

On behalf of:



of the Federal Republic of Germany



Webinar

“Air Pollution Control Technologies for Brick Manufacturing Industries”

Virtual: MS Teams | Online Link: [Click here to join the meeting](#)

Date: 10 August 2023; Time: 15:00 hrs – 16:30 hrs IST

Background

The National Clean Air Programme (NCAP) of the Ministry of Environment, Forest and Climate Change (MoEFCC), Government of India (GoI) was launched in January 2019. NCAP aims at achieving reduction of Particulate Matter (PM10 and PM2.5) concentration by 40% by 2026. At present, MoEFCC has identified 131 non-attainment and million plus cities for priority action under NCAP. The Central Pollution Control Board (CPCB), the State Pollution Control Boards (SPCBs), the Urban Local Bodies (ULBs), several State Government departments related to the identified cities, and sectoral ministries of the Government of are all actively involved in implementing NCAP.

For effective air quality management, emissions from brick kilns need to be mitigated as they are one of the important sources of air pollution. As per MoEFCC notification dated 22nd Feb 2022,

- All new brick kilns shall be allowed only with zig-zag technology or vertical shaft or use of Piped Natural Gas (PNG) as fuel in brick making and shall comply to the standards as stipulated in the notification.
- The existing brick kilns which are not following zig-zag technology or vertical shaft or use Piped Natural Gas as fuel in brick making shall be converted to zig-zag technology or vertical shaft or use Piped Natural Gas as fuel in brick making within a period of (a) one year in case of kilns located within ten kilometer radius of non-attainment cities as defined by Central Pollution Control Board (b) two years for other areas.

Additionally, NCAP guidelines for ranking of cities also includes positive markings for indicating the percentage brick kilns shifted to zigzag including within 10 km from sides of the ULB limits, thus, indicating the importance of mitigating emissions from this sector.

GIZ, under the Indo German Cooperation, is providing Technical Cooperation to MoEFCC and CPCB for the implementation of NCAP. Under the project on “Reduction of Air Pollution in Selected Indian Cities”, a study was taken up on brick kilns and a report on “[Guidance Document on Environmental Technologies for Brick Kilns in India](#)” was prepared by GIZ’s consultants – Enzen Global Solutions Pvt Ltd.

To support effective implementation of air pollution control measures in the brick industry, GIZ is conducting a webinar on “**Air Pollution Control Technologies for Brick Manufacturing Industries**” on 10 August 2023, 1500 hrs to 1630 hrs IST.

During the webinar, the following topics will be discussed by experts:

- **Techniques and Technologies:** Various technologies that will help in compliance with MoEFCC notification and the implementation method ologies will be discussed.
- **Best Case Examples** in India and South Asia: Success stories from India and the surrounding South Asian nations will be discussed.

- **Economic viability:** How implementing better brick-making technology will increase the brick kiln owner's revenue, as well as the payback time, while also helping to improve the air quality, will be discussed.

About the Expert Speakers



Sanjiv Vaijanapurkar
Urban and Regional
Developmental Advisor, GIZ

Sanjiv is a postgraduate (M.E.) in Environmental Engineering from M.S. University of Baroda, Gujarat. Mr. Vaijanapurkar has a wealth of knowledge from his 24 years of service, including as a regional officer with the Gujarat Pollution Control Board. He contributed to the creation and implementation of the Action Plan for Control of Air Pollution in Ahmedabad, which was examined by the Honorable Supreme Court-authorized Committee EPCA, the Action Plan for Critically Polluted Area of Ankleshwar, and the Action Plan for Control of Air Pollution in Non-Attainment City Surat. He has extensive expertise monitoring and enforcing environmental standards in the brick kiln industry over the course of his lengthy career as a regulator.

Over 25 years of experience in energy and environmental areas. Strong technical and research experience in energy efficiency, environment, and clean energy. Proven success in development of innovative business models to promote energy efficiency. She possesses policy advisory experience in addressing household energy, indoor air pollution and health. Served as a member of research teams and worked on projects sponsored by The World Bank, World Health Organization, Inter Governmental Panel on Climate Change (IPCC), United Nations Framework Convention on Climate Change (UNFCCC), United Nations Development Program (UNDP), United Nations Environment Program (UNEP), US Environmental Protection Agency (USEPA). Published more than 20 research papers in peer reviewed journals. She has a PhD in Energy and Environment from the Indian Institute of Technology, Delhi and held positions with WHO and TERI in her past job experiences.



Uma Rajaratnam
Head Clean Energy and
Environment Practice,
Enzen



Bidya Banmali Pradhan
Senior Atmospheric
Environment Specialist,
ICIMOD

Bidya has over 20 years of experience in air quality and environment management. She has worked extensively in regional environmental issues in South Asia and the Hindu Kush Himalaya, focusing on a range of possible mitigation solutions. With her expertise, experience, and wide professional network – national, regional, and global, Bidya is regarded as one of the pioneers of air pollution research and mitigation efforts in Nepal.

In her capacity as the Senior Atmospheric Environment at the International Centre for Integrated Mountain Development (ICIMOD), based in Kathmandu, Nepal, she has successfully led projects that have helped transform the brick industries of Nepal and Pakistan into cleaner, more energy-efficient, and socially responsible enterprises that continue to remain viable, profitable businesses, thereby ensuring their sustainability.

Target Group/Invitees

- Brick manufactures
- Bick Manufacturers Association
- Central and State Pollution Control Boards
- Local authorities – non-attainment cities
- National Knowledge Network members
- National and International agencies supporting NCAP

Agenda

Time	Particular
10 August 2023	
15:00 to 15:05 Hrs	Welcome: Parth Sarathi Mahapatra, GIZ Opening Remarks: Raghu Babu Nukala, Programme Director, GIZ
15:05 to 15:20 Hrs	Presentation on “Environmental Compliance Requirement in Brick Kilns”: Sanjiv Vaijanapurkar, GIZ Q&A
15:20 to 15:40 Hrs	Presentation on “Cleaner technologies for brick making in India”, Uma Rajaratnam, Head Clean Energy and Environment Practice, Enzen Q&A
15:40 to 16:00 Hrs	Presentation on “From Smoke to Sustainability: Strategies for Mitigating Air Pollution in the Brick Sector”, Bidya Banmali Pradhan, Senior Atmospheric Environment Specialist, ICIMOD Q&A
16:00 to 16:25 Hrs	Moderated Discussions: Facilitator Mr. Sanjiv Vaijanapurkar Q1: Which suggested measures can be implemented by the brick kiln industry? Q2: Which brick kiln industries would volunteer to consider implementation? Q3: How are CPCB and SPCBs planning to ensure implementation of air pollution control in brick kiln industry?
16:25 to 16:30 Hrs	Closing: Raghu Babu Nukala, Programme Director, GIZ

For any further information, please get in touch with:

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