Govt Engineering College, Rajasthan	Sophia C. Sharon, Dept. of Civil Engineering, Institute of Teknologi, Bandung	DR. TANUJ CHOPRA Department of Civil Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India	URBANAAC- MR. ARJUN AMIN	A.F.M Saiful Amin- Maintainence and monitoring	Dr. Dexter S. Lo (Xavier University, Philippines)	K K Bhehettwa
	Dr S Rama Devi Pani Coordinator of CECAR9 and Editor, University News Association of Indian Universities New Delhi Mobile: 9582573719	Daisuke SASAKI	Prof. Manish Kumar, Professor, IIT Gandhinagar		Masaki Miyamura (VIRTUAL)	Dr. Youb Raj Paudyal (National Reconstruction Authority, Nepal)	



15:45-17:15	Concurrent Technical Sessions - II						
Session Location	WEST 1	SOUTH 2	SOUTH 1	WEST 2	CINEMA	BOARD 1	BOARD 2
Theme	TC-17 Part-A (30 minutes)	New Construction Materials	Infrastructure Design and construction technologies	Geo Technical Engineering	TC-23	TC-24	TC-25
Sub-theme	Best Practices in Procurement to Reduce Bribery, Corruption & Fraud	Shedding Light on Sustainable Construction Materials to focus on minimizing Carbon Emission in the Long Run	3D PRINTING TECH IN CONSTRUCTION INDUSTRY	Revolutionizing Geotech with Cutting Edge Soil Reinforcing Techs	Applications of Geosynthetics for various civil engineering disciplines	Gender and Development in Infrastructure	The guidance of civil infrastructure practitioners in the design and construction of stabilised pavements in the Asia-Pacific Region
Session Chair	K. N. Gunalan, Ph.D., PE, D.GE, Pres.20.ASCE	Prof Som Nath Sachdeva Vice Chancellor Kurukshetra University Kurukshetra-136119 (Haryana)	BRIG. G MUTHUKUMAR Brig CE	DR. SUNIL KUMAR PATTANAIK, CHAIRMAN OF SGI, ORISSA		Moderator: Mr. PETER PAUL P. DY Immediate Past President, Philippine Institute of Civil Engineers	Prof. RM Vasan
EXPERT SPEAKERS – WITH PAPER TITLE	Mr. MAQBOOL A MOHAMMAD	Dr. Rajendra Shende Chairman, TERRE Policy Centre and Former Diplomat, United Nations, India Terre Policy Centre 306, Muticon Squares Pandurang Colony, Erandwane,	BRIG. G MUTHUKUMAR Brig CE	Kaushik Gaundaliya- Research Scholar	Prof. Sivakumar Babu-Developments in Design Criteria for Granular and Geotextile Filters	Ms. APRIL J LANDER	1. Professor B. A. BRIAN O Donnell



15:45-17:15	Concurrent Technical Sessions - II						
Session Location	WEST 1	SOUTH 2	SOUTH 1	WEST 2	CINEMA	BOARD 1	BOARD 2
Theme	TC-17 Part-A (30 minutes)	New Construction Materials	Infrastructure Design and construction technologies	Geo Technical Engineering	TC-23	TC-24	TC-25
Sub-theme	Best Practices in Procurement to Reduce Bribery, Corruption & Fraud	Shedding Light on Sustainable Construction Materials to focus on minimizing Carbon Emission in the Long Run	3D PRINTING TECH IN CONSTRUCTION INDUSTRY	Revolutionizing Geotech with Cutting Edge Soil Reinforcing Techs	Applications of Geosynthetics for various civil engineering disciplines	Gender and Development in Infrastructure	The guidance of civil infrastructure practitioners in the design and construction of stabilised pavements in the Asia-Pacific Region
EXPERT SPEAKERS - WITH PAPER TITLE	TC-17 Part-B (30 minutes)	Prof B.S Satyanarayana Vice Chancellor C V Raman Global University Odisha	Prof. Manish Kumar, Professor, IIT Gandhinagar	DR. NGANGBAM ROMEJI, Assistant Professor and Head, NIT Manipur	Chiwan Wayne Hsieh, Chia-Wei Chang, and Po-chun Chuang-LID Plastic underground water storage tanks engineering behavior under static and cyclic loads	Mr. CARY H. BEATISULA	2. Professor R. J. Yang
	WHAT IS NEW IN FIGHTING CORRUPTION	Prof. S P Singh Vice Chancellor Royal Assam University Gauhati-781035 (Assam)	Mr. Harish Meena, Founder, Twasta	Ripon Hore, Senior Assistant Engineer , LGED and Adjunct Faculty, East West University, Bangladesh	Vivek P. Kapadia- Role of Geosynthetics in Regalvanizing Design and Restoration Strategies for Dams	DR.SHALENDRA RAM	3. Mr P. L. Mitchell



15:45-17:15		Concurrent Technical Sessions - II					
Session Location	WEST 1	SOUTH 2	SOUTH 1	WEST 2	CINEMA	BOARD 1	BOARD 2
Theme	TC-17 Part-A (30 minutes)	New Construction Materials	Infrastructure Design and construction technologies	Geo Technical Engineering	TC-23	TC-24	TC-25
Sub-theme	Best Practices in Procurement to Reduce Bribery, Corruption & Fraud	Shedding Light on Sustainable Construction Materials to focus on minimizing Carbon Emission in the Long Run	3D PRINTING TECH IN CONSTRUCTION INDUSTRY	Revolutionizing Geotech with Cutting Edge Soil Reinforcing Techs	Applications of Geosynthetics for various civil engineering disciplines	Gender and Development in Infrastructure	The guidance of civil infrastructure practitioners in the design and construction of stabilised pavements in the Asia-Pacific Region
EXPERT SPEAKERS - WITH PAPER TITLE	Ernesto S. de Castro, Ph.D., Past President PICE	Dr S Rama Devi Pani Editor, University News Association of Indian Universities New Delhi	MR. SHASHANK Founder, MiCOB	Dr. Shwetha/Rohit RAVI Don Bosco			
			Mr. Amit Ghule, Founder, Simplyforge	JAGUAR- MR. RAKESH RADHAKRISHNAN			



10:00-11:30		Concurrent Technical Sessions - III						TC- 26
		Theme	Transportation	New Construction Materials	Infrastructure Project Management	Futuristic Construction Techs	Water Resource Management	
<b>DAY - II</b>	<b>Sub-theme</b>	Infrastructure Design and construction technologies	The Art of disruption: Intelligent Transportation	New Technology - A way Forward	“Managing Infrastructure Projects in D+VUCA World”	Shedding Light on Sustainable Construction Materials to focus on minimizing Carbon Emission in the Long Run	Sustainable Agriculture: A delayed destiny	Sustainable Water Resources Engineering in a Changing Climate II
	<b>Session Chair</b>	Maj Gen Ashok Kumar Director General Works Military Engineer Services	Dr. R M Vasan	ASHOK KUMAR- CBRI	Dr. Adesh Jain	Dr. MK Kaushik	Prof MURTAZA HASAN/Abdul Hasan	April J. Lander (ASCE)
	<b>EXPERT SPEAKERS – WITH PAPER TITLE</b>	Col Jayant Joshi	Shri RK Garg , VSM, SE CIVIL COMMANDER - 13	SAOUMAN MAITI- CRRI	Sh. S.N.Tripathi (RED Hydro/ED PM, NTPC Limited)	Vinod Kumar MAURIYA, Deputy General Manager (PE-Civil), NTPC Ltd	Mahendar Pratap Choudhary	Engr. Robinson Abella SALENGA II- Water- (VIRTUAL)
		Lt Col BM Manoj ,	Brig Saket S, CE Project Beacon,	SATISH PANDEY- CBRI	Shri. D S Nanaware	Aritro Roy MITRA, Department of Construction	S.K.Pattanaaik, Head, Department of Natural Resource Managemen Central Agricultural University, Pasighat, Arunachal Pradesh	Engr. Robinson Abella SALENGA II* Treatment Plants (VIRTUAL)
Shri Rohit Gupta ,EE		Shri JK Dwivedi, SE CIVIL , OFFG, CE (P) BRAMHMANK	Dr. Manish Mudgal - CBRI		Mainak GHOSAL, Indian Institute of Engineering Science	MR. SANGBIN LEE	Dr. Badarch AYURZANA*, Gansukh BATZORIG, Mongolia	



10:00-11:30	Concurrent Technical Sessions - III						
Session Location	WEST 1	SOUTH 2	SOUTH 1	WEST 2	CINEMA	BOARD 1	BOARD 2
Theme	Infrastructure Design and construction technologies	Transportation	New Construction Materials	Infrastructure Project Management	Futuristic Construction Techs	Water Resource Management	TC- 26
Sub-theme	Infrastructure Fortifying Defense- MES	The Art of disruption: Intelligent Transportation	New Technology - A way Forward	“Managing Infrastructure Projects in D+VUCA World”	Shedding Light on Sustainable Construction Materials to focus on minimizing Carbon Emission in the Long Run	Sustainable Agriculture: A delayed destiny	Sustainable Water Resources Engineering in a Changing Climate II
EXPERT SPEAKERS - WITH PAPER TITLE	Lt Col Parikshit Lapalkar	Dr. Harshringar Patel	Dr. SK Singh - CBRI		SUMINDER MEERWAL	DON BOSCO GOA- Tanishq Kulkarni FLOOD ANALYSIS	Seongnam AN, Jaeshik CHUNG, and Seunghak LEE* (KSCE)-
	Lt Con N Akshay Kumar AV	Dr. Madhu Bala Roy	Dr. L P singh-- CBRI		Ravpreet Kaur- (VIRTUAL)- Research Scholar at I.K. Gujral Punjab Technical University, Jalandhar, Punjab, India and Assistant Professor at SGT University, Gurugram	Mr. H N ASWATH - SHIPPING MINISTRY	





12:00-13:30							
Concurrent Technical Sessions – IV							
Theme	Civil Engineering Education	Infrastructure Design and construction technologies	Innovative Designs	Geo Technical Engineering	Renewable energy	ENVIRONMENTAL ENGINEERING	TC-17
Sub-theme	Hidden Gems: Women in Infrastructure	Accessible Infra: Leaping towards an Inclusive Future	NITI -KA, National Institution for Transforming India	Reclamation of Abodened Mine Sites	Green Alternatives for Building Heat Management	GREEN MANAGEMENT TECHNIQUES IN INFRASTRUCTURE	TEACHING MOMENTS IN ETHICS AND REDUCING CORRUPTION
Session Chair	Ms. Swinderjeet Brar- IAS OFFICER	Dr. Shwetha P.	Mr Sujit Jena, Senior Associate, NITI Aatog	Dr. Vaibhav Sakpal	DR. NGANGBAM ROMEJI, Assistant Professor and Head, NIT Manipur	Dr. K G Guptha	Robin A. Kemper, PE, LEED AP, ENV SP, F.SEI, Pres.19.ASCE
EXPERT SPEAKERS - WITH PAPER TITLE	Vaishali Hiwase	Shri RK Dhiman, VSM, DDG (RB-80)	Mr Sujit Jena, Senior Associate, NITI Aatog	Brig. A S KANWAR, CE (P) ARUNANK	Dr. Hilda Farcas-EMBASSADOR OF HUNGARY	Chitra V, Dept of Civil Engg, M.S.	Dr. Asih/Prasanti Widyasih Sarli HAKI Chair FLF
	Obing Taki	Dr. Harshringar Patel	Mr Joseph Teja, Consultant, NITI Aayog	GIDEBO Frehaileab Admasu, Department of Civil (VIRTUAL) Ph.D. Candidate, Department of Civil and Environmental Engineering, Ehime University, Matsuyama, Japan	Shri Purushottam P. Doijode-JY. DIR. (Arch.)	DR. Ajay Goyal	April J. Lander, MEM, JP, ENV SP, A.M.ASCE
	Major Aaina Rana	NICMAR-MOIZUDEEN	Mr Abhishek Saxena, Consultant, NITI Aayog;	Mr. Aman THAKUR, Guru Nanak Dev Engineering College, Punjab (student)	GREEN FUEL -DR. Ganpathy Arumugan - EBTITLC	Mr. Shashidhara	Win Naing Htun's



12:00-13:30							
Concurrent Technical Sessions - IV							
Theme	Civil Engineering Education	Infrastructure Design and construction technologies	Innovative Designs	Geo Technical Engineering	Renewable energy	ENVIRONMENTAL ENGINEERING	TC-17
Sub-theme	Hidden Gems: Women in Infrastructure	Accessible Infra: Leaping towards an Inclusive Future	NITI -KA, National Institution for Transforming India	Reclamation of Abodened Mine Sites	Green Alternatives for Building Heat Management	GREEN MANAGEMENT TECHNIQUES IN INFRASTRUCTURE	TEACHING MOMENTS IN ETHICS AND REDUCING CORRUPTION
Session Chair	Ms. Swinderjeet Brar- IAS OFFICER	Dr. Shwetha P.	Mr Sujit Jena, Senior Associate, NITI Aatog	Dr. Vaibhav Sakpal	DR. NGANGBAM ROMEJI, Assistant Professor and Head, NIT Manipur	Dr. K G Guptha	Robin A. Kemper, PE, LEED AP, ENV SP, F.SEI, Pres.19.ASCE
EXPERT SPEAKERS - WITH PAPER TITLE	Ms. NITI GARG	RAJESH GOYAL	MIKIO ISHIWATARI	Mr. SRIJAN, RESEARCH SCHOLAR	Dr. M K Kaushik- Sustainable Biogas Production in Large Bioreactor using agro-animal waste,	PROF. GAURAV PANDEY	
		ANUPAM B R/ UC SAHOO, Research Scholar		Dr. RAHUL SHARMA	Dr. Vaibhav Sakpal- REMOVAL OF HIGHLY	Ms.SARAH KHAN (S.S)	





14:30-16:00 Concurrent Technical Sessions - V							
Theme	TRANSPORTATION	Renewable energy	Application of IT & modeling	New Construction Materials	TC-14	TC -18	Water Resource Management
Sub-theme	(BRO)	Sustainable infra-civil arena towards climate Action or Panchamrita thatva	Intelligent Engineering with Block Chain Models: Adding Value to Business	Shedding Light on Sustainable Construction Materials to focus on minimizing Carbon Emission in the Long Run	A Sustainable Infrastructure Road Map Underpins Achieving the UN SDGs in ACECC countries	Adotion of Standard Construction and Maintenance of Long-Span Bridges Stantec, Managing Safety Centric Bridge Inspection Program	Smart Water Management: The Way Forward
Session Chair	Shri RK Dhiman, VSM , DDG (RB-80)	Dr. M. Senthilkumar, HEAD, Corporate Environment Cell, NLC INDIA LIMITED.	Prof. Anjan Dutta	Dr. Ajay Goel - CHITKARA UNIVERSITY	Tom Smith, ASCE Executive Director	DR. KIM	Dr. RAHUL SHARMA
EXPERT SPEAKERS - WITH PAPER TITLE	Brig Harish Kumar , CE PROJECT VARTAK	Dr. Nehru Kumar Vaithilingam , Director CENTRE FOR ENVIRONMENT, HEALTH & SAFETY ANNAMALAI UNIVERSITY	D. F. Tiana RAZAKAMANDIMB Y R. Department ofi Univeristy Korea	Shraddha- K G GUPTHA	Mohamad ABDUH	Maqbool A. Mohammed (ASCE),	PRIYANKA/ Kshyana Prava SAMAL, Associate Professor,
	Brig Gaurav Singh Karki , VSM, CE (P)-HIMANK	Dr. Virapan. S, Chairman & Managing Director of Sanvir Associates	Vishal Singh, Deptt. of Civil Engineering, Birla Institute of Technology and Science, Pilani	PROF. Dilraj SINGH - SUB DIVISIONAL ENGINEER , PUNJAB URBAN PLANNING AND DEVELOPEMNET AUTHORITY	Gianluca Ranzi (Virtual), and Brett C. Phillips	Yohei Kagawa Internal inspection of main cable of the Akashi Kaikyo	Dr. Deepak Verma



14:30-16:00							
Concurrent Technical Sessions - V							
Theme	TRANSPORTATION	Renewable energy	Application of IT & modeling	New Construction Materials	TC-14	TC -18	Water Resource Management
Sub-theme	(BRO)	Sustainable infra-civil arena towards climate Action or Panchamrita thatva	Intelligent Engineering with Block Chain Models: Adding Value to Business	Shedding Light on Sustainable Construction Materials to focus on minimizing Carbon Emission in the Long Run	A Sustainable Infrastructure Road Map Underpins Achieving the UN SDGs in ACECC countries	Adotion of Standard Construction and Maintenance of Long-Span Bridges Stantec, Managing Safety Centric Bridge Inspection Program	Smart Water Management: The Way Forward
EXPERT SPEAKERS - WITH PAPER TITLE	Brig N Ahlawat , CE (P) SWASTIK	Dr. R. Saravanane, Assistant Professor Environmental Engineering Department of Civil Engineering Pondicherry Engineering College Puducherry	Alinda DEY, PhD Student Deptt. Of Reinforced Concrete Structures and Geotechnics, Vilnius Tech , Vilnius, Lithunia	Dr. Anush K Chanrappa, associate professor, IIT BHU	Dr. K Gunlan	Ho-Kyung Kim Seoul National University, Korean Experience in Wind-related Maintenance and Operational Issues	Mr. Sunghun Kim
	Shri R S RAO SE CIVIL	Dr. R. Sivacoumar, Senior Principal Scientist in National Environmental Engineering Research Institute (NEERI), Chennai	Dr. ABHISHEK ROY	Dr. TRISHNA Choudhary	Yoshinori FUKUBAYASH	Jiaqi Wang (JSCE) Yokohama National University, Experimental Investigation on Aerodynamic Instabilities of a Cable-stayed Bridge with an Edge Girder using a Full-bridge Aeroelastic Model	Hyojeong Lee-Master's student, Dept. of Civil & Environmental Engineering, Hongik University, Seoul, South Korea
	Shri Mukul Mishra, SE CIVIL COMMANDER -24	RANGASWAMY CHIDANANDA MURTHY Solar Energy Expert cum PPP Transaction Advisor	Prof. Bhagirath Solanki	DR. Sudhir Prabhudessai Deputy Chief Engineer Mormuguo Port Authority	Brett Phillips	Wonsuk Park (KSCE)	Miss Priyanka Patra.-NORMET- Concrete Protection and Repair



16:15- 17:45		Concurrent Technical Sessions - VI					
<b>Theme</b>	Infrastructure Design and construction technologies	Futuristic Construction Techs	Transportation	Application of IT & modeling	TC - 26	TC 27	FLF - IV
<b>Sub-theme</b>	How Each One of us can Create Sustainable World Lessons: Towards a Circular Economy	Wearable Techs: Leading Edge Solutions to conquer Safety Issues	E-Mobility: A Path to Future	Predictive Modelling: Making the Process of Inspection Smarter	Sustainable Water Resources Engineering in a Changing Climate II	Interdisciplinary Strategic Foresight for Infrastructure	Sustainable Infrastructure
<b>Session Chair</b>	Dr. Shashidhara	Dr. RAHUL SHARMA	Dr. Shalendra Ram	Dr. Abhishek Roy	April J. Lander (ASCE)	Prof. Iswandi Imran	Prasanti W. Sarli/HAKI
<b>EXPERT SPEAKERS - WITH PAPER TITLE</b>	JEONG GOOK JANG (Dr. RAJU)- Associate Professor / Ph.D. Major of Architectural Engineering Division of Architecture and Urban Design Incheon National University 119 Academy-ro, Yeonsu-gu, Incheon, 22012, Republic of Korea	Photocatalytic degradation of bisphenol A by nanotubes on stainless steel- Jongdo Im (VIRTUAL)	Viraj GUPTA, Sr. Deputy General Manager, Delhi Metro Rail Corporation, New Delhi	Dr. TRISHNA Choudhary	Katherine A. DANIELL*,	Dr. Elias Sayah- Future World Vision	Prasanti W. Sarli/HAKI present offline



16:15- 17:45	Concurrent Technical Sessions - VI						
Theme	Infrastructure Design and construction technologies	Futuristic Construction Techs	Transportation	Application of IT & modeling	TC - 26	TC 27	FLF - IV
Sub-theme	How Each One of us can Create Sustainable World Lessons: Towards a Circular Economy	Wearable Techs: Leading Edge Solutions to conquer Safety Issues	E-Mobility: A Path to Future	Predictive Modelling: Making the Process of Inspection Smarter	Sustainable Water Resources Engineering in a Changing Climate II	<b>Interdisciplinary Strategic Foresight for Infrastructure</b>	Sustainable Infrastructure
EXPERT SPEAKERS - WITH PAPER TITLE	LT. Col Utsav	So-Jeong KIM- Effectiveness of modified activated carbon in reducing the bioavailability of	Chiranjib SARKAR, ME (Struct.), CEng, MIE, GMICE(UK) Vice Chairperson – TAIYM Senior Structural Engineer, Heavy Infrastructure, AECOM	Mansi Agarwal-	Engr. Robinson Abella SALENGA II-Water Resources Challenges	Shalendra Ram (EA), Future of Transport	Dr. Trishna Choudhury/ICE present offline
	Lt Col Brijendar Kumar SE	Piyush Katare- Rubber Powder as a Partial Replacement to Fine Aggregate in Geopolymer Ferrocement	HARISH L REDDY Modeling the Impact of Delay Causal Factors Using PLS-SEM Approach in the Context of Highway Projects in India	Dr Kamal Kumar Sethi	Seongnam AN and Seunghak LEE*-	Ernesto De Castro (PICE, Digital Future of AEC Industry	Madi Elliot/EA,



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<b>EXPERT SPEAKERS - WITH PAPER TITLE</b>	Mr. RAJARAJAN JR , Sr. Engg. MANAGER	ER. Avijit Chaubey, (A k jain), Head Technical , Ultrafine minerals and admixtures pvt . Ltd.	Dr. Anush K Chanrappa, associate professor, IIT BHU	Dr. Vaibhav Singhal		17:00-17:45	Dr. Raju Sharma
	Madan Mohan Mohapatra	Hyukjun AHN/ Prof Jae Yeol- Modified empirical formula	APEKSHA MEDHE	JAGUAR Mr. Milind Katayayan		PART - B - ENGINEER OF FUTURE	
						Dr. Elias Sayah	
						H.H Eng. Rashad Bukhash (SOE-UAE)	
						Dr. Kichor Pankan (SOE-UAE)	





# ACECC AWARDS CEREMONY



# ACECC AWARDS CEREMONY

**Sep 22, 19:00 - 20:30 P.M**

➤ **ACECC Award Ceremony**

- Chief Guest: Shri P.S. Sreedharan Pillai, His Excellency Governor of Goa
- Guest of Honour: Shri Gajendra Singh Shekhawat, Minister of Jal Shakti, Govt. of India (Virtually)

➤ **ACECC Civil Engineering Project Award(s):**

➤ **AWARDEES:**

- Outstanding Project Award--SUHUA Highway Improvement Project – Taiwan
- Aso Ohashi Bridge Area Slope Disaster Reconstruction Project Executed by way of an Unmanned Construction Method Using I-Construction – Japan
- AI Faw Breakwater in Iraq – KOREA
- Atal Tunnel, Rohtang – INDIA
- Development of Light Rail Transit Infrastructure in Jakarta, Bogor, Depok and Bekasi (LRT Jabodebek) - INDONESIA
- Ninoy Aquino International Airport Expressway (NAIAX)- PHILIPPINES

➤ **ACECC CIVIL ENGINEERING ACHIEVEMENT AWARDS:**

➤ **AWARDEES:**

- Osama KUSAKABE – JAPAN
- Wei-Fuu Yang – TAIWAN
- Shalendra Ram- AUSTRALIA
- Ir. Teddy Boen – INDONESIA

➤ **ACECC TECHNICAL COMMITTEE ACTIVITY AWARD:**

➤ **AWARDEE:**

- ACECC TC-21 Transdisciplinary Approach (TDA) for building Societal Resilience to Disasters – JAPAN



## CLOSING CEREMONY

- Sep 23, 11:00 A.M - 12:30 P.M
  - Hand over the ACECC Flag to the CECAR10 host, KSCE





## CECAR9 PUBLICATIONS

- The documentation of the wealth of knowledge generated during the 9<sup>th</sup> Edition of Civil Engineering Conference in the Asian Region – CECAR9 has played a pivotal role in advancing the Civil Engineering.
- The Phygital Compendium of CECAR9 on Sustainable Design and Eco Technologies for Infrastructure is a testament to the collaborative efforts of the global civil engineering community, capturing the essence of shared expertise and innovative solutions discussed during the conference.
- Springer has published the select proceedings of CECAR9 as part of the prestigious book series “Lecture Notes in Civil Engineering (LNCE, Volume 441), Kindle Edition.
- In essence, the CECAR9 publication, including both the Phygital Compendium and the Springer LNCE volume, stand as a rich repository of knowledge. This collection will undoubtedly prove invaluable for the continued growth and advancement of the civil engineering discipline, providing practitioners with a wealth of insights to drive innovation and sustainable practices.

### PHYGITAL COMPENDIUM



### LNCE-441



# THANK YOU



\* Master of Ceremonies - Prof. T. R. Piplani



# SUPPORTING ORGANIZATIONS





# SEE YOU AT CECAR10 IN KOREA IN 2025

**CECAR10**  
CIVIL ENGINEERING CONFERENCE in the ASIAN REGION  
& KSCE 2025 CONVENTION

Sustainable Management and Resilient Technology (SMaRT) in Civil Engineering

October 21-24, 2025  
International Convention Center (ICC) JEJU, Jeju, South Korea

**IMPORTANT DATES**

2023 June 1	2023 August 1	2024 September 30	2025 January 6	2025 January 31
Call for Session Opens	Call for Abstract Opens	Notification of Acceptance	Registration Opens	Deadline for Full Paper Submission

[www.cecar10.org](http://www.cecar10.org)

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