

**GOVERNMENT OF INDIA  
MINISTRY OF HOUSING AND URBAN AFFAIRS  
LOK SABHA**

**UNSTARRED QUESTION NO. 2405  
TO BE ANSWERED ON AUGUST 03, 2023**

**ROLE OF BMTPC**

**NO. 2405. SHRI RAMDAS C. TADAS:**

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

- (a) the role of Building Materials and Technology Promotion Council (BMTPC) in Pradhan Mantri Awas Yojana (PMAY);**
- (b) whether the Government is collaborating with IITs and Architecture institutes for developing technical solutions and if so, the progress made so far in this regard; and**
- (c) the steps taken by the Government for providing sustainable technological solutions for faster and cost effective construction of houses?**

**ANSWER  
THE MINISTER OF STATE IN THE  
MINISTRY OF HOUSING AND URBAN AFFAIRS  
(SHRI KAUSHAL KISHORE)**

**(a): Under Pradhan Mantri Awas Yojana – Urban (PMAY-U), Building Materials and Technology Promotion Council (BMTPC) has been designated as appraisal & monitoring agency by Ministry of Housing and Urban Affairs (MoHUA) for selected Detailed Project Reports (DPRs) and Projects respectively, for States/Union Territories (UTs) falling prominently under Earthquake Hazard Zone IV & V particularly located in North-Eastern States & other Hilly States/UTs (Uttarakhand, Himachal Pradesh, Jammu & Kashmir and Ladakh).**

**Further, under PMAY-U, a Technology Sub-Mission (TSM) has been set up to facilitate adoption of modern, innovative, green & disaster resistant technologies and building materials for faster and quality construction of houses, and BMTPC is providing technical support in the functioning of TSM.**

**(b): MoHUA has selected four Indian Institute of Technologies (IIT Roorkee, Kharagpur, Madras & Bombay) and one CSIR Laboratory (CSIR-NEIST, Jorhat in collaboration with CSIR-CBRI Roorkee) as Incubation Support Institutes, for providing incubation support to potential indigenous innovative technologies under Affordable Sustainable Housing Accelerator – India (ASHA-India). ASHA-India is a component of Global Housing Technology Challenge - India (GHTC-India). Based on the proposals submitted by the respective Institutions/Laboratory, the potential technologies are presently getting incubation supports at these Institutions/Laboratory.**

**(c): Under TSM, following steps have been taken by the Government for providing sustainable technological solutions for faster and cost effective construction of houses:**

- i. Identification, Evaluation and Certification of Emerging Technologies for adoption by Public/Private agencies.**
- ii. GHTC-India was initiated to identify and mainstream globally best available proven construction technologies 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.**
- iv. 14 Demonstration Housing Projects (DHPs) using new technologies are built under PMAY-U to showcase innovative technology options to States/UTs and disseminating technical awareness among professionals.**
- v. A free online Enrolment of TECHNOGRAHIS has been started for exposing the interested stakeholders to learn different phases of use of innovative technologies in LHPs for adoption and replication.**
- vi. 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.**

- vii. Indian Housing Technology Mela (IHTM) 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.**
- viii. Under the Indian Urban Housing Conclave (IUHC), a National Exhibition on Innovative construction practices was organized to showcase more than 85 innovative construction systems & materials.**
- ix. MoHUA in association with GIZ and BMTPC is hosting series of trainings/workshops on Innovative Construction Technologies and Thermal Comfort for Affordable Housing named RACHNA (Resilient, Affordable and Comfortable Housing through National Action). 150 RACHNA training programmes across the country have been successfully conducted across India, covering over 11,000 stakeholders.**
- x. 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, MoHUA. Under PACS, so far 77 innovative products and systems have been certified.**
- xi. 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.**

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