

Project report under SCM

476. SHRI MAHESH PODDAR: Will the Minister of HOUSING AND URBAN AFFAIRS be pleased to state:

(a) the number of cities which have been selected under the Smart Cities Mission (SCM);

(b) whether all the selected cities have reported all their projects and cost for each of these projects;

(c) the number of projects reported by each city along with the cost of each project city-wise; and

(d) the number of cities which have identified sources of finances for these projects?

THE MINISTER OF STATE OF THE MINISTRY OF HOUSING AND URBAN AFFAIRS (SHRI HARDEEP SINGH PURI): (a) to (d) 100 cities have been selected to be developed as Smart Cities under the Smart Cities Mission. 100 cities have included a total of 5,151 projects at an estimated cost of ₹ 2,05,018 crore in their Smart City Proposals (SCPs). The details of individual projects, their estimated cost and identified sources of finance for the projects have been provided in the cities' SCPs, which have been uploaded on the Mission's website at *smartcities.gov.in*.

Cost effective and speedy construction technologies

477. SHRI SUSHIL KUMAR GUPTA: Will the Minister of HOUSING AND URBAN AFFAIRS be pleased to state:

(a) whether Government has any plan to address the issues related to shortage of houses in a time-bound manner;

(b) if so, the steps taken in this regard;

(c) whether Government has any plan to bring in cost effective and speedy construction technologies also; and

(d) if so, the steps taken in this regard during the last three years?

THE MINISTER OF STATE OF THE MINISTRY OF HOUSING AND URBAN AFFAIRS (SHRI HARDEEP SINGH PURI): (a) and (b) The Government of India through the Ministry of Housing and Urban Affairs (MoHUA) has launched Pradhan Mantri Awas Yojana (Urban) [PMAY(U)] Mission in June 2015 to provide all weather pucca houses to all urban homeless families/beneficiaries by assisting States/Union

Territories (UTs) both technically and financially to address the shortage of houses in a time-bound manner. The PMAY(U) Mission has four components viz. 'In-situ' Slum Redevelopment (ISSR), Affordable Housing in Partnership (AHP), Beneficiary-Led Construction (BLC) and Credit Linked Subsidy Scheme (CLSS).

The MoHUA has been assisting State/UTs in conducting demand survey of homeless families/beneficiaries, preparation of Housing for All Plan of Action (HFAPoA), establishment of Technical Cell at State and City Level, other capacity building activities including preparation of Detailed Project Reports (DPRs) of PMAY(U) projects. The MoHUA has also been coordinating with States/UTs for project formulation, implementation and monitoring. Under PMAY(U) Mission, 72,80,851 houses have been sanctioned so far, out of which, 38,67,191 lakh houses are grounded for construction and 14,75,879 lakh houses are completed.

(c) and (d) The PMAY(U) Mission envisages constitution of Technology Sub-Mission (TSM) mandated to facilitate adoption of modern, innovative and green technologies and building material for faster and quality construction of houses. Building Materials and Technology Promotion Council (BMTPC), an autonomous organisation under the aegis of the MoHUA has been designated as the nodal agency of TSM. BMTPC in coordination with MoHUA has been involved in various activities under TSM.

So far, 24 emerging and alternate housing construction technologies have been identified and evaluated by BMTPC. The list of these technologies is given in the Statement-I (*See* below). Central Public Works Department (CPWD) has issued Schedule of Rates (SoR) for 11 selected new construction systems for adoption by the masses. The list of these 11 technologies is given in the Statement-II (*See* below). A Technology Park has been set up in the campus of Hindustan Prefab Ltd. (HPL) in New Delhi to showcase some selected emerging alternate housing technologies through prototypes. Bureau of Indian Standards (BIS) included new construction technologies in revised National Building Code 2016. With continuous efforts of the MoHUA, around 11.88 lakh houses are being constructed using alternate technologies all over India under PMAY(U) and other housing scheme.

The MoHUA has also launched the Global Housing Technology Challenge-India (GHTC-India) on January 14, 2019. The challenge aims to identify and mainstream a basket of new and innovative technologies from across the globe that are sustainable, green and disaster resilient for cost effective, speedier and quality construction of houses meeting diverse geo-climatic conditions and desired functional needs. GHTC-India aspires to develop an eco-system to deliver on the technologies challenges of the housing construction sector in a holistic manner.

Statement-I

List of new technologies evaluated and certified by BMTPC

- I. Formwork Systems
 - (i) Engineered Formwork Systems
 1. Monolithic Concrete Construction System using Aluminium, Plastic-Aluminium or Composite formwork
 2. Modular Tunnel Form
 - (ii) Stay-in-Place Formwork Systems
 3. Sismo Building Technology
 4. Insulating Concrete Forms
 5. Monolithic Insulated Concrete System
 6. Structural Stay-in-place formwork system (Coffor)
 7. Lost-in-place formwork system-Plaswall Panel system
 8. Plasmolite Wall Panels
- II. Precast Sandwich Panel Systems
 - (i) EPS based Systems
 9. Advanced Building System-Emmedue
 10. Rapid Panels
 11. Reinforced EPS Core Panel System
 12. QuickBuild 3D Panels
 13. Concrewall Panel System
 - (ii) Others
 14. Glass Fibre Reinforced Gypsum Panel System
 15. Prefabricated Fibre Reinforced Sandwich Panels
 16. Rising EPS (Beads) Cement Panels
- III. Light Gauge Steel Structural Systems
 17. Light Gauge Steel Framed Structure (LGSFS)
 18. Light Gauge Steel Framed Structure with Infill Concrete Panel Technology
- IV. Steel Structural Systems
 19. Factory Made Fast Track Modular Building System
 20. Speedfloor System

V. Precast Concrete Construction Systems

21. SRPL Building System (Waffle-Crete)
22. Precast Large Concrete Panel System
23. Industrialized 3-S System using Precast RCC Columns, Beams and Cellular light weight concrete Precast RCC Slabs
24. Walltec Hollowcore Concrete Panel

Statement-II

List of technologies, for which, Schedule of Rates (SoR) have been issued

Sl.No.	Name of new technology
1.	Light Gauge Steel Framed Structures (LGSFS)
2.	External and internal wall systems on LGSFS
3.	Expanded Polystyrene Core (EPS core) panels
4.	Monolithic Concrete Construction by using Aluminium Formwork
5.	Prefab Technology
6.	EPS cement sandwich light weight solid core panels
7.	Glass Fibre Reinforced Gypsum (GFRG) Panel System
8.	Speed Floor System
9.	Factory Made Fast Track Modular Building System
10.	Non Asbestos fibre reinforced aerated cement sandwich solid core panels
11.	Bamboo Technology

Land acquired for Vishwavidyalaya Metro Station

†478. PROF. MANOJ KUMAR JHA: Will the Minister of HOUSING AND URBAN AFFAIRS be pleased to state:

(a) whether it is a fact that the Delhi University Metro Station is underground because high rise construction is prohibited in this area and if so, the reasons for allowing the construction of a 39 storeyed building over there; and

(b) whether it is also a fact that the Delhi University has been expressing its concern at various levels since 2009 against this permission and if so, the reasons for ignoring the concerns of the University and the reasons for not setting up an investigation committee to investigate into the matter?

† Original notice of the question was received in Hindi.