

GOVERNMENT OF INDIA
MINISTRY OF HOUSING AND URBAN AFFAIRS
RAJYA SABHA
UNSTARRED QUESTION NO. 1185
ANSWERED ON 10/03/2025
SUSTAINABLE HOUSING - INNOVATION

1185. DR. SIKANDER KUMAR:

Will the Minister of HOUSING AND URBAN AFFAIRS be pleased to state:

- (a) whether Government has launched any mission with the aim to sustainable technological solutions for faster and cost effective construction of houses suitable to geo-climatic and hazard conditions in hilly States;
- (b) if so, the details thereof;
- (c) the details of fund sanctioned for conducting Third Party Quality Monitoring (TPQM) for projects under Capacity Building Activities of Pradhan Mantri Awas Yojna-Urban (PMAY-U) during last year in Himachal Pradesh; and
- (d) whether Government has taken any steps to launch light house project to transform eco-system of housing construction in Himachal Pradesh?

ANSWER

**THE MINISTER OF STATE IN THE MINISTRY OF HOUSING AND URBAN AFFAIRS
(SHRI TOKHAN SAHU)**

- (a) & (b): 'Land' and 'Colonisation' are State subjects. Therefore, schemes related to housing for their citizens are implemented by States/Union Territories (UTs). However, Ministry of Housing and Urban Affairs (MoHUA) supplements the efforts of States/UTs by providing Central Assistance under Pradhan Mantri Awas Yojana – Urban (PMAY-U) since June 25, 2015 to provide pucca house in urban areas across the country. Under PMAY-U, a Technology Sub-Mission (TSM) has been set up for promotion and adoption of innovative, sustainable, eco-friendly and disaster-resilient technologies and building materials by various stakeholders of construction sector for fast, cost effective and quality construction of houses across the country including hilly States/UTs. About 10 lakh houses have been constructed using innovative construction technologies in the country so far under PMAY-U.

In addition, following activities have been undertaken under TSM for promoting modern, innovative and green technology for faster and quality construction of houses:

- i. Identification, Evaluation and Certification of Emerging Technologies for adoption by Public/Private agencies.
- ii. Global Housing Technology Challenge - India (GHTC-India) was initiated to identify and mainstream globally best available proven construction technologies including prefabricated technology that are rapid, sustainable, green and disaster resilient. Under GHTC-India, 54 innovative proven construction technologies shortlisted from across the globe.

- iii. Six Light House Projects (LHPs) using six distinct technologies shortlisted under GHTC-India are constructed at six places in the country. These projects mark a significant advancement in the Indian Government's endeavour to address urban housing shortages by adopting sustainable and disaster-resilient technologies.
- iv. 13 Demonstration Housing projects (DHPs) using new technologies are built in different part of the country to showcase innovative and eco-friendly technology and energy-efficient materials to States/Union Territories (UTs) and disseminating technical awareness among professionals.
- v. An online course named NAVARITIH (New, Affordable, Validated, Research Innovation Technologies for Indian Housing) has been started to enhance the capability of building professionals about the new and emerging building materials, technologies and processes for construction.
- vi. Indian Housing Technology Mela (IHTM) in 2021 was organized to showcase the domestic indigenous and innovative technologies, building materials and construction processes for low & medium rise houses. 84 innovative technologies/products/materials were shortlisted under IHTM. In addition, under the Indian Urban Housing Conclave 2022, a National Exhibition on Innovative construction practices was organized to showcase more than 85 innovative construction systems and materials.
- vii. MoHUA in association with GIZ and Building Materials and Technology Promotion Council (BMTPC) has hosted series of trainings/workshops on Innovative Construction Technologies and Thermal Comfort for Affordable Housing named RACHNA (Resilient, Affordable and Comfortable Housing through National Action). More than 150 RACHNA training programmes across the country have been successfully conducted across India, covering over 11,000 stakeholders.
- viii. Performance Appraisal Certification Scheme (PACS) is being operated for Identification, Evaluation and Certification of Emerging Technologies suiting to different geo-climatic conditions of the country, which are safe, sustainable and environment-friendly and ensure faster delivery of quality houses by BMTPC. Under PACS, so far, 77 innovative products and systems have been certified.
- ix. A series of offsite Workshops/Webinars, Webcasting, Mentoring on Technical know-how/Modules were organised jointly with State Governments for capacity building and handholding support on innovative construction technologies.
- x. Various publications on innovative construction technologies and other areas related to faster, eco-friendly, energy-efficient, cost effective, environment friendly, disaster-resistant, sustainable construction system has been made.

Further, based on the learning from the experiences of 9 years implementation of PMAY-U, MoHUA has revamped the scheme and launched PMAY-U 2.0 'Housing for All' Mission with effect from 01.09.2024 for implementation in urban areas across the country including State of Himachal Pradesh to construct, purchase and rent a house by 1 crore additional eligible beneficiaries at affordable cost through four verticals i.e., Beneficiary Led Construction (BLC), Affordable Housing in Partnership (AHP), Affordable Rental Housing (ARH) and Interest Subsidy Scheme (ISS).

The TSM set up under PMAY-U continues to guide and facilitate States/UTs and other stakeholders in adoption of modern, innovative and green technologies and alternate building

material for faster and quality construction of houses. It is further extended as Technology & Innovation Sub-Mission (TISM) under PMAY-U 2.0 to support innovative design and construction practices and projects.

- (c) & (d): Central Assistance of Rs. 34,128/- has been released to State of Himachal Pradesh during last year for conducting Third Party Quality Monitoring (TPQM) for projects under Capacity Building Activities of PMAY-U. There is no proposal for construction of Light House Project in Himachal Pradesh.
