

I-CONNECT

Industry Meet - 2022

CIE- Waste to Wealth: Azadi ka Amrit Mahotsav and 80 years of CSIR

Theme Nodal : CIE



Dr. N. Anandavalli Director CSIR-SERC, Chennai



Dr. Vibha Malhotra Sawhney, Scientist H, Head TMD and IPU CSIR, New Delhi



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BACKGROUND

Growing industrialization and population leads to generation of huge quantity of solid wastes. About one billion tons of solid wastes have been generated in India from industrial, agricultural, municipal and other sources. Already accumulated wastes and their increasing annual production are the major source of pollution and became a challenge due to its heterogeneous characteristics and complexity in recycling. To save energy, create employment, enhance the economy and safegaurd our environment, efficient recycling of all these Wastes into Wealth (WW) is essential. This industry meet aims to address on wastes recycling technologies in Civil Infrastructural and Engineering (CIE).

OPPORTUNITIES

Scientific innovations on solid waste management has resulted in introducing ceramic, cement, and concrete matrix composites; polymer matrix composites and metal matrix composites as an alternative materials for civil infrastructure and engineering. Many labs and pilot scale processes and technologies have been developed by CSIR institutes for recycling different wastes materials. Environment friendly, energy-efficient and cost-effective alternative materials developed from solid wastes by CSIR Labs and other institutes have great scope to cater to people's needs. Still, non availability of waste based products in mass scale and lack of commercilisation to be contended with for optimum benefits. There is a immediate need for R&D transformation with industry connect and public private partnership for effective commercialization and address the Indian Industry challenges through implementing Indian technologies in a sustainable approach.

Recycling waste materials will lead to sustaining the greater use of country's resources with a sustainable solution to Government of India mission program on Clean and Make in India. Also, realisation of all such technologies would leads to reduce emission of carbon dioxide and the impact of global warming and climate changes challenges. A technology compendium have been prepared on the CIE-WW theme of CSIR Institutes on marketable technologies. This would be shared for cross sector & pan industry waste exchange and entreprenurship development on Waste to Wealth (WW). This industry connect aim to provide a common platform to industries, entrepreneurs, start-ups and stakeholders to maximise the benefits of solid waste recycling technologies in civil infrastructure and engineering in achieving Atmanirbhar Bharat.

PROGRAM : CIE-WW Theme: I-CEN 40: DAY 1: 5 July 2022, 1400 - 1600 hrs

1400-1405	Welcome Address and Introduction - Dr. Asokan Pappu, Chief Scientist, CSIR-AMPRI, Bhopal & Coordinator CIE-W	W
	Moderator: Dr. Ashok Kumar, Outstanding Scientist / Scientist H, CSIR-CBRI, Roorkee	
1405-1410	Opening Remark :Dr. N. Anandavalli, Director-CSIR-SERC, Chennai	
1410-1420	Innagural Address - Dr. Avanish Kumar Srivastava, Director-CSIR-AMPRI, Bhopal	
1420-1435	Plenary Talk : Civil infrastructure materials from Waste Materials & Challenges Dr. Mukesh Kumar, Director Steel Research and Technology Mission, Govt. of India, Former Chief, R&D Vedanta L	.td.
1435-1450	Keynote Address: Resource Efficiency from TPS Wastes -Mr. Sanjeev K. Saxena, GM, NTPC Vindyachal	
Technical Session : High-performance civil infrastructure materials and structures from industrial inorganic wastes		
Time	Technology / Know how Presentation	TRL
1450-1455	Address by session Chair: Prof. Suddhasatwa Basu, Director CSIR-IMMT, Bhubaneswar	
1455-1510	Disaster resistant lightweight prefabricated building systems-Dr.J.Prabhakar, Chief Scientist, SERC, Chennai	8
1510-1525	Manufacturing high performance & hybrid composite wood using inorganic wastes- Dr. Asokan Pappu, Chief Scientist, CSIR-AMPRI, Bhopal	7
1525-1540	Advanced fly ash based geopolymer concrete for infrastructural applications- Dr. Manish Mudgal, Sr. Principal Scientist, CSIR-AMPRI, Bhopal	6
1540-1555	Utilization of Jarofix for road embankment construction - Dr A.K. Sinha, Sr.Principal Scientist, CRRI, New Delhi	8
1555-1600	Closing & Vote of thanks- Dr. Rajneesh K Gupta, CSIR New Delhi	

CSIR–Advanced Materials and Processes Research Institute (AMPRI) Hoshangabad Road, Habibganj Naka, Bhopal, Madhya Pradesh 462026





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CIE- Waste to Wealth- DAY 2: 7 July 2022, 1400 - 1610 hrs

PROGRAM SCHEDULE : CIE-WW Theme: I-CEN 42

1400-1405	Welcome Address – Dr. Asokan Pappu, Chief Scientist, CSIR-AMPRI, Bhopal	
	Moderator – Dr. Manish Mudgal, Sr. Principal Scientist, CSIR-AMPRI, Bhopal	
1405-1410	Introductory Address - Dr. Avanish Kumar Srivastava, Director-CSIR-AMPRI, Bhopal	
1410-1415	Opening Remark :Dr. N. Anandavalli, Director-CSIR-SERC, Chennai	
1415-1430	Plenary Talk — Opportunity for construction industry for usage of C&D and other inorganic wastes Shri Suresh C Tripathi, Sr. Consultant, NovoCrete and Former Sr. GM, Aditya Birla Group	
1430-1445	Keynote Address: Ship recycling waste — opportunities: Dr. Anand Hiremath, Head R&D, GMS, Lead coordinator recycling, Bhavnagar, Gujarat	Ship
Technical Session: Alternative building materials and structures using silica rich wastes		
Time	Technology / Know how Presentation	TRL
1445-1450	Address by Session Chair: Dr. Indranil Chattoraj, Director CSIR-NML Jamshedpur	
1450-1505	Manufacture of cold setting fly ash building brick- Dr. S.M. Mustakim, Sr. Tech Officer, IMMT, BBSSR	9
1505-1520	Utilization of phosphogypsum for road construction- Dr A.K. Sinha, Sr.Principal Scientist, CRRI, Delhi	7
1520-1535	Quick repairing material by geopolymerisation- Mr Rohit B Meshram, Sr. Scientist, NML Jamshedpur	8
1535-1550	Toilet unit using thin precast concrete segmental panels -Dr. K.N. Laksmikandhan, Sr. Scientist, SERC Chennai	8
1550-1605	Eco-friendly geopolymer concrete blocks - Dr. P.S. Ambily, Principal Scientist, SERC Chennai	7
1605-1610	Closing & Vote of Thanks- Dr. Deepti Mishra, Sr. Principal Scientist, CSIR-AMPRI, Bhopal	

CIE- Waste to Wealth- DAY 3: 11 July 2022, 1000 - 1210 hrs

PROGRAM SCHEDULE : CIE-WW Theme: I-CEN 44

1000-1005	Welcome Address - Dr. Asokan Pappu, Chief Scientist, CSIR-AMPRI, Bhopal		
	Moderator - Dr. Sarika Verma, Principal Scientist, CSIR-AMPRI, Bhopal		
1005-1010	Introductory Address - Dr. Avanish Kumar Srivastava, Director-CSIR-AMPRI, Bhopal		
1010-1015	Opening Remark :Dr. N. Anandavalli, Director-CSIR-SERC, Chennai		
1015-1030	Plenary Talk : Construction & demolition waste as a replacement for natural aggregates Shri Mohan Ramanathan, Managing Director, Advanced Construction Technologies (P) Ltd., Chennai		
1030-1045	Keynote Address: Cross sector waste recycling in civil infrastructure- Mr. Deepak Bansal, Jt. General Manager (HUDCO, New Delhi	(Proj.),	
Technical S	Technical Session: High volume use of industrial inorganic wastes for civil infrastructure		
Time	Technology / Know how Presentation	TRL	
1045-1050	Address by Session Chair: Dr. Anjan Ray, Director CSIR-CBRI, Roorkee		
1050-1105	Utilization of copper slag for road construction- Dr A.K. Sinha, Sr.Principal Scientist, CRRI, New Delhi	7	
1105-1120	Eco- friendly X-ray radiation shielding leadfree redmud door&panels- Dr. MK.Gupta, Scientist, CSIR-AMPRI	6	
1120-1135	Cost effective durable water tanks using flowable cement mortar- Dr. J. Prabhakar, Chief Scientist, SERC	7	
1135-1150	Know how for making building components from construction & demolition wastes, Dr G. Santhakumar, CBRI	7	
1150-1205	CSIR-AMPRI's marketable technologies — Dr. Kirti Soni, Principal Scientist, PPD, CSIR-AMPRI Bhopal	6-9	
1205-1210	Closing & Vote of Thanks- Mr. Devendra Singh, Principal Scientist, TMD, CSIR New Delhi		

CSIR–Advanced Materials and Processes Research Institute (AMPRI) Hoshangabad Road, Near Habibganj Naka, Bhopal, Madhya Pradesh 462026



SWACHH Bharat Abhiyan







ASH TO CASH



I-CONNECT

Industry Meet - 2022

Organizer:



Dr. Avanish K.Srivastava Director CSIR–Advanced Materials and Processes Research Institute (AMPRI) Bhopal, MP- 462026

Coordinator CIE-WW:



Dr. Asokan Pappu Chief Scientist CSIR-AMPRI, Bhopal Nodal CIE-WW Mobile: 9425600260 Email ID: <u>asokanp3@yahoo.co.in</u> pasokan@ampri.res.in

Registration: Industries, Stakeholders Entreprenures & Startups @ https://www.iconned75.com





्रे सीएसआईआर- एम्प्री CSIR-AMPRI

Organizers: CSIR–Advanced Materials and Processes Research Institute (AMPRI) Habibganj Naka, Bhopal, MP- 462026

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DAY 4 : 14 July 2022 , 1400 hrs - 1600 hrs

PROGRAM SCHEDULE : CIE-WW Theme: I-CEN 46		
1400-1405	Welcome address - Dr. Asokan Pappu, Chief Scientist, CSIR-AMPRI Bhopal	
	Moderator - Dr. J.P Shukla, Sr. Principal Scientist, CSIR-AMPRI, Bhopal	
1405-1415	Introductory Address - Dr. Avanish Kumar Srivastava, Director-CSIR-AMPRI, Bhopal	
1415-1420	Opening Remark :Dr. N. Anandavalli, Director-CSIR-SERC, Chennai	
1420-1435	Plenary Talk — Agro waste management & challenges - Shri Ashwani K. Gupta, Addl.Director Industries, Haryar	a
1435-1450	Keynote Address: Organic and inorganic waste management & opportunities- Dr. K K. Goyal, MSME, New Delhi	
Technical Session: Industrial & agro wastes recycling technologies in green building materials		
Time	Technology / Know how Presentation	TRL
1450-1455	Address by Session Chair: Dr Ranjana Aggarwal, Director, CSIR-NIScPR & CSIR-CRRI (Addl. Charge), New Delhi	
1455-1510	High volume use of Parali- paddy stubble (Agrowaste)- a raw materials for manufacturing hybrid particle boards- Dr. Asokan Pappu, Chief Scientist, CSIR-AMPRI Bhopal	7
1510-1525	Advance paver blocks from copper tailings - Dr. Akram Khan, Sr. Principal Scientist, CSIR-AMPRI Bhopal	6
1525-1540	Textile reinforced concrete prototyping technology - Dr. Smitha Gopinath, Principal Scientist, SERC	7
1540-1555	Enhanced utilization of blast furnace slag (granulated) and fly ash in blended cement- Ms Rashmi Singla, Principal Scientist, NML, Jamshedpur	7
1555-1600	Closing & Vote of Thanks- Dr. Manoj K. Gupta, Scientist, CSIR-AMPRI, Bhopal	

DAY 5 : 15 July 2022 , 1400 - 1630 hrs

	PROGRAM SCHEDULE: CIE-WW Theme: I-CEN 47 Panel Discussions and Concluding Session on CIE-WW
1400-1405	Welcome address (Moderator) : Dr. Akram Khan, Sr. Principal Scientist, CSIR-AMPRI, Bhopal
1405-1415	Summary presentation of CIE-WW theme on 19 tehnologies - Dr. Asokan Pappu, Chief Scientist, CSIR-AMPRII
1415-1420	Address by Dr. Avanish Kumar Srivastava, Director-CSIR-AMPRI, Bhopal
1420-1425	Remark by Dr. N. Anandavalli, Director-CSIR-SERC, Chennai & Chairperson CIE Cluster
1425-1440	Planery Talk : Resource Efficiency & Circular Ecconomy on Waste to Wealth Smt. Amneet P. Kumar, IAS, Director General MSME, Haryana
1440-1455	Keynote Address: Cross sector waste recycling- Shri Mukesh Gulati, ED, Foundation for MSME Cluster, New Delhi
1455-1505 1505-1605	Panel Discussions : Address on Waste to Wealth Address by Panelists & Discussions : Dr. Amit Chatterjee, Director R&D Vedanta Ltd.; Shri CP. Agrawal, Director, Jindal Adv. Materials, Gurugram; Dr. Uttam Pawaskar, Head Civil, Tata Power, Mumbai; Shri RK. Solanki, GM, DB Power, CG.; with Adani, Birla, NTPC, NALCO Shri J R. Meena, Chief Engineer, CPWD, Bhopal; Dr. Deepak Bansal, Jt. GM, HUDCO, Delhi; Dr. P. Jagan, Regional Director, CPCP Bhopal; Dr. Ruhi Haque, SDO Forest Dept. Raisen, M.P. Dr. Amit Rai, Vice President, Buss. Dev., JB Power, Gurugram; Dr. Anand Hiremath, Head R&D GMS, Bhavnagar Shri Sanjay Sharma, GM Tech., Abellon, Gujarat; Shri Baburao Kadam, GM, Devkai Foods Industry, Hingoli, MH. Shri Amit Goyal, Director, GMG Plywoods Pvt Ltd.& Crosta Panels, Haryana
	Topics of Discussions with Technologists: CIE-WW
	Industrial inorganic wastes (Redmud, fly ash, marble, stone and granite wastes, copper tailing, FGD Gypsum waste), Agro wastes & Municipal waste, FRP wastes, Ship breaking wastes and Plastic wastes
1605-1615	Concluding Session : Address by Shri V.P. Sing Walia, Joint Director, Dist MSME Centre, Yamuna Nagar, Haryana
1615-1625	Concluding Remark by Dr. Anjan Ray, Director CSIR-11P Dehradun & Director CSIR- CBRI Roorkee
1625-1630	Closing & Vote of Thanks- Dr. Ashok Kumar, Outstanding Scientist / Scientist H, CSIR-CBRI Roorkee

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Participating Organisations:

CSIR-TMD, AMPRI, CBRI, CRRI, IMMT, NML, SERC Stakeholders & Industries Entrepreneurs & Startups