

## Advancing Sustainable Construction: Introducing Good Bricks Technology



MoU Signing (TARA and InnoCSR Co. Ltd.)

In association with InnoCSR, TARA introduced the “Nano Joule Brick” (NJB), similar to the “Good Bricks of Nepal.” This initiative highlighted the minimal social impact of the brick sector concerning development assistance and emphasised the importance of leveraging institutional arrangements and financial mechanisms.

In a significant development for sustainable construction, a Memorandum of Understanding (MoU) was signed between TARA and InnoCSR Co. Ltd. to promote and implement Good Bricks Technology. Sam Yoonsuk Lee, CEO of InnoCSR Co. Ltd., introduced this innovative technology, which leverages a proprietary soil stabilizer to produce bricks with a composition of 90% soil, 9.8% cement, and 0.2% stabilizer. These bricks achieve a strength of over 8 MPa and can be manufactured in just seven days, compared to the thirty days required for traditional bricks. Furthermore, the production process requires only one-tenth of the land traditionally needed, making it ideal for rugged and hilly terrains.

Before the event, Lee expressed his enthusiasm about the partnership: “We are happy about our first partnership in India with TARA. InnoCSR has been working in other parts of South Asia, and now we are in the core of the region. We believe that this partnership will prosper and will continue to be a win-win situation for the different stakeholders”.

During a virtual address, S. Chandrasekar, Member Secretary of the Bihar State Pollution Control Board (BSPCB), highlighted the environmental benefits of this technology.

Prof. Piyush Chaunsali from the Indian Institute of Technology Madras also contributed to the event with a virtual presentation on Waste-based Brick Technology, underscoring the importance of sustainable materials in construction. This collaboration between TARA and InnoCSR Co. Ltd. aims to facilitate the widespread adoption of Good Bricks Technology, contributing to environmentally friendly construction practices and addressing the housing needs of flood-affected regions worldwide through projects supported by UNIDO and the World Bank Group. During the discussion, it was

mentioned that InnoCSR has been operating in Nepal for four years and that Good Bricks could also be used as sub-pavement for roads.

Challenges with policy implementation when working with government agencies were highlighted, noting that proper enforcement of existing policies could render many kilns non-functional due to regulatory violations. Lastly, seeking subsidies from the Ministry was deemed an ineffective approach.