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NAME:

Prashak Techno Enterprises Pvt. Ltd

LOCATION: Pune, Maharashtra



THE SOLUTION

Habitech-NivaraTantra® Technology comprises four innovations:

- a) Compacted-Intermeshing® blocks made from local soil/ash. Its production is entirely green process using simple-to-use equipment, unlike conventional bricks. Blocks have novel structural voids for intermittent horizontal and vertical reinforcement enabling appropriate structural strength, disaster-resilience and obviates use of beams, columns. Voids also enable natural air curtain against temperature, noise-pollution and water penetration.
- b) Peggable-Contoured® flat roofing structure comprising Joist and contoured pans leading to roof with higher load-bearing capacity and lesser cement.
- c) Anaerobic Inclined-multi-baffles® system enables better fecal matter digestion.
- d) Discharged effluent is treated in uniquely constructed-wetland comprising horizontal and sub-surface flow units with scientific hydraulic profile enabling treated water safely discharge-able for irrigation and non-drinking usage.

HOW IT ADDRESSES THE PROBLEM

It enables creation of state-of-the-art, disaster resilient, environment-friendly, sustainable, green, cost-effective building structures (15-20% lower cost) of ground plus two levels using local materials and resources (unskilled manpower including women) with significantly lower use of Cement and Steel, resulting in low carbon footprint, gender equality and effective financial inclusion model.

WHO IS THE TARGET GROUP

Public/Community buildings like Schools/Colleges, Hospitals, Gramalayas, as well as housing clusters for rural/peri-urban masses, particularly EWS and LIG communities.

WHAT HAS BEEN THE IMPACT SO FAR

Rashtrapati Bhawan adopted Habitech-NivaraTantra® for showcasing value by construction of Technology-Innovations-Demonstration-Center comprising building with 12 liveable units at President's Estate, Dehradun. SMARTGRAM® conceptualized by Prashak was adopted by Rashtrapati Bhawan under which then Honorable President of India Shri Pranab Mukherjee adopted 100 villages in Gurugram & Nuh districts of Haryana where till date Gramalaya in Smartgram Harchandpur under NBCC CSR-funding has been successfully completed and Secondary School in Smartgram Daulah under ONGC CSR-funding is under completion. Proposal for construction of college in Smartgram Sarmathala has been initiated by District Administration.