





02 - 03 - 04 FEBRUARY 2023

Dr. Shyama Prasad Mukherjee Indoor Stadium, Taleigao, Goa, India

POST SHOW REPORT

2023

Organized By







ABOUT EVENT (EXHIBITION AND CONFERENCE)

The growing appetite of humanity is fueling a resource deficient economy with impacts of climate change, water scarcity and quality, loss of biodiversity, poor air quality, poverty, health issues and food insecurity. Human induced activities have intensely transformed the earth's ecosystem and resulted into major environmental changes and global emergencies. The crisis caused by climate change and the pandemic is a wake-up call that demonstrates nature's ultimate power over lives and societies.

In order to build a sustainable future, strong commitments are needed to adopt solutions that will facilitate the transition to a carbon neutral future, increasing circularity and inclusivity. Globally, countries seek to accelerate the green transition and maximize the opportunities for sustainable solutions. Similarly, Government of India have pledged to combat the impacts on environment and put the planet on a resilient path. India today is main streaming effective, pragmatic solutions to embrace sustainable development by enforcing the 5 Ps i.e. People, Planet, Prosperity, Peace and Partnership. In fact, clean growth and sustainable development is currently enmeshed into the very foundation of different government policies and programs.

In this context, the 1st International Environment & Sustainability Summit Goa 2023 was organised by the Goa State Pollution Control Board in partnership with Confederation of Indian Industry (CII), Radeecal Communications, CSIR-National Environmental Engineering Research Institute (CSIR-NEERI) and Global Reporting Initiative (GRI). The theme of the Summit is Building a Sustainable Future which aims to:

- · Present sustainability solutions and best practices.
- · Sharing of experiences, success stories and innovative ideas.
- · Build network and enhance the learning experience.

As India holds the Presidency of G20 for 2023, hosting the eighteenth G20 Summit, Confederation of Indian Industry (CII) was appointed as the B20 secretariat. IESSG Summit was an opportunity to align the deliberations with the B20 Summit.

The three-day Summit was provided an enabling platform to present sustainability solutions through Conference and Exhibition. The conference was presented captivating deliberations and intellectual insights that inspire innovation, action, and solutions towards a sustainable future. It was delivered a world class line up of thought leaders and practitioners representing the government, industry, and institutions. The exhibition aims were showcased, demonstrated innovation and technological solutions in leading a sustainable tomorrow.

Participants to the conference and exhibition was included representation from industries, ministries, Government departments, academia, financial institutions, civil society, consultants, bilateral/multilateral agencies, research scholars, educational institutions, and many more.

Green building is the practice of creating structures and using processes that are environmentally responsible and resource-efficient throughout a building's life-cycle from siting to design, construction, operation, maintenance, renovation and deconstruction. Green building is also known as a sustainable or high performance building.



Show Title: 1st IESSG & 6th Envirotech Asia 2023

Date: 02nd, 03rd, 04th February 2023

Venue: Dr. Shyama Prasad Mukherjee Indoor Stadium,

Goa University, Taleigao, Goa 403206 (India)

Expo Area: 5000 Sq.m

No. of Exhibited Companies: 65+

Visitors: 1400+

Industry Delegates: 430+



SPECIAL GUESTS OF ATTENDED THE EVENT

- Shri Bhupender Yadav Hon'ble Union Cabinet Minister of Environment, Forest and Climate Change
- · Shri Pramod Sawant Hon'ble Chief Minister of Goa
- Shri Nilesh Cabral Hon'ble Minister for PWD, Environment and Climate Change
- Shri Ashwini Kumar Choubey Hon'ble Minister of state for Environment, Forest and Climate Change
- Mr. Suresh Prabhu Former Minister of Environment and Climate Change, Commerce and Industry, Civil Aviation Government of India



INAUGURATION AND GLIMPSES OF ALL THREE DAYS

1st IESSG (International Environment & Sustainability Summit Goa) and concurrent 6th Envirotech Asia 2023 was held from 2nd, 3nd and 4th February, 2023, at Dr. Shyama Prasad Mukherjee Indoor Stadium, Goa, India. 1st IESSG and 6th Envirotech Asia 2023 was a conference that focused on various critical points about current environment, sustainability challenges, solutions and showcasing various technologies from the environment industry.

The event was inaugurated on 2nd February by **Shri Nilesh Cabral** - Hon'ble Minister for PWD, Environment and Climate Change Government of Goa. The inauguration was followed by a quick tour of the exhibition by Shri Nilesh Cabral before moving to the Conference hall for the inaugural session. The Inaugural Session featured addresses by prominent personalities such as **Shri Nilesh Cabral**, **Shri Mahesh K. Patil** - Chairman, Goa State Pollution Control Board, **Shri Anirudh Agrawal** - Vice Chairman, CII Goa State Council and Managing Director, Agrawal Renewable Energy Pvt Ltd and **Shri Arun Kumar Mishra** - IAS, Secretary Environment & Climate Change, Government of Goa.

On the 2nd day of the event, IESSG and Envirotech Asia were graced by the presence of **Shri Suresh Prabhu** - Former Minister of Environment and Climate Change, Commerce and Industry, Civil Aviation Government of India and **Shri Pramod Sawant** - Hon'ble Chief Minister of Goa who attended various sessions and interacted with the participants and Exhibitors, adding to the overall success of the events.



International Environment Sustainability

Summit Goa (IESSG) 2023

The three-day conference Started with our National Anthem and featured nine sessions covering a wide range of topics, including such as below:

- Climate Action: Pathways Towards Net Zero
- Resource Efficiency & Circularity: The Imperative for the Future
- Sustainability Reporting: Voluntary and Regulatory Reporting Practice
- Action for Preserving Biodiversity
- ESG: Financing the Sustainable Transition
- Waste water Management Technology and Innovation
- · Innovations for Clean Air
- · Sustainability Solutions @Scale
- Start-up on Green Technology

The conference was brought to an end with a valedictory session on Agenda for Sustainable Future featuring Shri Bhupender Yadav - Hon'ble Union Cabinet Minister of Environment, Forest and Climate Change Government of India as the Chief Guest.

This session saw the exchange of 2 Memorandums of Understanding (MoUs) between

- CII GreenCo Rating and Goa State Pollution Control Board
- · TERI and Goa State Pollution Control Board

That represented significant steps towards achieving sustainable development goals in the region.

Overall, the event was a great success and provided a platform for manufacturer, traders, experts, policymakers, and industry leaders to come together and discuss present environmental issues and possible solutions. The exhibitions showcased cutting-edge technologies and innovations, while the conference sessions offered valuable insights and knowledge-sharing opportunities. The event was undoubtedly having a positive impact on the environment and sustainability initiatives in the region and beyond.



ABOUT ORGANIZER AND KNOWLEDGE PARTNERS

EVENT ORGANIZED BY

Goa State Pollution Control Board (GSPCB)



The Goa State Pollution Control Board (GSPCB) is an autonomous statutory organization constituted on 1st July, 1988 under the Water (Prevention & Control of Pollution) Act, 1974. The Board is NABL accredited under ISO 17025:2017 and Certified under ISO 45001:2018, ISO 14001:2015 and ISO 9001:2015.

The GSPCB aims at achieving a pollution free environment towards a better quality of life in the state, through an effective implementation of the applicable Environmental legislation and creating public awareness with an emphasis on the process of recycling, reuse, reduction of waste with protection and restoration of natural resources of the State.

INDUSTRY PARTNER

Confederation of Indian Industry (CII)



The Confederation of Indian Industry (CII) works to create and sustain an environment conducive to the development of India, partnering Industry, Government, and civil society through working closely with Government on policy issues, interfacing with thought leaders, and enhancing efficiency, competitiveness and business opportunities for Industry.

For more than 125 years, CII has been engaged in shaping India's development journey and works proactively on transforming Indian Industry's engagement in national development. The premier business association has around 9000

members, from the private as well as public sectors, and an indirect membership of over 300,000 enterprises from around 286 national and regional sectoral industry bodies.

With 62 offices, including 10 Centres of Excellence in India, and 8 overseas offices in Australia, Egypt, Germany, Indonesia, Singapore, UAE, UK, and USA, as well as institutional partnerships with 350 counterpart organizations in 133 countries, CII serves as a reference point for Indian Industry and the international business community.

EVENT MANAGED BY

Radeecal Communications



Radeecal Communications is the leader in event organizing and managing on national and international forum. We are professionals and engaged in organizing variety industry exhibitions and summits from last 15 years. Our aim is to provide best platform to our participants to do business and expose theirself on the global level. We work closely with all the major chambers, government boards and many important associations. We work for the industry to grow the industry.

KNOWLEDGE PARTNER

CSIR-NEERI





The National Environmental Engineering Research Institute (NEERI), Nagpur was established in 1958 as Central Public Health Engineering Research Institute (CPHERI), when environmental concerns were limited to human health with a focus on water supply/sewage disposal/ communicable diseases and to some extent on industrial pollution and occupational diseases. The chemical and biological solutions to address these problems were simple, though challenging. However, as worldwide public awareness on the contamination of environment on regional to global scale started getting attention in 1970's. Smt. Indira

Gandhi, the then Prime Minister of India, rechristened the Institute as National Environmental Engineering Research Institute (NEERI) in the year 1974.

NEERI would continue to strive for providing innovative and effective solutions for environmentally sustainable development and to help Government, Industry and the Society, especially the 800 million underprivileged people of India. Current R&D focus areas include Air Pollution and Control, Climate Change, Cleaner Technology and Modelling, Environmental Biotechnology and Genomics, Environmental Health, Environmental Virology, Environmental Impact and Risk Assessment, Environmental Materials, Solid & Hazardous Waste Management, Wastewater Technology etc.

KNOWLEDGE PARTNER

GRI (Global Reporting Initiative)



GRI (Global Reporting Initiative) is the independent, international organization that helps businesses and other organizations take responsibility for their impacts, by providing them with the global common language to communicate those impacts. We provide the world's most widely used standards for sustainability reporting – the GRI Standards.

We work with businesses, investors, policymakers, civil society, labor organizations and other experts to develop the GRI Standards and promote their use by organizations around the world.

With thousands of reporters in more than 100 countries, the Standards are advancing the practice of sustainability reporting, and enabling organizations and their stakeholders to take action and make better decisions that create economic, environmental and social benefits for everyone.



(DAY 1) 2 FEBRUARY 2023, THURSDAY

09 30 hrs	REGISTRATION
10 00 - 11 30 hrs	INAUGURAL
	 Welcome Address Shri. Mahesh K. Patil, Chairman, Goa State Pollution Control Board Address Shri. Anirudh Agrawal, Vice Chairman, CII Goa State Council and Managing Director, Agrawal Renewable Energy Pvt Ltd. Shri Nilesh Cabral, Hon'ble Minister for PWD, Law & Judiciary, Legislative Affairs & Environment & Climate Change, Government of Goa Vote of Thanks Shri. Arun Kumar Mishra, IAS, Secretary Environment & Climate Change, Government of Goa.
11 30 - 11 45 hrs	TEA BREAK
11 45 - 13 00 hrs	Climate Action: Pathways Towards Net Zero
	 Chairman & Moderator Shri. Sanjay Khare, Vice President Safety & Sustainability Strategy, Skoda Auto Volkswagen India Pvt. Ltd. Panelist Shri. Bikas K Singh, VP & Head of Government Affairs, SAP India Shri. Anish Sousa, Convenor CII Goa Panel on Energy Panel & Sustainability and Founder & CEO, SUN360 Shri PAES Srinivas, General Manager- Technical & Business Development, Sud-Chemie India Pvt Ltd
13 00 - 14 30 hrs	LUNCH BREAK
14 30 - 16 00 hrs	Resource Efficiency & Circularity: The Imperative forthe Future
	 Chairman & Moderator Dr. Rachna Arora, Team Leader & Coordinator, European Union - Resource Efficiency Initiative, India Panelist Shri. Hemant Chaudhary, Founder & Manging Director, Circular Economy Alliance, Australia Ms. Rhea M Singhal, Founder & CEO, Ecoware Solutions Ms. Dharashree Panda, Director, Sustainability & SME, Flipkart Shri. Naresh Tyagi, Chief Sustainability Officer, Aditya Birla Fashion and Retail Ltd.

16 30 - 17 00 hrs	TEA BREAK
17 00 - 18 30 hrs	Sustainability Reporting: Voluntary and Regulatory Framework (GRI)
	Chairman & Moderator • Dr. Aditi Haldar, Director, GRI, South Asia
	Opening Remarks • Perspectives by Shri. Raj Mullick, Controller & Chief Business Performance and Financial Analysis, Reliance Industries Ltd
	 Panelist Shri. Santanu Roy, Former Executive Director, GAIL India Ltd. Shri. Pratik Ghosh, Assistant Vice President, Group Sustainability Cell, Aditya Birla Group Shri. Reghu Kumar, Head – Sustainability, BSI India
	 Shri. Raj Mullick, Controller & Chief Business Performance and Financial Analysis, Reliance Industries Ltd.

(DAY 2) 3 FEBRUARY 2023, FRIDAY

10 30 - 11 30 hrs	Action for Preserving Biodiversity
	Chairman & Moderator Shri. R Mukundan, Chairman, CII Environment Committee and Managing Director and CEO, Tata Chemicals Panelist
	 Shri. Suresh Babu, Director River Basins & Water Policy, WWF India Dr. Santanu Satapathy, Head Environment and Sustainability, Apraava Energy Pvt Ltd Ms. Tejashree Joshi, General Manager and Head Environment & Sustainability, Godrej & Boyce Mfg. Co. Ltd.
11 30 - 11 45 hrs	TEA BREAK
11 45 - 13 00 hrs	ESG: Financing the Sustainable Transition
	 Chairman & Moderator Shri. Dibirath Sen, Managing Director & Head of Global Banking, North India, India Lead, Sustainable Finance, HSBC India Keynote Address
	 Shri. Suresh Prabhu, Founding Chancellor of Rishi hood University, Guest Professor of London School of Economics, Former Union Minister and 6 Times Member of Parliament
	 Panelist Shri. Amarjeet Singh, Executive Director, SEBI Shri. Rohit Shimpi, Vice President- Investments, SBI Mutual Fund Shri. Bose Varghese, Senior Director ESG, Cyril Amarchand Mangaldas

13 00 - 14 30 hrs	LUNCH BREAK
14 30 - 16 00 hrs	Waste Water Technology and Innovation
	 Chairman & Moderator Dr. Sukumar Devotta, Professor & Eminence, Chemical Engineering Dept., Anna University & Former Director, CSIR-NEERI, Nagpur. Panelist Dr. Shyam Asolekar, Professor, IIT, Bombay Dr. M. P. Patil, Chief Scientist, CSIR-NEERI, Nagpur Shri. Priyesh Bhatti, Director, GGEPIL & 3R (Reduce, Reuse, Recycle) Environmental Sustainability Dr. Kishor Malviya, Director, SMS Envirocare Limited, Nagpur
16 00 - 16 15 hrs	TEA BREAK
16 15 - 18 00 hrs	Innovations for Clean Air
	 Chairman & Moderator Dr. Nitin Labhsetwar, Chief Scientist, CSIR-NEERI Panelist Dr. Rajeev Gautam, Managing Director, President & Corporate Officer, Horiba India Pvt Ltd. Dr. Pritesh Shah, CEO, M/s Prima Equipments Shri. Bhavya Srivastava, National Sales Manager, Environment & Process Monitoring Division, M/s Thermo Fisher scientific Shri. Vignesh Kaneria, Co-founder and CEO, M/s Prakruti Jal Technologies Pvt Ltd, Surat

(DAY 3) 4 FEBRUARY 2023, SATUARDAY

10 00 - 11 45 hrs	Sustainability Solutions @Scale
	Chairman & Moderator • Dr. Atul Vaidya, Director, CSIR-NEERI, Nagpur
	 Panelist Dr. Yuji Munehiro, Director, Chodai Co. Japan Shri. Rajeev Supekar, Regional Director (South Asia), Chodai Co. Ltd., Dr. Amit Bansiwal, Senior Principal Scientist, CSIR-NEERI Shri. Rene Van Berkel, UNIDO representative & Head, Regional Office in India Shri. Bobby Kurien, Principal Advisor - Environment Solutions, Re Sustainability Ltd.

11 45 - 13 15 hrs	Start up on Green Technology
	Chairman & Moderator • Shri. Tarun Jami, Founder & CEO, Green Jams
	 Panelist Shri. N Chandrasekhar, Founder, Jivoule Biofuels Shri. Mohit Singhvi, AVP-Partnerships, Chakr Foundation Dr. Pavan Kulkarni, Senior Scientific Officer, M/s Ecologique Science Technik(I) Pvt. Ltd.
13 15 - 14 30 hrs	LUNCH BREAK
14 30 - 16 00 hrs	Valedictory Session: Agenda for Sustainable Future
	Welcome Address - Shri. Mahesh K. Patil, Chairman, Goa State Pollution Control Board
	 Address Shri. Nitin Prasad, Chairman, CII-Cleaner Air Better Life Initiative, Chairman, Shell India Dr. Puneet Kumar Goel, IAS, Chief Secretary, Government of Goa
	Exchange of MoUs in presence of Hon'ble Dignitaries • CII GreenCo Rating with GSPCB • TERI with GSPCB
	 Address Shri. Nilesh Cabral, Hon'ble Minister for Environment & Climate Change, PWD and Judiciary, Government of Goa Dr. Pramod Sawant, Hon'ble Chief Minister, Government of Goa.
	Release of Summit Souvenir
	 Address by the Chief Guest Shri. Bhupender Yadav, Hon'ble Minister for Environment, Forest and Climate Change and Labour & Employment, Government of India
	Closing Remarks Vote of Thanks • Ms. Seema Arora, Deputy Director General, Confederation of Indian Industry
16 00 hrs	TEA BREAK AND EVENT CLOSES

CONFERENCE SPEAKERS



Mr. Sanjay Khare
Vice President- Safety &
Sustainability Strategy Skoda
Auto Volkswagen India Pvt. Ltd



Mr. Bikas K Singh

VP & Head of Government Affairs, SAP India



Mr. Anish Sousa

Founder & CEO, Anish Sousa Enterprises



Mr. P.A.E.S. Srinivas

General Manager-Technical & Business development, Sud Chemie India Pvt Ltd

CONFERENCE SPEAKERS



Dr. Rachna AroraTeam Leader, European Union-Resource Efficiency Initiative (EU – REI), India



Mr. Hemant Chaudhary
Founder & Managing Director,
Circular Economy Alliance,
Australia



Ms. Rhea Mazumdar Singhal Founder & CEO, Ecoware



Ms. Dharashree Panda

Director of Sustainability,

Flipkart Group



Dr. Naresh TyagiChief Sustainability Officer at Aditya Birla Fashion & Retail Limited.



Dr. Aditi HaldarDirector, GRI South Asia



Mr. Raj Mullick
Controller & Chief Business
Performance and Financial
Analysis Reliance Industries Ltd.



Mr. Santanu Roy
Formal Executive Director,
GAIL



Mr. Pratik Ghosh Assistant Vice President, Group Sustainability Cell, Aditya Birla Group



Mr. Reghu Kumar Head - Sustainability, BSI India



Mr. R. Mukundan Managing Director & CEO, Tata Chemicals Limited



Mr. Suresh Babu
Action for preserving
Biodiversity



Dr. Santanu SatapathyHead Environment and
Sustainability, Apraava Energy

Pvt Ltd



Mr. Amarjeet Singh
Executive Director, SEBI



Mr. Bose Varghese Senior Director-ESG, Cyril Amarchand Mangaldas



Ms. Tejashree Joshi General Manager & Head, Environmental Sustainability

CONFERENCE SPEAKERS



Mr. Dibirath Sen

Managing Director & Head of
Global Banking, North India
India Lead for Sustainable Finance,
HSBC India



Mr. Rohit Shimpi, CFA
Fund Manager, SBI Funds
Management Limited



Dr. Nitin Labhasetwar
Chief Scientist & Head, Energy
& Resource Managament
Division



Dr. Rajeev GautamCorporate Officer, HORIBA Ltd,
Japan
President, HORIBA India Pvt. Ltd.



Dr. Pritesh M. ShahChairman, PRIMA Group



Mr. Bhavya Srivastava

National Sales Manager-Environment
& Procress Monitoring, Thermo Fisher
Scientific India Pvt. Ltd



Dr. Atul N. VaidyaDirector, CSIR-NEERI,
Nagpur



Dr. Yuji Munehiro
Executive Officer and Head
of Global Business
Promotion, Chodai Co. Ltd.



Mr. Rajeev Supekar Director, Chodai Co. Ltd.



Dr. Amit Bansiwal
Senior Principal
Scientist, CSIR-National



Dr. René VAN BERKEL

Heads of the United Nations
Industrial Development
Organization (UNIDO)



Dr. Bobby KurienRe Sustainability Ltd.



Mr. Tarun Jami Founder, Green Jams



Mr. N Chandrasekhar
Founder, Jivoule Biofuels



Mr. Mohit Singhvi AVP-Partnerships, Chakr Innovation



Dr. Pavan Kulkarni Ecologique Science Technik Pvt Ltd



Hon'ble Union Minister for Environment, Forests & Climate Change



Chief Minister, Government of Goa



DR. PRAMOD SAWANT CHIEF MINISTER, GOA



Formuned

Humans have been using education as a tool for social change since time immemorial. In the present scenario, owing to growing environmental challenges, we need to change our ideas and attitudes towards planet earth which can be made possible only through education. Climate change is one of today's most serious global challenges to sustainable development and requires immediate and urgent actions to address its damaging impacts. It is also interesting to witness how humans have changed their approach from Environment Education (EE) to Sustainable Development (SD) and moving towards more focused approach i.e. Climate Change Education (CCE).

Therefore, the 1st International Environment & Sustainability Summit Goa (IESSG) organized by the Goa State Pollution Control Board in partnership with Confederation of Indian Industry (CII). CSIR - National Environmental Engineering Research Institute (NEERI) and Global Reporting Initiative (GRI) aims to bring forward the action agenda for sustainability initiatives with main focus on showcasing current technological interventions to transform luminam minds.

The conference deliberations will highlight the key role of SD, as an important element of progress as rightly; the conference revolves round the theme "Sustainable Future".

Similarly, Government of Goa has pledged to combat the impacts on environment and put the planet on a resilient path. In fact, clean growth and sustainable development is currently emmeshed into the very foundation of different government policies and programs. Government of Goa extends best wishes and success for this summit.



MINISTER'S BLOCK, SECRETARIAT COMPLEX, PORVORIM, GOA, 403 521, INDIA PH: 0832-2419841/42 Fas: 0852-2419840/46 EMAIL: em.goa@inic.in

Hon'ble Minster for PWD, Environment & Climate Change



Minister for PWD, Law & Judiciary, Environment & Climate Change and Legislative Affairs Government of Goa

MESSAGE

The Involvement of citizens is critical as we move towards a sustainable society and a circular economy. India is one of the countries in the world that has recognised this and has made progress at all levels of formal education. Quality Environmental Education is essential. In recent times, growing appetite of humanity is fuelling a resource deficient economy with impacts of climate change, water scarcity and quality, loss of biodiversity, poor air quality, poverty, health issues and food insecurity. Human induced activities have intensely transformed the earth's ecosystem and resulted into major environmental changes and global emergencies. The 1st International Environment & Sustainability Summit Goa 2023 organised by the Goa State Pollution Control Board (GSPCB) in partnership with Confederation of Indian Industry (CII), CSIR, National Environmental Engineering Research Institute (NEERI) and Global Reporting Initiative (GRI) has a theme — "Building a Sustainable Future" to align the deliberations with the 6-208-20 Summit with present sustainability solutions and best practices and sharing of experiences.

We, in the State of Goa are committed to work and adopt initiatives towards achieving / safeguarding sustainable environmental through peoples participatory approach in planning need-based developmental activities.

I extend my best wishes and success for this summit.

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NILESH CABRÀL
Minister for PWD, Law & Judiciary, Legislative Affairs
& Environment and Climate Change

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Chief Secretary, Government of Goa

Dr. PUNEET KUMAR GOEL, IAS





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FOREWORD

The growing appetite of humanity is fuelling a resource deficient economy with impacts of climate change, water scarcity and quality, loss of biodiversity, poor air quality, poverty, health issues and food insecurity. Human induced activities have intensely transformed the earth's ecosystem and resulted into major environmental changes and global emergencies. In order to build a sustainable future, strong commitments are needed to adopt solutions that will facilitate the transition to a carbon neutral future, increasing circularity and inclusivity.

In line with the objectives of the Sustainable Development Goals (SDGs'), State of Goa has pledged to combat the impacts on environment and put the planet on a resilient path by enforcing the 5 ps' namely, People, Planet, Prosperity, Peace, and Partnership. In fact, clean growth and sustainable development is currently enmeshed into the very foundation of government initiatives, policies.

The 1st International Environment & Sustainability Summit Goa 2023 (IESSG) organised by the Goa State Pollution Control Board (GSPCB) in partnership with Confederation of Indian Industry (CII) as industry partner, CSIR-National Environmental Engineering Research Institute (NEERI), as knowledge partner and Global Reporting Initiative (GRI), as a network partner has a theme of 'Building a Sustainable Future' to align the deliberations with the B20 Summit with present sustainability solutions and best technological interventions as well as sharing of experiences towards achieving a common goal of sustainable development.

I wish great success for this international summit scheduled in Goa

(DR. PUNEET KUMAR GOEL)



Chairman of Goa State Pollution Control Board

GOA STATE POLLUTION CONTROL BOARD गोय राज्य प्रदूषण नियंत्रण मंडळ

(An ISO 9001-2015, ISO 14001:2015, ISO 45001:2018 Certified Board)

.: 0832-2407700 2407701, 2407702



Shri. Mahesh Patil

FOREWORD

Goa State Pollution Control Board is striving to achieve harmony between development and environment protection. Board emphasizes are more on prevention and beginning of pipe solution approach. This approach has become more relevant today with an un-tethered population growth, climate change, plastic menace, and natural calamities and the call for help is more louder. It is our nsibility to tackle the global threat of human existence.

The Goa State Pollution Control Board understands the importance of sustain and proactive approach to get all stake holders together. In this regard and on behalf of the Gos State Pollution Control Board, It gives me immense pleasure to host the first international Environment & Sustainability Summit, Gos with Envirotech Asia for 2023 with our host partner Radeecal Communications, industry partner CII, knowledge partner, NEERI and network partner

The Conference cum exhibition aims at improving the stakeholders understanding of the dire need of sustainable development along with services and technology available towards achieving the same with a view to ensure environmentally sound sustainable decisions.

GRI on the 02^{hd} to 4^{m} February 2023, for which the preparations had begun in early 2022.

am sure that this International Environment & Sustainability Summit, Goa with Envirotech Asia for 2023 and the souvenir book would be of help to all who would like to contribute towards environmental sustainability. I would also like to thank all the experts and all the participants of the conference and the exhibition who have readily participated and contributed to the success of the same. Further, I would like to compliment the entire team of GSPCB, CII, Radeecal, NEERI and eminent speakers and related resource personnel responsible for contributing towards the success of this endeavor

I wish everyone the best of Luck

Near Pierne Industrial Estate, Opp. Saligao Seminary, Saligao, Bardez, Gos - 403 511

Secretary, Environment, Government of Goa

Shri. Arun Kumar Mishra, IAS Secretary (Health)



GOVERNMENT OF GOA, SECRETARIAT, PORVORIM, GOA- 403 521 TEL No. 0832- 2419413 Email :seeyev.goa@gov.in

FOREWORD

We belong to a country whose philosophy since ancient times, emphasised on the importance of respecting and protecting the natural world. Such an approach becomes even more significant in recent times, where we are facing a global emergency in the form of increasing industrialisation, urbanisation and consumerism which is causing over exploitation of natural resources and generation of waste.

In this scenario, there is a need to move from the linear economy model to the in this scenario, there is a need to move from the internal economy model to the circular economy model, which promotes the environmental resilience and economic performance. For this transition, the Sustainable Development Goals (SDG's) are introduced, so that policies could be framed in alignment with them, at the state and national levels. Our Goa State is a leading example for the implementation of SDG's in the country, with remarkable success in the fields of Clean water and sanitation, Clean Energy, Economic Growth, Sustainable Cities

The 1st International Environment & Sustainability Summit Goa 2023 (IESSG) The 1st international Environment & Sustainability Summit Goa 2023 (IESSG) organised by the Goa State Pollution Control Board (GSPCB) in partnership with Confederation of Indian Industry (CII), CSIR-National Environmental Engineering Research Institute (NEERI), and Global Reporting Initiative (GRI), has a theme of 'Building a Sustainable Future'. This is a profound step to take collective measures for the "intent and impact" analysis of our policies, better implementation of ideas and improvising upon the technological interventions, for better realisations of the deliberations of B20 Summit.

I wish the very best to the Summit

du (Arun Kumar Mishra)

Director, CSIR-NEERI



सी.एस.आई.आर. - राष्ट्रीय पर्यावरण अभियांत्रिकी अनुसंधान संस्थान CSIR-National Environmental Engineering Research Institute विज्ञानिक तथा औद्योगिक अनुसंधान परिवद् / Council of Scientific & Industrial Research



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Message

Increased population and allied industrialization coupled with climate change impacts have resulted in the substantial deterioration in environmental quality and contamination of precious environmental resources leading to severe threats to food security and blockiersity. Environmental soundness being an important component of sustainability it is high time to rethink on our existing approaches towards the whole issues and delineate better strategies to combat these threats. The first International Environment and Sustainability Surmit, Gas, 2023 being organized by Gos State Pollution Control Board in association with Conflederation of Indian Industries (CI), CSIR-National Environmental Engineering Research Institute (CSIR-NEERI), Nappur during February 02-04, 2023 can be viewed as a genuine attempt to address these issues in a scientific manner. Organizing such event at this juncture would reinforce our ideas about sustainable developments and would help mitigation of environmental hazards.

The event is being participated by many experts, academia, and professionals from industries and consulting organizations working in the area of sustainability who shall be deliberating their views and ideas on basic issues related to environmental resources, climate change processes, wester management and air quality. These deliberations and subsequent interactions would lead to the better avenues towards sustainability, carbon neutrality and pollution mitigation in technoconomically accommodative manner. I am sure that this event shall provide a very good platform for constructive exchanges of ideas and practices amongst researchers, consultants, academia, and industrial professionals.

congratulate organizers for such a wonderful attempt and extend my best wishes for the success of this event.

DW. (Atul N. Vaidya) Director, CSIR-NEERI

नेहरू मार्ग, नागपुर 440 020 भारत-Nehru Marg, Nagpur 440 020 INDIA Ph(O): 91-712-2249999 Fax : 2249900 Email : director@neori.res.in URL : www.neori.res.in নৱাৰ বিকাশ কী আঁম / Towards Sustainable Development

Director General, CII



Chandrajit Banerjee, Director General, Confederation of Indian Industry (CII)

The last few decades have made it clearly evident that economic development can no longer be viewed in isolation from environmental protection and social progress. There are nur challenges that threaten the sustainable growth as there is tremendous pressure on the planet's

The anthropogenic activities have intensely metamorphosed the earth's ecosystem and resulted in challenges like environmental pollution, climate change, land degradation, paucity of potable water, increase of diseases, resource scarcity, loss of ecological habitats and many more. Challenges of such magnitude can be best resolved through collective action by all stakeholders through a holistic approach towards sustainable solutions. The actions that will mitigate such risks, offer an opportunity to find solutions around policy improvements, breakthrough technologies, building adaptive

Businesses being the engine of growth and employment, play an important role in mitigating climate change and contributing to delivering the Sustainable Development Goals. We have exhibited great leadership in staying aligned with the commitments made in the Paris agreement and has taken great strides in green energy practices. We are investing in disruptive practices and green technologies to optimise water consumption, improve air quality, ensure energy security, biodiversity and reduce carbon footprint.

While every citizen is responsible for safeguarding the environment, Government of India have pledged to combat the impacts on environment and put the planet on a sustainable path. As India holds the Presidency of G20 this year, there is a great opportunity for the country to come together and promote and prioritise solutions for sustainable growth. It is time to mainstream effective and pragmatic solutions to embrace sustainability in an integrated and coordinated manner at the global, national, regional, and local levels. It is a shared responsibility in the wake of limited resources, where greater involvement of stakeholders in planning process has become extremely crucial.

In the occasion of the 1st International Environment and Sustainability Summit Goa, the Souvenir is launched to highlight the sustainability solutions and best practices through sharing of experiences and innovative ideas. It also showcases technological interventions to promote climate action, pollution control measures with respect to air, land and water and some of the best practices with regard to alternative technologies available.



Director, GRI South Asia



Dr. Aditi Haldar

Director

GRI South Asia

E-mail: haldar@globalreporting.org

Short Overview:

Dr. Haldar is an expert on sustainable development with over twenty four years of experience. Her goal is to strengthen the integration of sustainable development and transparency into policies, strategies, management, performances and communication through measurable enablers and results. Currently, she is the Director - GRI Regional Hub South Asia and her primary role is to advocate, research, communicate, dialogue with multi-stakeholder constituencies in making sustainability and transparency a standard practice amongst the South Asian region and the global community.

Her focus is creating trustworthy conditions in the society through credible information exchange between businesses, governments, financial institutions, civil societies, labour, academia, media, that will enable constructive dialogue and informed decision making at the organisational, national and global levels.

Member Secretary of Goa State Pollution Control Board

GOA STATE POLLUTION CONTROL BOARD

गोंय राज्य प्रदूषण नियंत्रण मंडळ (An ISO 9001-2015, ISO 14001:2015. ISO 45001:2018 Certified Board)

Phone Nos : 0832- 2407700, 2407701, 2407702 Tel/Fax No: 0832- 2407700



Email Ids:
Chairman, GSPCB, chairman gapob goodanic in
Member Secretary, GSPCB, ms-capob goodanic in

FOREWARD

It gives me an immense pleasure to announce the 1st International
Environment and Sustainability Summit Goa 2023. The summit aims to
bring together large multinationals and small to medium sized enterprise



(SMEs) and Stake Holders in Environment Protection sector from around the globe to Goa.

Environment sustainability is about acting in a way that ensures future generations have natural resources available to live an equal, if not better, way of life as current generations. It involves conservation of land, freshwater, oceans, forests and air.

The summit will definitely be a great platform for acquiring new customers and open up new marketing potentials. The three day summit will provide an enabling platform to present suitability solution through conference and exhibition. The conference will present captivating deliberation and intellectual insight that inspire innovation, action, and solution towards sustainable future.

I am confident that this summit will be a beginning to many more



(Dr. Shamila Monteiro) Member Secretary Goa State Pollution Control Board

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- + E P Biocomposites Limited (E P Kamat Group)
- Envirocare Labs Pvt Ltd
- + Global E Waste Management System (Cam Group of Companies)

- Geist Research Private Limited
- + Goa State Pollution Control Board (GSPCB)
- + Green Gene Enviro Protection And Infrastructure Private Limited
- + Horiba India
- + Jk Cement Limited
- Kilburn Engineering
- + Knowledge Lens
- Mars Bioanalytical Pvt. Ltd.
- + Netel India Ltd.
- Nevco Engineers Pvt Ltd
- Nexteng Enviro Pvt. Ltd.
- + Non Woven Federation Of India
- Prima Equipment

- + Ramky (Re Sustainability Limited)
- + Saksham Scientific Instruments Pvt. Ltd.
- + South West Port Limited (JSW Group)
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'म्हादई'चा निर्णय शास्त्रीय अभ्यासानंतरच

केंद्रीय वन, पर्यावरणमंत्र्यांची ग्वाही

लोकमत न्यूज नेटवर्क पणजी : म्हादई वळवण्याच्या मुद्यावर निर्णय घेण्यापूर्वी तज्ज्ञांची मते लक्षात घेतली आणि शास्त्रीय कसोटीवर अभ्यास केल्यानंतरच निर्णय होईल, असे केंद्रीय वन व पर्यावरणमंत्री भूपेंद्र यादव यांनी सांगितले. गोवा भेटीवर असलेल्या केंद्रीय मंत्र्यांना म्हादई विषयावर प्रश्न विचारल्यानंतर त्यांनी हे उत्तर दिलें.

मंत्री भूपेंद्र यादव म्हणाले, की जेव्हा महादईबाबतचा मुद्दा पर्यावरण, वन आणि हवामान बदल मंत्रालयासमोर येईल तेव्हा आम्ही वक्सुस्थितीचा अभ्यास करू, तज्ज्ञांचे म्हणणे ऐकून त्यानुसार निर्णय घेऊ, असेही ते म्हणाले. अभ्यासासाठी वेळ हवा : भूपेंद्र यादव



करण्यासाठी मी वैज्ञानिक नाही आणि म्हादई वळवण्याच्या

समस्येचा अभ्यास करण्यासाठी मला वेक हवा आहे. या मुणावा सविस्तर अभ्यास करून प्रश्नांची उत्तरे देऊ, गुहमंत्री अमित शहा है दोन्ही राज्यातील मुख्यमंत्र्यांशी आवश्यक चर्चा करतील, असे म्हणात भूपेंद्र यादव यांनी हा विषय टाळण्याचा प्रयत्न केला.













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