GUIDING SELF-BUILT HOUSING TOWARDS SUSTAINABILITY AND THERMAL COMFORT

Dates: March 29-April 1, 2022
Last date for receiving applications: March 22, 2022
Venue: Anil Agarwal Environment Training Institute, Nimli (near Alwar), Rajasthan

COURSE FEES: Rs 20,000 (sponsorships and discounts available subject to satisfactory fulfilment of application form) *

India’s metropolises and larger cities have experienced a rapidly expanding urban footprint and intensive infrastructure development due to migration and population growth. This has created a demand for fast-paced construction technologies that are often characterised by speedy construction and repetitive units. However, these technologies do not perform well on environmental parameters. At the other end of the spectrum, reverse migration due to the ongoing pandemic has brought the spotlight on to smaller towns. The unprecedented scale of this migration has triggered a need for affordable housing.

India’s housing sector is dominated by self-construction: around 70 per cent of houses sanctioned under PMAY are being built under the beneficiary led construction scheme – but what it needs is guidance towards mainstreaming of climate-appropriate native material choices. Government institutions such as the Central Public Works Department have started promoting indigenous technologies and materials for a self-reliant India. Native materials have multiple advantages over their fast paced, often industry-manufactured, counterparts. The raw materials required are often locally available and respond well to local climatic conditions; they are also better suited to tackle thermal comfort issues of the occupants.

The other big advantage is that these technologies utilise and promote local skills. The self-built housing segment does not only provide an opportunity to fulfil the shelter needs of the displaced population but also to improve quality of life, develop skill and create jobs for ‘green recovery’ and regional development amidst the ongoing pandemic.

Centre for Science and Environment (CSE) invites applications for a training course on the subject of self-constructed housing and how it can be guided to ensure thermal comfort for its occupants and address the issue of sustainable development for the sector.

COURSE HIGHLIGHTS
- Green recovery in the self-built housing sector post COVID-19
- Government initiatives and an overview of self-built housing
- India Cooling Action Plan – thermal comfort for all
- Human thermal comfort
- Climate appropriate building materials/techniques
- Building envelope and thermal properties of materials to achieve occupant comfort
- Eco Niwas Samhita – (ECBC-Residential)

WHO CAN APPLY?
Anyone involved with Industrial Training Institutes and other skill building institutions, housing boards and corporations; architects; planners; engineers; and academia.

*Course fee includes tuition fee, external expert lecture sessions, training materials, boarding and lodging, and transport from New Delhi to AAETI and back.

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