

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

UNSTARRED QUESTION NO. 2897

TO BE ANSWERED ON DECEMBER 12, 2024

TECHNOLOGY SUB-MISSION UNDER PMAY-U

NO. 2897. SHRI LAVU SRI KRISHNA DEVARAYALU:

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

- (a) the details of the total number of houses built under Technology Submission under Pradhan Mantri Awas Yojana–Urban (PMAY-U), year and district-wise for Andhra Pradesh;**
- (b) the funds released and the houses built under the said Sub-mission, year and State-wise;**
- (c) whether the flood resilient houses are built under the said mission in Andhra Pradesh;**
- (d) if so, the details thereof and if not, the reasons therefor; and**
- (e) the details and the usage of the experimental technologies being applied in Andhra Pradesh under the said mission?**

ANSWER

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

(a) to (e): Ministry of Housing and Urban Affairs is implementing Pradhan Mantri Awas Yojana - Urban (PMAY-U) since 25.06.2015 with an aim to provide all weather pucca houses with basic civic amenities to eligible urban beneficiaries across the country. Under PMAY-U, a Technology Sub-Mission (TSM) has been set up for promotion and adoption of innovative, sustainable, eco-friendly, energy efficient 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.

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Under TSM, Ministry initiated Global Housing Technology Challenge - India (GHTC-India) 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. Under TSM, 6 Light House Projects (LHPs) comprising of 6,368 Houses using six distinct technologies shortlisted under GHTC-India are constructed at Chennai (Tamil Nadu), Rajkot (Gujarat), Indore (Madhya Pradesh), Lucknow (Uttar Pradesh), Ranchi (Jharkhand) and Agartala (Tripura).

Further, under TSM, 13 Demonstration Housing projects (DHPs) using new technologies are built in different part of the country including Andhra Pradesh to showcase innovative and eco-friendly technology and energy-efficient materials to States/UTs and disseminating technical awareness among professionals. The State-wise details of LHPs and DHPs along with fund released is at Annexure.

Apart from the above, no houses have been constructed under TSM in any State/UT including Andhra Pradesh. However, under PMAY-U about 10 lakh houses have been constructed using innovative construction technologies in the country including about 2.4 lakh houses in Andhra Pradesh.

Details of Fund released for LHPs & DHPs

| S No | LHP Location | | No. of storeys and houses | Technology used | Usages | Fund Released (TIG Component (Rs. in Lakhs)) |
|------|----------------|----------|---------------------------------------|--|------------------------|--|
| | State | City | | | | |
| 1. | Madhya Pradesh | Indore | S+8 1024 & other facilities | Prefabricated Sandwich Panel System along with PEB Steel structure | PMAY Beneficiaries | 5,632.00 |
| 2. | Gujarat | Rajkot | S+13 1144 & other facilities | Monolithic Concrete Construction (Tunnel Form) | PMAY Beneficiaries | 6,292.00 |
| 3. | Tamil Nadu | Chennai | G+5 1152 & other facilities | Precast Concrete Construction System-components assembled at Site | PMAY Beneficiaries | 6,336.00 |
| 4. | Jharkhand | Ranchi | G+8 1008 | 3 D Volumetric Precast Concrete construction | PMAY Beneficiaries | 5,544.00 |
| 5. | Tripura | Agartala | G+6 1000 & other facilities | Light Gauge Steel Structural System with Concrete Panel filled with Light Weight Concrete & Pre-Engineered Steel Structural System | PMAY Beneficiaries | 5,200.00 |
| 6. | Uttar Pradesh | Lucknow | S+13 1040 & other facilities | Stay In Place Formwork System along with PEB Steel structure | For PMAY Beneficiaries | 5,720.00 |

| Sl. No. | DHP Location | | No. of storeys and houses | Technology used | Usages | Fund Released (TIG Component (Rs. in Lakhs)) |
|---------|----------------|-------------|--|---|--|--|
| | State | City | | | | |
| 1. | Andhra Pradesh | Nellore | G+1 36 & other facilities + Comm. Centre | Glass Fibre Reinforced Gypsum Panel (GFRG) | Training Institute of Centre of Excellence for Studies in classical Telugu | 566.00 |
| 2. | Odisha | Bhubaneswar | G+3 32 | Reinforced Expanded Polystyrene sheet core with sprayed concrete as wall & slab | PMAY(U) Beneficiaries | 94.20 |
| 3. | Bihar | Biharshriff | G+2 36 | Structural Stay In Place Steel Formwork System | Sports Hostel & other social welfare activities | 95.47 |
| 4. | Uttar Pradesh | Lucknow | G+1 40 | Stay in place EPS based double walled panel system with infill concrete | Rental basis to Hospital patients & their attendees | 108.38 |
| | | Ayodhya | G+2 40 & other facilities + Comm. Centre | Light Gauge Steel Frame structure with cement fiber board and mineral wool as in-fill. | Destitute widow Ashram & orphanage and Community Centre | 785.21 |
| 5. | Telangana | Hyderabad | G+3 32 | Light Gauge Steel Structural System (LGSF)- 16 units Structural Stay In Place Steel Formwork System - 16 Units | Training Hostel | 400.37 |
| 6. | Haryana | Panchkula | G+3 40 & other facilities | Light Gauge Steel Framework System (LGSF) with Cement Fibre board on both side of walls and infill of rock wool | Working Women Hostel | 622.26 |

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|-----|-------------------|-----------|---|---|--|----------|
| 7. | Tripura | Agartala | G+1 40 & other facilities | Structural Stay In Place Steel Formwork System | Old Age Home | 816.07 |
| 8. | Gujarat | Ahmedabad | G+2 40 | Precast Concrete Construction System - Integrated Hybrid Solution-One | PMAY (U) Beneficiaries | 215.51 |
| 9. | Madhya Pradesh | Bhopal | G+3 40 & other facilities | Load bearing Monolithic Walls using Insulating Concrete Forms (ICF) Block | Sports Hostel | 567.26 |
| 10. | Assam | Guwahati | G+3 40 & other facilities + Comm. Centre | Light Gauge Steel Frame Structure with V-infill concrete wall | Contractual Safai Karamcharis and Community Centre | 904.66 |
| 11. | Tamil Nadu | Tiruppur | G+3 40 & other facilities | Precast Construction System | Working Women Hostel/Widow Home | 687.54 |
| 12. | Jammu | Bhalwal | G+2 40 & other facilities | EPS core panel using Quikbuild Panels as walling and EPS roof/slab Panel with concreting | Sports Hostel | 853.44 |
| 13. | Nagaland | Dimapur | G+2 40 & other facilities + Comm. Centre | EPS Cement Sandwich Panels with steel structure | Working Women Hostel | 1,181.53 |