









POST EVENT REPORT

19-21 OCTOBER 2022 RAJKOT, GUJARAT







"This Light House project in Rajkot is a kind of a model for the country. Everybody, including engineering students, university students and people working in the real estate sector, are going to benefit from the Light House project of Rajkot. This will pave the way for new houses for millions of poor and middle-class families."

> -Shri Narendra Modi Hon'ble Prime Minister











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List of Annexures:

- 1. Final agenda of IUHC- 2022
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AGENDA



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Day 1

Sessions at a Glance

Wednesday, 19th October 2022

02:00 pm - 05:00 pm	Registration of delegates
06:30 pm - 08:00 pm	Inauguration of Exhibition and Walkthrough by Hon'ble Prime Minister

Inaugural Hall

08:15 pm onwards

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Day 2

Felicitation of winners of PMAY-U Awards 2021 & Release of MoHUA publications

Thursday, 20th October 2022

	Hall 1
10:00 am - 11:45 am	Plenary Session 1: Policy Dialogues for Beyond PMAY-U
	Board Room
11:45 am - 01:15 pm	Brainstorming Session 1: Multipronged Approaches to Slum (Re)development
	01:15 pm - 02:00 pm - Lunch
02:00 pm - 03:30 pm	Brainstorming Session 2: Formalizing Informal Settlements & Slums- Role of Planning, Policies and Financing
	03:30 pm - 03:45 pm - Tea Break
03:45 pm - 05:15 pm	Brainstorming Session 3: Global Approaches on Sustainable, Affordable, and Inclusive Housing
	Hall 1
11:45 am - 01:15 pm	Thematic Session 1: Climate Smart Buildings - Focus on Thermal Comfort & Energy Efficiency in Affordable Housing
	01:15 pm - 02:00 pm - Lunch
02:00 pm - 03:30 pm	Thematic Session 2: Public-Private-People Partnerships (4Ps) for Inclusive & Sustainable Housing
	03:30 pm - 03:45 pm - Tea Break
03:45 pm - 05:15 pm	Thematic Session 3: Policy, Institutional and Financial Frameworks for Scaling of Slum Redevelopment Initiatives



Hall 2
Thematic Session 4: Role of Private Sector in Housing Ecosystem
01:15 pm - 02:00 pm - Lunch
Thematic Session 5: Use of Innovative Technologies by Public and Private Agencies
03:30 pm - 04:00 pm - Tea Break
Inaugural Hall
Thematic Session 6: Mainstreaming of Innovative Construction Technologies – Initiatives and Way Forward
Friday, 21 st October 2022
Inaugural Hall
Plenary Session 2: Learnings from PMAY(U)- Best Practices from States
11:30 am - 11:45 am - Tea Break
Valedictory and Closing Session chaired by Hon'ble Minister of State (HUA •Release of MoHUA publications
Felicitation of winners of Poster Competition and Exhibitors

NOTE: Poster competition and TEC to continue in the exhibition area on Day-2 & 3



The final agenda is enclosed as Annexure-1



CONTEXT & BACKGROUND



- 1. Ministry of Housing and Urban Affairs (MoHUA) has been implementing Pradhan Mantri Awas Yojana-Urban (PMAY(U)) since 25th June 2015 for construction of all-weather pucca houses with basic amenities for all eligible families/ beneficiaries in urban areas of the country. The scheme is implemented through four verticals i.e., Beneficiary Led Construction (BLC), Affordable Housing in Partnership (AHP), In-Situ Slum Redevelopment (ISSR) and Credit Linked Subsidy Scheme (CLSS). Under the Mission, so far, the Ministry has sanctioned 1.23 crore houses; out of this over 1.05 crore houses have been grounded for construction and more than 64 lakhs houses have been completed and delivered to the beneficiaries.
- **2.** Construction of such a large number of houses calls for adoption of new innovative construction technologies, a departure from conventional brick and mortar-based construction techniques. Recognizing such need, within the ambit of the overarching PMAY(U), a Technology Sub-Mission (TSM) has been set up, to facilitate the adoption of innovative, sustainable, eco-friendly and disaster-resilient technologies and building materials for cost effective, speedier and quality construction of houses. Various initiatives have been taken by the Ministry for promoting new and innovative construction technologies and systems under larger umbrella of TSM. Accordingly, the series of activities taken so far are as under:
 - i. **Global Housing Technology Challenge- India (GHTC-India)** was initiated in January 2019 with an aim to identify and mainstream globally best available proven construction technologies that are sustainable, green and disaster resilient through a challenge format to bring technology transition in construction sector. Towards achieving this goal, *Construction Technology India (CTI) - 2019: Expo-cum-Conference* was organized by the Ministry which was inaugurated by Hon'ble Prime Minister on 2nd March 2019 at Vigyan Bhawan, New Delhi. Hon'ble Prime minister declared the year 2019-20 as 'Construction Technology Year' to promote new and alternate technologies at large scale in the country.
 - ii. As an outcome of the CTI, **54 globally best technologies** were shortlisted by Technical Evaluation Committee (TEC) and grouped under 6 categories. Six distinct technologies were selected amongst 54 shortlisted that participated in GHTC-India for constructing six Light House Projects (LHPs) at Indore, Rajkot, Chennai, Ranchi, Agartala and Lucknow. The foundation stone of all 6 LHPs was laid by the Hon'ble Prime Minister on 01.01.2021 through Video Conferencing jointly with concerned Governors/ Chief Ministers/ State Ministers at the site of the LHPs.



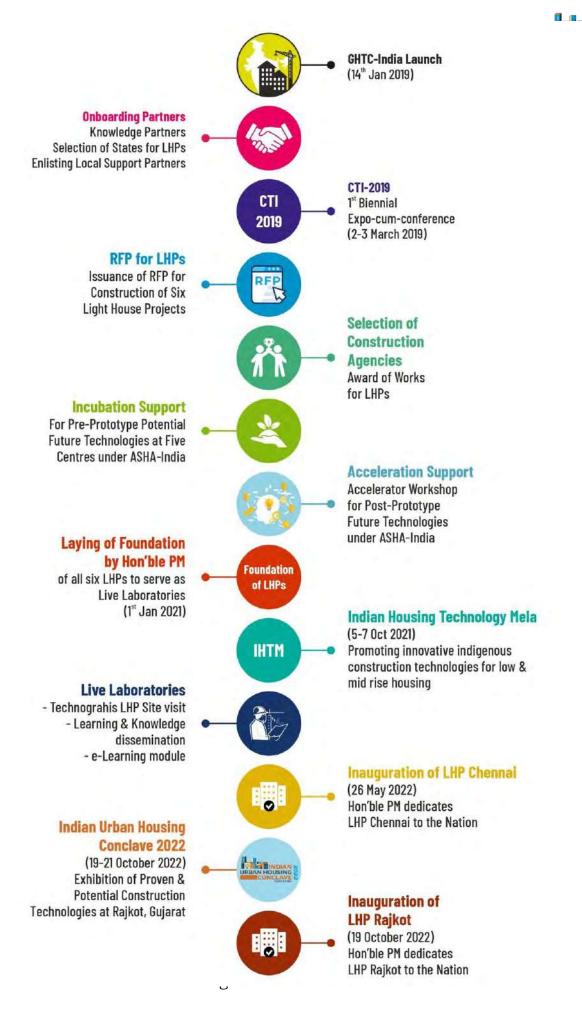
- iii. Out of the **6 LHPs**, LHP Chennai was inaugurated by Hon'ble Prime Minister on 26th May 2022. The other four LHPs are at advance stages of construction.
- iv. The LHPs are functioning as Live Laboratories to promote widespread learning on the use of innovative construction technologies/ systems on ground and mainstreaming in Indian context. For propagation on use of innovative technologies, a drive for free online enrolment of Faculty & Students of IITs/ NITs/ Engineering colleges/ Planning & Architecture colleges; Technical Professionals engaged in Private/ Public sectors; Central/State/ULB officials; Start-ups/ Innovators/ Entrepreneurs; and other concerned stakeholders as TECHNOGRAHIS was initiated. So far about 36,000 *Technograhis* have been enrolled.
- v. Furthermore, the Ministry organized **Indian Housing Technology Mela (IHTM)** from 5th to 7th October 2021 in Lucknow, Uttar Pradesh as a part of Azadi Ka Amrit Mahotsav which was inaugurated by Hon'ble Prime Minister. IHTM was conducted to promote indigenous Alternate/ Sustainable Building Materials and Innovative Construction Systems/ Technologies for Low & Mid-Rise Structures for Affordable Housing in the country. Under IHTM, 84 indigenous innovative technologies, materials and processes were shortlisted.
- vi. A compendium of the 54 innovative housing construction technologies identified through GHTC-India and a compendium of 84 technologies identified under IHTM has been published and circulated to all stakeholders for wider dissemination, learning and adoption.
- vii. In addition, under **Affordable Sustainable Housing Accelerators** (ASHA)- India initiative, five ASHA-India centres are functional for providing Incubation support to the shortlisted domestic potential construction technologies to make them market ready. Strategic guidance, acceleration support, exposure, networking and business opportunities have also been provided to the shortlisted Start-ups which were market ready to mainstream their product in the market.
- viii. A Certificate Course on Innovative Construction Technologies namely **NAVARITIH** (New, Affordable, Validated, Research Innovation Technologies for Indian Housing) was launched by Hon'ble Prime Minister on 1st Jan 2021. So far, 11 batches have successfully completed the course covering about 1,000 participants.
- ix. To promote climate responsive, disaster resilient and thermally comfortable construction and design practices in the affordable housing sector, MoHUA in collaboration with GIZ and BMTPC has organised 75
 RACHNA (Resilient Affordable Comfortable Housing through National



Action) region wise training programs for more than 4,500 participants of Government/Private sector, Academia, Masons/Artisans etc. under Azadi ka Amrit Mahotsav.

Use of innovative indigenous technologies in PMAY(U)

- 1. The Union Cabinet has approved for continuation of PMAY(U) up to 31st December 2024 for the completion of already sanctioned houses till 31st March 2022.
- 2. Through Technology Sub Mission, adoption of innovative construction systems including green & disaster-resistant technologies across states is being facilitated. Over 16 lakh houses under PMAY(U) are being constructed with innovative technologies across the country.
- 3. The global technologies shortlisted under GHTC-India are being adopted for multistorey construction under AHP/ISSR and other housing projects of Public/private sector including other Govt. departments.
- 4. The indigenous innovative technologies/materials showcased under IHTM are apt for low and mid -rise houses including BLC vertical of PMAY(U) and individual houses of PMAY-G with diverse climatic and hazard conditions. Also, the low and mid-rise houses constructed by individuals are also adopting the construction practices identified under IHTM.



Timeline of GHTC India



INTRODUCTION



Rationale for organising Indian Urban Housing Conclave

i. Since inception of GHTC-India in 2019 and IHTM, various other innovative construction technologies, materials and processes have been developed through R & D by various stakeholders across the world which are to be included for further adoption and mainstreaming in the domestic context.

ii. Further, there is tremendous scope and interest among Innovators, Start-ups, Entrepreneurs, and Small & Medium Developers on use of Innovative and Alternate Construction Systems, Materials, Components and Processes for housing construction who were also called on to showcase their products for cross learning and adoption.

iii. Therefore, in order to widen the horizon and to bring technology transition in the construction sector for sustainable development, it was imperative to create a platform which brings together all global and indigenous innovative technologies, materials and process shortlisted under GHTC-India as well as under IHTM and showcases them to the relevant stakeholders on a common platform. Therefore, Indian Urban Housing Conclave (IUHC) was organized, as three days expo-cum-conference event in Rajkot, Gujarat from 19th to 21st October 2022.

iv. IUHC provided various stakeholders a venue to demonstrate their technologies as well as deliberate upon various options of technologies, materials and processes for large scale adoption and mainstreaming in different type of housing construction suited to different Geo-climatic regions of the country.

v. Additionally, Shortlisted potential technologies that are market ready (post prototype applicants) as evaluated by the TEC will receive Acceleration support and potential technologies that are not yet market ready (pre- prototype applicants) as evaluated by the TEC will receive Incubation Support at the already existing ASHA-India centers.

Expected outcomes

i. *Shortlisting Technologies:* Readily available basket of shortlisted & approved innovative, rapid, climate resilience and disaster resistant technologies & materials suitable for different geo-climatic regions bringing paradigm shift in the construction sector.

ii. *Enabling Eco-system*: To create enabling eco-system for further adoption, the shortlisted innovative technologies will be incorporated in Schedule of Rates (SoRs) and standards, receiving certifications and fast track approvals.

iii. *Propagation of world best innovative construction technologies:* Public/ Private Agencies, R&D and Technical institutions, Construction Agencies, Developers, Contractors, Start-ups and other stakeholders intended to get exposure to the world



best innovative construction practices and knowhow unleashing business opportunities and skill upgradation in the construction sector.

iv. Access to innovative technologies to common public: Beneficiaries (house owners) would have access to innovative, rapid and cost-effective construction technologies and materials for use and thereby improved living conditions and environment with a sense of dignity.

v. *Vision India*@ 2047: Devising strategies, action plan and roadmap for achieving the vision of "Future Ready Urban India" focussed on urban housing during the Amrit Kaal.

Components of **Indian Urban Housing Conclave**

The three-days 'Indian Urban Housing Conclave' comprised of following broad components:

(a) *Inauguration of Light House Project, Rajkot:* The LHP of Rajkot, Gujarat which had been completed in all respect and beneficiaries for all 1,144 houses were identified. The LHP was proposed to be inaugurated and handed over to the beneficiaries by the Hon'ble Prime Minister.

(b) *Release of Publications:* During the event, the release of various publications prepared by the Ministry including Books, Compendiums, Handbooks was also proposed. It also included a multi-authored book on *Housing for All: Transforming Urban Lives* which encapsulate the journey of PMAY(U) to emerge as one of the largest affordable housing schemes of the world.

(c) National Exhibition on Innovative construction practices: An exhibition on Innovative building materials, Construction Technologies & processes including Affordable Housing was proposed to be set up where Global and Domestic exhibitors could showcase the prototype models on new and innovative construction technologies/materials. Technology providers from across the globe, domestic indigenous technologies, potential future technologies (start-ups) from the country were invited through a simple online screening process. A Technical Evaluation Committee (TEC) constituted for GHTC-India was to evaluate and assess their suitability in Indian context. Concerned stakeholders e.g. Research and Development (R&D) Institutions, Academia, Students of technical institutes, Engineers, Architects, Government agencies including State PWDs, Housing Boards, Developers, Entrepreneurs, Private entities, Foreign collaborators etc. were also invited to participate in the event.

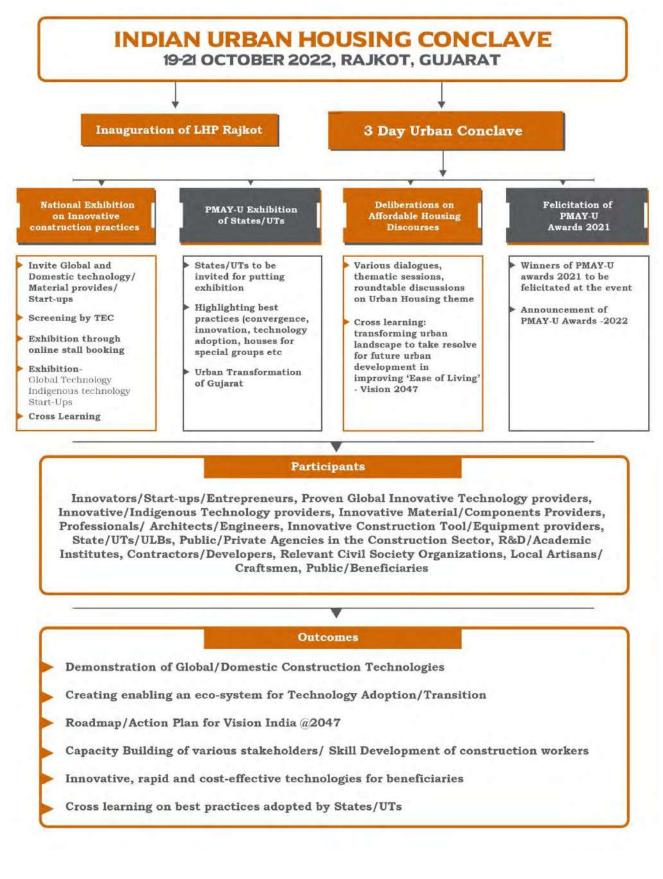
(d) Exhibition on best practices adopted by States/UTs under PMAY(U) including Gujarat: The implementation structure of the Mission promotes cooperative federalism. The States/UTs have innovated their implementation structure as per the local context such as adopting innovative construction



practices, convergence of PMAY(U) with other housing, livelihood programs, providing housing to special groups, etc. The exhibition aimed to showcase the efforts of States/UTs in the successful implementation of PMAY(U).

(e) *Deliberations on Affordable Housing Discourses*: Various dialogues, thematic sessions, roundtable discussions were proposed to be conducted with stakeholders from across the country to discuss, share and learn the progress in transforming urban landscape to take resolve for future urban development in improving 'Ease of Living'. It was expected that State/UT officials, academia, civil society organisations, national and international sector experts and other stakeholders would participate in the deliberations.

e) Felicitation of PMAY(U) Awards 2021: In order to, recognize the outstanding contribution by States, UTs and ULBs, MoHUA had introduced annual awards for excellence in implementation of PMAY(U). The winners for PMAY(U) Awards 2021 were proposed to be felicitated.





Administrative structure of the event

The event was organized by MoHUA in coordination with Government of Gujarat and Rajkot Municipal Corporation. The approval for organizing the event was taken from Hon'ble Minister (HUA) and subsequent approval of all the activities/processes evolved during the event was taken from Secretary (HUA). Joint Secretary & Mission Director (Housing for All) was the nodal officer for the entire event.

All the local logistic arrangements such as security, necessary approval from the concerned department for organizing the event was facilitated by the State Govt. of Gujarat. Rajkot Municipal Corporation played the key role in undertaking all logistic arrangements in the city under the leadership of Rajkot Municipal Commissioner and overall supervision of officials from Government of Gujarat. Existing Knowledge Partners (WRI, NAREDCO and CREDAI) under GHTC-India functioned as Knowledge partners for the event along with GIZ and UN Habitat.

Structure of the report

This report is broadly divided in different sections as follows and the details of the sessions are placed in subsequent sections:

- Agenda of IUHC
- Background of the Event
- Introduction to IUHC
- Planning & Preparation Process
- Event venue & Layout
- Branding & Promotion
- Exhibition in Making
- National Exhibition on Innovative Construction Practices
- Exhibition: Urban Transformation of Gujarat
- Day-1: Inaugural Session
- Day-2: Thematic Sessions/ Panel Discussions
- Day-3: Panel Discussion and Valedictory Session
- Technical Screening/ Shortlisting of Construction Systems/ Products/ Materials/ Exhibited
- Glimpses of Exhibition Open for Public

The forthcoming sections describes each component of the event in detail.



PLANNING & PREPARATION





1. Selection of Location for Event

The Indian Urban Housing Conclave was proposed to be held in Rajkot, Gujarat keeping in view the inauguration of completed Light House Project at Rajkot by the Hon'ble Prime Minister. In order to organise three exhibitions, plenary, thematic & brainstorming sessions and manage the overall event, a huge ground at appropriate location was required. Therefore, in consultation with Government of Gujarat, Shastri Maidan, Rajkot was finalized as the venue.

At the Ministry level, Joint Secretary & Mission Director (HFA) was the nodal officer for the whole event. Similarly, a nodal department and nodal officer was appointed at the State level under the guidance of Principal Secretary, Urban Development and Housing, Government of Gujarat along with the Municipal Commissioner, Rajkot for coordination with MoHUA and smooth conduct of the event.

Thereafter, officials from MoHUA visited the site of the event at Rajkot to finalise the location of all three exhibition within the site along with whole set up of the event. A meeting with the concerned officials of Government of Gujarat was also conducted to discuss the modalities and mechanism for the event.





2. Planning at the Ministry of Housing and Urban Affairs (MoHUA)

Several rounds of discussions/meetings with Mission heads were held under the chairmanship of the Secretary (HUA) to discuss the Mission wise exhibition stalls and logistics and parallelly, meetings were held with the HFA division to finalise plenary, thematic and brainstorming sessions and logistics on a daily basis. Hon'ble Minister (HUA) was briefed on a regular basis about the progress of the preparations, close coordination was also undertaken with his office. Since, Hon'ble Prime Minister was requested to inaugurate the event, briefing of the event was also given to Prime Minister Office (PMO) by the Secretary, MoHUA and JS&MD (HFA).

Further in IUHC, specific stalls exhibiting the domestically as well as globally developed innovative technologies/materials were identified through basic online screening on GHTC-India website for showcasing to Hon'ble Prime Minister.

For the whole planning and designing of Mission hangers and Exhibition stalls, a war room was set up in NBO Building, Nirman Bhawan, Maulana Azad Marg, New Delhi in which all domain experts, designers, video film makers etc used to sit and undertake preparatory work for the overall event and exhibitions.

3. Coordination for finalizing the participants from States/ Speakers/ Delegates/ Invitees

As the event included exhibition of each Urban Missions of the Ministry and State specific stalls displaying their implementation mechanism of PMAY(U) and prototypes, continuous coordination was done with them. They were also requested to share list of participants constituting of officers from States/UTs/ULBs for final logistic arrangements to HFA-V division. Dedicated team was assigned the task for follow up of participants list, travel plan and confirmation. Regular coordination with speakers for panel discussions, brainstorming sessions were conducted including their travel and stay details. The partner organizations of thematic and brainstorming sessions including UN-Habitat, BMTPC, GIZ were also requested to coordinate with panellists for the sessions anchored by them.

4. Coordination with Event Management Agency and Branding & Communication Agency

M/s Wizcraft International Entertainment Pvt. Ltd. had been previously hired after following all the process of e-procurement as per the provisions of GFR 2017 by HFA Directorate for Event Management under GHTC-India for the entire period of GHTC-India. The scope of work of M/s Wizcraft International Entertainment Pvt. Ltd. includes conducting necessary event management activities including event management/ workshops/ meetings/ webcasting/live streaming etc.

Since this event was part of GHTC-India, Wizcraft International Entertainment Pvt. Ltd. was approached to undertake all activities and works related to Indian Urban



Housing Conclave after the approval of Hon'ble Minister (HUA). M/s Wizcraft International Entertainment Pvt. Ltd. was also responsible for entire logistics arrangements at the site. The end-to-end activities included erecting the hangers for three Exhibitions, three hangers for thematic, brainstorming sessions as detailed above and one hanger for food & beverages section. The work included design and set-up of exhibition panels of all Missions Stalls (Smart City Mission, Urban Transport, AMRUT, NULM, PMAY(U), SBM-Urban); 140 stalls for IUHC exhibition and Gujarat Exhibition branding, light, camera, recording, live streaming, conference kit etc.

A dedicated team of M/s Wizcraft was engaged for smooth conduct of the event. Mission wise team was also dedicated from the agency for developing Mission specific designs and wall panels. A separate team of M/s Wizcraft was placed in Rajkot for assisting the State Government for finalizing the design and other logistic arrangement for Gujarat exhibition on Transforming Urban Landscape.

5. Coordination with Government of Gujarat

The Urban Development and Housing Department of Gujarat was made responsible for logistic arrangement of the whole event for three days. For smooth coordination with Ministry, series of interaction with State Government were organized to discuss the nitty-gritties of the event including travel and stay arrangements for guests, hall wise event preparation, etc.

A total of 12 hotels were booked across the city to accommodate more than 800 guests from States, MoHUA, panelists, academia etc. Each hotel had a dedicated help desk with a team from Municipal Corporation, Rajkot to assist guests for hassle-free accommodation and travel or any other help they may seek for. Help Desks were also set-up at Airport and Railway Station for pick-up and drop of the guests and guiding them with accommodation details. Along with the Help Desks, Rajkot Municipal Corporation had contacted the guests on Whatsapp and phone as well, providing them with stay and other logistic details. In order to conduct free RT-PCR test for COVID, mandated for participation was arranged by the State Government at all hotels where guests were staying.

Video conferences between Principal Secretary, Government of Gujarat, Secretary (Planning), Government of Gujarat, Rajkot Municipal Commissioner and JS&MD (HFA), DDG (HFA-II), Director (HFA-V), Director (HFA-I&III), DS (HFA-IV) and PMU members were organized to finalize the plan and actions required for Inaugural Session, thematic sessions, distribution of PMAY(U) awards 2021, launch of books, compendiums, handing over keys to LHP beneficiaries, etc.





Various documents including Minute to Minute program, sequence of activities of inaugural session, dais plan etc. was prepared in continuous consultation and deliberations with Government of Gujarat. A dedicated control center was established in Rajkot Municipal Corporation for close coordination with various stakeholders on ground and monitoring the day-to-day activities.





6. Coordination with Exhibitors of IUHC

The agencies who enrolled and registered themselves for exhibiting their innovative technologies/materials in the IUHC were facilitated with necessary logistic support for them to be able to transport their models/exhibits to the venue. Coordination with the exhibitors was done for smooth display of the models/exhibits in the stalls with necessary designing/printing of display materials. A dedicated team constituting of PMU members in the leadership of Director (HFA-V) was in constant touch with all the exhibitors to answer their day-to-day queries and resolve issues. States/UTs who booked the stalls to display their unique housing projects through models and display materials were shortlisted in advance. The States were allotted specific stalls for display. A dedicated team coordinated all concerned activities. Further, it was ensured that M/s Wizcraft International Entertainment Pvt. Ltd. is directly in touch with the exhibitors to do the necessary on ground logistic arrangements in the venue.

6.1 Process of Registration & Allocation of Stalls

MoHUA has designed and developed web-based software application <u>https://ghtc-india.gov.in/Content/About-IUHC.html</u> for technology providers all across the globe to register and showcase their products for cross learning and adoption during IUHC2022 conclave. Application software was integrated with the GHTC-India website.

Application forms were designed in such a way to allow technology providers to submit detailed information about their technology in text, videos, photos mode so that same will be helpful for TEC member for smooth evaluation.

Entire Exhibition layout with stall numbers were incorporated in the software application alongwith the feature to book exhibitions stalls online as per the choice and permissible limit mentioned in the terms and conditions. While booking, system displayed available stalls, booked stalls in color coded and number of stall allowed to book against each application to technology providers for easy understanding against.

Later application forms were integrated with PayGov payment platform to accept payment charges related to exhibition stall, delegate registration through online mode (debit card, credit card, net banking). A National Payment Service platform has been envisaged for a common e-Governance infrastructure that offers end-toend transactional experience for a citizen which includes accessing various services through internet with payment gateway interface for online payments. Ministry of Electronics and Information Technology along with NSDL Database Management Ltd (NDML) created а common infrastructure are being used by Centre/States/Departments to offer various services through their National / State portals with a facility to make online payment using net banking, credit cards and debit cards.



Dedicated web-pages were also designed and displayed on GHTC-India website in public domain to ensure maximum participation. Software application forms were designed to take submit application from the following four categories:

S. No.	Categories	Name	Eligibility
1.	Category 1	Proven Technology Providers (Global- Outside India)	 Building Components Provider Building Materials/ Products Provider Contractors/Developers Indigenous Technology Provider
2.	Category 2	Proven Technology Providers (Domestic)	 Indigenous Technology Provider Innovative Construction Tools an Equipment Providers Innovative Technology Provider
3.	Category 3	Potential Technology Providers (Domestic)	 Small Private Agencies & Enterprise (with Annual Turnover upto 5 Cr.) Individual Innovators , Start-ups Professionals
4.	Category 4	Others	 Academic / R&D Institutions General Public/Beneficiary Civil Society Organizations/ NirmithiKendras/ Registered NGOs

Following features were incorporated in the application software:

- 1. Webpages related to Indian Urban Housing Conclave.
- 2. Regular updation of static information on the websites related to event
 - About Event
 - Participation
 - Registration and Application Process
 - Fees
 - Exhibition Information
 - Programme Agenda
 - IEC Material related to event (pre and Post event)
 - Photos
 - Videos
 - Press Report
- 3. Integration with the GHTC-India website and PMAY(Urban) Website
- 4. Registration Form
 - Delegates



- Proven Technology Providers
- Potential Technology Providers
- 5. Login Form with Forget Password Facility (OTP validation)
- 6. Application Form for Proven Technology Providers and Potential Technology Providers.
- 7. Login for TEC committee, BMTPC and MoHUA for monitoring the submission of application process for evaluation.
- 8. Login for Knowledge Partners.
- 9. Integration of Exhibition Layout Plan in the software module
- 10. Provision for online booking of stalls by Proven Technology Providers and Potential Technology Providers and other exhibitors
- 11. Integration of software module with PayGov platform to accept payments online (National and International)Payments related to:
 - Exhibition Stall
 - Delegate Registration
- 12. Online generation of payment receipt and confirmation through email and SMS mode.
- 13. Dedicated Dashboard and Reports for all type of stakeholders
- 14. Reconciliation of payment report with PayGov Platform
- 15. Integration with SMS and EMAIL server
- 16. Security audit of entire module with CERT-IN empanelled agency.
- 17. Development of Module within GHTC-India Mobile Application

Outcome

- Total 209 stalls booked by 88 Technology Providers
- Total 5000 delegates registered

7. Social media inputs, Design & Printing of Banners, Leaflets/ Brochures, Invitation card/ Badges etc.

For spreading mass awareness about the Event, a sustained IEC campaign was initiated by the Ministry. This included various social media posts on Twitter, Facebook, Instagram and web banners on various websites of the Ministry. The IEC campaign was strategized in a way that it could reach each group of relevant stakeholders. Posts were done frequently during the day to invite exhibitors to book their stalls, academia & domain experts to participate in the deliberations on affordable housing and general people for awareness. Simultaneously, the knowledge partners of IUHC were requested to utilize their respective social media handles and networks (including emails, phone calls) to spread awareness about the various websites of the Ministry including brochure leaflets etc. on IUHC. The Detail media coverage document of IUHC is at Annexure- 2













022

Climate

testilion

Thermal

comfort

in Housing

S 10

Register to Participate

















8. Live webcasting and Recording of the Event

IUHC 2022 was organized in physical and virtual mode to ensure maximum participation from various stakeholders across the Globe. Accordingly, dedicated webpage https://swarnimtouch.com/IUHC-2022/ was designed and developed for the virtual participants to register and watch the event through webcasting mode in one way mode (Listening). Later, webcasting webpage was integrated with the website of the PMAY (U) Mission for maximum attention and registration.

To ensure the participation of some panelists in thematic and brainstorming sessions alongwith the panelists who attended physically, the halls were equipped with two-way VC through Zoom platform. Further, necessary screen layouts were designed alongwith e-backdrop. Meeting links and secure user credentials were shared in advance.

Hall wise necessary arrangements of hardware including camera, software, internet related to webcasting and VC were setup. Dedicated internet lease line with 100 mbps speed alongwith the backup line was setup in each hall.

Hall-wise dedicated team alongwith the control room were established during the Conclave i.e. Inaugural Hall, Board Room, Hall 1, and Hall 2. Internal Whatsapp group was also created for communication, coordination among team members to resolve issues dynamically and to ensure smooth conduct of webcasting and VC. Webcasting links were also generated in advance and posted on social media handles of the Ministry and HFA Division. E-banner for Webcasting/Live streaming was prepared and recording of the entire event was conducted for live streaming and documentation.

S.No.	Event/ Sessions	Youtube Link
1.	Inauguration of LHP Rajkot, Gujarat by Hon'ble PM	https://www.youtube.com/watch?v=Rh4 YUobdBCY&t=525s
	PMAY(Urban) Awards 2021 by Hon'ble PM	
2.	Hon'ble Prime Minister visits exhibitions under IUHC 2022	https://www.youtube.com/watch?v=L2n <u>UWcuhNaE</u>
3.	PMAY(Urban) Awards 2021 by Hon'ble Minister, HUA Release of MoHUA publications by Hon'ble Minister, HUA	https://www.youtube.com/watch?v=eFm oYFhYW44

Session wise webcasting feed was also linked with the YouTube platform as mentioned below:



4.	Plenary Session 1 - Policy	https://www.youtube.com/watch?v=Uh
	Dialogues for Beyond	<u>XHXnemLaI</u>
5.	PMAY(U) Brain Storming Session 1 -	
0.	Multipronged Approaches to	https://www.youtube.com/watch?v=EfF
	Slum (Re)development (UN-	<u>0On7JLiw</u>
	Habitat)	
б.	Brain Storming Session 2 -	https://www.soutube.com/wotch?woor
	Formalizing Informal Settlements & Slums- Role of	https://www.youtube.com/watch?v=soy yiSH6aRc
	Planning, Policies and	yisiidatte
	Financing	
7.	Brain Storming Session 3 -	
	Global Approaches on	https://www.youtube.com/watch?v=buH
	Sustainable, Affordable, and Inclusive Housing	XM8TBt30
8.	Thematic Session 1 -	
0.	Climate Smart Buildings -	https://www.youtube.com/watch?v=9SP
	Focus on Thermal Comfort &	<u>1ZHQK7j0</u>
	Energy Efficiency in	
	Affordable Housing	
9.	Thematic Session 2 - Public-Private-People	
	Partnerships (4Ps) for	https://youtu.be/FJQ1yLsdMe8
	Inclusive & Sustainable	
	Housing	
10.	Thematic Session 3 - Policy,	
	Institutional and Financial	https://www.youtube.com/watch?v=d22
	Frameworks for Scaling of Slum Redevelopment	<u>zfoTfuQE</u>
	Initiatives	
11.	Thematic Session 4 - Role	https://www.youtube.com/watch?v=N4h
	of Private Sector in Housing	6ePPPros
10	Ecosystem	
12.	Thematic Session 5 - Use of Innovative Technologies by	https://www.youtube.com/watch?v=76H
	Public and Private Agencies	<u>E5VbROIo</u>
13.	Thematic Session 6 -	
	Mainstreaming of Innovative	https://www.youtube.com/watch?v=5jk
	Construction Technologies –	<u>FIPEHtMM</u>
1 /	Initiatives and Way Forward	
14.	Plenary Session 2 - Learning from PMAY(U)- Best	https://www.youtube.com/watch?v=Gs1
	Practices from States	jzWGcdPM
	radices nom states	

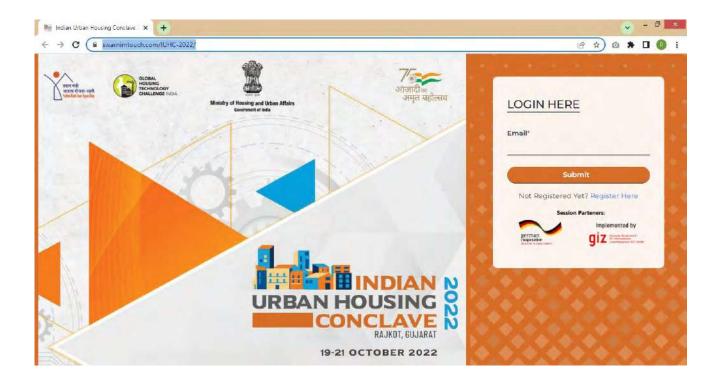


15.	Valedictory and Closing	https://www.youtube.com/watch?v=egq
	Session	<u>UAjpXcyc</u>

Later, on the webpage <u>https://swarnimtouch.com/IUHC-2022/</u> all webcasting videos are in archival mode for any viewer to visit and view the recorded version of all sessions.

<u>Outcome</u>

- More than 10,000 participants viewed even through Youtube Platform
- More than 1697 participants registered on <u>https://swarnimtouch.com/IUHC-2022/</u> and viewed event virtually through the webpage









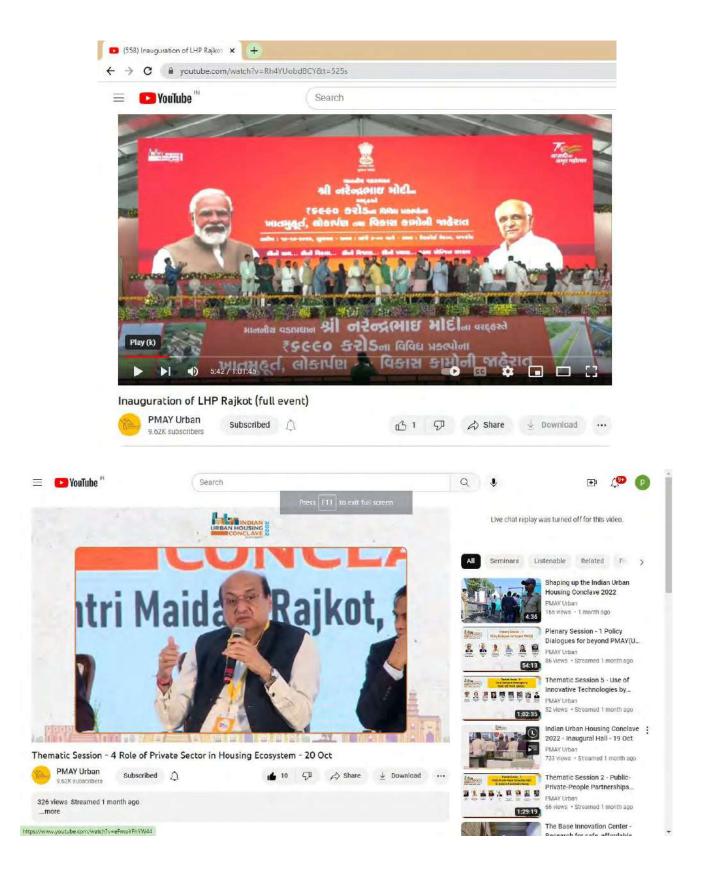














8. IUHC 2022 Mobile Application

Ministry of Housing and Urban Affairs had designed and developed IUHC 2022 mobile application through Surat Municipal Corporation (SMC) for the event as a one stop solution for registration, participations, event information, travel, accommodation, etc. Mobile application was developed in android as well as in ios platform.

Further, IUHC 2022 mobile application was made available on Google Play Store and Apple App store to ensure maximum registration and for seamless management of information among stakeholders through IUHC 2022 mobile application.

Link to install and register IUHC 2022 mobile app

Google Play Store (For Android Users) https://play.google.com/store/apps/details?id=com.iuhc.iuhc2022 Apple App Store (For ios Users) https://apps.apple.com/in/app/iuhc-2022/id6443655406

Features in IHC 2022 Mobile Application

Following features were incorporated in the mobile application: -

- 1. Registration of participants as per the categories highlighted in the table.
- 2. Displaying of QR Codes and mobile panel colour as per the category of participants.
- 3. Login through registered mobile number and OTP code validation.
- 4. My ePassport for marking digital

	S.No.	Categories	Colour
of		-	
e			
n	1.	Exhibitors	Dark Blue
	2.	Delegates	Purple
s	3.	Panellist	Yellow
r	4.	GOI Officials	Red
of	5.	State Government Officials	Light Green
	6.	Gujarat Government Official	Pink
d	7.	Organizer	Green
Ρ	8.	Media	Light Blue
	9.	Student	Orange
r	10.	Other	Grey

presence in Sessions, Exhibition through QR Code scanning

- 5. Self-Check-in feature for the participants on arrival at Rajkot, Gujarat for IUHC 2022 alongwith the capturing of geo-attributes (Latitude and Longitude.
- 6. Updation of Profile alongwith document proof, profile photos and travel information (Arrival and Departure details)
- 7. Displaying of Assigned Hotel Details, Vehicle Details and SPOC Details
- 8. Displaying for Banner, agenda, concept note, leaflet, Travel Advisory, Contact US, Event Location with google map for directions.
- 9. Feature to capture event preference from the registered participants to attend conclave either in Physical Mode or Virtual Mode.



10. Feature to take interest of the registered participants in sessions

Content Management System

In addition, IUHC 2022 mobile application were also integrated with the Content Management System (CMS) portal for updating information on mobile application from the backend like banner, photos, agenda, session wise content, speakers details, speakers photos.

Control Room

Dedicated Control Room were also established at Rajkot Municipal Corporation and teams of 16 officials were engaged under the supervision of Director (IT) for updating of following details on IUHC 2022 mobile application from the backend:-

- Hotel Master
- Vehicle Master
- SPOC Master
- Assign Hotel against the registered participants (as per the approval of the Competent Authority)
- Assign Vehicle against the registered participants (as per the approval of the Competent Authority)
- Assign SPOC against the registered participation (as per the approval of the Competent Authority)

The organisers had spread awareness about the IUHC 2022 mobile application through various outreach and social media platforms, phone calls were also made from control room to the registered participants.

Outcome

More than 5000 participants registered in the IUHC 2022 mobile application and attended conclave.

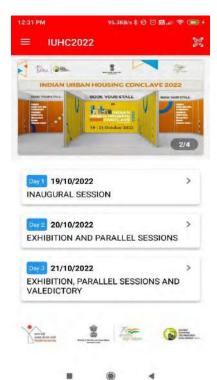
- IUHC 2022 Mobile Application
 - ✓ Android Users 4187
 - ✓ ios Users 366

During the event Rajkot Municipal Corporation successfully integrated the mobile numbers provided by the participants with the Whatsapp Platform and had used the platform for sending messages, agenda to all the registered users during the 3 days event.

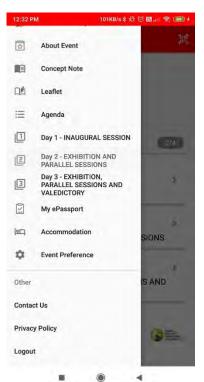
	Category	Nos
1	Panelist	77
2	Ministry (Central Government)	137
3	State & UTs	633
4	Exhibitor	373
5	Media	68
6	Delegate	174
7	Student	1915
8	Academic Institutions	21
9	Beneficiaries	1143
10	Others	1185
	TOTAL	5726



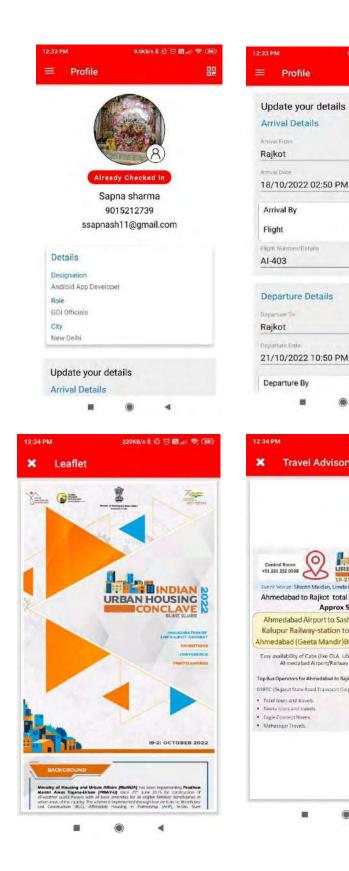
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	× Privacy Policy	*
	Privacy Policy	Winktry at Revendent and Unitaria Attures Assessment at Index
	Introduction	
	Thank you for using our PMAY Web Application	A a
	This privacy policy ("Privacy Policy") is in the context of and to govern the access and usage of the PMAY(Pradhan Mantri Awas Yojana) Web application, an initiative of Ministry of Housing and Urban Affairs (MoHUA), Government of India to get best globally available innovative construction technologies through a challenge process. It seeks to demonstrate and deliver ready to live-in houses in a shorter time, with lower cost and quality construction in a sustainable manner.	ID-21 OCTOBER 2022
19-21 OCTOBER 2022	This Privacy Policy describes and determines how PMAY handle and/ or deal with your (referred to as You or Your or User) personal and usage information, in accordance with the applicable laws of India (hereinafter collectively referred to as "Personal Information").	Version and the second
	Ministry respects your privacy rights and care about protecting your information collected by us.	🕈 Rajkot, Gujarat
r	MoHUA knows that you care how information about you is used and shared, and we appreciate your	Login New Registration
Version 1.6 (7)		Version 1.6 (7)
		■ ()
ame		
none		
	CONCLAVE	CONCLAVE
nail	RANGE GUARAT 19-29 OCTOBER 2022	
nail		RAINIT, BULART 19-21 OCTOBER 2022
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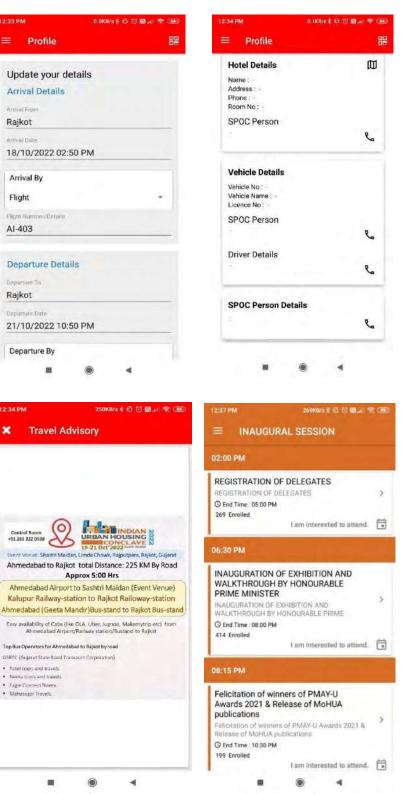




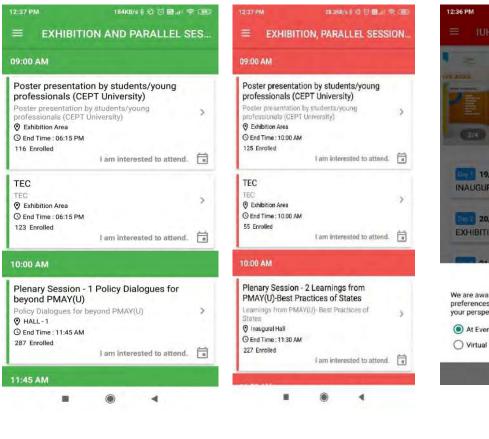


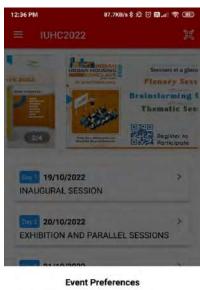












We are aware that some peaple have different preferences for events, so we wanted to get to know your perspective, which would you prefer?

At Event Location

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EVENT VENUE & LAYOUT





1. IUHC 2022

The three-day event was organised in Sashtri Maidan, Rajkot, Gujarat



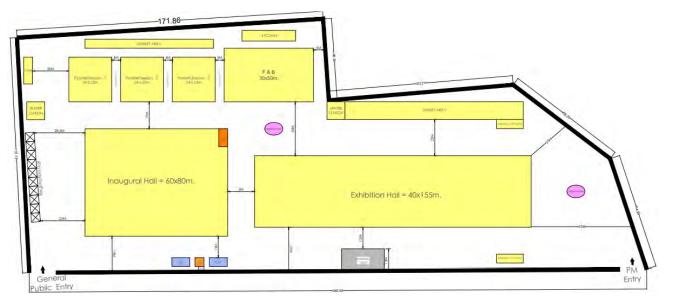


2. Layout of the Event



Shastri Maidan, Rajkot, Gujarat

3. Technical drawings and dimensions of IUHC hangers



4. Element details of the event:

Indian Urban Housing Conclave was organized by M/s Wizcraft International Entertainment Pvt. Ltd. which included preparation of creative design, layouts, 3D structures, erection of hangers for exhibition of the six urban missions, Gujarat exhibition, exhibition on new & innovative construction technologies, audio-visual and IT support for the event, erection of three halls for thematic & brainstorming sessions, F&B hanger, VC & webcasting setup, as per the element details which were used during the event, is placed at **Annexure-4**.





5. 3D-View of the Exhibition Layout

6. 3D-View Front Façade of Exhibition Hall



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7. 3D- View of Hall for thematic sessions



8. 3D- View for inaugural hall





EXHIBITION IN MAKING





After the discussion between individual Mission Directorates in MoHUA and the team of M/s Wizcraft Entertainment Private Limited, the event production was undertaken at Sashtri Maidan, Rajkot by them. The execution of event started from 10.10.2022 while installation of all the hangers were undertaken simultaneously, viz. Exhibition hanger (including MoHUA, Transforming Gujarat and Innovative Construction technologies), three halls for thematic and brainstorming sessions, inaugural hall and food & beverages hall. The core team of event management was deployed for different venues. The team consisted of senior event managers & supervisors along with the support staff for handling of the structures, fabrication, technical equipment, venue branding and overall event layout. For every event area there were three managers to handle and supervise the event production while working day night under the different shifts of the workers.

A meeting was organized 3-4 days before the event with the SPGs & Officials in command for the movement of Hon'ble Prime Minister and other safety measures. All necessary permissions were procured and the same was submitted to security officials for their perusal, as per their requirements, including accreditation badges. All managers & support staff went through RT-PCR process and other sanitization protocols were followed.



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A. Setting up of the Event Venue



































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EVENT BRANDING & PROMOTION





Event branding was done with a focus on 'Indian Urban Housing Conclave' and Azadi ka Amirt Mahotsava. The branding covered all sub-events taking place, namely, a) Exhibition of the transformative Urban Missions including Housing for All-PMAY (U), SCM, AMRUT, SBM-U, DAY-NULM and Urban Transport. b)Exhibition on Innovative Construction Technologies, under Global Housing Technology Challenge-India (GHTC-India), showcasing innovative construction technologies, materials and processes. c)**Exhibition on Gujarat: Transforming Urban Landscape** to showcase performance of the State, under the Flagship Urban Missions and future projections with the trend.

Few banners also included quotes of Honorable prime minister of India and Honorable Chief Minister of Gujarat relating to urban development. All branding was done following the protocols, guidelines and approval of PMO.

Since the event was hosted in Gujarat the branding focused more on the achievements of the State government under various missions. Achievements relating to the 6 specific mission were also highlighted in the branding. All branding was bilingual (English and Hindi) with a lot of banners focusing on the Hindi to attract the local audience.

The branding covered inhouse i.e within the event premises, Peripheral branding, at all entrances and near the event venue and across the city for reching out to the general public. There were above 200 sites that were finalized for putting Hoardings and banners across Rajkot city in order to increase the awareness and reach out to the public for the event.

Apart from the physical branding a lot of pre and post event branding was done in social and press media covering the upcoming event and the takeaways after the event.

The physical branding was done in many formats including hoardings, banners, poles and standys. Some of these are showcased in the following section of this report.













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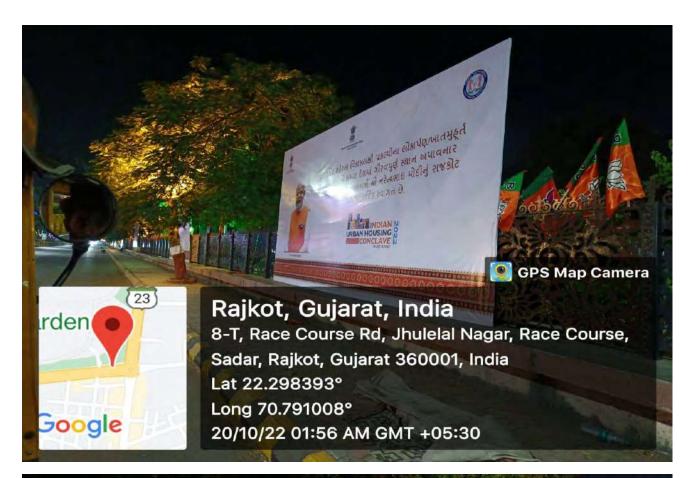














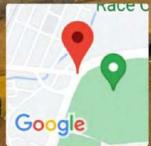
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boogle

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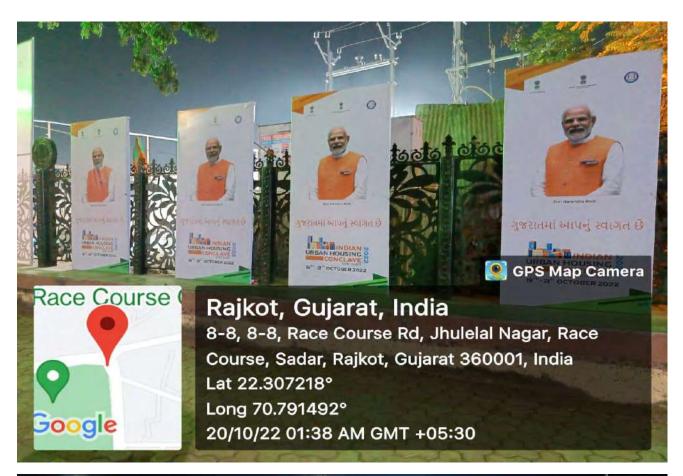
22, Patrakar Society, Maruti Nagar, Rajkot, Gujarat 360001, India

Latitude 22.3074966666666665°

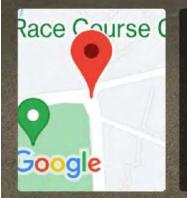
Local 03:39:53 AM GMT 10:09:53 PM Longitude 70.7846133333333333

Altitude 15.38 meters Wednesday, 19.10.2022









Rajkot, Gujarat, India 308-Haridarshan Arcade,Near Balaji Hall, 105 Ft, Ring Rd Cir, Police Head Quarter, Rajkot, Gujarat 360001, India Lat 22.307374° Long 70.791596° 20/10/22 01:36 AM GMT +05:30

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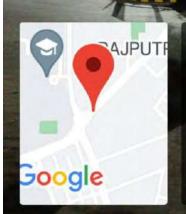








🧕 GPS Map Camera



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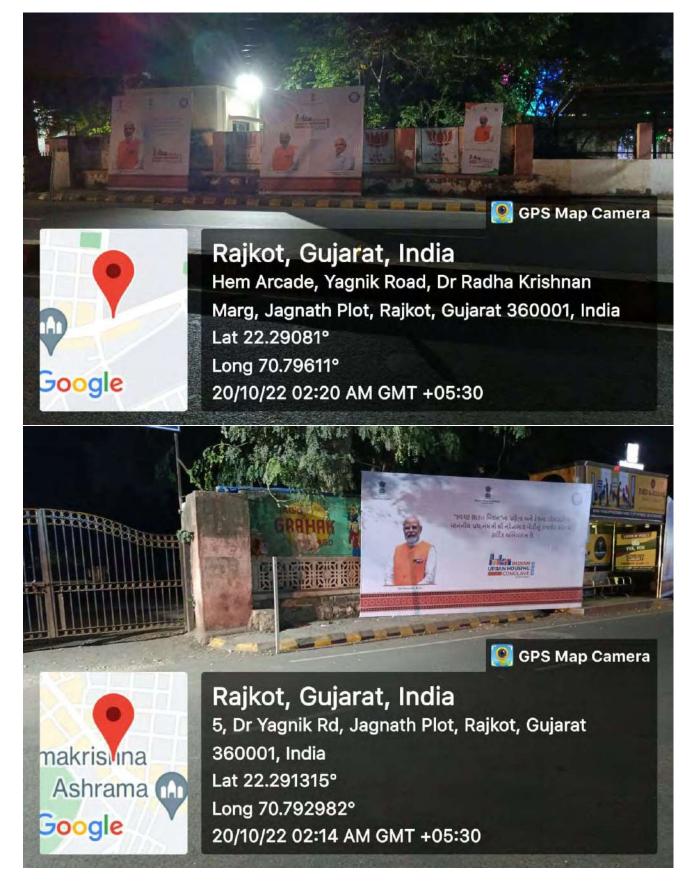






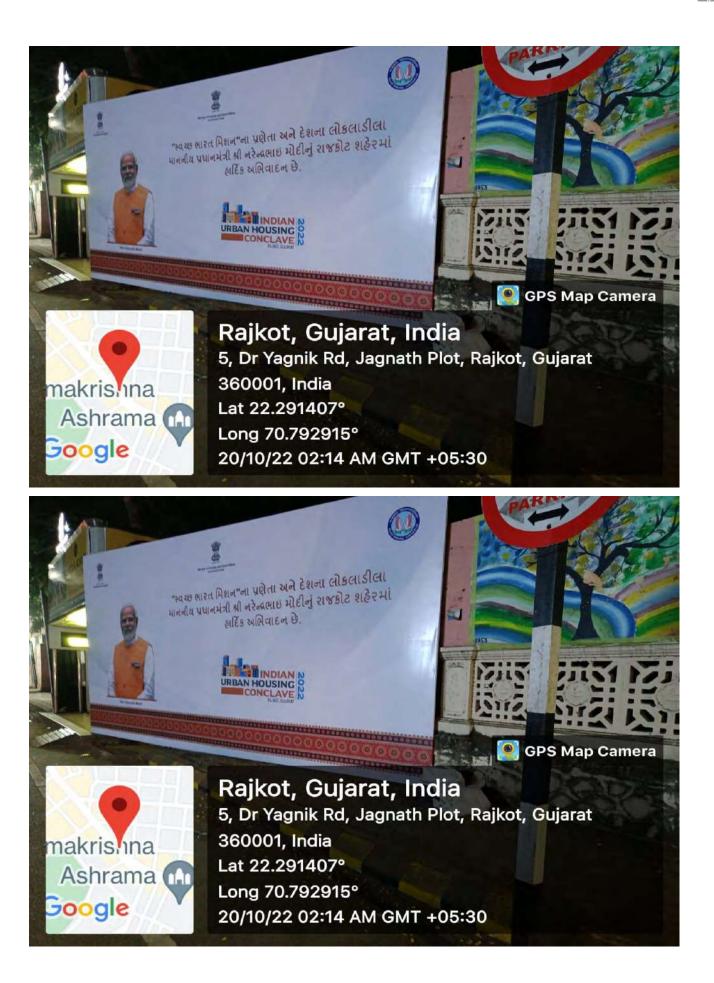
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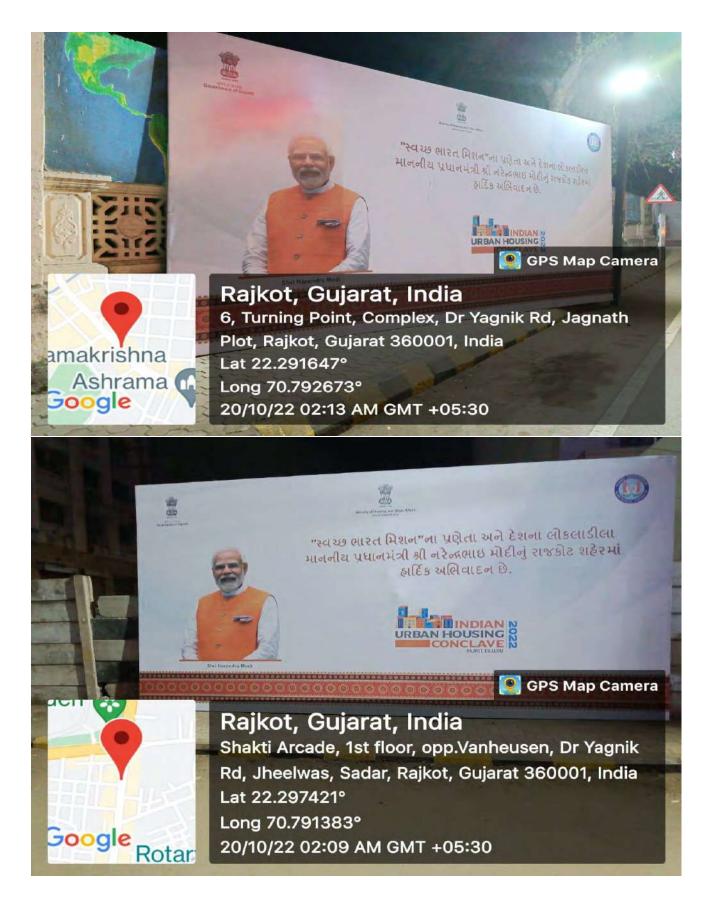


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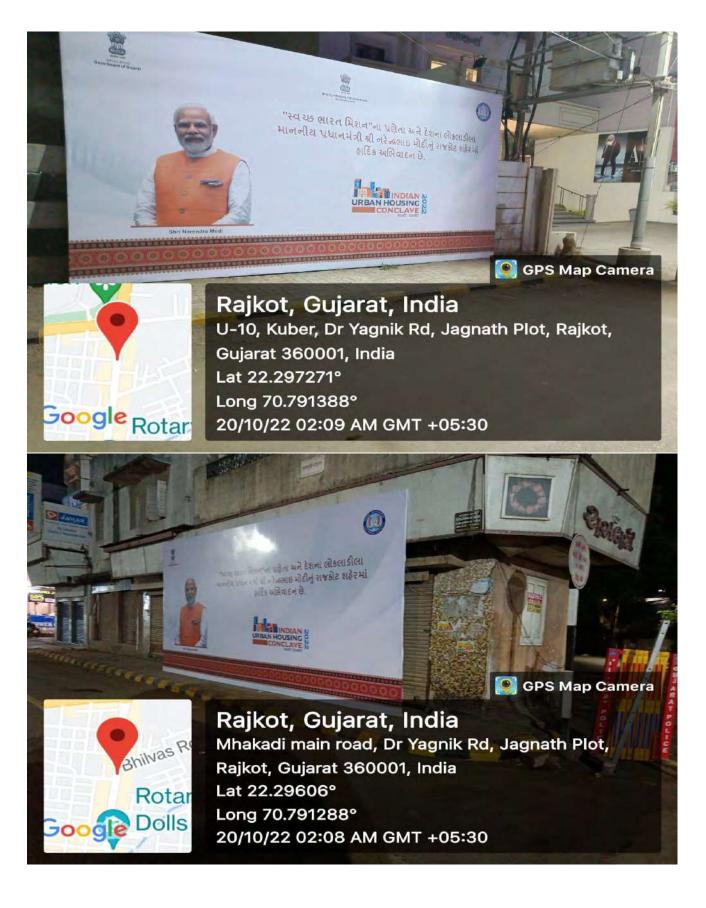
















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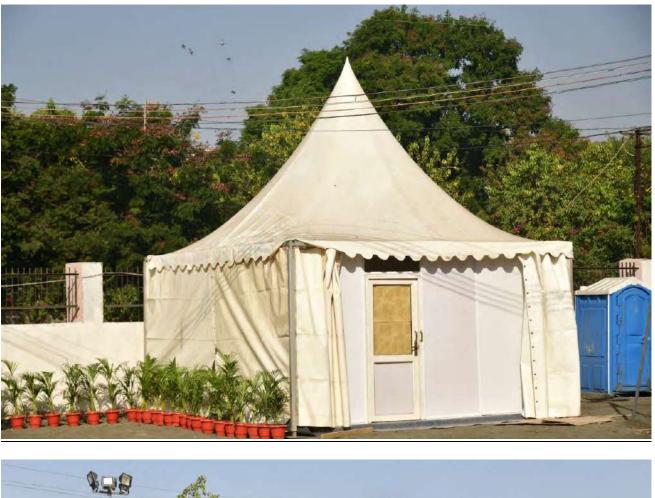
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Placing of Furniture



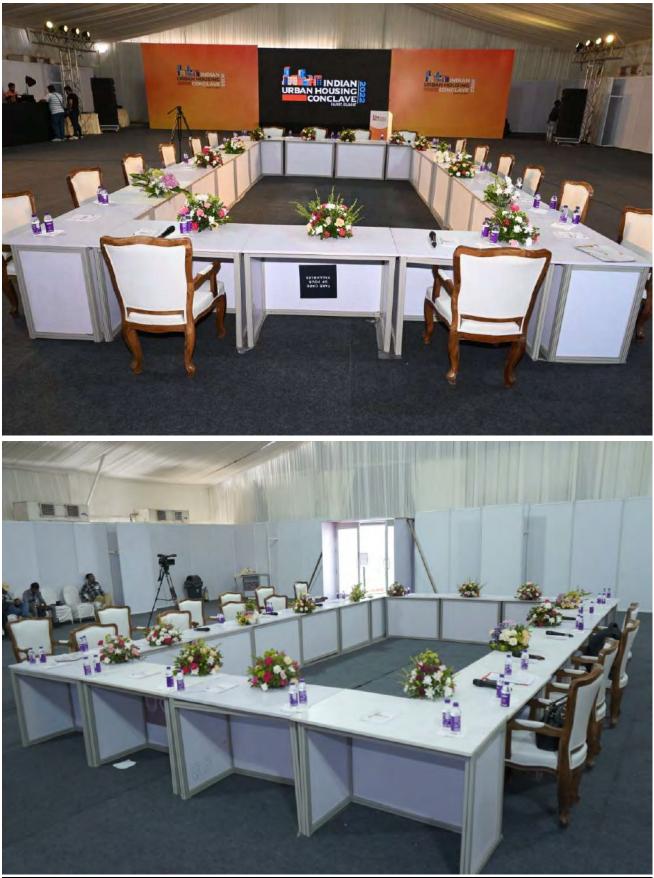












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Portable Toilets





VVIP Washroom







Ambulance



Heavy Duty Generators Sets



Page 03 01 404



Golf Carts



Consoles & Equipment







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<u>Main Hanger</u>





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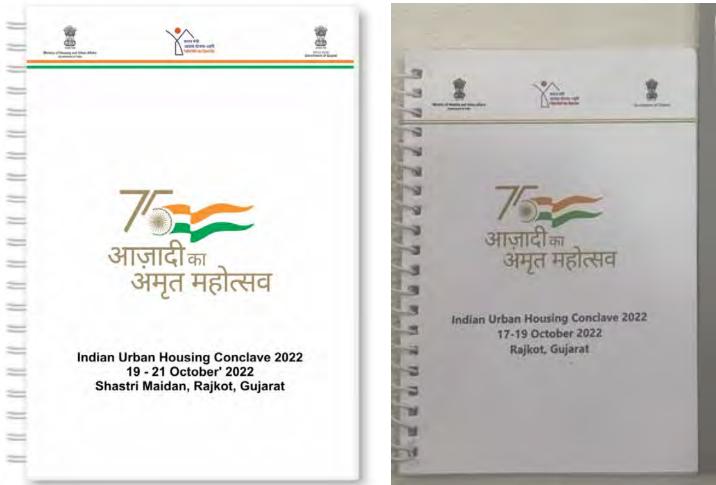
Badges, Lanyards and Collaterals

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Trophises and Shields for PMAY- Awards









EXHIBITION: URBAN MISSIONS OF MOHUA





The New Urban India exhibition with six themes showcased actual achievements under PMAY(U), SBM-U, DAY-NULM, AMRUT, Smart City Mission, and Urban Transport over the years and projections for the future. The pavilion was visited by students and faculties from different institutions, government officials and dignitaries and the common public present in the conclave. An ariel view of all Urban Missions of MoHUA in New Urban India Exhibition is shown as under:





Pradhan Mantri Awas Yojana-Urban

Over the past seven years, the Mission has accompanied a lot of milestones. The stall aimed to showcase the achievements and the design & evolution of the Mission. The stall showcased different facets of the Schemes including Mission progress, construction technology, use of space technology, ARHCs, Gurukul etc. culminating into smiling faces of the beneficiaries. The entire stall was designed with a look of BLC house. The following are the details of each component:

A) "Labhartiyon ke Zaban Se: A wall was dedicated to showcase the voices of the beneficiaries: their feelings & emotions after they built their homes or moved into a home. The wall depicted the testimonials of beneficiaries from various parts of the country in their native languages including Hindi, English, Gujarati, Tamil, Bengali, Kannada, Telugu, Malayalam, Odia etc.



B) **"Khushiyon ka Aashiyana"** Faces: The central wall celebrated the diversity under the Mission. It displayed the BLC houses constructed in different geoclimatic parts of the country with the beneficiaries. The wall aimed to exhibit the regional diversity in the built typology of the country and also the diverse spectrum of beneficiaries under the Mission.





C) Geo-tagging of BLC houses: All the BLC houses under PMAY(U) are geo-tagged at five stages of construction. The mechanism ensures transparency in delivery and monitoring. In the stall, a map of India was displayed showing the geo-tagging of houses. The map illustrated the pan-India presence of PMAY(U). In front of the map, a touch screen was put with a live map wherein the visitor could select city from anywhere in India to see the houses in that city. The interactive map showed the present constructions stage of the house.





D) **PMAY(U)** Dashboard: The PMAY(U) dashboard which maintains the overall monitoring and progress data of the Mission was put as an exhibit. There was a wall dedicated to the dashboard displaying the kind of information and datasets available. In front of the wall, an interactive screen was kept which showed the live dashboard and visitors could select the data-points they wanted to view.



E) **PMAY(U)** Gurukul: Over the past seven years of implementation, the Mission has produced various knowledge products in form of research publications, compendiums, success stories, best practices, etc. The wall was dedicated to





the publications brought out by the HFA division. The wall was also provided with a QR Code for the visitors to download the e-books.

- F) Technology Sub-Mission: The wall showcased various components of technology-sub mission under PMAY(U) like GHTC-India, IHTM, IUHC, RACHNA, NAVARITIH, ASHA-India, LHPs, DHPs. It overall highlighted all the initiatives undertaken by the HFA division to promote the mission of "use of resource efficient, rapid paced, disaster resilient construction technologies". There was a selfie point with cut out of Technograhi with message "Main bhi Technograhi".
- *G)* **RERA & MTA:** The wall showcased the initiatives taken by the Ministry to ensure transparency and accountability in the real estate sector by the implementation of RERA Act in 2016 and Model Tenancy Act in 2021.

The stall also showed a model of BLC house with convergence of various other schemes being implemented by the Ministry for providing basic social and civil amenities such as water supply, electricity, roads, gas connection etc. enhancing the liveability of the house.





Full Size Wall on Light House





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Swachh Bharat Mission-Urban

The SBM-Urban exhibition showcased various facets of cleanliness and management of garbage being the central theme. The focus is more towards promoting zero waste city. The stall narrated the progress of SBM through creatives and videos.

The glimpse of the stall is shown below:



Swachh Bharat Mission-Urban 2.0 Stall in Rajkot, Gujarat



A poster in the stall showcased a unique initiative by the Ministry with the theme of 'National Source Segregation Campaign': The campaign's aim is to spread the message of source segregation to take a step towards achieving the Mission's goal of building 'Garbage Free Cities'. The National Campaign on Source Segregation has successfully engaged more than 30 lakh children from 50,000+ schools.

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Display of poster of 'National Source Segregation Campaign':

Showcasing of 'Swachhata Ke Do Uphaar' – Hara and Neela Bin was another theme within the SBM stall. As part of the 'Dry Waste' and 'Wet Waste' display, the Mission is committed to ensure the enhancement of Material Recovery Facilities, Waste to Electricity facilities, as well as Bio-Methanation and Window Composting facilities.



'Swachhata Ke Do Uphaar' – Hara and Neela Bin showcasing respective waste processing mechanisms.

SafaiMitra Suraksha & Samman Display showcased the progress and way forward to achieve SBM-U 2.0's goal of 'Manhole to Machinehole'. On the occasion of Azadi Ka Amrit Mahotsav, more than 550 cities declared themselves to be 'SafaiMitra Surakshit Sheher'. The Mission is committed to ensure that 100% cities in India become safe for sanitation workers by 2024.





SafaiMitra Suraksha & Samman Display



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The Central display showcased SBM-U 2.0's goal of creating 'Garbage Free Cities' by achieving the Lakshya of Zero Dumpsites by 2026. Display screens showcased dumpsite remediation work that is taking place in New Delhi, Noida, Chandigarh, and Ahmedabad. The central screen displays Indore's remediated dumpsite as shown here.

Another wall of the stall showcased 'Waste to Wealth' under SBM-U 2.0. The four items on display were made of waste material, thus showcasing the growth and innovation that is taking place in the sector to convert waste into useful items. The handbag on display is made from plastic waste, the scarf on display is made of chicken feathers, the toys are made of cigarette buds and other waste material as depicted below:





Display of quotes from PM Modi's monthly Mann Ki Baat episodes focusing on Swachhata was another item display. In the 90 +on that have been episodes recorded by the PM as part of his flagship 'Mann Ki Baat' series, numerous mentions have been made by him requesting citizens to maintain the cleanliness of their city, sharing best practices, as well as presenting new information on technologies, startups,

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and youth engagement in the field.

Pictorial representation of city-wide activities that took place as part of maiden edition of Indian Swachhata League was also shown in the exhibition. More than 1850+ city teams registered to be part of the first edition of ISL with more than 5 lakh citizens mobilizing to rally for garbage free hills, beaches, and tourist places.





Secretary, MoHUA along with JS (SBM) and other Ministry officials at the SBM-U 2.0 stall

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DAY-NULM

DAY-NULM Mission and PM SVANidhi scheme presented itself as one of highlights of the MoHUA exhibition, underlining the main features and achievements over the period of its implementation.



Hon'ble PM graced the exhibition on the inaugural day of IUHC 2022



DAY-NULM showcased a diverse range of initiatives which promotes and supports the livelihoods of urban poor through community empowerment, institution building by way of Self-Help Groups (SHGs), enterprise development for urban poor, livelihoods creation through skill development and promoting upskilling of construction workers under National Initiative for Promotion of Up-skilling of Nirman Workers (NIPUN). Key Partnerships fostered for implementation of these initiatives were also acknowledged. To further communicate the extent of the impact made by the scheme, audio-visual documentaries on mission's impact on urban homeless, micro-entrepreneurs, urban poor women, etc. were utilized. Special focus was given to the 'Sonchiraiya', the national brand provided by DAY-NULM, for hand-made products made by Self-Help Groups. Product samples were also exhibited.



Sonchiraiya Products on display

The exhibition provided a forum for various stakeholders to learn and discuss the work done by Government of India towards poverty alleviation. The attendees included officials of Central & State Governments, Industry leaders, Academicians, think tanks, etc.





Audio-visual screen for documentary & interactive screen for scheme performance dashboard.



PM SVANidhi exhibited the innovative scheme design, ease of access to finance and the growth journey of a street vendor under PM SVANidhi. For efficient communication of the scheme benefits and its impact, beneficiary testimonials and scheme details were displayed through audio-visual medium, along with a smart TV for navigating through the scheme performance dashboard. Partners, ambassadors and other stakeholders who have contributed to the success of the scheme were



acknowledged. The platform was also utilized for sharing a few glimpses of SVANidhi Mahotsav, the successful national event organized in July 2022 as a part of the AKAM celebrations. Further, **SVANidhi se Samriddhi** highlighted the unique model of providing a single-window access to social welfare schemes of GoI for street vendors and their families and has provided 30 lakh scheme benefits so far.





Smart City Mission

Under the category – 'Exhibition on transformative Urban Missions of MoHUA', the Smart Cities Mission designed a pavilion of 56ft x20ft, that demonstrated the diverse projects, initiatives and interventions of Smart Cities Mission.

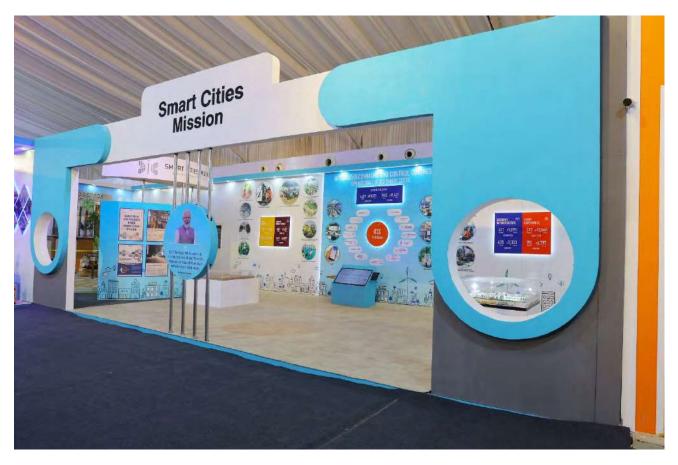


Figure 1: Smart Cities Pavilion

The exhibition space was divided into two portions:

- 1. Achievements of the smart cities mission, both overall and across various sectors under which projects are being implemented as a part of the smart cities mission in the country.
- 2. An experiential zone which explained the importance of safe and inclusive streets focusing on the Non-Motorized Transport (NMT)infrastructure.

The panels majorly focused on the snapshot of 8,000 projects that are getting implemented in 100 Smart Cities. All these panels were categorised under 7 diverse sectors:



- 1. Smart Mobility Highlighted the implementation of public transport, NMT infrastructure, cycle tracks and smart streets which currently account up to 901 projects worth ₹ 17,787 crores.
- Vibrant Public Spaces Projects like the Redevelopment of Gualua lake in Jabalpur, Mubarak Mandi Complex in Jammu, All Abilities Park in Vishakhapatnam and Vivekanand Memorial in Ajmer gave an insight on the achievements of 863 projects worth ₹ 5,611 crores; in terms of developing public breathable spaces in urban cities.
- 3. Economic Infrastructure The versatility of 471 projects worth ₹ 5,895 crores was showcased by skill development centres, incubations centres, vendor markets etc. Among the displayed were one of its kind in terms of their scale, concept and impact Chappan Dukaan in Indore and Design Studios for local handicrafts in Tirupati.
- Smart Governance Projects displayed technology driven governance in cities which included applications, VMDs, ICCCs and emergency call boxes to depict 372 projects worth ₹ 10,648 crores is being implemented across 100 smart cities.
- 5. Social Infrastructure Smart libraries in Bilaspur, Kolkata, Satna and health care centre in Agra represented 406 projects worth ₹ 2,300 crores completed in the sector.
- 6. Smart Energy showcased the implementation of 507 projects worth ₹ 10,134 crores which included installation of solar panels, LED streetlights and wind energy plants focusing on efficient utilisation of renewable sources of energy.
- WASH examples of water and sanitation projects like WTPs, STPs, public toilets and solid waste management were displayed projecting an idea of 861 such completed projects worth ₹ 28,046 crores being carried across the selected smart cities.

In addition to these panels, the central panel demonstrated various functions of – the Integrated Command and Control Centres (ICCC) with digital screen that displayed the footage of completed Smart Cities Mission projects Apart from this,8 key PPP projects were also displayed on a separate wall to showcase the success story of Public Private Partnership for the implementation of various urban projects.

The pavilion also exhibited physical models of projects that are being developed under the smart cities mission. Mahakaleshwar temple redevelopment – Ujjain, Land Monetisation Model – Bhopal and Rajkot Smart City (Greenfield Area Development) – Rajkot; had been displayed as representatives of a few massive projects ongoing in the country.



Furthermore, the pavilion also had a 400 sq. ft area of micro experiential zone, that demonstrated a healthy neighbourhood with safe and inclusive public space. The exhibit displayed a street intersection with a plaza for people to socialize. Micro parklets and porous surfaces were incorporated to showcase the climate -responsive initiatives by Smart Cities Mission. The exhibition space also demonstrated Neighbourhood streets with designated cycle lanes and colourful plazas as pause points.

The snapshots of the SCM Pavilion is shown below:



Figure 1: Experiential Zone as Part of The Pavilion





Fig.1: Statistics showing completed and ongoing projects for Smart Mobility and Vibrant Public Spaces





Fig.2: Statistics showing Mission progress and components of Integrated Command and Control Centers (ICCC)



Fig.: Explaining placemaking to Sh. D.S Mishra, Chief Secretary, Uttar Pradesh during his visit to Smart Cities Mission panel at IUHC, Rajkot (September 2022)





Fig.3: Statistics showing completed and ongoing projects for Economic Infrastructure and Smart Governance





Fig. 12: Explaining ABD model of Rajkot to Sh. Gautam Sardana, Mayor, Hissar, Haryana



Fig.12: Explaining ABD model of Rajkot to Sh. Gautam Sardana, Mayor, Hissar, Haryana





Fig.13: With Principal Secretary of Madhya Pradesh



Fig. 15: Students Visit to Smart Cities Panel



AMRUT 2.0

AMRUT: Exhibition Stall Highlights

The stall of Atal Mission for Rejuvenation & Urban Transformation 2.0 (AMRUT 2.0) comprised of:

- AMRUT achievements in Gujarat
- AMRUT achievements throughout the country
- AMRUT 2.0 features Creating Water Secure India
- Startups: Our Young Partners;
- Pey Jal Survekshan 2022
- Water Bodies rejuvenation (UWAIS)
- Physical models of key lighthouse AMRUT projects / themes.

1. AMRUT achievements in Gujarat

• Depicting progress on significant projects completed under water supply, sewerage & reuse in cities around the State.

2. AMRUT achievements throughout the country

• Showcasing progress made so far with outcomes achieved in major thrust areas of AMRUT i.e. water supply, sewerage, storm water drainage, non-motorised urban transport & parks – green spaces development.

3. AMRUT 2.0 features & progress made so far

• Showcasing salient features of AMRUT 2.0 for creating 'Water Secure India' through achieving final goal of Drink from Tap, importance of used water as valuable resource, creating new tap through reuse of treated used water & rejuvenation of water bodies & streams, & highlights on projects approved so far.

4. Startups: Our Young Partners

• Highlighting the promotion of innovative environment friendly technologies in water sector under AMRUT 2.0 with targets to bridge the gap between innovators/manufacturers and users. Details about "City Start-up



Partnership summit for Water Security" & linkage of start-ups with cities also depicted.

5. Pey Jal Survekshan 2022

• Survey being carried out to assess parameters such as Water & sewerage infrastructure, status of water bodies, non-revenue water & best practices & innovation in 500 AMRUT cities was portrayed.

6. Water Bodies rejuvenation (UWAIS)

• Showcasing how MoHUA is using advanced Urban Water Body Information System (UWaIS) application by engaging National Remote Sensing Centre (NRSC, ISRO) providing overview of water bodies & water spread dynamics of each water body, Land Use Land Cover (LULC) dynamics around water bodies & enabling ULBs to prioritise and select water bodies for rejuvenation.



Exhibition displays





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Models displayed

- 1. Making STP operation self-sustaining through solar power in Gujarat
- 2. 24x7 Water Supply Scheme under Smart City Mission, Surat
- 3. Model depicting water secure Chennai
- 4. TTRO implementation in Chennai
- 5. Rain Water Harvesting System in Kerala
- 6. Sea water as a source in coastal city of Chennai
- 7. Storm water drainage in Guruvayur, Kerala
- 8. Development plan for George Town in Chennai

7. Physical models of key lighthouse AMRUT projects / themes.

• Making STP operation self-sustaining through solar power in Gujarat

- Solar Projects have been introduced at various locations (at STPs) in the ULBs of Gujarat & GUDC has been designated as the nodal agency by the State Government for implementation of solar projects.
- This is to reduce energy consumption & saving costs.

• 24x7 Water Supply Scheme under Smart City Mission, Surat

- Up-gradation of existing water supply system to 24x7 water supply.
- Smart Metering for meter reading/ billing remotely
- To reduce NRW up to 15% due to known quantum of unaccounted water.
- Advance online water quality monitoring and on site testing by mobile testing van.
- Zero Liquid Discharge WTP Recycling of backwash water received during treatment process in Water treatment plant.
- Rainwater recharging to uplift the existing ground water table in the area.
- Water Conservation through IEC Activities for Awareness in Citizens.

• Model depicting water secure Chennai & Sea water as a source in coastal city of Chennai

• The city of Chennai is a well-known metropolitan city on the eastern coast of India with a population of over 6 million. Chennai has a flat topography and is a coastal city. There are no perennial rivers nearby. The average rainfall is



about 1200 mm major part of which occurs during the northeast monsoon between September to December.

- Chennai city's water requirement stands at 1345 MLD, a figure that will scale to 1605 MLD by 2031. Currently Chennai gets 970 MLD water from five lakes, ground water and two desalination plants in addition to Telugu-Ganga Project Considering the gap between the demand and the availability, CMWSSB has evolved a water conservation strategy.
- As a measure to enhance the city's drought resilience, an additional 150 MLD desalination plant is being implemented under AMRUT. Another plant with a capacity of 400 MLD will also be commissioned soon. These desal plants together can produce over 750 MLD of water.

• TTRO implementation in Chennai

- Need for the plant: 600 MLD sewage generated treated in 12 STPs & disposed into the nearby water courses.
- Objective: Recycling & reuse of wastewater & selling to nearby industries
- CMWSSB has set up two TTRO plants of 45 MLD each Kodungaiyur TTRO Plant with 28.50 km pipeline & Koyambedu TTRO plant with 70 km pipeline
- Key benefits: Revenue & employment generation, helped CMWSSB to take up capital works & subsidise water supply, industries are getting water at lower rates than the municipal water or desalinated water.

• Rainwater Harvesting System in Kerala

• It shows a government school and a house with open well for drinking water. Actual rain is simulated to fall on the roofs and this water is collected through pipes, filtered and fed into the well for recharging. Water in the yard is also collected and fed into the well. Model has a small motor to help in showing rainfall and provided with led lights.

• Storm water drainage in Guruvayur, Kerala

• It demonstrates Guruvayur temple, inner ring road with footpath and ornamental street lighting, along with drains under the footpath and peripheral ponds renovated for water rejuvenation.



Model displays



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EXHIBITION: Transforming Urban Landscape in Gujarat





An exhibition to showcase the performance of Gujarat under the Flagship Urban Missions with the theme of *Gujarat: Transforming Urban Landscape* showcasing the achievements of the State Government by various departments under the Missions and Schemes such as PMAY (U), PM SVANidhi, NULM, AMRUT (U), SBM, Smart Cities Mission etc.





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1. DAY-NULM and PM SVANidhi in Gujarat







One of the stalls depicted State's initiative under NULM and PM SVANidhi such as organizing digital training and Loan Mela, Street Food Festival, cultural activities and fun festival for street venders and their families, exhibition for sale of SHG products etc. PM-SVANidhi provides affordable loan to the street vendors who lost their livelihood due to COVID-19 and wanted to resume their livelihood. So far, under PM-SVANidhi, 2,55,438 street vendors in Gujarat have availed loans amounting to ₹290 crore. The State has completed profiling of 1.83 lakh beneficiaries of the Scheme for eligibility check to avail benefit of other government schemes. As a result, 59,000 street vendors have availed benefits of 8 schemes of the Government. The larger objective of DAY-NULM is to reduce poverty and vulnerability of the urban poor households by enabling them to access self-employment and skilled wage employment opportunities, resulting in an appreciable improvement in their livelihoods on a sustainable basis, through building strong grassroots level institutions of the poor.

Showcasing achievements under Social Mobilization and Institutional Development component of DAY-NULM the State of Gujarat depicted that more than 34,343 SHGs have been formed. About 27418 SHGs have been assisted with revolving fund amounting to 27 crores and 12085 SHGs have been linked with the Banks.





Self-Employment Program (SEP)



Under Self-Employment Program (SEP) of DAY-NULM the State showed that a total 20,789 individuals have been given Loans of \gtrless 201.15 crores to set up their businesses with total interest subvention of \gtrless 10.0 crores as per the provision where interest subvention over and above 7% rate of interest is provided.



Under *Shelter for Homeless* component, out of total 99 shelter approved, with the cost of ₹ 302.36 crores having capacity of 16,111 persons a total of 63 shelters are operational with capacity of 7,235 in the State as depicted in the above figure displayed in the stall.

Similarly, under Employment through Skill Training and Placement (EST&P) component of the Scheme, the State of Gujarat showcased that skill training have been given to total 1,20,152 beneficiaries. In addition, Self & wage employment have been given to 47,440 beneficiaries.





The State also organized *Sneh Milan* for street vendors and their families with cultural and musical programme in the evening followed by dinner. Programs have been organized on 25th September in all Municipal Corporations. Approximately 5200 Street vendors have participated with their families in 8 Municipal Corporations.



1. Achievements under Swachh Bharat-Urban in Gujarat

Another stall depicted the initiatives and achievements of the State under **Swachh Bharat Mission- Urban.** It showed that the urban area of Gujarat is generating approx. **10,069 TPD of waste** and processing about **8556 TPD (86%).**



As we are aware, the Solid Waste Management has four major components: Collection, Transportation, Processing and Disposal. In Gujarat, all 1381 wards across 164 ULBs has achieved Collection and Transportation. (100%). 1309 Wards have achieved source segregation of wastes. Remaining 72 Wards have achieved >50% source segregation of waste.

Under **Swachh Sarvekshan 2022 Awards,** Surat City was awarded as **2nd cleanest city in India,** felicitated by Her Excellency the President of India. On the similar lines, Ahmedabad City received Cleanest City Award in the category of cities having more than 40 lakhs population. **Rajkot City a**warded with Self Sustainable Big City.



Under **Garbage Free City Star Rating Awards**, Surat Municipal Corporation received 5-star ranking and Ahmedabad, Vadodara and Jamnagar got 3-star ranking.



The stall also highlighted progress made in construction of toilets. As per the States, a total of 5,60,046 individual toilets have been constructed in the Urban local bodies of Gujarat. In addition, a total of 1,873 Community Shared Toilets seats and 11,787 Public Toilets seats have been constructed.

In line with focus of "Swachh Bharat Mission" (SBM) to achieve Open Defecation Free cities Gujarat as one of the pioneer states of India who has been declared as 100% ODF which includes all the 8 Municipal Corporations & 156 Municipalities was also depicted in the stall. In addition, declaration of Surat as Water Plus city and certification of ODF++ to 134 cities and 159 ULBs as ODF+ was also showcased.



3. Pradhan Mantri Awas Yojana-Urban in Gujarat

There was a dedicated stall of PMAY(U) showcasing implementation of the Scheme in the State. It showed the progress under each vertical with the focus on features of ISSR and AHP verticals. Winning the PMAY(U) awards 2021 for best performer State under CLSS and ARHCs was also displayed.



4. Metro Rail in Gujarat



Gujarat Pavilion also had a stall on Metro Rail depicting:

Ahmedabad Phase-I Project: The 40.03 km long Ahmedabad Metro Rail Project Phase I comprises of two corridors and has a total of 32 stations out of which 28 stations



are elevated and 4 stations are underground. Total Elevated Corridor is 33.53 km in which East-West corridor is 20.91 km long which includes both 14.40 km elevated and 6.6 km of underground section whereas North-South corridor is 19.12 km long and comprises elevated section. Ahmedabad Metro Rail Project Phase-1 was inaugurated by Hon'ble Prime Minister Shri Narendra Modi on 30th September 2022 of 32.1 km and 23 stations.

Ahmedabad Phase-II Project: In the state of Gujarat, besides this Ahmedabad Metro Rail Project Phase-1, work is undergoing on for Ahmedabad Metro Rail Project Phase-2 comprising of 28 kms of Metro Network and 22 stations connecting Gandhinagar and has a total completion cost of Rs. 5384.17 Cr.

Surat Metro Rail Project: Further, work is going on for Surat Metro Rail Project comprising 40.38 kms having 38 stations with a total completion cost of Rs. 12020.32 Cr. Thus, Gujarat will be amongst the front runner state in terms of availability of metro network.







5. Rajkot Municipal Corporation

Apart from stall depicting State progress in each of the urban Schemes, there were stalls of Municipal Corporations of the State of Gujarat showcasing their special projects.

Following items were displayed in dedicated Rajkot Municipal Corporation stall:

- Urban Forest Cultural Forest Ramvan : It displayed latest Green Project with a cost of ₹ 12.53 crores. Sculptures based on life events of Lord Sri Rama, Gazebo, Children's Park, Amphitheater, Special Benches.
- Lake Regeneration: It included Atal Sarovar, Lake-1 Urban Forest and Lake-2 Urban Forest
- Climate Resilient Cities Action Plan of Rajkot City.
- Public Transport: 150 e-buses deployed and 41 already been in operationalized and 14 (180 kW each) DC Fast Chargers.
- Integration of Renewable Energy: > 1 MW solar energy in municipal services and implementation of 4 MW Captive Solar Plant
- Few awards won by RMC that included National Winner for One Planet City Challenge (OPCC) for 4 consecutive years and First City in South Asia to Receive Compliance Badge from Global Covenant of Mayors (GCoM) was also showcased.



6. Surat Municipal Corporation



Surat Municipal Corporation (SMC) had also a dedicated stall. It showcased following items:

- *'Pandit Dindayal Upadhyay' cable stay bridge:* The work of installation of Structural Health Monitoring System and Lighting System on "Pandit Dindayal Upadhyay" Cable Stay Bridge connecting Athwalines to Adajan area over Tapi River.
- *Biodiversity Park Project:* "Wild Valley Biodiversity Park" is to be developed with an area of about 87 hectares, adjacent to Kankara creek from Dr. Hedgewar Bridge to Bhimrad- Bamroli Bridge in Surat Municipal Corporation area. A 9 km long cycle track, 13 km long walking trail and a total 85 types of around 6 lakh native trees and shrubs will be planted under the proposed 3.5 km long park. The total project cost of this park is ₹139.15 crore.
- Anuvrat Dwar Canal Corridor from Anuvratdwar to Jamnaba Park: The canal corridor development projects with the development of 60 mt. wide and 3.00 km long canal corridor from Anuvrat Dwar junction to Jamnaba park in South-West Zone in the city.



- Use of Renewable energy in Municipal Services: 6 nos. of 4.85 MWe capacity biogas-based power plants had been commissioned at various sewage treatment plants till date.
- *Historical Fort of Surat:* Historical Fort of Surat is expected to open a new dimension for City's visitors.
- Surat Urban Observatory and Emergency Response Center: To monitor various services like Public Transport covering BRTS, City Buses, Traffic Junction Monitoring etc. and other Municipal Services. Emergency Response Center has been built at Breadliner Circle on Udhna Magdalla Road.
- *VIP Road Developed from Khatu Shyam temple to L&T Colony:* The road stretch of 4.85 km length. This was redesigned with 3 lane main carriageway, 3.5 meters wide side median, 6.0-meter-wide service road and a 2.5 meters Footpath, totaling to 22.5 meters on each side. Space for approximate 600 4-wheelers and 2500 2-wheelers have been provided which has made the main carriageway and service roads free from on-street parking and has enhanced smooth vehicular flow. The total road project was completed within 15 months on date 15/02/2019 with a project cost of ₹23.16 Crores





7. Ahmedabad Municipal Corporation

Ahmedabad Municipal Coriporation showcased following items:

Riverfront: The average width of the river channel was 382 metres (1,253 ft) and the narrowest cross-section was 330 metres (1,080 ft). It is uniformly narrowed to 263 metres (863 ft) without affecting its flood carrying capacity and the riverbed land is reclaimed on both east and west banks to construct 11.25 kilometres (6.99 mi) long riverfront. It can hold 470,000 cu ft/s (13,000 m3/s) without spillage. The total of 202.79 hectares (501.1 acres) of land is reclaimed. The Phase 2 of the project proposed an extension of the riverfront towards north, 5.4-km on east side and 4.3-km on west side. It also proposed 180 high-rise residential buildings as well as commercial buildings on the reclaimed land.

Atal Bridge: Atal Pedestrian Bridge is a pedestrian truss bridge at Sabarmati Riverfront in Ahmedabad. It has a design inspired by kites. Inaugurated in 2022, it is 300 metres (980 ft) long and 10 metres (33 ft) to 14 metres (46 ft) wide.



8. Vadodara Municipal Corporation

Following items were highlighted by Vadodra Municipal Corporation:



Pradhan Mantri Awas Yojana (PMAY): 400 EWS-2 housing units with Project is Rs. 28.79 Cr. located at Harni.

Health Management Information System (HMIS): Implementing a Health system at all 34 urban primary Health centers.

Roof Top Solar Power Plant: Total cost of project is ₹11.16 crore which includes 20 years of operational expenditure.

Automatic Land Encroachment Prevention System: Encroachment officers are informed about the violation and it is sent via SMS with photo evidence to clear the plot.

Remediation of Legacy Waste dump Site – Atladara: 17-acre precious land has been reclaimed by this project.

Waste Management: 3.75 lacs MT legacy waste has been disposed off by bioremediation method under Swachh Bharat Mission as per solid waste rules-2016.

Water SCADA Phase-1 Project: Project Cost: Rs. 27.16 Cr. (Including 5 Years O&M). 8 *MLD Rajivnagar STP*: With the capacity of 78 MLD having 1400mm dia pipes, pumping station, inlet chamber, Strom Water Drain etc.

9. Jamnagar Municipal Corporation

Jamnagar Muncipal Corporation showcased the *waste to energy plant* in its stall with its salient details as mentioned below:

Project Developer	Abellon Clean Energy Ltd.
Technology	RDF Based Incineration
Concession Period	20 Years After commissioning
Location	Adjacent to Gandhinagar STP
MSW Allocation (JMC's responsibility)	250 TPD
Additional Waste (Project Developer's Responsibility)	200 TPD
Energy Production	7.5 MW
Allocated Land	17 Acres
Invested Amount from Abellon Clean Energy LTD.	Approx Rs. 90 Crores
Invested Amount from JMC	0.00
Present Condition	Operational

Commissioning Date	November – 2021
Royalty Income to JMC	150 Lakhs within first 10 to15 years
	50 Lakhs between 15 to 20 years

URBAN HOUSING CONCLAVE BLIKT, GUARAT







EXHBITION: Innovative construction Technologies





Since inception of GHTC-India in 2019 and IHTM in 2021, various other innovative construction technologies, materials and processes may have been developed through research and development by various stakeholders across the world which may also be included for further adoption and mainstreaming in the domestic context.

Further, there is tremendous scope and interest among Innovators, Start-ups, Entrepreneurs, and Small & Medium Developers on use of Innovative and Alternate Construction Systems, Materials, Components and Processes for housing construction who may also be called on to showcase their products for cross learning and adoption.

Therefore, in order to widen the horizon and to bring technology transition in the construction sector for sustainable development, a common platform was created in IUHC. The exhibition titled "National Exhibition on Innovative Construction Technologies". The exhibition provided stakeholders a venue to demonstrate their technologies as well as deliberate upon various options of technologies, materials and processes for large scale adoption and mainstreaming in different type of housing construction suited to different Geo-climatic regions of the country.

The exhibition at IUHC had following two segments:

a) National Exhibition on Innovative construction practices:

An exhibition on Innovative building materials, Construction Technologies & processes including Affordable Housing were set up where Global and Domestic exhibitors showcased the prototype models on new and innovative construction technologies/materials. Technology providers from across the globe, domestic indigenous technologies, potential future technologies (start-ups) from the country were invited through a simple online screening process. A Technical Evaluation Committee (TEC) constituted for GHTC-India evaluated and assessed their suitability in Indian context. Concerned stakeholders eg. R&D Institutions, Academia, Students of technical institutes, Engineers, Architects, Government agencies including State PWDs, Housing Boards, Developers, Entrepreneurs, Private entities, Foreign collaborators etc. were also invited to participate in the event.

b) Exhibition on best practices adopted by States/UTs under PMAY-U including Gujarat:

The implementation structure of the Mission promotes cooperative federalism. The States/UTs have innovated their implementation structure as per the local context such as adopting innovative construction practices, convergence of PMAY(U) with other housing, livelihood programs, providing housing to special groups, etc. The exhibition showcased the efforts of States/UTs in the successful implementation of PMAY(U).



Exhibition on Construction Technologies

Description	No of Agencies	No of Stalls
Technologies	54	93
Financial Institutions	10	14
States' Department	14	20
Others	10	15
Total	88	151

There were 151 stalls. The breakup of the booked stalls is as follows:

Hon'ble Prime Minister visited the Exhibition and viewed the stalls exhibiting innovating materials and technologies and States initiatives.

54 Agencies/ Companies / Organizations with Proven and Potential technologies and 34 other agencies including research institutions, financial institutions, State Governments, etc. booked the available stalls.

In the Exhibition, construction technology providers covering different innovative materials, components, systems that could be used in building construction and planning were exhibited in 93 stalls. Construction Agencies undertaking the construction of the six Light House Projects (LHP) were also exhibits. These stalls through the medium of models, prototypes of the ongoing & completed projects displayed innovative and indigenous construction technologies.

Overall, the Exhibition showcased wide range of materials, components and technologies such as steel building solutions using MS Steel Tubes and plates, 3D concrete construction technology, large panel system, light weight drywall technology, voided slab system, cement bonded particle boards, bamboo wood, prefabricated cement sandwich panels, EPS core panel system, light gauge steel structural system of different forms.

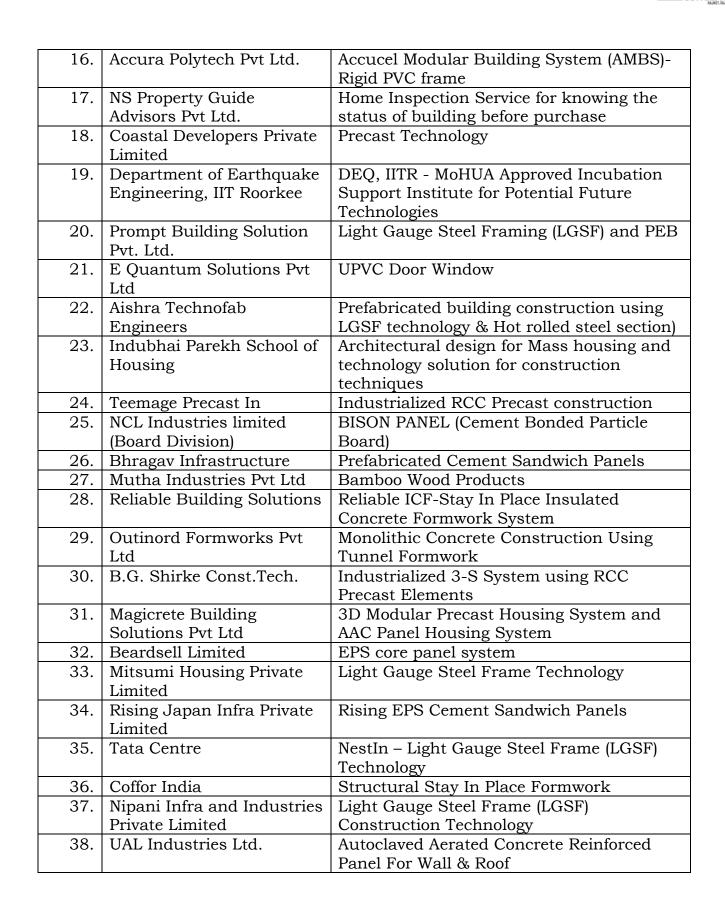
Some innovating environment friendly and energy saving materials and components such as bamboo corrugated sheets and ridge cap for roofing, heat reflective high SRI paints for insulation and Energy efficient solutions, Spanocrete – admixture for concrete for durability, construction & demolition wastes were also part of the exhibition.

Software solutions like Vertex BD – complete solution for Modular & Prefab structures and home inspection system attracted attentions of visitors for their innovative approaches. Many of the materials, components, technologies have great potential to be used across the country in planning and construction of not only affordable housing but also buildings at large. Exhibitors through display of their technologies, materials, components provided a glimpse of the new ways of transforming the affordable sector leading towards Atma Nirbhar Bharat.



During the period of Exhibition, the Technical Evaluation Committee constituted at MoHUA interacted with Technology Provider agencies of Proven as well as Potential Technologies to evaluate the technologies/ Components / materials/ machineries for their present status of development/ market and their suitability and adaptability in different geographical and climatic conditions of the country. List of Agencies and associated technology is as given below:

List of Technology Providers			
S. No	Agencies	Technology/Product/System/Componen ts / software	
1.	RAM CADDSYS	Vertex BD- Complete Software Solution for Modular & Pre-fab Structure	
2.	Panache Green	Heat reflective High SRI Paints- for Insulation and Energy Efficiency Solutions	
3.	APL Apollo Tubes Ltd.	Steel Building Solutions -MS Steel Tubes and Plates)	
4.	Nanospan India Pvt Ltd	(Spanocrete- Nano Engineered Graphine Additive to Concrete for enhanced durability	
5.	Larsen & Toubro	i. 3D Concrete Printing Technologyii. Precast Technologyiii. B&F FAST Construction Technology	
6.	CDE Asia Limited	C& D recycling waste technology	
7.	Saint Gobain India Pvt Ltd	Light Weight Drywall Technology	
8.	Thakur College of Engineering and Technology	Z-Power (Zinc Nano particles for enhancing quality and durability of concrete	
9.	Tri-OM Adaptive Solutions Pvt. Ltd.	DNA-D Construction Technology	
10.	RMI-India foundation	Thermal comfortable energy efficient solutions	
11.	Apple Chemie India Pvt. Ltd.	Prefab Solution- construction Chemical for Ready mix concrete, precast concrete, tunneling, pavement quality concrete	
12.	Selco Foundation	Housing for Migrant, Displaced and Climate Vulnerable Communities - Design & Implementation	
13.	Indian Institute of Technology Madras	3D Precast Prefinished Volumetric Construction Technology - 3D PPVC	
14.	Ferrobuild Design Systems	Ferrobuild Design Systems (Light Gauge Steel structure and ferro cement panels)	
15.	Ensimulated Solutions	Voided Slab System	



URBAN HOUSING



39.	Timpoolz Drivoto I td	Pember Mat Corrugated Peofing Sheet &
39.	Timpack Private Ltd.	Bamboo Mat Corrugated Roofing Sheet &
		Ridge Cap for Roofing and Bamboo Mat
10		Wall Panels
40.	Ultra Tech Cement Ltd.	3D Monolithic Modular Precast
		Construction System
41.	Novel Assembler Pvt. Ltd.	Stay in Place PVC Formwork
42.	Tvasta Manufacturing Solutions Pvt. Ltd.	Construction 3D Printing
43.	Humengi Gohemp	Carbon Negative Concrete Mix using
	P	Industrial & Agricultural wastes with
		Interlocking masonry system
44.	Department of	Affordable housing using Bamboo
	Architecture and regional	Amoraable nousing using Damboo
	Planning & Department of	
	Civil engineering, IIT	
	Kharagpur	
45.	N M Roof Designers	Low-Cost Precast Housing / Mass Housing
46.	State Industries Promotion	Monolithic Construction Technology
т0.	Corporation of Tamil Nadu	Monontine Construction reenhology
	(SIPCOT)	
47.	Malani Construction Co.	Modular Tunnel Formwork System
48.	Advanced Contractors & Engineers Pvt Ltd.	Conventional & Innovative Technology
49.	Step-up Building Solutions	(Ferron Panels) - Light Gauge Steel
	Pvt Ltd.	Fabrication related materials Ferron
		Boards, Steel Windows, PVC Doors)
50.	JAM Sustainable Housing	Stay in place form work system with PEB
	LLP	structure)
51.	M/s SPR Construction Pvt.	Monolithic concrete construction and PVC
	Ltd.	Wall form system
52.	Vidiyal Residency Private	Pre-cast Technology
	Ltd.	
53.	Matharoo Constructions	Integrated Hybrid Solutions- using cost
		effective technologies
54.	Sivaani Infra	Monolithic Construction/ Mivan
- •		Technology, POD BEDS

The details/ glimpses of stalls put up by 54 exhibitors on innovative technologies/processes and materials are highlighted below:

1. Teemage Precast

System/product – It is primarily an industrialized RCC precast construction system. The Agency is into design & construction of building structures with RCC



precast components comprises of beams, columns, staircase, slab, hollow core slab etc. These components are manufactured in the plant and subsequently erected on the construction site.





2. RAM CADDSYS

System/product: It is a complete software solution covering all aspect from detailing to the manufacturing of cold-formed steel & wood/timber structures. It is based on professional BIM Software that automates the design and manufacturing processes. The solution automates generation of accurate architectural drawings sets, panel fabrication drawings, structural layouts, cut lists, material reports, and manufacturing data, all from the BIM model.





3. NCL PEARL

System/product – The stall exhibited Bison Panel (Cement Bonded Particle Board) for external and internal wall. Bison Panel is cement bonded particle board made out of about 62% of cement & 28% of wood and 10% of non-hazardous chemicals and water. The wood used belongs to fast-growing species like Eucalyptus/ Poplar, waste of wood logs etc. As the wood particles in the board are mineralized with chemicals during the manufacturing process, the particles become termite & vermin resistant. These panels are available in thickness of 6mm to 40mm, used for various internal and external applications. Due to adoption of a special manufacturing process, the panel acquires the strength & durability of cement, & the easy workability of wood - a combination of qualities absents in other boards. Cement is strong & durable and is not affected by fire, weather, termites, etc. Wood is light, strong and is easily workable.





4. Bharagav Infrastructure

System/product - Bhargav Infrastructure Pvt. Ltd., established in 2009 is into manufacturing of light weight wall panels. These panels are lightweight solid core sandwich panels made of 5mm non asbestos fiber cement boards on both sides as facing sheets and the core material of expanded polystyrene beads, admixture, cement, sand, fly ash and other binding materials in mortar form. The ready to install panels are user friendly alternate to conventional walls. The dimension of panel is 3000mmX610mm-60mm/ 75mm/ 90mm. It is primarily non-load bearing walling panels, which is used in the construction of houses/buildings etc.





5. Panache Green

System/product – The product is primarily a heat reflective high SRI paints- for insulation and energy efficiency solutions. The solution uses IR Reflective technology which reflects the heat-generating IR (Infrared) component from the sun rays off the roofs and walls, which otherwise would have penetrated into the houses and gotten trapped making excess AC usage during peak summers. The High SRI Paints substantially reduces surface and ambient temperatures. Reduction in energy consumption by ACs has positive impact on the environment along with reduced UHI impacts, giving cool buildings without ACs.





6. Mutha Industries Pvt Ltd

System/product (Bamboo Wood Products): Mutha Industries Pvt. Ltd. is manufacturer of bamboo wood products under the brand name of EPITOME. The various EPITOME - Bamboo wood products are flooring panels, decking panels, wall panels, ceiling, claddings, furniture, poles, doors & windows including bamboo wood structures. These bamboo wood products are made from Strand woven bamboo which is an eco-friendly product made from plantation timber bamboo. The bamboo wood can also be converted in the form of bamboo lumber which can be used as structural member as an alternate to RCC or steel girders.





7. RELIABLE Building Solutions

System/product (Reliable ICF-Stay in Place Insulated Concrete Formwork System): The agency is into design & manufacturing of Insulating Concrete Forms (ICF) System, comprising of a panel of two walls of expandable Polystyrene (EPS) separated by a nominal distance of 150 mm by hard plastic ties. These are assembled on site to hold reinforced concrete. The forms are open ended hollow polystyrene blocks which fit tightly together to form a shuttering system. Concrete is then poured into the hollow space to form a continuous wall. Upper and lower surfaces of the polystyrene panels are castellated and the vertical mating surfaces are tongue-and-groove to form a tight fit when joined together. The rigid formwork does not require supporting formwork. The inner surfaces have tapered grooves running vertically and have offset on opposite faces to ensure uniform concrete thickness. It also forms locks for end stops. The outer surfaces are grooved vertically at 50mm centers to aid cutting and trimming.





8. Outinord Formworks Pvt. Ltd.

System/product- The product is Monolithic Concrete Construction using Tunnel Formwork. Outinord is the leading designer & manufacturer of steel formwork for cast-in-situ concrete construction. The agency pioneered "Tunnel form" construction technology - a cast-in-situ RCC system, based on the use of high-precision, re-usable, room-sized, steel forms or moulds. It is based on two half shells which are placed together to form a room or cell. Several cells make an apartment. With tunnel forms, walls and slab are casted in a single day. Typically, it is used for the fast-track and cost-effective construction of high-rise apartments, affordable and mid-cost housing, villas, hotels, hostel, and jail also.





9. Malani Construction Co.

System/product (Modular Tunnel Formwork System): The agency has used Tunnel Formwork System (customized engineering formwork) provided by Outinord Private Ltd. for the construction of 1144 DUs in Stilt+13 storeys in Light House Project at Rajkot.





10. B. G. Shirke Construction Technology Pvt. Ltd.,

System/product (Industrialized 3-S System using RCC Precast Elements): The Agency is into design & construction of building structures using '3-S' Prefab Technology/ Pre-cast Concrete Structural components comprising of pre-cast column, beam, precast concrete / light weight slab, AAC blocks/ infill concrete walls etc. Structural members are cast in the factory and assembled at the site. 3S system incorporates precast dense reinforced cement concrete hollow core columns, structural RCC shear walls, beams, stairs, Precast RCC slabs, lintels, parapets etc. All the structural components are pre-engineered and manufactured in factories / site factories with objective of quality control, resulting into dimensional accuracy, correctness in spacing of reinforcement, uniform protective cover, full maturity of components and assurance on design strength due to use of design mix concrete, having minimal water cement ratio which ultimately results into durable structure.







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12. Magicrete

System/product (3D Modular Precast Housing System and AAC Panel Housing System): The Agency is into design & execution of two systems, namely, Magicrete Housing System and 3D Modular Precast (for high rises). The architectural layout of the building is divided into repetitive modules, called PODs, and are casted and finished in the factory under strict quality control and then brought to the construction site for installation. MagicLite AAC Wall Panels are reinforced with corrosion-protected steel, making it a lightweight yet heavy-duty product. The panels have close air pockets that result into excellent sound insulation. They come in full height lengths (from floor to ceiling) with varied thicknesses and are 600 mm wide. The reinforcement in the panels provides additional flexural strength to the product.





14. Beardsell Limited

System/product (Quick Build Panels/ STILLWALLZ): The Agency is into manufacturing of STILLWALLZ, a pre-engineered panel consisting of an insulated polystyrene core sandwiched between two layers of galvanized steel mesh that are held together with steel trusses. The application includes exterior/interior walls, retaining walls, boundary walls, parapet walls etc. It can be used as a load bearing wall including slab upto G+2 structures. It can also be used for Domes, Elevation works and Pyramid Structures with ease.





15. Mitsumi Housing Pvt. Ltd

System/product (Light Gauge Steel Frame Technology): The agency is into design & construction of building using Cold Formed Light Gauge Steel Frame (LGSF) hybrid with pre-engineered steel (as per design requirement) as structural member with various options of walling (cement fiber board, concrete panels etc. with insulating material as core) and flooring (in-situ concrete on deck sheet etc.)





16. Advanced Contractors & Engineers Pvt. Ltd.

System/product (Conventional & Innovative Technology): The agency is presently executing a Demonstration Housing Project (DHP) under PMAY (Urban) at Jammu, using Reinforced Expanded Polystyrene Sheet (EPS) system with both sides as concrete.





17. KPR Projection Pvt. Ltd.

System/product: The agency is technology provider of Rising EPS Cement Sandwich Panels, a lightweight composite wall, floor, and roof sandwich panels made of thin fiber cement/calcium silicate board as face-covered boards with a core of EPS granule balls, adhesive, cement, sand, fly ash as core material, pushed under pressure into pre-set moulds. Once set, it shall be moved for curing and ready for use with RCC or steel support structure beams and pillars. These panels are primarily used as walling materials but can also be used as floor and roof panels. These are non-load bearing panels to be used with structural support frame only.





18. Tata Centre

System/product (Nest In-Light Gauge Steel Frame Technology): Nest-In strives to provide complete turnkey solutions with unique customer experience at its core. Offering a wide range of prefabricated solutions for industrial infrastructure, housing, sanitation, portable cabins and lifestyle solutions. Nest-In today serves over 26 States in India and helps create a better life for millions of Indians. Nest-In stands out due to the key benefits offering high speed construction, modernity of construction solutions, hassle-free experience for customers etc.





19. Step-up Building Solutions Pvt. Ltd.

System/product – The agency is manufacturer of Ferron Panels/ Boards, Supplier of Steel Windows, PVC Doors & Windows. It is presently executing a Demonstration Housing Project under PMAY (Urban) at Ayodhya, UP, using Light Gauge steel frame system.





20. JAM Sustainable Housing LLP

System/product: The agency is constructing the Light House Project at Lucknow, using Stay-in-place formwork system with PEB structure with 1040 DUs in Stilt+13 storeys. The structural steel is being used as framing element (Columns & beams), PVC Wall form as walling component & deck sheet with in-situ concrete as slab element.





21. APL Apollo Tubes Ltd.

System/product: (Steel Building Solutions -MS Steel Tubes and Plates): The agency is into design & fabrication of pre-engineered building structures using square and rectangular hollow steel sections which reduces the overall time of construction, cost and improves the overall quality apart from being environment friendly.





22. Nanospan India Pvt. Ltd.

System/product: The agency produces 'Spanocrete' which is a nano-engineered graphene acting as an additive for concrete to bring extended durability to concrete structures. It is a single additive that replaces most of the existing ala-carte chemical admixtures/agents.





23. Coffor India, Chandan Metal Compound

System/product - Structural Stay in Place Formwork. The Agency is into Design & manufacture of a patented structural stay in place formwork system known as 'Coffor' to build load bearing monolithic concrete wall structures based on shear wall concept. The formwork system comprises of two filtering grids made of rib mesh reinforced by vertical stiffeners called 'C' channel. The grids are connected by reinforcing bars which act as horizontal stiffeners and connector which act as a shear link. The grids on both faces act as sacrificial formwork in which concrete is poured in-situ. The vertical steel channels and horizontal steel bars act as steel reinforcement for load bearing wall.





24. Nipani Infra and Industries Private Limited

System/product - Light Gauge Steel Frame (LGSF) Construction Technology, designing, providing, installing, and fixing factory finished custom designed cold form Light Gauge Steel Framed super structure comprising of steel wall panel, trusses, purlins etc.





25. Larsen & Toubro

System/product – The stall showcased projects of the following three technologies:

- a. 3D Concrete Printing Technology
- b. Precast Technology Components assembled at Site
- c. B&F FAST Construction Technology (Integrated Hybrid Technology & PPVC -Prefabricated Prefinished Volumetric Construction)





26. KONARAK - Mani Uday

System/product – The stall showcased Autoclaved Aerated Concrete Reinforced Panel for Wall & Roof. Konark AAC plant has been set up in technical collaboration with 'HESS AAC SYSTEMS' from Netherlands. The plant is located at Bagnan, Howrah, West Bengal with an installed capacity of 2,50,000 CuM p.a. (700 CuM per day) and adhere to stringent quality control. Reinforced AAC Panels being manufactured conforming to BIS specifications as per IS Code 6072 for Wall panel & IS Code 6073 for Roof panel.







27. State Industries Promotion Corporation of Tamil Nadu (SIPCOT)

System/product - Monolithic Concrete Construction Technology. The Agency is developing one Affordable Rental Housing Complexes (ARHCs) in the State of Tamil Nadu using the above technology. In monolithic construction technology all walls, slabs, stairs, together with door and window opening are cast in -situ in single operation at site by use of specially designed modular formwork made of aluminum, which is easy to handle with less labour & equipment support. In this system, the lateral and gravity load resisting system consists of reinforced concrete wall and reinforced concrete slabs.





28. M/s SPR Construction Pvt. Ltd. Monolithic concrete construction

System/product - Monolithic concrete construction using Aluminium formwork &/or PVC Wallform system (M/s Kalzen).The Agency is a Developer engaged in the development of Affordable Rental Housing Complex (ARHCs) at Sriperumbudur, Tamil Nadu using Monolithic concrete construction technology.





29. Timpack Private Ltd

System/product - The Agency is manufacturer of Bamboo roofing sheets, an environmentally friendly and safe alternative to plastic, zinc or corrugated asbestos roofing panels. Bamboo sheets are durable and strong with excellent internal bond strengths and a high resistance to weathering, fire, or insect attacks. The main raw material for the product is bamboo, which is the fastest growing plant and occurs naturally in the forests.





30. Vidiyal Residency Private Limited

System/product - Pre-cast Technology. The Agency is engaged in the construction of Affordable Rental Housing Project (ARHCs) at Krishnagiri District of Tamil Nadu using Pre-cast technology. The Agency is subsidiary of Tata Group.





31. CDE Asia Limited

System/product - ReUrban, is an advanced construction and demolition waste recycling technology from CDE using the latest & integrated processing methods to recycle waste materials from construction sites to create a range of certified sand and aggregates for reuse in construction projects.





32. Saint Gobain India Pvt Ltd.

System/product - Light Weight Drywall Technology - A high performance lightweight interior wall system consisting of a GI steel frame, encased in gypsum plasterboards on either side attached with self-drilling drywall screws. The joints are then taped and finished with gypsum jointing compounds. Gyproc® Drywalls provide excellent sound insulation and superior fire-resistant properties. Among other advantages, Drywalls result in significant structural cost savings, as it is much lighter than conventional brick/block systems.





33. Ultratech & hoMMission India

System/product - 3D Monolithic Modular Precast Construction System -The Agency is into Design & construction of building of 3 Dimensional, Monolithic and Modular Precast modules casted using standard concrete & steel, using a precise steel mould. The modules can be designed to meet the vulnerabilities of specific areas.





34. Novel Assembler Pvt. Ltd.

System/product - Stay in Place PVC Formwork - The Agency is into Design & fabrication of Stay in place PVC formwork, consisting of rigid poly-vinyl chloride (PVC) based polymer components that serve as a permanent stay-in-place durable finished formwork for concrete walls. The extruded components slide and interlock together to create continuous wall formwork. The hollow wall components are erected and filled with concrete in-situ, to provide a monolithic concrete wall with nil/minimal curing requirement. The polymer encasement provides crack control vertically and horizontally for concrete.





35. Matharoo constructions

System/product - Integrated Hybrid Solutions- one -The Agency is presently executing a Demonstration Housing Project under PMAY (Urban) at Ahmedabad, using IHS-ONE Intermediate Building System (IBS), which is having three main components: walls, floor/roof and stairs. All 3 components are integrated to construct a building and hence named as "Integrated Hybrid Solution – ONE". The interlocking blocks are manufactured with a block making machine offsite or onsite in an open shed. The blocks can be of cement-flyash-block or cement-soil block.





36. Thakur College of Engineering and Technology

System/product - Z-Power (Zinc Nano particles for enhancing quality and durability of concrete). Z- Power involves incorporation of biologically synthesized nanoparticles in the conventional concrete mix with some percentage replaced with cement. The preliminary research study involved identification and testing of nano concrete cubes incorporated with three different kinds of nanoparticles: tin, copper and Zinc. Zinc Nanoparticles were then chosen for the secondary research study as they exhibited optimum increase in the compressive strength as compared to the conventional concrete cube.





37. Tri-OM Adaptive Solutions Pvt. Ltd.,

System/product – DNA-D Construction Technology - Providing consultancy services in Design, Planning and Construction. Product Design, Interior Design, Residential, Industrial and Commercial projects. The company believes in innovative design solutions. Currently it is seeking new approach in real estate which will be led by Artificial Intelligence, bringing AI solutions in the field of real estate.





38. Tvasta

System/product - 3D Concrete Printing -The Agency is one of the shortlisted Potential Technology Provider & Incubatee at IIT, Madras under ASHA-India, with 3D Printing Technology for the construction of house/building comprising of Hardware (3D Printer, Material delivery system etc.) & Software (Digital Construction software that can print with a BIM file), Material (Specialized concrete mix design that can be used for 3D Printing) and Development of Printing Strategy and Design for Additive manufacturing.





39. Rocky Mountain Institute India Foundation

System/product - Thermal comfortable energy efficient solutions -RMI Energy Solutions India Foundation ("RMI India Foundation")'s mission is to support the transformation of India's economy into a clean, thriving, and inclusive energy future. This mission is in line with the country's bold ambition to achieve a net-zero emissions economy by 2070. It aims to drive impact on the ground through deep research and rigorous analysis, which informs the development of sustainable clean energy policies and programs across the country to enhance the lives and livelihood.





40. Sivaani Infraa

System/product - Monolithic Construction/ Mivan Technology, POD BEDS -Sivaani Infra Pvt Ltd & Singapore Spa N Health Resots Pvt Ltd is developing an Affordable Rental Housing Complexes (ARHCs) with residential and Commercial space as a self-sustainable model to promote affordable living spaces for migrants, industrial workers, trainees, employees in Pharma industries, Film making technicians, Health Tourism etc. in Hyderabad in POD bed Model.





41. Apple Chemie India Pvt. Ltd.

System/product - Prefab Solution – Construction Chemical - Apple Chemie is construction chemical manufacturer providing admixtures for Ready Mixed Concrete, precast Concrete, tunneling, Pavement Quality Concrete (PQC) roads etc.





42. Ferrobuild Design Systems

System/product - Ferrobuild Design Systems (LGSF with Ferrocement Panels) -Ferrobuild Design Systems is a technology provider for a novel construction method/structural system namely ferrocement and light gauge steel (LGS) composite (often referred as Ferrobuild Design Systems). In this structural system, precast ferrocement panels (patented as ferron panels) developed at Ferrobuild is deployed as cladding solution on the light gauge steel frames (LGSF) for walls and as lost form shutter for slabs. The LGS and Ferron composite give greater strength.





43. Ensimulated Solutions

System/product - Voided Slab System - The Agency has developed Voided biaxial slabs, sometimes called biaxial slabs or voided slabs, which is a type of reinforced concrete slab which incorporates air-filled voids to reduce the volume of concrete required. These voids enable cheaper construction and less environmental impact. Another major benefit of the system is its reduction in slab weight compared with regular solid decks. Up to 50% of the slab volume may be removed in voids, resulting in less load on structural members.





44. Accura Polytech Pvt Ltd.,

System/product – The company is in the manufacturing of Accucel solid UPVC foam products which are elegant as any premium wood in appearance and equally workable like wood and offer almost unlimited possibilities for shape, Size and color and can be produced with variety of surface finished.





45. NS Property Guide Advisors Pvt Ltd

System/product - Home Inspection Service - PropChk is a startup in the home inspection space with pan India operations. It wishes to capitalize on this opportunity by establishing as thought leaders in this space. The mission is to spread awareness amongst the masses about the importance of getting a home inspected before concluding a home purchase decision or even before moving into a new rental property.





46. Coastal Developers Private Limited System

System/product - Pre-Cast Technology (Developer) - Coastal Developers Private Limited is one of the leading real estate organizations aspiring to serve in real estate and renting activities across India. The company, incorporated in 1995, is classified as non-Govt Company and is registered in Andhra Pradesh.





47. Department Of Earthquake Engineering, IIT Roorkee

System/product - Incubation Support Institute for Potential Future Technologies -IIT Roorkee is one of the Incubation Support Institutes for Potential Future Technologies under the Affordable Sustainable Housing Accelerator - India (ASHA-India) component of GHTC-India.





48. M/s Prompt Building Solution Pvt Ltd.

System/product - Light Gauge Steel Framing and PEB -The Agency is presently executing a Demonstration Housing Project under PMAY (Urban) at Guwahati, using Light Gauge Steel Frame system. The Light Gauge Steel frames consist of high yield strength (550 MPa) roll formed GI 'C' cross sections of 63 mm to 150 mm with built-in notch, dimpling, slots, service holes etc. produced by computerized roll forming machines. The frames are cladded with Cement fibre board with Light weight concrete. Other options for cladding are also available.





49. M/S E-Quantum Solutions PVT Ltd.

System/product - UPVC DOOR WINDOW - UPVC Windows, UPVC Doors, UPVC Mosquito Net Door, Aluminum System Windows, Glass Railing, etc. These products are manufactured with modern technologies and skilled workforce. The Company uses optimum grade inputs, and the experts ensure that these products are precisely engineered in adherence to the industry quality parameters.





50. Department of Civil Engineering, IIT Kharagpur

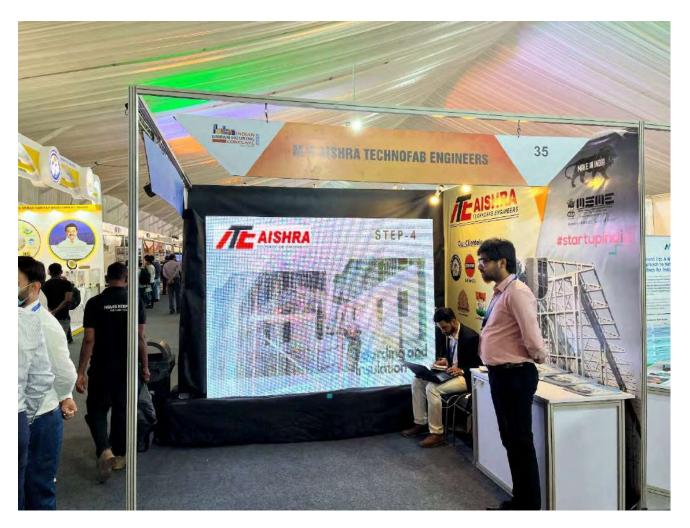
System/product - Affordable housing using Bamboo - A design methodology is developed for chemically modified bamboo concrete composite members such as beam, column, roof, slab, wall and technologies for construction of environment conducive and cost-effective housing. Due to the fast-growing nature of bamboo, it can provide a sustainable supply to meet the demands of the building industry. Bamboo has several advantageous engineering properties such as high tensile strength, light weight, high ductility etc.





51. M/s Aishra Technofab Engineers

System/product - Prefabricated building construction using LGSF technology & Hot rolled steel section - Aishra Technofab Engineers started its operation in the year 2018. It is one of the first partnership MSME firm to provide turnkey solution in innovative construction in Bihar. It has been recently incorporated as Private Limited Company & has also been recognized as Startup company by Department of Industrial Policy & Promotion (DIPP), Govt of India. In the first year, the company was conferred the tittle of Debutant of the year by TATA STEEL NEST-IN.





52. Indubhai Parekh School of Housing

System/product - Architectural design for Mass housing and technology solution for construction techniques. Indubhai Parekh School of Architecture, a part of the larger framework of Vyavasayi Vidya Pratisthan Trust and affiliated to Saurashtra University, is the first institution in architectural education in Saurashtra and Kutch region of Gujarat. The region of Saurastra and Kutch is bestowed with great assets of historical importance. The school has set its mission towards the promotion of a regional identity.





53. N M Roof Designers

System/product - Low-Cost Precast Housing / Mass Housing - M/s N M Roof Designers (NMRD) has been into structural consultancy and turnkey construction including prestressed and precast concrete works. It uses innovative cost-effective, precast RCC system for construction of houses. It is a building system which employs fully precast concrete components e.g., floor, walls and roof with special cast-in-situ patented jointing system at site.





54. Humengi Gohemp

System/product - Carbon Negative Concrete Mix using Industrial & Agricultural wastes with Interlocking masonry system. Materials used in Gohemp Agroventures concrete mix are a sustainable blend of recyclable waste materials from industry and natural agricultural fiber to produce hempcrete, a carbon-negative building material, & Humengi® is an interlocking masonry system.





55. Selco Foundation

System/product - Housing for Migrant, Displaced and Climate Vulnerable Communities - Design & Implementation. The Built Environment team works on sustainable, climate-smart, resilient, thermally comfortable, and productive designs and innovations catering to the poor. The team comprises practitioners in design, construction, project management, and finance with expertise in housing, healthcare, education & livelihoods.





56. Indian Institute of Technology Madras

System/product - 3D Precast Prefinished Volumetric Construction Technology - 3D PPVC - One of the Incubatees at IIT, Madras, namely SLAB Engineering, having expertise in precast project designing and execution, offer industrial manufacturing of modular housing units.





Exhibitions by Others (States/ Institutions/ Associations etc.)

Other than the technology providers participated under IUHC, several other agencies/ stakeholders participated in the EXPO and exhibited their work. The details are as follows:

a) States/UTs

S1. No.	States	Exhibition Details
1	Govt. of Andhra Pradesh	Activities related to PMAY- U and other Schemes of MoHUA
2	Govt. of Chandigarh	
3	Govt. of Chhattisgarh	
4	Govt. of Karnataka	
5	Govt. of Kerala	
6	Govt. of Madhya Pradesh	
7	Govt. of Maharashtra	
8	Govt. of Rajasthan	
9	Govt. of Tamil Nadu	
10	Govt. of Telangana	
11	Govt. of Tripura	
12	Govt. of Uttar Pradesh	
13	Govt. of Jammu & Kashmir	

State Governments also displayed their best practices and innovations under the process of implementing PMAY-U in the IUHC organized at Rajkot. Statewise details of exhibits is presented as under:



1. Government of Tripura

The exhibition by the State of Tripura highlighted the progress made by them since the inception of the Scheme when Central Assistance started flowing through establishing a robust mechanism. A prototype of BLC projects using **Earthquake resistance** building technology was displayed in the stall pictorially showing the benefits received by PMAY-U beneficiary through **Convergence** with various Central and State Government schemes as shown below.





2. UT of Jammu & Kashmir

The exhibition by the UT of Jammu & Kashmir highlighted the progress, **initiatives and achievements** undertaken by the UT under the Mission. The photos of nicely constructed houses and happy faces were shown in the stall as a testimony of life transformation.





3. Government of Uttar Pradesh

The State of Uttar Pradesh displayed the remarkable performance under the Scheme. Two prototypes of AHP project were exhibited depicting houses constructed at Awadh Vihar, and Sharda Nagar Extension, Lucknow which were completed as per scheduled time. The achievement of **5-Star rating** by these AHP projects for compliance of green building norms were showcased in the stall.







4. Government of Madhya Pradesh

Apart from showcasing progress made by State of Madhya Pradesh, a prototype of AHP project at Gwalior with constructed under PMAY-U, adopting cross subsidization model with efficient financial management was also displayed as depicted below.







5. Government of Maharashtra

The State of Maharashtra largely have more of high-rise AHP projects in the suburbs of Mumbai due to high land cost. 3 prototypes of AHP project were displayed in the stall, including Navi Mumbai using 3S Prefab technology.







6. Government of Rajasthan

The exhibition by the State of Rajasthan highlighted the progress undertaken by the particularly under AHP projects. Two walls of the stall displayed various AHP project constructed in different cities. A prototype of AHP project at Jodhpur was showcased where the cost of affordable houses for EWS is minimized through partial land parcel subsidization to the developer.







7. Government of Telangana

State of Telangana showcased 2 BHK dignity housing constructed by the State Government converging with PMAY-U and to be provided free of cost. In addition, two prototypes of AHP projects constructed in Hyderabad at Kollur with all infrastructure facilities including STP with **EMBBR** (Enhanced Moving Bed Bio reactor) Technology and AHP project at Rampally, using Monolithic (Shear wall) technology.





8. Government of Tamil Nādu

The exhibition by the State of Tamil Nadu showcased large housing complexes constructed under the Scheme. Two Prototypes of AHP projects at Gowthumpuram, Chennai using **Precast** technology and **Mivan** technology were displayed in the stalls.





9. Government of Andhra Pradesh

The State of Andhra Pradesh highlighted the progress undertaken by the State under PMAY-U and showcased two prototypes of AHP project using **Monolithic** (Shear wall) technology at Chilkurpeta and BLC project using **cost effective, eco** - **friendly building materials and energy efficient electrical appliances** in Housing at Visakhapatnam.





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10. Government of Chhattisgarh

The exhibition by the State of Chhattisgarh highlighted the progress undertaken by the State implementing agencies since the assistance under PMAY-U started coming in. Two Prototypes of BLC project for **Leprosy** Affected Community using Frame Structure at Rajnandgaon and AHP project using **Monolithic (Shear wall)** technology at Bilaspur were displayed in the stalls.







11. Government of Karnataka

The stall exhibited two Prototypes of AHP project: ULB efforts for **financial management** and **bank linkages** at Mysuru and AHP project using **Monolithic (Shear wall)** technology at Bengaluru were displayed in the stalls.





12. Government of Kerala

The exhibition by the State of Kerala highlighted the progress undertaken by the State implementing agencies since the assistance under PMAY-U started coming in. The **Community based** implementation of PMAY (U) by Kudumbashree through **Convergence** with LIFE and other Missions were showcased in the stall.





13. UT of Chandigarh

The exhibition by the UT of Chandigarh highlighted the progress undertaken by the Chandigarh Housing Board under ARHC. One Prototype of Affordable Rental Housing Scheme (**ARHC**) project (2,195 houses) at Maloya under Model-1 was showcased in the stall.





b) Financial Institutions

S1. No.	Financial Institutions	Exhibition Detail
1	Aavas Financiers Limited,	Financial Services
2	Bank of Baroda, Rajkot Region	
3	Bank of India Zonal Office, Rajkot	
4	HDFC Limited	
5	Home First Finance, Mumbai	
6	HUDCO Limited, New Delhi	
7	IIFL Home Finance Limited, Rajkot	
8	LIC Housing Finance Ltd, Mumbai	
9	National Housing Bank, New Delhi	
10	State Bank of India, Regional Business, Rajkot	





Glimpses of stalls set up by Financial Institutions:



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c) Others

S1. No.	Others	Exhibition Details		
1	Climate Smart Buildings Cell, North Cluster, Light House Project, Awadh Vihar Yojana, Lucknow	Demo Hosing Project		
2	CSB Cell, Rajkot	Thermal Comfort &		
3	CSB Cell, Ranchi	Energy		
4	GIZ, India	Efficiency		
5	Lead Consultancy & Engineering Services			
6	The Energy and Resources Institute (TERI) New Delhi			
7	BMTPC, New Delhi	Cost Effective Disaster Resistant And Energy Efficient Technologies		
8	UN-Habitat India Country Office, New Delhi	Human Settlements Initiatives		
9	NAREDCO, New Delhi	Real Estates		
10	CREDAI, New Delhi			
11	CSIR –VNIT, Nagpur	Asha Project		





Selected snapshots of the exhibitions made by above agencies are as under:

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INAUGURAL SESSION 19th October 2022



Inauguration of IUHC, LHP Rajkot and Felicitation of Awardees of PMAY(U) Awards 2021 by Hon'ble Prime Minister

IUHC was inaugurated by Hon'ble Prime Minister on 19th October 2022 from a Jan Sabha organized at Racecourse Ground, Rajkot. In the ceremony, Hon'ble Prime Minister dedicated several developmental projects worth about ₹5660 crores, Light House Project (LHP), Rajkot built under PMAY(U) was one of them. Alongwith Hon'ble Prime Minister, Shri Bhupendra Patel (Hon'ble Chief Minister, Gujarat), Shri Hardeep S Puri (Hon'ble Minister, HUA), Shri Kaushal Kishore (Hon'ble Minister of State, HUA) and other dignitaries were also present on the stage.









• Screening of Short Film

A short film on progress of various Urban Missions in Gujarat was screened during the inaugural session of IUHC-2022. The film gives an overview of the successful transformation of the urban landscape of Gujarat along with the achievements of PMAY-U, Smart Cities, AMRUT, SBM-U amongst others. It categorically showed the directions of Hon'ble Prime Ministers for urban transformation of Gujarat followed by initiatives taken by Govt. of Gujarat under the able leadership of Hon'ble Chief Minister.







Inauguration of Light House Project Rajkot

• Screening of Short Film on Light House Project, Rajkot

Prior to the inauguration of LHP Rajkot, a short film was showcased. The short film highlighted the vision of Hon'ble Prime Minister for Transformation of Construction practices in the country by bringing about the world's best innovative construction technologies to the country. It detailed the process of GHTC-India and shortlisting of innovative technologies from the world. Further it highlighted the process of initiation of LHPs at six places in the country. The process of construction of LHP Rajkot using innovative technologies was showcased in the film along with benefit of using this innovative technology.





• Inauguration of LHP Rajkot

LHP Rajkot is one of the six LHPs being constructed in different parts of the country to showcase innovative construction technologies which are robust, fast and climate friendly. Earlier, in May 2022, LHP at Chennai was also inaugurated by Hon'ble Prime Minister. LHP Rajkot constitutes 1144 houses, each of 46.09 sqm built up area.



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• Handing over the keys to the beneficiaries of LHP Rajkot

Hon'ble Prime Minister also handed over keys of their new homes to five shortlisted beneficiaries.





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Felicitation of PMAY-U Awards 2021

During the ceremony, Hon'ble Prime Minister felicitated the top four winners of PMAY(U) Awards 2021. PMAY(U) Awards were constituted in 2019 to encourage States/UTs to compete with one another to fasten the completion of sanctioned houses within stipulated timeframe. The winners of PMAY(U) Awards 2021 under Best Performing State category were declared and felicitated at the event. The State of Uttar Pradesh, Madhya Pradesh and Tamil Nadu secured the 1st, 2nd, and 3rd positions, respectively. Tripura won the award for Best Performing State under PMAY(U) in North-Eastern & Hilly States category. Gujarat was awarded as the Best State for implementation of the Credit Linked Subsidy Scheme (CLSS).



Gujarat



Uttar Pradesh





Madhya Pradesh



Tamil Nadu



Tripura



Release of Publications by Hon'ble Prime Minister

The felicitation of the winners of PMAY(U) Awards 2021 was followed by release of four publications of the Ministry by Hon'ble Prime Minister.





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	Book titled "Housing for All: Transforming Lives in Urban India": The book encapsulates the					
	journey of PMAY(U) over the past seven years. It covers chapters from persons of eminence of national & international repute. Broadly, the book covers varied themes of housing sector, PMAY(U) implementation mechanism, innovative house construction technology, financial inclusion, economic impacts, private sector participation and State experiences. The chapters have been written by the renounced domain experts of National & International repute and Hon'ble Chief Ministers of six States.					
<image/> <image/> <image/> <image/>	Compendium of LHP Chennai & Rajkot: The compendiums capture the journey of design, planning and construction of Light House Projects at Chennai and Rajkot. It lays emphasis on the construction technologies used in the two LHPs along with the construction process, the project management & monitoring. Further, it documents the series of activities being undertaken under the Live Laboratory component of GHTC-India for disseminating the learning on use of innovative technologies for various stakeholders.					
	Handbook on Innovative Construction Technologies and Thermal Comfort in Affordable Housing: The handbook is a comprehensive resource material on thermal comfort fundamentals and detailed exploration on innovative construction technologies. The handbook will equip the readers with theoretical knowledge, and with tools that will enhance their skills on mainstreaming thermal comfort in affordable housing.					



1. Address by Hon'ble Minister, HUA

Addressing the gathering at Racecourse Ground, Rajkot, Hon'ble Minister, HUA mentioned that when Hon'ble Prime Minister assumed office in May 2014, the urban development was a least priority domain and was facing various challenges. In order to transform challenges into opportunities, various flagship schemes were launched in the year 2015. The Schemes such as PMAY(U), SBM(Urban), Smart City Mission, AMRUT, etc. were outcome of this move.

He further stated that, the seed of development which was sown by Hon'ble Prime Minister as a Chief Minister of Gujarat is bearing fruits now in the form of rapid development. The urban missions which are being implemented in the country now had already been implemented in Gujarat for ten years. The entire country is witnessing this wave of change and moving towards sustainable development. The State of Gujarat has also shown good performance in implementation of these urban Missions.

He reiterated that Ahmedabad Metro has been inaugurated recently which was a Diwali gift form the Hon'ble Prime Minister to the citizens. The LHP constructed in Rajkot and being inaugurated, demonstrate that construction of houses is possible through the use of innovative technologies which are also climate sensitive. The basic philosophy of all these initiatives is emphasis on *"Antyoday se Sarvoday tak"*.





2. Address by Hon'ble Prime Minister



Addressing the gathering, the Prime Minister noted that around Diwali is the time of the year when new resolutions are taken, and new beginnings are made. At a time, some projects related to the development of Kathiawar including Rajkot have been completed and some new projects have been started. These projects related to connectivity, industry, water, and public facilities are going to make life easier here.

He said, Rajkot is one of six locations across the nation where the Light House Project is being carried out, and 1144 modern homes were dedicated on October 19, 2022. He specially congratulated the women getting houses in the LHP, he congratulated by saying **"I would especially congratulate the sisters who became the owners of these houses and wish that this Diwali, Lakshmi resides in this new house of yours".**

further mentioned, in the last 21 years, he along with the people of Gujarat have dreamt, taken many steps, and also achieved many successes. **"Rajkot kept on teaching me and I kept on learning. Rajkot was my first school**", he said. He recalled that Rajkot was a place where Mahatma Gandhi also came for learning.



Hon'ble Prime Minister explained that without basic facilities and dignity it is impossible to come out of poverty. He said a house equipped with toilets, electricity, piped water, cooking gas and internet connectivity is something that is being ensured for the poor. "Bhupendrabhai and his team are doing a commendable job in building homes for the poor. Not only the poor but we also took the first steps to fulfill the dream of our own house of the middle class", he said. Not only this, workers who come for work in fellow cities should also get better houses with less rent. Work is going on at a rapid pace on this scheme, he informed.

"The previous governments constructed houses for the poor not as a responsibility but as a favour. We changed the ways", Shri Modi remarked. The Prime Minister informed that the occupants of the houses were given complete control and freedom over building their own house and decorating it the way they wanted to. "It is our constant effort to make the house of the poor better", Shri Modi added. He highlighted that the LHP of Rajkot is one such effort. Remarking on its success, the Prime Minister pointed out that a lot of people from different parts of the country have come to see this model in Rajkot. "Today, Gujarat has not only got more than 11 hundred houses made with modern technology, but it is also great news for lakhs of poor families who are going to get pucca houses in future", the Prime Minister said. Highlighting the benefits, the Prime Minister said that these modern homes in Rajkot are a huge step in the direction of making affordable homes at a rapid pace in the country. "This is going to bring a revolutionary change in the housing sector", he added. The Prime Minister further added that the Government has also taken the initiative to prepare our own youth for self-reliance in this type of technology by training thousands of youths and encouraging new start-ups in the country.

The full speech of Hon'ble Prime Minister is available at <u>https://pib.gov.in/PressReleasePage.aspx?PRID=1869319</u>

HON'BLE PIRME MINISTER'S VISIT TO IUHC EXHIBITION 19th October 2022



Post Inaugural session at Racecourse ground, Hon'ble Prime Minister Visited the IHUC exhibition area. The walkthrough of Hon'ble Prime Minister started from the stalls set up by MoHUA's Urban Missions. At the center of the exhibition, various prototype models of various Missions were placed to showcase the exact projects implemented on the ground. Up next was a full 80'x10'wall on Light House Projects being implemented at six places in the country. The focus was on LHP Rajkot was inaugurated by Hon'ble Prime Minister during the inaugural session at Racecourse ground.

Next was Exhibition of Gujarat wherein progress under all Urban Missions were showcased by the State Government of Gujarat. After that, Hon'ble Prime Minister walked through the Exhibition of Innovative construction technologies participated in various categories.





















































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CONTINUATION OF INAUGURAL SESSION AT SHASTRI MAIDAN 19th October 2022



Continuation of Inaugural Session at Shastri Maidan

After the inauguration of IUHC at Racecourse and the visit of exhibitions by Hon'ble Prime Minister, the inauguration session was continued at Shastri Maidan. The session was chaired by Shri Hardeep S Puri, (Hon'ble Minister, Housing and Urban Affairs). Shri Kaushal Kishore (Hon'ble Minister of State, Housing and Urban Affairs), Shri P.T.Anbarasan, (Hon'ble Minister, MSME and Tamil Nadu Urban Habitat Development Board, Govt. of Tamil Nadu), Shri Ashok Singhal (Hon'ble Minister, Housing and Urban Affairs, Govt. of Assam), Dr. Pradip Dav (Hon'ble Mayor, Rajkot Municipal Corporation), Shri Manoj Joshi (Secretary, MoHUA), Shri Mukesh Kumar (Principal Secretary, Housing and Urban Development, Govt. of Gujarat) Shri Rakesh Shanker (Secretary, Housing, Govt. of Gujarat), Shri Kuldip Narayan (JS & MD-HFA), were also present on the dais.

The inaugural session began with welcome of dignitaries on the dais by presenting shawl and mementos by Shri Kuldip Narayan (JS&MD-HFA). The welcome address was delivered by Shri Manoj Joshi, Secretary, MoHUA who thanked all the dignities on the dais and extended his welcome to State officials, delegates, guest, panelists, exhibitors, technology providers, media and other stakeholders. Further, Shri Joshi mentioned that awards are a good management tool, be it for Swachhta, Housing or AMRUT, the States/Cities are awarded for their performances and that encourages them to perform better.







Further, Shri Joshi invited Shri Puri to release two publications of the Ministry and felicitate the winners of PMAY(U) awards. Subsequently, the award ceremony began with Shri Puri releasing two publications, titled: Proceedings of Policy Dialogue for Beyond PMAY(U) and Housing, Satisfaction & Livelihood: An impact assessment of PMAY(U) in two States.







Housing, Satisfaction and Livelihood: This publication is based on an Impact Assessment Study conducted by the Ministry's team of PMAY(U) in the State of Uttar Pradesh and Madhya Pradesh as a pilot study. It captures the findings of the study and facts as to how the Mission has impacted the lives of beneficiaries. The concept of conducting Focussed Group Discussions with PMAY(U) beneficiaries during the study, reaped the desired benefits as we collectively understood that housing is not just a shelter but has multidimensional impacts on the lives of beneficiaries and their families.

Proceedings of Policy Dialogue for Beyond PMAY(U): The initiative provided a stage for crosslearning to give experts of housing sector a chance to provide their inputs and help in designing a roadmap to fulfil the vision of slum free India. Through the different proceedings, ideas were exchanges, discussions were held on various topics ranging from slum redevelopment, infrastructure upgradation, convergence, affordable housing, among others. Experts of national and international repute collaborated with the team to find out a way forward. The Ministry conducted 19 such sessions with various organisations and the book captured the proceedings of these sessions.



Thereafter, Hon'ble Minister (HUA) Shri Puri felicitated the winners of PMAY(U) Awards 2021 with a trophy and a scroll, as per the list below:

S1. No.	Awards	Winner
1	Best performing State/ UTs for implementation of ARHCs under Model-1	Gujarat
2	Best performing State/ UTs for implementation of ARHCs under Model-1	Chandigarh
3	Best performing State/ UTs for implementation of ARHCs under Model-1	Jammu & Kashmir
4	Best AHP Project under PPP model	Gujarat
5	Best State/UT for use of Innovative Construction Technologies	Tamil Nadu
6	Special Recognition - fastest mover under ARHC Model 2 (Joint Award)	Tamil Nadu and SPR Group
7	Best Community Oriented Projects under PMAY(U)	Kerala
8	Best Community Oriented Projects under PMAY(U)	Jharkhand
9	Best Community Oriented Projects under PMAY(U)	Chhattisgarh
10	Best Performing Union Territory	J&K
11	Best Performing Union Territory	DNDH & Damam Diu
12	Best State/ UT for convergence with other Missions	Gujarat
13	Best State/ UT for convergence with other Missions	Madhya Pradesh
14	Best Policy Initiatives by State/ UTs	Odisha
15	Best State for Geo-tagging of BLC AHP/ ISSR projects	Uttar Pradesh

Special Category Awards



16	Special Award for overall exemplary performance in implementation of PMAY(U)	Arunachal Pradesh	
17	Special Award for Most improved State category	Assam	
18	Special award of recognition for Best Convergence model of BLC -PMAY(U) with Livelihood Schemes	Kerala	
19	Special Mention Award for Best Women empowerment Initiatives	Jharkhand	
20	Special award of recognition to State with Best Visibility and coverage of PMAY(U)	Manipur	
21	State with maximum Technograhi visits at LHP site	Gujarat	
22	100% grounding of houses in difficult terrain/ climate	Ladakh	
23	Best State/UT for conducting IEC activities under PMAY(U)	Arunachal Pradesh	
24	Best State/UT for conducting IEC activities under PMAY(U)	Jharkhand	
25	Best State/UT for conducting IEC activities under PMAY(U)	Madhya Pradesh	
26	Best performing PLI under CLSS	State Bank India	
27	Best performing HFC under CLSS	HDFC Ltd.	
28	Special Award for Recognition to NIC	NIC, MoHUA	
29	Best performing SLTC under PMAY(U)	Uttar Pradesh	
30	Best performing SLTC under PMAY(U)	Madhya Pradesh	
31	Best performing SLTC under PMAY(U)	Gujarat	



ULB Level Awards

Sl. No.	Award	Name of Winners
32		Agra Municipal Corporation (UP)
33	Best Performing	Dewas Municipal Corporation (MP)
34	Municipal Corporation	Madurai Municipal Corporation (TN)
35	-	Agartala Municipal Corporation (Tripura)
36		Gohad Municipal Council (MP)
37	-	Bhadohi Municipal Council (UP)
38	Best Performing Municipal Council	Mattannur Municipal Council (Kerala)
39		Una Municipal Council (Gujarat)
40		Samalkot Municipal Council (AP)
41		Kailasehar Municipal Council (Tripura)
42	-	Bilasipara Municipal Council (Assam
43	-	Jiribam Municipal Council (Maipur)
44		Jobat Nagar Panchayat (MP)
45	-	Kirauli Nagar Panchayat (UP)
46	-	Patan Nagar Panchayat (Chhattisgarh)
47	- Best Performing Nagar Panchayat	Krishnarajpet Nagar Panchayat (Karnataka)
48		Periya Negamam Nagar Panchayat (TN)
49		Jirania Nagar Panchayat (Tripura)
50		Tawang Nagar Panchayat (Arunachal)
51		Devprayag Nagar Panchayat (Uttarakhand)





Agra, Uttar Pradesh



Madurai, Tamil Nadu

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Agartala, Tripura



Mattanur, Kerala





Samalkot, Andhra Pradesh



Jiribam (Manipur)



Krishnarajpet (Karnataka)





Jammu & Kashmir



Dadar Nagar Haveli and Daman & Diu



Manipur





Jharkhand



Gujarat



PLENARY SESSION: 20th & 21st October 2022



Plenary Session 1: Policy Dialogues for Beyond PMAY(U)

Session Brief: MoHUA has been putting conscientious efforts in addressing the rising needs of citizens in rapidly growing cities and towns. While PMAY(U) aimed to provide Housing for All adopting the cafeteria approach through four verticals, there is still a long way to go before the housing deficit of the country is addressed completely. Hence, there is a strong need to deliberate and brainstorm with respective State/UT Governments and domain experts of the urban sector for devising strategies for slum redevelopment, prevent future growth of slums and also seek ideas and suggestions about the future of affordable housing policies in India.

With this objective, MoHUA created a platform for dialogues with national and international development institutes, civil society organisations, academic & research institutions, and respective State/UT Governments for exchange of strategic, tactical and implementation ideas for policy measures beyond PMAY(U). So far, the Ministry has conducted 19 policy dialogues with multiple organisations. These dialogues have not only created an open platform for idea exchange but also brought forth new and innovative perspectives in the field of affordable housing. As a step forward, the culminating dialogue was held during IUHC.

Participants:

Chair: Sh. Amrit Abhijat, Principal Secretary (Urban Development), Government of Uttar Pradesh

Moderator: Sh. Kuldip Narayan, JS&MD (HFA), MoHUA **Panelists:**

- Ms. Parul Agarwala, Country Programme Manager, UN-Habitat India
- Ms. Shikha Srivastava, Domain Expert
- Dr. N Shridharan, SPA, Delhi
- Sh. Gautam Bhan, Dean (Associate Dean, IIHS)

Summary of Discussion:

Sh. Amrit Abhijat began by saying "PMAY (Urban) has been a wonderful story that we have crafted together in our country".

He highlighted that Class B, Class C, and new towns have contributed more to the PMAY(U) as compared to the larger cities. He stressed on the fact that the journey of PMAY has been very satisfactory and that should be the reason for facilitating PMAY 2.0. He further suggested that various private sector agencies of the state should enter rental/real estate markets and assist the private sector to build affordable housing through various instruments and policy



measures. He also focused on CLSS by stating that it was a very important vertical where the bankers, builders, and the beneficiary were congregating in space and the Government was a little aloof in the sense that they were not constructing houses directly apart from the Development Authorities across the country. Various people from the corporate sector,



people from various walks of life who are slightly capable, were also accommodated through the same.





Sh. Kuldip Narayan focused on the progress of PMAY (Urban) as the Scheme has completed seven years of implementation and sanctioned more than 1.22 crore houses. Further, he also stated that the Union Cabinet has extended the term of PMAY (Urban), upto December 2024 to complete these sanctioned houses. He also spoke about the scenario of the affordable housing sector in India, while stating that almost 50% of the population is going to live in urban areas by 2050. He also highlighted a few measures to speed up the progress of PMAY (Urban) like getting more stakeholders' involvement, initiating dialogues between various organizations, etc. He further highlighted that the Government should act as an

enabler in providing direct support to financially or socially vulnerable households. He also emphasized on providing case-sensitive housing solutions for everyone.



Ms. Parul Agarwala outlined that there is a need for reinforming how planning needs to be integrated to facilitate rural-urban linkages. She also mentioned that the Planning processes must inform housing tools and programmes. She added to the discussion emphasizing that the housing should respond to the needs of the residents in a city, rural urban migrants and needs of the young professionals. She also shared her perspective that affordable housing is not just four walls and a roof. It also means the security of tenure, availability of services, materials, facilities, infrastructure, habitability, accessibility, and cultural adequacy. It's the



confluence of these conditions that give people the opportunities for enhancing their standard of living and well-being.



Ms. Shikha Srivastava started the discussion with a focus on two verticals of PMAY- BLC vertical, and the affordable rental housing scheme. She also stated the quote of the Honourable Prime Minister; it says, "Key to the house opens the future for a dignified life and a secure future". And that must be the underlying vision of PMAY going forward. Further she said that PMAY-U till now has been a game changer mainly in terms of outreach and the convergence of the scheme with various infrastructure programs and policies. She also showed happiness and gratitude that as a

woman she feels for all the women as the Yojana gives home ownership to women. Focussing on the slums she said that slums have unique characteristics, and they have their own networks at the community level. Further, she also shared that Tata Trust has worked at the grassroots level on tenure security through local community participation and governance structures such as the Odisha liveable Habitat project. Lastly, she suggested that there is a need for recognizing the rights of migrants to cities and to ensure that the rights of the most vulnerable in the labour chain are safeguarded.



Dr. N Shridharan started the discussion with policy guidelines for the future of PMAY-U. He shared a few challenges in the housing sector in India. The first challenge is in the terms of average family size, which is tremendous. It's been seen that between 1981, 1991, and 2011, the average family size in the country has reduced, but the number of households has increased. He further divided transit urbanization into three categories. One is in terms of short-time measures, medium-time measures, and long-time measures. He also stated that in the BLC vertical there is a need to focus on class two and class six towns because that's

where all these migrations come in. He also talked about collaborative planning, merging social issues while planning and constructing houses. Further, he emphasized on land



value capture and land titling. He also suggested that it is possible to have mobile housing with all the amenities which can be transported based on the needs as livelihood is also attached to that. Applying new innovative technologies for the construction of affordable and safe housing for marginalized sections of society. Lastly, he talked about tax incentives for rental housing through digitalization could be a strategic intervention.

Shri Gautam Bhan prioritised the need of rental housing system in India to achieve a consolidated neighbourhood ecosystem. The foremost focus should be to upgrade to consolidate the existing housing condition of India. Need for a robust model that could cater to new rising ecosystem for rental housing and worker housing. Adequate public housing will always act as a function of economic viability for the country and there is a need for available government land to be leveraged to create affordable housing markets for rental home.



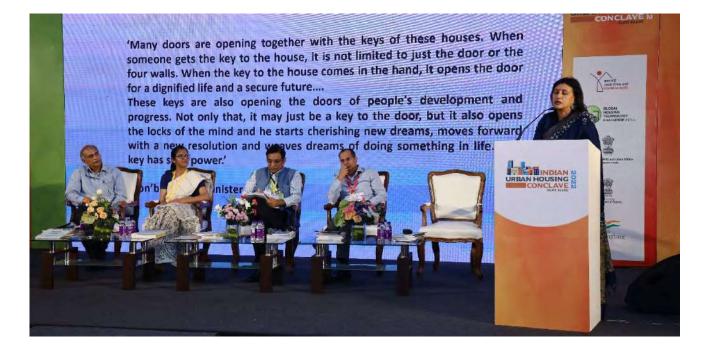
Q&A Session

- 1. **Ms. Amita Bhide, Professor, Centre for Environmental Health, TISS**, gave suggestion that if it would be possible to add element of State/UT-based considerations in the implementation framework of a national flagship Mission. Considering the socio-economic, geographic and political diversity across States in the country, MoHUA can divide States in groups and organise state wise consultations. She also outlined the key focus and commitment of MoHUA on providing houses not just for sake of having a house but as a key for having dignity and hence proposed for having more dialogues on Rental housing and In-Situ Slum Redevelopment.
- 2. **Ms. Alka Rani Agarwal** suggested that we need to decongest the cities and statutory towns and shift focus towards the Census towns with a focus on proximity to workplaces. She also highlighted that there is a need for closer examination in the housing finance eco-system to encourage all income groups to access the formal sector finance sector. There is a need to also look into the issue of guarantors when houses are being given to people from EWS and LIG categories to ease the issue of making proivison of housing for people from these categories.
- 3. **Sh. Hitesh Makwana, Principal Secretary, Tamil Nadu** highlighted the factors related to his field experience like land rights, where people are quite reluctant to acquire there land rights and the govt. incentivizes them to apply for there land rights. Also, highlighting the grassroots realities for new affordable housing schemes like various departments working in silos making it difficult to implement a the housing schemes.



4. **Ms. Tulasi** pointed her views on the provision of affordable rental housing as one of the basic services that could cater to the migratory working population of the country. She highlighted on the need of more comfortable living and not just a mere shelter with bare minimum necessities. She pointed out the dynamics of the political economy of slums that would also play a crucial role in deciding the fate of slum regularization.





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BRAINSTORMING SESSIONS



Brainstorming Session 1: Multipronged Approaches to Slum (Re) development

Session Brief: With significant population growth, while cities have expanded infrastructure, but rarely been ahead of the demand, especially affordable housing. Limited options are then available to the low-income segment, often leading to an increase in slums and squatter settlements. With every sixth Indian living in slums and 65 percent of our urban centres being a slum, slum upgrading, or relocation programmes and projects are not unknown to the country. The 'sites and services' approach devised by the World Bank in Chennai, India in 1972 is one such approach where the focus shifted from supplying a fully serviced house to that of providing only serviced land. "Sweat equity" and other resources of the beneficiaries in the actual construction of the house was used instead. With the above in mind, this session intends to give spotlight to the new and innovative elements in slum upgrading that ensure a green, healthy, economically prosperous, and equitable future to all. It also will attempt to unpack relocation and draw attention to key questions such as:

- What elements should a comprehensive slum upgrading programme entail? What benefits do public spaces and streets bring for transformation within the settlements?
- What are new and cutting-edge elements that will ensure these upgraded slums have a sustainable future? How can we include green jobs within the upgradation agenda?
- How do we create context-specific engagement processes and establish local partnerships to involve the informal settlement dwellers?
- Is relocation of slums a cost-effective answer or the only solution? What are other solutions and what benefits would they bring, for example ensuring livelihood continuity and socio-economic safety nets?
- Are there opportunities to convert under-utilized urban land, urban regeneration as well as assessment of available under-utilized housing?

Participants

Chair: Sh. Kuldip Narayan, JS & MD (HFA), MoHUA

Moderator: Ms. Mansi Sachdev, UN-Habitat.

Speakers:



- 1. Sh. Patrick Canagasingham, Chief Operating Officer, Habitat for Humanity International.
- 2. Sh. Jafar Malik, Executive Director- Kudumbashree, Govt. of Kerala
- 3. Ms. Manimekalai, Senior Planner, Tamil Nadu Urban Habitat Development Board (TNUHDB), Govt. of Tamil Nadu.
- 4. Sh. R. D. Padmakumar, Resource Person, Laurie Baker Centre for Habitat Studies, Kerala.
- 5. Ms. Aparna Das, Senior Advisor, GIZ, New Delhi.
- 6. Ms. Kerstin Sommer, Project Manager, Participatory Slum Upgrading Programme, and Human Settlement Officer, UN-Habitat

Summary of Discussion:



Ms. Mansi Sachdev introduced the session and set out the main objectives of the discussion. She introduced the panellists and also requested them to adhere to the stipulated time in order to have ample time for questions and interactions from the floor.

Shri Kuldip Narayan in the opening remarks mentioned the importance of adequate municipal services, employment opportunities, and the right to dignified living in slum improvement programs. He further highlighted that mixed housing should be provided with policy push to address both demand and supply-side issues. In addition, any future policies being implemented in the country should decrease the number of slums as well as decrease the formation of future slums which is a difficult balance to achieve but which can be done with the right mix of policies.







Mr. Patrick Canagasingham mentioned three organizational values of Habitat for Humanity International- humility, courage, and accountability. He highlighted that for slum redevelopment, we need to put people and communities in the centre of our interventions to address issues of systemic inequities and structural deficiencies that exist. People-centred approach helps mitigate issues of exclusion- an inclusive approach paves the way to meaningfully pursue transformation. Contributions of community-based organizations in the Global South need to be considered in more than just a

transactional role- we need to prioritize local entrepreneurs to promote innovation and local ownership. He emphasized that partnerships are core drivers of transformation- how we engage governments in pursuing transformation is especially critical as it determines what all can be done on ground.

Sh. Jafar Malik started the conversation by sharing the scenario of Kerala that there are interconnected urban local bodies in Kerala which provide well-connected networks that are deeply involved in implementation and planning. There is verification of beneficiaries to ensure that the deserving individuals/households get the benefits of the housing scheme. Post construction, the beneficiaries are involved in the community, and there is convergence with other schemes for getting broader advantages, for instance skilling through NULM. He also shared that housing should not be



limited to just the construction stage – there is a need to include livelihood, mobility while constructing and building of trust post the implementation of the scheme. Lastly, he said that for sustaining the housing model, there should be local-level monitoring and social audits of projects, incremental housing models, and linking with other benefits and schemes.



Ms. Manimekalai explained the sites & services approaches, where additional houses were facilitated as income-generating schemes, but the approach has its limitations due to increasing land cost. Further she suggested that sites & service approaches should be integrated with the town planning schemes, so that land can be available for developing infrastructure facilities. She also recommended

that there should be focus on beneficiary-centred planning and affordable housing. Participation of beneficiaries and slum development should be according to their comfort and occupation – livelihood support activities should be added to make the schemes successful.



Mr. R. D. Padmakumar spoke on the importance of community spaces in the slums. Explaining about the same he suggested that there is a need to cut edge design elements to continue improving such spaces. There are two parts to this that should be considered separately – design of the process and design of the product. Next he talked about community-driven planning and



maintenance of facilities, which is pre- and post-construction involvement is crucial for a participatory approach. Further he elaborated that spaces should be designed with the facility of expanding later and incorporates a per-capita space provision concept – there should be adequate space for livelihood activities. He further recommended that there should be dedicated facilities for women, children and elderly – for instance, study centres are needed for conducive environments for children.



Ms. Aparna Das started the discussion with a statement that "land should be conceptualized as having a social function – and this should be explicitly articulated by the government". She also focussed upon different land tenure a model that needs to be explored, especially in urban areas where user rights are politically negotiated. Further she talked about slum transformation, the process is important about how to reach the

end outcome, and principles of just transition and inclusion should be mainstreamed in the implementation of PMAY 2.0 for stitching slums into the fabric of urban planning. Lastly, she recommended that there is need for strong public institutions in urban areas for training of practitioners, upscaling, and capacity building of new planners.

Ms. Kerstin **Sommer** focused on four dimensions of urban development - reduction of poverty, which includes local economic development and location of where slums are incubated; addressing inequality, which includes holistic approach to resettlement and social infrastructure; inclusion, which includes multi-level governance and connected institutions; addressing degradation and environmental sustainability, which includes



climate smart solutions such as waste management. She also mentioned about the importance of how there is a need for the translation of dimensions into local action and promote diversity and contextualization. Further she also shared that rapid service delivery is important along with accountability and long-term political commitment. Lastly, she Page **284** of **404**



stated that the ambition is to have "cities for all" and to work in multiple partnerships with multi-level participatory governance to develop resilient and dynamic neighbourhoods.

Q&A Session

Prof. Amita Bhide, TISS University, queried about the linkage between state organizations with the communities, especially in the context of people-centred approaches. Responding on the query Ms. Manimekalai mentioned that work has been delegated to the district levels, along with having a Habitat Committee at the district level. The identification of the beneficiaries is being done with the help of the district collectors. The rehabilitation schemes are also integrated within the Committee.



Concluding Remarks

Ms. Mansi Sachdev concluded the session with a vote of thanks and provided a summary of the inputs and insights from the panellists. She highlighted that we need to keep people at the centre for any urban transformation. With the permission of the Chair, the session was concluded.













Brainstorming Session -2

Formalizing Informal Settlements & Slums - Role of Planning, Policies and Financing

Session Brief: This session designed as an interactive and moderated conversation where the speakers will share their responses to a set of key questions aimed at gaining an indepth perspective on the theme. A few key questions are:

- 1. Slum networking/Integration as an idea has been around for a while now. But why is it that this idea has seen very limited successes and has not been able to scale up as was envisaged?
- 2. How can informal settlements be 'networked' and 'integrated' within the city since many are located along infrastructure corridors?
 - a. What are challenges (regulatory, planning, management, operationally) to 'integrate' slums and informal settlements into the city's infrastructure?
- 3. What are some mechanisms by which slums, and informal settlements can be encouraged to pay for the municipal services?
 - a. What are socio-economic implications of introducing fees for municipal services on slums/informal settlement households?
 - b. What are the models/mechanisms in lieu of municipal service provision in slums/informal settlements?
- 4. How can green/sustainable innovations/nature-based solutions help in creating new (affordable/durable) models of infrastructure provision to these overlooked areas?
- 5. How can infrastructure and service provision provide opportunities for local economic development, socio-economic empowerment and ultimately a reduction of poverty?
- 6. How can the well-being of the communities be achieved while providing a sustainable financing model for urban local bodies to meet the scale needed?

Participants

Moderator & Chair: Dr. Barsha Poricha – Technical Head, Centre for Urban and Regional Excellence (CURE)

Speakers:

- 1. Ms. Banashree Banerjee: Independent Architecture and Planning Professional
- 2. Sh. Vishal Singh Chouhan: Municipal Commissioner Dewas, Madhya Pradesh



- 3. Sh. Rajendra Joshi, Social Entrepreneur
- 4. Ms. Amita Bhide: Professor, Centre for Environmental Health, TISS
- 5. Sh. Anshu Sharma: Co-Founder, SEEDS
- 6. Sh. Partho Mukhopadhyay: Senior Fellow, CPR

Summary of Discussion:



Dr. Barsha Poricha set the tone of the session by highlighting about the different type of ways that could be used to integrate slums & informality in the city in ways which might have been tried in earlier planning exercise. She stressed on the idea of integrating these ideas of slum formalization within PMAY 2.0



Sh. Rajendra Joshi brought forward the part where he highlighted that slum as a housing stock has already been integrated into the city fabric. He referred that Slums are housing stocks which are already existing which only need to be regozined in a way formalized and it will have a multiplier effect. The part that needs to be focus is the part of legalising the slum network that would lead to economic revival.



Ms. Banashree Banerjee started with thanking Ministry for inviting her to this forum to share her views on slum formalization. As per her explanation the nomenclature of informal settlement is nothing but normal settlement. The status of informal is quite questionable. She added that Indian cities are like mosaics where different part of cities have different character and context and there is a vital need to look for the deficient neighborhoods and cities that are lacking in certain ways like basic services

& amenties and improve their quality so that there is no different theory of informal and formal settlements. Further she added that in the upcoming future public participation would be the main driver and people are going to be the main actors in building cities and neighbourhood.



Sh Vishal Singh Chouhan brought forward the issues of services in the formal sectors and the informal sector. He stated that major role of muncipal corporations, ULB's started by providing services like light, water and roads for transportation. He highlighted the point of local bodies always provides basic service to public keeping in a tab of their returns. He also sighted that the actual issue the ULBs face is when a slum start to think differently where they assume that all other things are free to them but the



municipal services are chargeable. This is where the municipal corporations face huge setback and fail in providing better services to the slums.



Ms. Amita Bhide started with thanking Ministry for inviting her to this forum to share her views on slum formalization. She brought two most important things to highlight the essence of integration. First, dimension is of livelihood and vulnerability which exists at a household level. She highlighted the need to have deeper understanding of conditions that people live in adverse conditions/terms in the so-called integrated cities.

Second, dimension is of agency of households, persons vs. the individual responsible for their own living conditions. She stressed on the point of an individual making an informed decision for his/her living condition and the role of govt. in such type of revelopment scheme. She highlighted the need of holistic integration for slum formalisation.

Sh. Anshu Sharma brought forward the role of prioritizing heat as the area of urban problem for the city and rethinking the role climate change on the slums of the city. He highlighted the part of Overviewing the environmental stress that builds-up due to climate change and how it affects the slums of that city and how the slums are always 2-3 Degree Celsius warmer than the rest of the city. He stressed the need of addressing the granularity of complex



components issues in disaster vulnerability to bring about the positive changes required for slum improvement and slum integration.

Sh. Partho Mukhopadhyay started with explaining the challenges that comes forth while integration of services for the infomal settlements of the city. He focused on the factors of dwelling moral hazards that come in the way wrt to slum improvement for a city and the ways to engage with those factors directly. He proposed on resolving the de-facto title rights like former recognition, land security, land ownership etc which will lead to lead to an holistic slum integration.



Q & A session

Ms Aparna Das, Senior Advisor, GIZ India, projected an open end question wherein she highlighted the flaw in idea of perceiving a city as an open resource center that could cater to all the need of its people all the time. She questioned the smartest and quickest way to finance a city and which sequence to target to achieve the highest value for land as resource.



In response, the Panelists' mentioned the following:

Sh. Rajendra Joshi pointed that it is a mistake to consider slum as an object in need of residential and basic facilities instaed they should be considered as consumers. Slum should be considered as a large market where people require welfare, government initiative etc was

Ms. Amita Bhide highlighted caring for slums doesn't always mean welfare all the time. Recognising the agency and the vulnerability is critical in slum integration. Deciding the criticality of welfare can make the difference in the way for building a holistic approach for slum integration.

Sh. Partho Mukhopadhyay pressed on the need to critically analyze the land allocation under various categories. Issue of what categories to recognise and what not to recognise is equally critical.Recognise the thinking of growth nation and structured nation considered various economic factors.













Brainstorming Session - 3

Global Approaches on Sustainable, Affordable, and Inclusive Housing

Session Brief:

The challenge of providing enough good affordable housing is a problem faced by all countries today, and particularly cities that are the fastest growing. The problem for policy makers is to know where best to intervene, given competing demands on resources and legislative time. It therefore should help to indulge in dialogues with stakeholders from a range of approaches and their strategies chosen for their similarities to the situations in many developing countries, as well as for the different approaches they have adopted. However, it should be noted that there are also surprising similarities between the cases themselves. Many strategies such as the proactive role played by local authorities in developing new settlements, the use of cooperatives in management, and the mix and balance of tenures and housing types emerge time and again and provide a great number of lessons to be learned for the Indian context.

Participants

Chair: Dr. Sejal Patel, Professor and Program Chair, CEPT University,

Moderator: Ms. Mansi Sachdev, Senior Urban Planner, UN-Habitat.

Panelists:

- 1. Sh.. Washington Fajardo, Architect and Urbanist, Former City Planning Commissioner, Municipality of Rio de Janeiro
- 2. Sh. Hong Soo Lee, Senior Urban Specialist, Sustainable Development and Climate Change Department, Asia Development Bank (ADB)
- 3. Ms. Ahila Ganesan, Senior Director, Think City Malaysia
- 4. Dr. Lana Winayanti, Former Director General for Housing Finance, Ministry of Public Works and Housing, Republic of Indonesia
- 5. Ms. Pooja Nandy, Fellow, HUDCO's Human Settlement Management Institute (HSMI)
- 6. Sh. Vijay Anadkat, Program Senior Fellow Sustainable Cities & Transport, WRI
- 7. Ms. Namrata Kapoor, Senior Consultant Academics & Research, IIHS
- 8. Sh. Gireesh Singh Chowdhury, Director, Rising Japan







Ms. Sejal Patel inaugurated the panel discussion and highlighted that policy instruments need to interweave across different elements of affordable housing. She shared her thoughts on the convergence of climate resilience, sustainability with technology and affordability in housing schemes.

Sh. Washington Fajardo mentioned that vacant office spaces can be re-utilized as housing spaces and the private sector can be incentivized to support this initiative. He highlighted that Compact cities will be useful in reducing carbon footprint of cities and will also be easier to do renovations in the new constructions.







Sh. Hong Soo Lee elaborated that the inflexibility of housing supply is generally caused to restrictive regulatory frameworks so this should be supported. He mentioned that there is a need to support diverse interventions to address wide-ranging issues of lowincome communities living in informal settlements – including in-situ upgradation and community resettlement in intense conditions.

Ms. Ahila Ganesan stated that there is a need to rejuvenate the city to ensure that the wide disparities between different population groups are reduced and move away from just providing housing to making it liveable. She mentioned that education and capacity building of urban practitioners is an important aspect of improving the liveability of cities.





Dr. Lana Winayanti highlighted that the digitalization of supply and demand of housing helps in documenting user databases and develop housing as well as provide benefits accordingly. Subsidy interventions by the Government and mortgage schemes provide assistance to individuals for developing low-income housing.

Ms. Pooja Nandy presented through planning examples from Egypt that a cluster-housing concept and stakeholder participatory approach is important. We need to consider climatic conditions, public health, connectivity, and many other aspects while developing housing.







Mr. Vijay Anadkat spoke about the the Affordable Sustainable Housing Accelerator (ASHA) initiative which allows for self-sustainability through incubation support, financial assistance, marketing strategy and mentoring for developing housing. He emphasized that while developing housing, we need to be vocal for local.

Ms. Namrata Kapoor mentioned that it is important to have inclusionary housing and that compact development incorporating transit-oriented development approaches is the way ahead. It is imperative that low-income and middle-income housing are close to such connected zones to facilitate the livelihood opportunities of these households. She highlighted that the social function of land needs to be recognized and appreciated while developing affordable housing zones.





Mr. Gireesh Chowdhury elaborated that we need to utilize recyclable materials and scrap plastic from construction to contribute towards cost-effective and sustainable building methods. The enforcement of policies needs to be strict from the government's side to have green and environmental-friendly housing which utilize scalable global technologies.



Q&A Session

Mr. Gireesh Chowdhary, inquired from Ms. Pooja Nandy on her presentation on Egypt -How difficult will it be to implement similar projects in India? As we see a lot of similarities in culture, context, topography, and climate.

Ms. Nandy responded that **c**hallenges are almost similar, but the added difficulty in Egypt is their governance and with the kind of inequality prevailing in the urban spaces. So for India, to provide for equitable spaces and economical solutions, it is quite challenging as some governance policy initiatives and institutional frameworks will have to be totally re-thought. Till that kind of a transformative approach is taken up for integrating all the solutions at the projects conceptulization stage, along with an bottom-up approach, it will be a major challenge. However, we also have a lot of advantages in terms of technology, digitalization, telecommunication, and tools with which we can do even better than Egypt; and changes in policy, governance level, and institutional frameworks will help us more than anything else.

Concluding the discussion, Ms. Sejal Patel mentioned that bringing different countries with similar issues and challenges on one platform is an ideal way to learn from each other. She highlighted that capacity building of urban planners, urban practicioners, administrators and other stakeholders has been a prime concern raised by almost all the pannelist in the session, and NITI Aayog in the Indian context has recently come up with a phenomenal policy for building collaborations among the various urban local bodies.











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THEMATIC SESSIONS



Thematic Session - 1

Climate Smart Buildings - Focus on Thermal Comfort & Energy Efficiency in Affordable Housing

Session Brief:

The building sector is the second largest consumer of electricity in India. The growing economy, rapid urbanization, and massive construction activity across the country will lead to exponential rise in our need of pucca houses and their associated energy requirements. To provide housing for all, India is running one of the biggest social housing programs - Pradhan Mantri Awas Yojana (PMAY-U). It is a flagship initiative of the Government of India that aims to provide 1.22 lakh Affordable Housing. It is important to note that houses once built, last for at least 50-60 years and thus have the potential to impact resources usage during their life span. Thus, it is very important to ensure that these dwelling units being constructed today are energy efficient as well as thermally comfortable.

Energy efficiency in affordable housing plays a very critical role and needs action across building design, construction, material selection, and operational optimization. It's important to focus on low-cost design solutions, passive measures, low-energy comfort systems etc to ensure a sustainable and affordable solutions to the habitants of affordable housing. In addition to the energy efficiency, thermal comfort in affordable housing is most important. Massive efforts are given by the government to provide a pucca house to all but it is important to ensure these houses are thermally comfortable with least dependency on active measures to meet the need of cooling or heating of indoor spaces. This will not only reduce the need of purchasing expensive equipment by the habitant of affordable housing but also ensure a sustainable and low-carbon building operation.

Participants

Chair: Sh. Hitesh Vaidya, Director, NIUA

Moderator: Sh. Vikash Ranjan, Expert on Thermal Comfort and Climate Change

Panelists:

- 1. Ar. Andreas Binkert, 2000-watt Smart City Association
- 2. Ar. Suhasini Ayer, Auroville Design Consultant
- 3. Dr. Saket Sarraf, PS Collective
- 4. Ms. Bijal Brahmbhatt, SEWA Mahila Housing Trust
- 5. Sh. Yash Shukla, Professor, CEPT University
- 6. Sh. Sai Sri Harsha Pallerlamudi, Senior Associate, RMI (replaing Ms. Akshima Ghate, RMI)





Sh. Vikash Ranjan set the tone of the session by highlighting the role of passive design and thermal comfort in energy and cost savings for affordable housing at the local scale and addressing the issues of climate change at the global scale.

Sh. Hitesh vaidya started the session by thanking MoHUA for proving this platform and inspiring the audience to seek the path towards net zero in 2070, converting commitments to actions at local level. He highlighted the crutial role of training and capacity building for leapfrogging to a new future. He encouraged the panelist to look at the mirco picture and be specific as to what we want to achieve and how every individual can contribute towards the NDCs. He also encouraged the panelists to give tools, guidance or templates as well as transfer the knowledge of best practices to the people at large. He also brought attention to the resident or the user





of the climate smart building and his/ her understanding of this, he encourages the panelist to address the -is sustainable affordable debate in his introductory remarks. He urged the panelists and professionals to make sure the solutions or technologies we recommend are locally relevant.



Ar Suhasini Ayer brought forward the issues of rapid urbanisation in her discussion. She talked about addressing the complete housing ecosystem with its pressures on land, water, greens, energy, food etc. In the context of climate change, energy demands will increase. Economic losses due to urban emergencies of floods, draughts etc are also on a rise. She advocated a shift from silo mentality in urban planning to a holistic solution.

In her presentation she highlighted the importance of energy efficiency as a subset to urban policies. Current technologies are still dependent on steel and cement industry and although efficiency has been brought in but she emphasised that we now need to go one step further and look at further replacement and reduction



in cement and steel which are higher embodied energy materials. She laid emphasis on investment in innovation & demonstration projects for public outreach, review of performance post occupancy to keep learning and establish a link between design, implementation and benificiary.

In her presentation she brought forward some examples of solar passive buildings from her practice as well. She set forth the example of Auroville, which is an international township in making. She also brought forward the idea of social capacity and skill building along with mainstreaming alternate low embodied energy materials. The need of the hour is reduction and replacement of high embodied energy materials along with skill building and capacity development for site management staff.

Dr Saket Sarraf talked about energy efficiency in context of the larger grid. Instead of net energy his approach was to look at peak demands and drive efficiency in consumption patterns. He proposed a market shift through dynamic pricing and changes in consumption patterns with informed user behaviour. This can be driven by incentivisation or tarrif rebates for not peak hours of consumption and surge pricing for peak hours of consumption. He advocated co-optimisation through better building & envelop design using paddive design strategies and better building envelop at the stage of construction, then working with smart building systems at the stage of operation, and lastly a more efficient grid to reduce energy consumption and carbon content of



the energy consumed. He ended his session by introducing the idea of grid interactive



affordable housing and highlighting the challenge of sharing benefits of savings across various stakeholders spread across discoms, developers, builders, and end users.

Dr Yash Shukla in his talk focused on awareness on thermal comfort. He gave the audience a background of the efforts of MoHUA and GIZ in organising 75 trainings and workshops on innovative construction technologies and thermal comfort under the bannner of RACHNA-Resilient. Affordable, Comfortable Housing through National Action. In his session he introduced the concepts of thermal comfort and the human physiology. He talked about the parameters that impact the sensation of thermal comfort. His presentation showcased the adverse affects of thermal stress on human beings highlighting the criticality of the subject. He introduced the work CEPT university has done in collaboration with GIZ and BEE on developing the Indian Model for adaptive comfort for buildings.



He further went on to showcase the concepts of

building physics and the role each building element and material plays in maintaining thermal comfort within the building envelop. He proceeded to talk about the need of thermal comfort in affordable housing and ways and means of achieving it. He familiarised the audience with tools and measures that can help quantify the performance of a building.

Ms Bijal Brahmbhatt in her presentation, focused on the need to introduce thermal comfort for affordable housing. She highlighted that the code provides for houses above 500 sqm and there is an urgent need to develop a graded code for addressing smaller homes. She brought forward simple principles of solar passive design to reduce heat gain, increase natural ventilation, maximise daylight through focus on design, material, shading, orientation and insulation. She introduced the audience to concepts of building performance measurement parameters with RETV, U value, SHGC for glass etc. She emphasised the need to simplify technology and codes such that the common man is able to understand. She



connected the best practice ideas to practical issues with implementation as addressing orientation compromises FSI therefore she emphasised that optimization is required while selecting which measures can be opted for in a particular case. She put forward her ideas with case studies and examples from her work in the field of affordable housing such as Shree Ram Nagar Co-operative Housing society, Saraspur.



Ar Andreas Binkert was a part of this panel virtually. He introduced the concept of the 2000 watt smart City giving example from Greencity in Zurich, Switzerland. He talked about how the 2000 watt smart City concept addresses density, inclusivity, diversity, smart grid, low carbon construction and other aspects within a complete ecosystem. He drew attention to 3 upcoming projects in Pune under this concept. These would address governence, mobility, energy, building, mixed use and a healthy sociological mix. He ended his session highlighting that this concept is supported through certification that helps invite global funding directed towards sustainable developments.





Mr Sai Sri Harsha Pallerlamudi brought forward the idea that thermal comfort will also be a challenge for the grids in the future. He shared the concept of whole systems approach for decarbonisation of building sector. His indtroduced the concept of nega watt, or in other words, the energy that is not consumed. He concluded by saying that the first step begins with reducing energy demand/ consumption, then moving on to efficient distribution of that energy through the grid and efficient appliences and in the third step involves looking at clean energy and grid interactive buildings.





Question and Answer session

Dr Ashok Kumar, CBRI was present in the audience and in his feedback for the session he highlighted the importance of quantification of parameters and sensitising people and capacity building for greater awareness in public.

Sh P N Ojha (National Council for Cement and Building Materials) brought attention to the need to adopt climate specific design and material guidelines with quantification of energy demand & supply and look at a complete ecosystem. Each climate will require different systematic approaches.



Prof. Sejal Patel (CEPT University) highlighted that given the wide range of stakeholders in the residential s ector, how do we provide answers for Beneficiary Led Construction, she encourage the possibilities of exploring DIY solutions

Col. Pawan Pandey questioned if we can do something for the housing stock that is already constructed. And will looking at the larger picture in planning such as cluster planning for mutual shading, ventilation etc help.

Sh Amol Desai (India Insulation Forum) advocated making sustainability measures and building performance mandatory, he suggested empowering ULB, professionals as bridge between demand and supply.

Dr Saket Sarraf responded to Prof Sejal's question by saying that when we talk about affordable housing we need solutions that can scale up fast and not entail too much capital or operational cost and leverage the behaviour modulation by giving rebates in tarrif at non peak hours.

Ar Suhasini Ayer responded to the comments and queries from the audience saying that affordable housing needs to look at economic, social, political and environmental affordability all together. And rethink in terms of strategy and policy and not just the cost of constructing housing. We need to have diversity in our regulatory mechanisms and support with skill development, R & D in innovative building materials, promoting vernacular traditions while responding to the social needs and driving social change.

Sh Sai Sri Harsha Pallerlamudi respondedby saying that before we bring in regulatory mandates we need to drive a pull from the market side to generate demand for sustainable measures and materials such as insulation. He also mentioned that there is a need to make the discoms and the active users part of an energy efficient ecosystem where the larger benefits can be shared mutually.

Concluding the session Sh. Hitesh Vaidya highlighted that we need to focus on "Lifestly for Environment", a concept introduced by Hon'ble Prime Minister, in order to achieve energy efficient planning and housing. We need to nudge individuals and institutions while bringing in systemic changes in governance at ULB level. While capital expenditure is understood, we also need to address and plan for operation and maintenance expenditures in the future. If cities problems have to be addressed then they have to ne empowered with knowledge and by action through demonstration projects. Lastly he said that the language of climate has to become the language of cities.

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Thematic Session - 2

Public-Private-People Partnerships (4Ps) for Inclusive & Sustainable Housing

Session Brief:

The focus of this session was on deliberating upon creating partnerships that are equal, inclusive, transparent, and that are accountable. This session explored how cities can work with different players to incentivize provision of well-located affordable housing units and ensure an equitable future to the community.

Some key questions that the panel discussion addressed are as follows:

- What are some new and transformative approaches that the private and public sector can take to ensure that the vulnerable sections of the society get access to affordable housing?
- Who are the actors that can participate in building an equitable future while ensuring their interests as well?
- What are mechanisms to engage communities and what role can community play in the different approaches to sustainable, affordable, and safe housing?
- Are there examples of 'people as a resource' where local solutions have benefited the community and the city as a whole?

Participants:

Chair: Sh. Hitesh Vaidya, Director, NIUA

Moderator: Ms. Parul Agarwala, Country Programme Manager, UN-Habitat India

Panellists:

- 1. Dr. Renu Khosla, Director, Centre for Urban and Regional Excellence (CURE)
- 2. Mr. Ian Shapiro, CEO, Reall
- 3. Ms. Pratima Joshi, Executive Director, Shelter Associates
- 4. Ms. Sarika Chakravarty, Senior Sector Coordinator, NIUA
- 5. Mr. Harpal Dave, Asst. Town and Country Planner, Town and Country Planning Organization (TCPO), MoHUA
- 6. Ms. Francesca Lionetti, Associate Expert, UN-Habitat







Ms. Parul Agarwala highlighted the importance of creating partnerships that are equal, inclusive, transparent, and that are accountable. She introduced the chair and all the panellists who represented different spheres of the housing ecosystem and invited Sh. Vaidya to provide his inputs and begin the panel discussion.



Sh. Hitesh Vaidya began the session by thanking MoHUA for providing this platform to discuss the important role of people and partnerships in developing housing. He highlighted that it is imperative to bring people into the planning and development discussions and address the trust deficit that currently exists.





Dr. Renu Khosla highlighted that we need to unthink the whole housing ecosystem – it is important to understand that the housing agenda goes beyond the walls and roof of the housing as it is a space where individuals live and work. There is a need for designing housing solutions that can reduce inter-generational poverty and the feminization of poverty. It is also significant to design areas that are able to reduce harassment of women while accessing public or community

spaces. She mentioned that people want to be integrated within the city and be close to employment opportunities; and that location is integral for developing housing which makes it important to localize the construction processes to address the specific housing needs.

Mr. Ian Shapiro elaborated that it is important to integrate the 5th P – Planet – while designing solutions. We need housing solutions that are safe for women and girls to access. He highlighted that is is important to crowd capital into developing green and affordable homes for low-income populations without burdening them. We need to rethink the role of private sector for providing investments as well as focus on small-scale developers for providing net zero homes for those who live in the margins.







Ms. Pratima Joshi mentioned that through a neighbourhood approach and utilizing available data, we need to plan sensitively so that communities are not uprooted from basic their access to amenities and livelihood. For incremental housing, it is important to design houses that are well-lit and ventilated to ensure the well-being of residents. She highlighted that a multistakeholder approach is significant - wherein both communities and the ULBs should be

engaged in the planning and development processes.

Ms. Sarika Chakravarty emphasized that there is a need to build social sustainability into any policy and programme to co-diagnose, COenvision, and co-create cities. We need to include plurality in the housing supply – as with nuclear families, people are now preferring small housing formats. She mentioned that vacant houses can be utilized as transit accommodation to speed up the implementation processes, with good connectivity to the city centre. We need to adopt a comprehensive approach to slum rehabilitation



and a robust engagement strategy for building participatory competence of stakeholders.



Sh. Harpal Dave highlighted that the government must be the enabler and facilitator for developing affordable housing and provide regulatory frameworks for private sector to be involved. We need to create housing which has highly developed infrastructure, adequate green spaces, recreational facilities, and well-connected transportation. He concluded by saying that here is immense opportunity for us as citizens to help in making cities more prosperous and beautified.



Ms. Francesca Lionetti spoke about how ensuring adequate housing for all is a shared responsibility among government and other local stakeholders. It is important to streamline legislation and regulatory frameworks and enable community ownership as well as re-think the relationship with private sector to not only leverage investments but also promote sustainable models of housing.



She emphasized that a solid policy framework needs to be developed to allow for accountability mechanisms and transparency to be built in.



Q&A Session

Ms. Parul Agarwala asked the panellists that, are there any baselines that cities in the Global South need to meet for having a vibrant impact investment sector?

Sh. Ian Shapiro responded that philantrophic opportunities can be utilized to conduct some proof of concept or interesting innovations but it is a limited sector. This specific funding can be brought in to catalyze the private sector but the scale of the housing challenge also requires private sector financing. Green affordable housing provides an exciting and uncrowded investment space and can be considered as a securizable asset with credible returns which is important for an investor. It can be considered as a volume



opportunity rather than a margin opportunity, and philanthropic funding can act as a bridge for the private sector.

Dr. Renu Khosla responded that people's contributions usually are not factored in while developing housing. For unlocking government investment, it is important to curate sites & services programmes, to enable people to do their own construction and leverage technologies that are available. Another option is to develop cooperatives which enable communities to become financially independent and borrow from banks.

Sh. Harpal Dave responded that philanthropy can be utilized as an avenue to hire good consultants to showcase and implement projects on affordable housing. Architects need to be encouraged to take up innovative small-scale housing projects, wherein the funds can be leveraged from CSR or philantrophic funds.

Ms. Pratima Joshi responded that to develop holistic solutions, we need to have all the relevant data available and an understanding of the land as well as opportunities that can be utilized for the planning and implementation of the schemes. Land is a scarce resource and we need to use it optimally. We need to have stronger financial mechanisms & institutions which are backed by the government to reduce burdens on communities.

sFrom the audience, there was a suggestion from a PMAY(U) consultant working in Uttar Pradesh, that another 'P' which is important is 'Policy'. The expert also mentioned that it is important to have a centralized platform with the housing stock mentioned or city housing centres which can provide the relevant information to people.

A student from CEPT University addressed a question to Sh. Dave – As there is a TDR Market in Ahmedabad, the private partnerships function well. What else can de done in other cities to promote partnerships with private sector?

Sh. Dave responded that apart from TDR, in Ahmedabad, an invidual can get additional FSI free of charge for affordable housing projects. There is also land reserved for the economically weaker sections in the Town Planning schemes which allows to access land at a subsidized rate. He added that there are many more solutions that we can explore in this sector.

Concluding the session Sh. Hitesh Vaidya provided a brief summary of the inputs from all the panellists by saying that by scaling up the existing policy frameworks, instruments, and tools, we can certainly achieve sustainability, economic development, and inclusion in the planning processes of cities. As a concluding remarks, Ms. Parul Agarwala highlighted how stakeholder partnerships are much needed for successful implementation of housing schemes.











Thematic Session - 3

Policy, Institutional and Financial Frameworks for Scaling

Session Brief:

Addressing the challenge of existing slums and future need for affordable housing in urban India must adopt a "systems approach" based on a set of core principles that lend to a systematic change with long term vision for driving transformation at all levels. To deliver "adequate housing" at scale in India requires a comprehensive systems approach that offers flexibility to respond to the changing urban dynamics in cities and communities. Three pillars encapsulate the proposed Systems Approach: (I) Integration: sectoral and institutional integration; (ii) Holistic planning and governance, and (iii) Partnerships for financing. A systems approach acknowledges that given the urban diversity in India, the conventional "one-size-fits-all" rationale must be replaced with a "fit-for-purpose" intent in design and implementation of policies and programmes.

- What are the new and transformative approaches that can be taken to address the housing needs of the most vulnerable groups? How can progressive urban housing programmes be scaled up?
- An impact-oriented governance requires successful convergence of mandates and responsibilities of multilateral organizations, national and sub-national governments, and networks of local governments, and organization. What interventions are necessary for multi-level institutional reforms to be pro-equity to slum upgrading and preventing slums?
- Financing equitable and sustainable housing hinges on successful partnerships with the private sector. What are the new and emerging partnerships for social equity-oriented financing? How can the risks of privatization of public goods with engagement of non-state actors and other types of external donors be minimized and mitigated?
- Digital and technological innovations can transcend the bottom-line approach and serve as an enabler for access to housing by most marginalized groups. What policies/procedures can be put in place to ensure such frontier technologies are aligned with the universal values?

Participants:

Chair & Moderator- Ms. Parul Agarwala, Country Program Manager, UN-Habitat (India).

Panellists:



- 1. Sh. Vishal Goyal, General Manager, National Housing Bank
- 2. Sh. Arthit Tangtasawad, Senior Architect, Community Organization Development Institute (CODI), Thailand
- 3. Ms. Lajana Manandhar, Executive Director, LUMANTI; Coordinator, ACHR, Kathmandu, Nepal.
- 4. Ms. Sri H. Sofjan, Senior Program Administrator & Strategist, Huairou Commission, Malaysia.
- 5. Sh. Abhijit Shankar Ray, Senior Urban Specialist, World Bank
- 6. Sh. Duk Hwan Son, Senior Programme Officer, UN-Habitat



Ms. Sri H. Sofjan started with thanking the IUHC organizers and MoHUA for providing



the platform. She also praised the PMAY-U initiative of India and remarked the milestones the program has been able to achieve in a short time. In her talk focused the she on housing led urban transformation with focus on people centric approach. With people at the center, transformative urban projects need to be gender sensitive and provide equal opportunities for both men and women. It has been found that women are at the heart of the action, especially in slums. She focused

on the need of long-term investment programs especially for the marginalized sections and targeted locations within the urban area.





Ms. Lajana Manandhar, having long experience of working with governments and NGOs highlighted the issues of urban poor and slum dwellers. She emphasized on the role of the community networks bringing in the architects, Planners, administrators and city managers and importantly the woman of community. She emphasized on the successful strategies that can be replicated in other regions. Participatry approach with the community and Access to finance enables poor women to build a better quality of life not just for themselves, their families, and the community at large. ACHR in Bangladesh has worked with

the national and local governments for successful implementation of projects focusing towards providing safe and resilient houses to the poor. Governments plan for the pilot projects and allocate funds for them, but with the mass shortage of housing, there is a need for collaborative approaches for scaling up pilot projects.



Sh. Arthit Tangtasawad brought forward the issues being faced by Thailand, especially from the learnings of CODI (Community organization Development institute) a public organization. CODI gets funding from the government, and as a public organization they provide support and assistance to community networks, provide funding and financial support to the network organizations, coordinate with other government and Non-government agencies, and help build coorperation among

community organizations and their network at Local, Provencial and National Level. From their work they have found that the city and State governments need to focus on including women from slums and Low-cost housing as they are the shapers of the community and help understand the community needs of housing. In the framework, there is a need for formalizing involvement of women's self-help groups / NGOs needs to be mandatory in developing slums and low-cost housing projects. The slum re-development projects need to be transformative and targeted towards integrated, inclusive development to improve its residents' lives. He brought the attention to the need of physical and social infrastructure and access to health facilities within the community reach.

Sh. Vishal Goyal, started with thanking the platform for having his opinion on the housing. He drew on the importance of housing, and highlighted that housing finance palyes a very important role in adressing the housing, housing finance in terms of its, availability, accessibility, and affordability is even more important, and NHB is currently gearing up to adress the same. Currently, with India focusing on Housing programs, the total finance available to the housing sector is over 10% of the country's GDP. Most of the demand for



housing is currently being generated in tier 2 and tier 3 cities in India. And along the states, J&K and North-east India have seen a steep increase in demand for housing finance. Lending to EWS and LIG is becoming a win-win situation for the state governments, Builders / Developers and beneficiaries.



Sh. Abhijit Shankar Ray, commented upon the theme of the session and elaborated upon the experiences of World Bank while working in the State of Tamil Nadu. There is a need for developing a policy approach, and governments need to understand the local community needs and issues of individual slums and areas. Developing a policy/program targeting only the slums shall not be effective, but programs must holistically target the weaker section of society. He enlisted the contents of the policy for an

effective and efficient framwork for low cost housing. There is a need to make targeted policies for identified slums, with different States proposing different models and schemes, which poses a challenge in integrating national and state-level programs. Rregulatory framework, institutional framwork, and financial framweorks to be identified based on the policy and probable solution for implimentation.



Sh. Duk Hwan Son highlighted that all programs must be implemented in 5 phases, Feasibility, Diagnosis, Formulation, Implementation, and Assessment & Evaluation. The National Urban policy is like an umbrella for strategies, plans and actions to improve the living of slum dwellers across all scales. Need for a participatory slum upgradation programme for in-situ rights based on integration at all scales to achieve sustainable slum

upgradation, which improves the lives of slum dwellers.



In summary, the session addressed the challenge of existing slums and the future need for affordable housing in urban India. The session speakers emphasized the importance of a participatory approach and inclusive planning, with a particular focus on including women in decision-making while planning transformation projects in urban spaces. Using successful case studies from south-east Asia, the speakers demonstrate how an inclusive approach has helped make programs successful. The speakers also emphasized the importance of funding and how the various international, national and local governments are instrumental in formulating policies targeting the specific needs of slum dwellers, and also highlighted the challenges and approaches that they have adopted for the implementation of programs across various states.









Thematic Session - 4

Role of Private Sector in Housing Ecosystem

Session Brief:

This session aimed to highlight the role played by private sector in the delivery of housing. Considering the continuously changing housing demand, there exists tremendous opportunities for the private sector. It explores both supply-side and demand-side dynamics. On the supply side, these include land acquisition and regulation, upgrading property tenures, financing models, and design and development costs. On the demand side, challenges include figuring out who qualifies for affordable housing, the variety of tenure patterns for various demographics, and providing suitable finance access.

Each of these issues were meticulously discussed in the session for the benefit of many stakeholders, along with the necessary recommendations to affect the city's housing market guiding decision makers towards strategic interventions and long-term reforms that can reduce dependence on government support systems and incentivize more commercially viable affordable housing through policies and practices that address systemic gaps in the housing value chain.

Participants:

Chair & Moderator: Sh. Dinesh Kapila, Economic Adviser, MoHUA,

Panelists:

- Sh. Harsh Vardhan Patodia, President, CREDAI
- Sh. Suresh Patel, President, NAREDCO Gujarat
- Sh. Sathosh Kumar, Group Vice Chairman, ANAROCK
- Sh. Pankaj Kapoor, Managing Director, Liases Foras
- Sh. Kishore Bhatija, MD, Raheja Corp.







Sh. Dinesh Kapila opened the session with highlighting the role of housing as a determinant for national economic growth and poverty reduction. He highligted the role and importance of real estae sector and opened a discussion for how the sector could play its role in catering to the housing needs of the country.

Sh. Harsh Vardhan Patodia began the session by thanking MoHUA for providing this platform to discuss the important role of public & private partnerships in developing housing for all. He highlighted that 70% housing demand in India is from below Rs 6,00,000/- income group. Therefore, it is imperative to bring guiding framework for the private developers to work on the root cause of growing housing demand. He also elaborated on three major factors that would lead to a successful affordable housing projects i.e a) Housing Construction b) Maintenance c) Commutation







Sh. Suresh Patel highlighted the role of real estate sector, which is the 2nd largest employment generating sector of the India with an institutional inflow of 3.4 billion USD till 2021. He elaborated on how Real estate could to contribute and cater to the increasing demand of rental housing for India. He touched upon the significance of collaboration between the public and private partnerships in developing building development plan for next 10 years for the country which would pave the path rising economic vitality for the country.

Sh. Sathosh Kumar elaborated that it is imperative for private sector to contribute to the housing demands of India to meet the goal of "Housing for all". Almost 85% of the real estate contribution is from residential real estate in India and 20% of the entire contribution of real estate is coming from the tier-2 cities. He highlighted on the impetus that are contributing to the growth of affordable housing in India such as PMAY (Fulfilling the urban housing requirements in India). He discussed on the need to rethink the role of private sector for providing investments as well as focus on providing affordable housing for country's economic growth.





Sh. Pankaj Kapoor mentioned the importance of RERA, as a big enabler for the real estate bringing in the supply and consumption in the streamline. He explained the two cycles of real estate market: 2005 to 2014 – Price driven real estate market, Post 2014 - Consumption and production driven real estate market. In his presentation he was discussed about the requirement of an Empirical assessment between public v/s private sector to understand the market scenario. (Supply v/s Demand side)





Sh. Kishore Bhatija, emphasized on the importance of regulatory mechanisms for the real estate sector aligned to the interests of the consumers. What could be the potential impact & contribution of residential real estate in the country's GDP, potential of income generating commercial real estate sector for the economic growth of the country. (Creating huge employment opportunities). He also supported his argument with a case of lending v/s investment, where the requirement of more people who are willing to invest in business/real estate sector for development of the country would be desired.











Thematic Session - 5

Use of Innovative Technologies by Public and Private Agencies

Session Brief:

Public and private sector have been using innovative construction systems and materials for their projects. Under Pradhan Mantri Awas Yojana (Urban) more than 1.5 million houses are being constructed using innovative construction technologies.

The session deliberated on the innovations being used by the agencies and road blocks being faced and dwelled upon the lessons learnt and pros and cons of innovative technologies being used. How effectively the use of innovative technologies be enhanced were also discussed along with feedback from the agencies regarding these innovative systems.

The panellists shared their valuable experiences while implementing these systems in the field along with successful case studies & failures. The session also discussed the most important aspect of cost vis-à-vis other engineering & functional parameters, time etc. while using these technologies in the field in comparison with conventional construction practices. The following significant sub-themes were discussed during the session:

- 1. Sharing experience with innovative technologies
- 2. Successful case studies
- 3. Bottlenecks faced while implementing
- 4. Realistic take aways related with quality, safety and speed
- 5. Issues related with tendering/selection



Participants:

Chair: Sh. Hitesh Makwana, Principal Secretary, Government of Tamil Nadu

Moderator: Dr. Shailesh Kr. Agarwal, Executive Director, BMTPC

Panelists:

- 1. Er. Shailendra Sharma, DG, CPWD
- 2. Prof. Meher Prasad, IIT Madras
- 3. Dr. Ajay Chourasia, CBRI Roorkee
- 4. Prof. Brijesh Bhatha, CEPT University
- 5. Er. Amit Barde, L&T
- 6. Sh. Hitesh Meena, Tvasta, Chennai
- 7. Sh. Jignasu Mehta, CEO, M/s Outinord Ltd.





Dr. Shailesh Kr. Agrawal welcomed the Panelists and participants and informed about PMAY(Urban) and Global Housing Technology Challenge-India (GHTC-India) under which basket of 54 innovative technologies based of which, six Light House projects are being implemented in six cities of the country. Out of these six LHPs, Chennai and Rajkot projects have been completed and the others are under progress. He apprised that most of these innovative technologies been included in CPWD SoRs and also the new technologies and



materials are certified by BMTPC under Performance Appraisal Certification Scheme (PACS). With these opening remarks, he invited the Chair, Shri Hitesh Makwana to address the gathering and possible lessons to be learnt on emerging technologies and challenges that come across for implementation of these technologies.

Shri Hitesh Makwana started with need to include Innovative Technologies in the curriculum of the Technical Institutions so that the students are aware about these technologies and implement in future. He looked forward to suggestions from the panelists to provide inputs for development of policy by the Ministry for innovative construction technology as a take away. Few challenges highlighted by Shri. Hitesh Makwana, based on his personal experience said that State Govt/PWD have not notified the Schedule of Rates for the identified innovative construction technologies. In addition, sometimes appropriate specifications are not available for these technologies to prepare



cost estimates relevant to the preparation of tender documents. He raised the issue that in case, innovative technology is implemented, sometimes the audit issues come when EPC contract is given on the Lump sum Basis, based on new technologies w.r.t to cost since SOR is not available on these technologies



Er. Shailendra Sharma, Director General, shared that CPWD works in a very resource efficient manner because it uses public money. He mentioned that since CPWD documents are referred to as base documents in the construction industry, any inclusion of new technologies has to be tested **against their disaster resilience capacity, sustainability** etc. The CPWD is open to incorporate new technologies, however these technologies have to be tested and certified, which may be done by our technical institutions such as IITs, NCCB, CBRI etc. It has



adopted pre-cast structures which may be implemented in India, except for the IV & V seismic zones in India.

He further informed that the CPWD now issues contract on **EPC** (Engineering Procurement Construction) mode with technology neutral approach. Earlier, CPWD, used to identify technology, provide specifications, drawings and cost estimate etc. before floating the tender. Now CPWD only issues, desired layout plan with Architectural drawing and the contractor is given the freedom to implement innovative construction technology, with optimum cost efficiency within the prescribed limits of safety desired by CPWD. Apart from Construction technology, CPWD has incorporated mechanical and electrical specifications which are energy efficient such as heat pumps, chillers, solar pumps, photo voltaic cell etc.

He further explained that CPWD, has incorporated innovative technologies in construction and operations of projects viz. Atal Akshay Urja bhawan, which is 100% net zero, preengineered construction of two 8 story building during COVID for defense personnel. etc. CPWD is also assigned to complete the Central Vista project.

Professor Meher Prasad shared that, in order to make a start, one needs to make a commitment to promote new technology. The attitude matters a lot in promoting any new technology. Unless we try, it cannot be implemented. It may require patience, good leadership and perseverance to continue. He shared,

He mentioned that IIT's Madras has experience in implementing innovative construction technology of GFRG (Glass Fiber Reinforced Gypsum) which was used to construct a building in 28 days. Similarly, 8 such hostels



were also constructed at IIT Tirupati using GFRG technology. At IIT we look out for innovations in material management, functionality, time management, energy efficiency, cost efficiency, waste management, water management etc.

He emphasized that the process for safety in implementation and sustainability requires commitment from BMTPC and CPWD. Then it also requires to include standard schedule of rates (SOR). Once these are in place, one can potentially think of scaling up.



Dr. Ajay Chaurasia, CBRI focused his opinion towards Health Environment and Safety aspect at construction site. He said that there is a dire need to think about construction automation in our system, particularly enabling a sensor mechanism to send alert signals with integrated Artificial intelligence, virtual reality and human psychology to send signals to the station, about the situation of the site and alert on identification of a vulnerability to avoid any mishap at the work site. This will bring down accidents happening day to day at site and bring out more productivity in our construction system.



He also talked about building sustainably, by minimizing the use of cement and replacing it with 40% agro- industrial waste, which also reduces our carbon footprints. CBRI has conducted full scale test of 3S systems, similar tests needs to be done on other systems.

He further invited the audience to visit construction technology demonstration park of CBRI, where approved technologies are demonstrated for anyone interested to learn. These technologies are being monitored for safety point of view as well as functionality point of view. He shared that, the results are exceptionally good and that they are also working on impediments to give a good benchmarking to these technologies.

Prof. Brijesh Bhatha mentioned that the technology advancement may be used to leverage

construction of ARHCs as that would be cost effective and built timely in strategic locations with minimal effort. One can look at a paradigm shift in construction of ARHCs with a lot of new innovation happening. There is need for housing people close to their place of work. One could also think of a rent aggregator model like Air BnB, where a person can apply for an accommodation online using their mobile phones and get a rental flat booked nearby the vicinity of the work location.





Er. Amit Barde highlighted

that there is no copy paste model to deliver a fast project upto mark to end user/beneficiary's satisfaction. One needs to constantly evolve, check and develop models suitable to the intended audience who should be able to adapt to the new technology. The comfort can be evaluated in 3 general aspects, **look-touch& feel**. He also added that Government has supported L&T in their endeavourer to explore innovative construction technology. BIS has stepped up now bringing more codes for new construction technologies. Through PACS certification, BMTPC has also provided codes for the

technologies not recognized yet.



He informed that L&T has implemented these technologies which now are getting recognized by the government and getting included in the BIS, SORs. The time has come for these technologies to be implemented on large scale. L&T can support with many more new technologies in future. It can encourage other technology providers to participate and scale up.

Sh. Hitesh, Tvasta, Chennai shared his challenging experience as a startup in construction industry. The idea of this technology is to revolutionize the construction sector through automation to bring in customize product to the end user within their budget with transparency.

The concrete 3D printing is a tool that Tvasta has innovated to support in construction industry. It can enable one to explore with different types of materials and machines/equipments. One can also tap into the sustainable market domain. We have got a lot of support



from the Government of India through their incubation cell as a part of ASHA GHTC. We are thankful to the Government for the support.

He emphasized that Startups with innovative technology are very few in the construction industry. Those which are established can easily take risk, while for us we have to be consistent in our effort to deliver within the financial constraints.

Sh. Jignasu Mehta, informed that Outinord specialize in Monolithic Concrete Construction



using Tunnel Formwork. Outinord means, tool from the north. This technology is from France which was implemented in 2013, later it was discontinued and then again revived. In this tunnel form technology, shuttering can be removed in 12 hours after checking the cube strength

He mentioned that with the initiative of Government of India GHTC, we were able to prove that this technology can be implemented with speed and ease. We are able to export this technology from India to 11 countries, with the help of make in India initiative, again supported by Government of India.

Dr. Shailesh Kr. Agrawal summed up the session. Based on the discussions, the proceedings concluded with the following:

1. There have been interest amongst public and private agencies regarding use of innovative technologies and across India innovative technologies are being used. GHTC-India has triggered implementation of the technologies in the country.



- 2. It is felt that there is paucity of qualified and trained contractors to execute the projects and also while tendering there are problems being faced on account of insufficient quotations.
- 3. It is better to identify a specific innovative technology for the project rather than going for technology neutral tender. Also conventional construction using cast-in-situ RCC frame need to be omitted from the tenders.
- 4. There have been successful implementation of various projects using innovative technologies in different States, however, the information has not reached to the stakeholders and could not be utilised for further replication.
- 5. Visits to the ongoing projects using innovative technologies in the State can be arranged so that concerned professionals and policy makers have an idea of technology and its adaptation suiting to Indian conditions.











Thematic Session - 6

Mainstreaming of Innovative Construction Technologies – Initiatives & Way Forward

Session Brief:

There have been many innovations in the area of building materials and components and being implemented successfully over the years using local materials, skill, know-how and practices in our country. With fast pace of urbanisation, it is of paramount importance that the future construction in the country is sustainable, affordable and green suiting to different geo- climatic regions of the country and also in line with climate change mitigation strategies being practiced world over.

With the clarion call given by Hon'ble Prime Minister on AtmaNirbhar Bharat and Vocal for Local, it is opportune time to take stock of these innovations, create enabling eco-system, build entrepreneurship and mainstream them in the construction sector specially for low and mid-rise construction. The session deliberated on innovative construction systems available in the country & how their usage can be upscaled through collaborative efforts. Also, what is it required to be done by state & central govt., academic & research institutions & other stakeholder so that cast-in-situ framed construction is replaced by industrialized building systems.

Through Technology Sub-Mission under Pradhan Mantri Awas Yojana (Urban), MoHUA is making concerted efforts to facilitate adoption of innovative and green construction systems and building materials for faster and quality construction of houses. To take stock of innovations in the construction sector in national and international level, MoHUA has organised GHTC-India and IHTM. In order to mainstream innovations in the construction sector, the organisations under MoHUA i.e., BMTPC and CPWD are working towards certification of such innovations and inclusion in SORs. BIS is also roped in along with other line departments for wider applicability of the new materials and technologies. The session discussed these initiatives along with what is required to be done for wider replication of such technologies in the sector.

The panelists explained the efforts towards certification, development of standards, schedule of rates & specifications, inclusion in state SORs. The session also discussed expectations from researchers & innovators for smooth technology transfer in the field for grass root applications. The following significant sub-themes were discussed during the session:

- 1. What do we have in terms of innovative technologies/indigenous technologies?
- 2. Are they really effective in terms of cost, climate, hazards, performance?
- 3. Acceptance/Mainstreaming them has always been a question?
- 4. Experience working with innovative materials/technologies

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- 5. Lack of entrepreneurs, small & medium scale setups, industry for delivery?
- 6. Lack of contractors, agencies to execute the Trunkey projects?
- 7. Sustainability/speed/cost are few claims made by innovators based on single projects but when it comes to upscale, not able to prove it.
- 8. Plenty Technology providers with little or no experience to execute projects in Indian conditions
- 9. Impediments such as certification through PACS by BMTPC.
- 10. Standardization by BIS
- 11. Inclusion in CPWD, state specifications/SORs
- 12. Encouraging entrepreneurs, MSME, industry to setup plants, manufacturing unit, liaison with big industries
- 13. Encouraging contractors/agencies for implementation of innovative technologies
- 14. Educating UG/PG students on innovative technologies
- 15. Business tie-ups between technology providers & contractors, construction agencies
- 16. Incentivization??
- 17. Technology specific or technology neutral, EPC or item rate, QCBS (Quality and cost-Based Selection)

Participants:

Chair: Sh. Durga Shanker Mishra, Chief Secretary, Uttar Pradesh

Moderator: Shri Kuldip Narayan, JS&MD (HFA)

Panelists:

- 1. Prof. Meher Prasad, IIT, Madras,
- 2. Dr. Ashok Kumar, CBRI,
- 3. Er. Shailendra Sharma, DG, CPWD,
- 4. Prof. S. Chattopadhyaya, IIT Kharagpur,
- 5. Prof. Gaurav, IIT Gandhinagar,
- 6. Col Pawan Pandey, DG, MAP,
- 7. Prof. Y. Singh, IIT Roorkee,
- 8. Dr. P.N. Ohja, NCCBM,
- 9. Shri Dipan Shah, SEP,
- 10. Shri Siddharth Sharma, LHP





Shri Kuldip Narayan, JS&MD (HFA) welcomed the dignitaries. He shared the genesis of Global Housing Technology Challenges, and how this global challenge enabled us to identify the innovative construction technologies and its implementation through 6 light house projects, the first of which was inaugurated by our Hon'ble PM in Chennai and second one today at Rajkot. "We are truly honored and feel a sense of pride, that what we are able to achieve and deliver these technologies which are put to use by our PMAY(U) beneficiaries. "



He mentioned that it is commendable to state that the Rajkot project got completed inspite of COVID lockdowns. He also congratulated the team of LHP Chennai which got completed on time. He informed the gathering that LHPs at Lucknow and Indore shall be completed shortly., Ranchi shall also be over soon and Agartala shall also catch-up with pace. Further, he oriented the gathering about the session and explained the sub-themes.

He mentioned that about 50 civil engineering and15 Electrical & mechanical engineering SOR have been recently approved by CPWD. Now we need to question how these technologies can be implemented. Also work as construction agnostics and brace these technologies for future, to become carbon neutral. He posed the question to the panel of speakers on "In GHTC, what has been the learning and how that learning can be accelerated in future?'.





Prof. Meher Prasad, IIT, Madras elaborated that while promoting these technologies, safety issues related to construction on the site and standards are required to be properly addressed. He highlighted that the methods and processes have to be streamlined for large scale implementation. It requires lot of engineering thought and foresight, so that the engineering committee can effectively utilize these technologies without any apprehensions. He further elaborated that innovations can be designed based on performance goals, what is easier to achieve and can be done. Sometimes one may want to do in automation mode, they may have to think of other aspects on

targeting those projects which are easier to do, see how it has responded and then scale up.

Dr. Ashok Kumar, CBRI stressed on the need to make construction technologies disaster resilient. He highlighted that the technologies should be able to give comfort to the person living in it as well as energy efficienct so that the operational cost is reduced. He suggested that standardized designs can be worked out for these technologies to be implemented on ground. He highlighted that CBRI has promoted Technology Demonstration Park, where these technologies are getting tested. To have a mass appeal, CBRI can play a key role in centralization of these designs,



materials and technology. He suggested that an assessment of how much CO2 is getting sequestered through use of these innovative construction technologies can be done. Talking about the future, he meintioned that new technologies where waste to wealth is created, or technologies which are resource efficient, energy efficient and have less impact on climate can be explored.



Er. Shailendra Sharma, DG, CPWD mentiond that CPWD has enlisted 50 civil constructions and 22 electrical and mechanical technologies. He highlighted that one has to look at reducing the **carbon footprints** and **embodied energy** in construction. All aspects of energy created before construction, during and its final disposal stage may need to be captured for assessment of carbon footprint. He mentioned that use of different materials such as manufactured sand, C&D waste, self-compacting concrete should be encouraged. He informed that **m**ore efficient machinery and cooling

system such as chillers, heats pumps, geo-thermal energy etc. Relative cost benefit of these items has been evaluated by CPWD. Speaking about the future, he said two important aspects that need to be looked at for future strategy is, what-ever technology we use, a) it has to be **user friendly**, is able to provide comfortable habitat for living for the user. b) there has to be **more discipline** in implementing the monolithic construction technology. There cannot be change in plan once the constructed has started.





Prof. S. Chattopadhyaya, IIT, Kharagpur highlighted that GHTC has enabled the supply side, by implementation of 6 technologies in LHPs. But now enough research is required to assess the supply & demand side such as:

a. It is essential now to research and see, what are the critical factors for ensuring successful scale-up of these GHTC technologies.

b. Research on Construction and Demolition waste (C&D). In our country 15% to 20% C&D waster is put to use, while in developed countries it is more. We have a huge potential to tap this C&D waste.

- c. Under ARHC, financial incentives can be provided to private players to build and rent. (Build and Operate) Incentives can be provided to private players to take-up unused inventories, do retrofitting, rent out and maintain the inventory. (Operate)
- d. For the affordable housing projects coming up in city's outskirts, one needs to ensure to develop basic infrastructure and improve accessibility to transport, commute time etc.
- e. The learning from the construction of LHPs with 6 different technologies at 6 different locations can be scaled up for testing its applicability in other geo spacial regions.

Prof. Gaurav, IIT Gandhinagar mentioned that the new technologies may provide the possibility for retrofitting, minor modification. A feedback mechanism may be developed for having to incorporate such minor medications/additions if any, post construction.



Secondly a study should happen to know how one can reuse the material waste(C&D) of these new technologies after 20 to 25 years, as these shall also be accounted for net-zero in future.



Col Pawan Pandey, DG, MAP mentioned that it is important to indentify bottlenecks to implement any project. Therefore, time, cost and quality are three critical elements. He elaborated that the 6 LHPs have been able to address these critical elements clearly on time and quality. The cost may be high due to its experimental nature, related to processes, tools and techniques used for implementation, safety etc. The cost may cut down with experience. With project management, one can reduce the wastages. He further suggested that the contract document may incorporate project management rules for these

technologies, giving the scope to builder to implement innovation in implementation and construction.



Prof. Y. Singh, IIT Roorkee mentioned that the biggest bottleneck for any technology provider to implement these technologies in mainstream construction is non- available/limited availability of these SORs. Similarly, EPC codes are also required to be in place for implementation of good construction practices on site. Very soon, we are going to bring the SORs/ manual for these new technologies being incubated under ASHA India.





Dr. P.N. Ohja, NCCBM elaborated that the critical element of construction is to check the carbon footprint of these new technologies, because ultimate goal is to have a sustainable development of the country. He mentioned that in construction one needs to mark which change is immediate and which is long term? The other critical factor is **standardization** and **ease of replication** of these technologies to save time and cost. He gave example and said, how to **engineer a concrete** which has certain mechanical, certain durable and thermal property? The thermal value durable, light and provides thermal

comfort (reduce U and R value for thermal conductivity and retention respectively). Highlighting the importance of research, he mentioned that research is critical to design and develop materials without any wastage, which are adaptive and resilient and scalable enough to meet the huge demand anticipated for the GDP growth of Indian economy.

He also informed the gathering that research is going on to find a substitute for clinker with low grade lime to make cement, Portland composite cement, flyash and sand, lime based Portland cement, etc. the resource efficiency should check on less production of carbon footprints. Eg: alkali activated cement, sulpho alluminate cement, ferro alluminate clinker, these are already in use in China. These are tried and tested models, which can be improvised along with using of our indigenous data. Production of clinkers less cement having zero carbon emission. He further informed that the use of byproducts of other industries as aggregate is an important part of **circular economy**. He mentioned that their research findings have been communicated to Bureau of Indian Standard (BIS) for possibility of using slags generated from Iron, Steel and copper industries. By tapping these resources 20 million tones of extra aggregate can be generated for use in construction sector. Shri Dipan Shah, Society for Environment Protection (SEP)

highlighted that the developers often face challenges for implementation of alternative technology. Elaborating the work of SEP, he mentioned that the organization provides developers to create a market acceptance of these products such as AEC, Rat trap bonds, filler slabs. The entire journey of the technology (its acceptance and failures) from piloting the material to it mainstream acceptance is captured by SEP. He suggested that a network can be

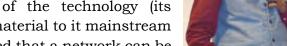
created, where experts, policy makers and practitioners from the construction domain can share their views, provide advice, ask for help or opinion and be able to build these requirements in regular conventional plan for implementation. He also suggested that CREDAI/NEREDCO, CBRI, IITs, Ministry may come together to address these queries from time to time and keep working towards exchange of ideas, certifying new practices, etc. With support of these certifications, as a builder one can easily implement new technologies and scale up. He further suggested that discussion on non-engineered retrofitting, for housing stocks which exist that may be restored to increase the longevity of the buildings.

Shri Siddharth Sharma, SGC Magicrete highlighted the importance of SORs for implementation of 3D model pre-cast technologies and suggested that the same may be made available at variable price and design in the market. He elaborated, these SORs may be made available for implementation at State or Municipal level. He suggested that the basic rates are there, but further SORs may be included. CPWD may incorporate these additional SORs so that large scale projects can be deployed.

Sh. Durga Shanker Mishra, Chief Secretary, Uttar Pradesh addressed the panelists and indicated that it is an opportune time to have key influencers to speak on the topic and he is especially happy to see the young generation/ students showing interest in the technology, listening with keen interest. He summarized the session viz. He highlighted that the purpose of technology should be to provide a comfortable living for a family. House is a need of every family. It is a basic need for safe and better living. He mentioned that compared to JnNURM where only 8.5 lakh households were completed, today due

to the commitment of the government, we have reached out to more than 1 crore households.

Mentioning about PMAY(U), he highlighted that the success can be attributed to providing cafeteria approach through four vertical of PMAY(U), viz., AHP, BLC, CLSS and ISSR, Ease of doing business (EoDB), planned approach to relocations nearby the city, emphasis on basic amenities, access to finance, empowering States etc. "In order to meet the vision of our Ho'ble PM to become a developed nation by year 2047, when India celebrates its 100th year of independence, technology would also play a vital role in speeding up the











construction which would support in timely delivery of infrastructure hence contributing to economic growth of India."

He highlighted that it is evident that, while other nations struggled during COVID, India's economy was under control. It is evident from the fact that the present GDP of India is 7%. He highlighted that the nation has managed to bounce back and stabilize our economy quickly. "Similarly, as we are embracing new technologies, we have to be ready to implement, plan for future waste (C&D) created after these building have aged."

He further highlighted, unlike conventional technologies, where one activity follows the other activity, in new technology, one can implement parallel activities to expedite the construction. Eg: like Lego blocks, the pre-cast moulds are prepared somewhere and joined on site. These ideas are not new, we can see these example in temples in khajuraho and now in Ram Mandir in Ayodhya, where the stone blocks are carved and joined later on the site. To increase the lifespan of these technologies, one may use the indigenous knowledge to revive the techniques and imbibe them with the new technologies.

He mentioned that apart from materials and their affordability, our processes are to be efficient (save time) and sustainable (minimum use of resources or require minimum maintenance cost) and climate resilient. He asked the panel, how to replicate the models? how to reduce the cost (labor, materials, time cost). With the standardized techniques, it may take less time. He suggested to explore retrofits post construction to enhance the thermal comfort to the user. How to conserve water and avoid less wastage during construction. How to make construction method, less labor intensive and implemented with ease. 3D technology is one such option, where machine pours concrete based on the layout and choice of materials and ratio provided for pre-mix of concrete. This way one can control the quality, and quantity for construction since it is computer operated.

With respect to the aspects of design, he suggested that one can create combinations of airflows, openings, shadows, in such a manner that the desired thermal temperature and ambiance due to light is achieved. In his experience as former Secretary, MoHUA he came across two challenges while implementing the missions, he observed that for any infrastructure development, there is a spillover of slums adjacent to the new constructions Since the labour is required for building this infrastructure, can we plan ahead, to house this labor by constructing apartment in the area where the construction is planned? Later the same apartment may be put on rental for housing informal sector worker who are vegetable venders, office boy, guard, house maid, etc. who would be the part of this ecosystem. This shall abate the development of new slums.

The moderator summed up the session. Based on the discussions, the proceedings concluded with the following:

1. The efforts made by Ministry of Housing & Urban Affairs towards innovative technologies through GHTC-India and Light House Projects are laudable. However, these events should be organised on a regular basis to sensitise the stakeholders and disseminate the information to the public.



- 2. Light House Projects are serving their role as pilot projects successfully and being visited by the stakeholders and others. These projects are able to generate interest amongst professionals and beneficiaries.
- 3. In order to create enabling environment for mainstreaming innovative technologies, the different activities undertaken by CPWD, BIS and BMTPC e.g. certification, Schedule of Rates (SORs) and Specifications, office circulars, development of codes, demonstration construction are helpful towards promotion of new technologies and need to be continued on regular basis.
- 4. The Govt. departments and public sector undertakings who are into construction, need to be mandated to use GHTC-India shortlisted technologies.
- 5. The case studies of innovative technologies need to be documented properly so that it can be used by others for further adaptation. The maintenance aspects while using these innovative technologies over the service life of the building need to be properly documented as well. Quality control measures using innovative technologies should also be documented along with do's and don'ts.
- 6. It is also felt that technology providers and the general contractors are not able to execute the projects with synergy. There is need for technology providers to take up the projects and build their capacities as contracting agencies as well.
- 7. There is also need to relook at the tendering and selection criteria with respect to pre-qualification, contract conditions, payment schedule and other related issues so that there is favorable environment for dissemination of innovative technologies.
- 8. The costing along with environmental and functional performance with regard to innovative technologies need to be clearly divulged after the LHP projects are over so as to make comparison with conventional technologies.
- 9. There is also need for educational institutes to educate their engineers and architects regarding innovative technologies through UG and PG courses. The curriculum for such courses needs to be developed and implemented so that fresh graduates use innovative technologies in the field.
- 10. Academic institutes and research laboratories need to study these innovative technologies for their performance, structural and functional parameters and life cycle cost. There is still considerable doubts amongst professionals about use of these innovative technologies and it can only be alleviated through constant research and evaluation.









Plenary Session - 2

Learnings from PMAY(U) – Best Practices from States

Session Brief:

Since land and colonization are State subjects as per the Constitution of India, States/UTs have been constantly innovating and evolving approaches to provide affordable housing for the urban poor in our cities. Pradhan Mantri Awas Yojana (Urban) is being implemented by MoHUA since 2015 through States/UTs.

The session aimed to bring out the innovative policy, finance, administrative, planning, construction technology, sustainable construction practices undertaken by States/UTs to facilitate the implementation of PMAY(U).

The learnings from the session were considered to be helpful for recognizing and formulating the future of housing policies/programmes in the country. Overall, it aimed to answer questions like:

- What have been the innovative best practices adopted by States/UTs in giving fillip to the implementation of PMAY(U)?
- How has the implementation mechanism of the Mission varied from State-to-State?
- How has the Mission helped answer the local housing issues of the States/UTs? What are the limitations faced by States/UTs in the implementation of the Mission?

Participants:

Chair: Shri Kaushal Kishore, Hon'ble Minister of State, HUA

Moderator: Shri Kuldip Narayan, JS&MD (HFA)

Panellists:

- 1. Sh. Ajay Jain, Special Chief Secretary (Housing), Govt. of Andhra Pradesh
- 2. Dr. Sharmila Mary joseph, Principal Secretary, Local Self Government Department (LSGD), Govt. of Kerala
- 3. Sh. Govinda Rao, Managing Director, Tamil Nadu Urban Habitat Development Board, Govt. of Tamil Nadu
- 4. Sh. Shailesh Agarwal, Executive Director, BMTPC





Sh. Kuldip Narayan highlighted the role of innovation in construction technologies in changing the approach to mitigate the housing gap and periodic maintenance considerations. He further added that he India Urban Housing Conclave 2022 is the start of a journey to build a new Inclusive and Resilient India.

Sh. Ajay Jain mentioned that there are various Schemes of the Government of India which are supporting the PMAY programme such as the AMRUT mission, UJWALA scheme, etc. He also mentioned that ₹30,000 crore have been spent by the Government of Andhra Pradesh to provide 75 to 150 sq. yard sized plots to various beneficiaries. He further added that around 17,000 colonies have been built by acquiring land to provide quality housing services to various beneficiaries. Mr. Jain shared with participants that a secretariat system has been made for every ward and village with a staff of



around 10 officials to ensure effective governance and project implementation on ground. He also added that the Government is delivering services through grama and ward sachivalayams and is trying to construct around 20,00,000 houses in Andhra Pradesh in next 2 years.





Dr. Sharmila Mary Joseph highlighted that PMAY-U converged with LIFE Mission which is the comprehensive housing Scheme of the Government of Kerala which also addressed the issue of landless through apartment complexes. She also informed the participants that the highest unit cost amongst all States under BLC (N)- $\overline{4}$ lakhs is given to each beneficiary under BLC in addition to the 1.5 lakhs provided by GoI, 2.5 lakhs is provided by the State Govt. and $\overline{4}$ 1.5 lkah by ULBs. Dr.Joseph suggested for the convergence with State and Central

Government Schemes for providing maximum benefits to the beneficiaries. She further recommended that in order to ensure inclusion, beneficiary selection through ward level committees should be done with the support of Kudambashree community network.



Sh. Govinda Rao in his presentation focused on the role of Tamil Nadu Housing Bboard in providing multiple options through various schemes on different housing sizes to cater to the needs of diverse beneficiaries. He elaborated the role of various agencies in supporting the beneficiaries by helping them enter into agreements with Banks to make arrangement for payment of loan amounts in small installments to the respective Banks. He highlighted the importance of maintaining of the housing stock and elaborated on how maintaining is done through approaching the RWAs to come up with an appropriate

strategic mechanism to ensure timely and periodic maintenance of various houses.

Sh Shailesh Agarwal in his speech, praised the technological advancement of the countries and highlighted how some of those were showcased exceptionally on the conclave. He elaborated on affordable sustainable housing accelerator's (ASHA) laboratories which are setup in four locations of the country which explores various home grown construction techniques to construct affordable housing for the people of the country. He shared his vision on incresing the outreach of these techniques through various inter agencies exchanges & digital means.















VALEDICTORY SESSION 21st October 2022



The Valedictory Session was held on 21st October 2022 at 10.00 am in the inaugural hall of the venue of the event at Shastri Maidan, Rajkot and presided by Shri Kaushal Kishore, Minister of State (HUA). Shri Ajay Jain, Special Chief Secretary (Urban Development and Housing, Govt of Andhra Pradesh), Dr. Sharmila Mary Joseph (Principal Secretary, LSGD, Govt. of Kerala), Shri Govind Rao (Mission Director PMAY-U Govt. of Tamil Nadu), Shri Amit Arora, Municipal Commissioner, Rajkot, Dr. Shailesh Agarwal, BMTPC. Shri Kuldip Narayan, JS&MD (HFA), MoHUA began the session by welcoming all the guests on the dais.



To begin with a short film on highlights of 3 days events consisting of Hon'ble Prime Minister visit to exhibitions, stalls, Missions exhibition, Indian Urban Housing Conclave snapshots, panel discussions etc. were screened along with massive work done at the backend for preparing for the event.

Shri Kuldip Narayan, JS &MD (HFA) delivered the welcome address and briefed about all the activities during 3 days event including inauguration by Hon'ble Prime Minister, visit to exhibitions, handing over keys of houses to LHP beneficiaries of Rajkot, display of technologies in IUHC, showcasing models and series of panel discussions on various



subjects. He thanked government of Gujarat for their active support in organizing the event successfully.



It was followed by Awards distribution under the category of Best Exhibitor as selected by the Expert Committee. Three Best Exhibitor award was as follows:

- 1. Government of Kerala for Community based implementation of PMAY-U by Kudumbashree through convergence with Life and other Missions.
- 2. Magicrete for Display of Precast Modular Volumetric Construction technology and AAC blocks and Panels.
- 3. NCL Industries Ltd. for Display of various types of cement bonded boards and cladding elements to be used for various applications in building construction.

All the awardees were felicitated by the Minister of State, HUA and other dignitaries on the dais.





1st Prize Received by the Representatives of Government of Kerala



2nd Prize Received by the Representatives of Magicrete





Audience in the Valedictory session in inaugural hall



3rd Prize Received by the Representatives of NCL Industries Ltd.

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The second set of Awards were given to students for best poster Presentation during the event. The jury members had completed the evaluation and made following broad observations:

- Overall, there was a good representation of Institutions from pan India, including IITs, NITs, SPAs, SAP, CEPT, BIT, RECs among others from all parts of India.
- The subject matter has also been diverse and covering all facets of Affordable housing value chain and stakeholders.
- The communicative strategy has ranged from abstract representation of idea to detailed representation of evidenced based research and recommendations to representation of scientific experiments in technology and material and recommendations.

Based on the evaluation criteria mentioned in the Call, the following were the top 3 winning entries and the winners were also felicitated by the Hon'ble Minister of State. The winners include:

- 1. **First Prize** to Wagh Chandrashekhar, Abhishek Kamisetty and Dr. G Indu Siva Ranjani, IIT Guwahati and CEPT University.
- 2. Second Prize to Dishi Tyagi and Sapan Hirpara, CEPT University
- 3. Third Prize- Arunabh Kaushik and Sanchita Chanda, IIEST, Shibpur

The glimpse of the award distribution under Best Poster Presentation category is presented below:







The award distribution was followed by release of two publications prepared by the Ministry with the title:

- 1. Discourses on Affordable Housing in India and Best Practices under PMAY(U)
- 2. Compendium of RACHNA Trainings for Affordable Housing





Shri Kaushal Kishore, Hon'ble Minister of State, HUA expressed his gratitude to Hon'ble Prime Minister for inaugurating the event and LHP Rajkot and visiting the exhibitions. He mentioned that under the leadership of Hon'ble Prime Minister the country is making progress at faster pace. Housing is considered as an important milestone which was delivered to the citizens of India through PMAY(U). He highlighted that the basic amenities are being provided through other schemes such as *Saubhagya* for electricity connection, water supply through Har *Ghar Nal Har Ghar Jal*, self-employment, loan to the street vendor through SVANidhi Yojana etc. All these efforts are contributing to build strong Bharat- an *AtmaNirbahr Bharat*. The housing mission is striving towards providing houses in a way that no citizen of urban India should be without pucca house.

So far 1.23 crore houses have been sanctioned under the Scheme. The scheme has been extended till December 2024 by the Hon'ble Prime Minister to complete all the houses and achieve the goal of Housing for All. He further expressed his gratitude to the States who are implementing the scheme by converging with other Schemes in innovative way. He also thanked all the representatives of the State, exhibitors, social organizations, experts and panelists to participate in the event and also congratulated the award winners under different categories. He highlighted that the Ministry has been able to approve such a large number of houses with estimated investment of 3.3 lakh crore which will also generate employment. Entire world is looking towards India to the path for implementing such a massive social housing program.

He further mentioned that the State government have taken innovative steps for implementing the scheme such the experience shared by Government of Kerala converging livelihood programmes, Government of Andhra Pradesh providing land for house construction, Tamil Nadu with high State share narrating as to how they are moving towards providing houses to eligible beneficiaries. We can learn from experience from States and emulate them as per the local context.





He mentioned "at this occasion, I urge all the participants that we have to make a strong and developed India by putting all our efforts to fulfill the dream of our Hon'ble Prime Minister so that our country emerge as a leader before the world."







During the 'Vote of Thanks' address JS&MD (HFA) expressed his gratitude to the Hon'ble Prime Minister for inaugurating the event and handing over the keys to beneficiaries of Rajkot LHP project. He further, presented his gratefulness to Shri Hardeep S Puri, Hon'ble Minister HUA and Shri Kaushal Kishore, Minister of State (HUA) for taking out time and gracing IUHC. Mentioning about awardees of Best Exhibition he said that it was very difficult to decide upon awardees under this category as all of them had displayed their stalls very nicely. After several round of discussions, a decision was made, thus I congratulate them and at the same time appreciate the efforts of others, he said.

He also thanked Government of Gujarat and specially the Commissioner, Rajkot Municipal Corporation played instrumental role to turn this barren field into such a massive event ground. The control room set by Rajkot played key role in seamless logistics for all guests. The team of Gujarat Government led by Shri Mukesh Kumar, Principal Secretary made all the efforts to make us feel at home, he expressed his appreciation to everyone for making it a successful event. At the end he thanked all state officials, event management company and who worked with all fine details. DAY-1 & 2: Technical screening/ Shortlisting of construction systems/ Products/ Materials exhibited in IUHC



Technical Screening/ Shortlisting of Construction Systems/ Products/ Materials exhibited during IUHC 2022

- **a)** For technical screening/ shortlisting of construction Systems/ products/ materials exhibited during IUHC-2022, MoHUA constituted the Technical Evaluation Committee (TEC) which is entrusted to screen and shortlist participating innovative construction technologies and materials for their suitability and adaptability in different geographical and climatic regions of the country based on the presentations, information and display during the exhibition.
- **b)** The composition of the Technical Evaluation Committee (TEC) constituted by MoHUA vide letter no.N-11013/2022-HFA-V-UD/FTS-9139247 dated 16.09.2022 is as follows:

S.No.	Members	
1.	Director General, CPWD	Chairman
2.	Nominee of CPWD (not below the rank of Chief Engineer	Member
3.	Director/Nominee, CBRI	Member
4.	Director/Nominee of SPA, Delhi /CEPT, Ahmedabad	Member
5.	Representative of IIT Kharagpur/ IIT Madras/IIT Mumbai/ IIT Roorkee	Member
б.	Executive Director, BMTPC	Member Secretary

- **c)** All the applicants were asked to submit the technical information of their technology/system/product/materials in a specific template in online mode.
- **d)** TEC interacted with applicants/Exhibitors who submitted applications for display of their system/product/materials during IUHC-2022 in the Expo Hall.
- e) The applicants made presentations of their technologies /systems/ products/ materials before TEC members. The TEC members interacted with the applicants. There were total 88 exhibitors, out of which 54 exhibitors were covered under technologies/ systems/ products/ materials/ components category and 34 exhibitors included State Govt. departments /financial institutions/ Agencies promoting/ working in sustainable constructions etc.







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- **f)** After due consideration and assessment, TEC has grouped all the technologies/systems/products/materials in following **Six categories, namely:**
 - i. Alternate Structural/ Building System
 - ii. Application of Alternate Structural / Building Systems in Housing Projects
 - iii. Walling/Roofing/ Doors & Windows
 - iv. Thermal Comfort/ Energy Efficient Solution/ Green Technology /Waste Utilization
 - v. Chemical Admixtures / Waterproofing Chemicals,
 - vi. Project Planning & Management, Software Solutions
- **g**) Based on the presentation/ interaction with the applicants and documents/ information submitted, the Technical Evaluation Committee scrutinized and shortlisted the technologies/ systems/ products/ materials considering various parameters like durability, advantage over conventional construction/ process, cost effectiveness, environment friendliness, sustainability, speed, resource efficiency etc.









VISIT TO LHP RAJKOT BY IUHC VISITORS



Ministry had made facility for facilitating visit to LHP Rajkot for various stakeholders including officers from various State/UT governments, private sector, students/faculty members and other visitors of IHUC. State Government of Gujarat and Rajkot Municipal Corporation was also requested to make necessary arrangements for smooth conduct of the visit to LHP Rajkot site.



During three days of IUHC various students/ faculty members and other participants visited the project site and learnt the overall construction process. Few glimpses of the site visit is as under:











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GLIPSES OF EXHIBITION OPEN FOR DIGNITARIES & PUBLIC





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Ministry of Housing and Urban Affairs Government of India





19-21 OCTOBER 2022 SHASHTRI MAIDAN, RAJKOT

Session Partners:











Sessions at a Glance

Day 1

Wednesday, 19th October 2022

02:00 pm - 05:00 pm	Registration of delegates
06:30 pm - 08:00 pm	Inauguration of Exhibition and Walkthrough by Hon'ble Prime Minister

Inaugural Hall

08:15 pm onwards

Felicitation of winners of **PMAY-U Awards 2021** & Release of **MoHUA publications**

Day 2

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Thursday, 20th October 2022

Hall 1		
	10:00 am - 11:45 am	Plenary Session 1: Policy Dialogues for Beyond PMAY-U
		Board Room
	11:45 am - 01:15 pm	Brainstorming Session 1: Multipronged Approaches to Slum (Re)development
		01:15 pm - 02:00 pm - Lunch
	02:00 pm - 03:30 pm	Brainstorming Session 2: Formalizing Informal Settlements & Slums- Role of Planning, Policies and Financing
		03:30 pm - 03:45 pm - Tea Break
	03:45 pm - 05:15 pm	Brainstorming Session 3: Global Approaches on Sustainable, Affordable, and Inclusive Housing
		Hall 1
	11:45 am - 01:15 pm	Thematic Session 1: Climate Smart Buildings - Focus on Thermal Comfort & Energy Efficiency in Affordable Housing
		01:15 pm - 02:00 pm - Lunch
	02:00 pm - 03:30 pm	Thematic Session 2: Public-Private-People Partnerships (4Ps) for Inclusive & Sustainable Housing
		03:30 pm - 03:45 pm - Tea Break
	03:45 pm - 05:15 pm	Thematic Session 3: Policy, Institutional and Financial Frameworks for Scaling of Slum Redevelopment Initiatives
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	Hall 2
11:45 am - 01:15 pm	Thematic Session 4: Role of Private Sector in Housing Ecosystem
	01:15 pm - 02:00 pm - Lunch
02:00 pm - 03:30 pm	Thematic Session 5: Use of Innovative Technologies by Public and Private Agencies
	03:30 pm - 04:00 pm - Tea Break
	Inaugural Hall
04:00 pm - 06:15 pm	Thematic Session 6: Mainstreaming of Innovative Construction Technologies – Initiatives and Way Forward
Day 3	riday, 21 st October 2022
	Inaugural Hall
10:00 am - 11:30 am	Plenary Session 2: Learnings from PMAY(U)- Best Practices from States
	11:30 am - 11:45 am - Tea Break
11:45 am - 01:00 pm	 Valedictory and Closing Session chaired by Hon'ble Minister of State (HUA) Release of MoHUA publications Felicitation of winners of Poster Competition and Exhibitors
	01:00 pm onwards - Lunch

NOTE: Poster competition and TEC to continue in the exhibition area on Day-2 & 3



Plenary Session - 1 : Policy Dialogues for beyond PMAY(U) 20th October 2022 | 10.00 am to 11.45 am | Hall 1

MoHUA has been putting conscientious efforts in addressing the rising needs of citizens in rapidly growing cities and towns. While PMAY (U) aimed to provide Housing for All adopting the cafeteria approach through four verticals, there is still a long way to go before the housing deficit of the country is addressed completely. Hence, there is a strong need to deliberate and brainstorm with respective State/UT Governments and domain experts of the urban sector for devising strategies for slum redevelopment, prevent future growth of slums and also seek ideas and suggestions about the future of affordable housing policies in India.

With this objective, MoHUA created a platform for dialogues with national and international development institutes, civil society organisations, academic & research institutions and respective State/UT Governments for exchange of strategic, tactical and implementation ideas for policy measures beyond PMAY(U). So far, the Ministry has conducted 19 policy dialogues with multiple organisations. These dialogues have not only created an open platform for idea exchange but also brought forth new and innovative perspectives in the field of affordable housing. As a step forward, the culminating dialogue is proposed.





Sh. Amrit Abhijat Principal Secretary, Urban Development, Government of Uttar Pradesh



Ms. Parul Agarwala Country Programme Manager, UN-Habitat India

Moderator



Sh. Kuldip Narayan JS&MD (HFA), MoHUA



Dr. N Shridharan School of Planning & Architecture New Delhi



Ms. Shikha Srivastava Head, Urban Habitat & Migration, TATA Trusts



Sh. Gautam Bhan Associate Dean, IIHS



Brainstorming Session - 1 : Multipronged Approaches to Slum (Re)development 20th October 2022 | 11.45 am to 01.15 pm | Board Room

With significant population growth, while cities have expanded infrastructure, but rarely been ahead of the demand, specially affordable housing. Limited options are then available to the low-income segment, often leading to an increase in slums and squatter settlements. With every sixth Indian living in slums and 65 percent of our urban centres being a slum, slum upgrading or relocation programmes and projects are not unknown to the country. The 'sites and services' approach devised by the World Bank in Chennai, India in 1972 is one such approach where the focus shifted from supplying a fully serviced house to that of providing only serviced land. "Sweat equity" and other resources of the beneficiaries in the actual construction of the house was used instead. With the above in mind, this session intends to give spotlight to the new and innovative elements in slum upgrading that ensure a green, healthy, economically prosperous, and equitable future to all. It also will attempt to unpack relocation and draw attention to key questions such as:

- 1. What elements should a comprehensive slum upgrading programme entail? What benefits do public spaces and streets bring for transformation within the settlements?
- 2. What are new and cutting-edge elements that will ensure these upgraded slums have a sustainable future? How can we include green jobs within the upgradation agenda?
- 3. How do we create context-specific engagement processes and establish local partnerships to involve the informal settlement dwellers?
- 4. Is relocation of slums a cost-effective answer or the only solution? What are other solutions and what benefits would they bring, for example ensuring livelihood continuity and socio-economic safety nets?
- Are there opportunities to convert under-utilized urban land, urban regeneration as well as assessment of available under-utilized housing.



Moderator



Sh. Kuldip Narayan JS&MD (HFA), MoHUA



Ms. Kerstin Sommer Project Manager & Human Settlement Officer UN-Habitat

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Ms. Mansi Sachdev Senior Urban Planner, UN-Habitat



Sh. R.D.Padmakumar Resource Person Laurie Baker Centre for Habitat Studies



Sh. Jafar Malik Executive Director Kudumbshree, Kerala



Ms. Manimekalai Senior Planner Tamil Nadu Urban Habitat Development Board (TNUHDB)



Sh. Patrick Canagasingham Chief Operating Officer Habitat for Humanity



Ms. Aparna Das Senior Advisor GIZ, India



Brainstorming Session - 2 : Formalizing Informal Settlements & Slums-Role of Planning, Policies & Financing | 20th October 2022 | 2.00 pm to 3.30 pm | Board Room

This session designed as an interactive and moderated conversation where the speakers will share their responses to a set of key questions aimed at gaining an in-depth perspective on the theme. A few key questions are:

- 1. Slum networking/Integration as an idea has been around for a while now. But why is it that this idea has seen very limited
- successes and has not been able to scale up as was envisaged?
- How can informal settlements be 'networked' and 'integrated' within the city since many are located along infrastructure corridors?
- 3. What are some mechanisms by which slums, and informal settlements can be encouraged to pay for the municipal services?
- 4. What are socio-economic implications of introducing fees for municipal services on slums/informal settlement households?
- 5. What are the models/mechanisms in lieu of municipal service provision in slums/informal settlements?
- 6. How can green/sustainable innovations/nature-based solutions help in creating new (affordable/durable) models of infrastructure provision to these overlooked areas?
- 7. How can infrastructure and service provision provide opportunities for local economic development, socio-economic empowerment and ultimately a reduction of poverty?
- 8. How can the well-being of the communities be achieved while providing a sustainable financing model for urban local bodies to meet the scale needed?

Chair & Moderator



Dr. Barsha Poricha Technical Head, Centre for Urban and Regional Excellence (CURE)



Ms. Banashree Banerjee Independent Architecture & Planning Professional



Sh. Rajendra Joshi Founder and Managing Trustee SAATH, Ahmedabad



Ms. Amita Bhide Professor, Centre for Environmental Health, TISS



Sh. Anshu Sharma Co-Founder, SEEDS



Ms. Darshini Mahadevia Professor & Associate Dean, Arts, Ahmedabad University



Sh. Vishal Singh Chouhan Municipal Commissioner, Dewas, Madhya Pradesh





Brainstorming Session - 3 : Global Approaches on Sustainable, Affordable, and Inclusive Housing 20th October 2022 | 03.45 pm to 05.15 pm | Board Room

The challenge of providing enough good affordable housing is a problem facing all countries today, and particularly cities that are the fastest growing. The problem for policy makers is to know where best to intervene, given competing demands on resources and legislative time. It therefore should help to indulge in dialogues with stakeholders from a range of approaches and their strategies chosen for their similarities to the situations in many developing countries, as well as for the different approaches they have adopted.

However, it should be noted that there are also surprising similarities between the cases themselves. Many strategies such as the proactive role played by local authorities in developing new settlements, the use of cooperatives in management, and the mix and balance of tenures and housing types emerge time and again and provide a great number of lessons to be learned for the Indian context.



Ms. Sejal Patel Professor and Program Chair, CEPT University

Dr Lana Winayanti

Former Director General for Housing Finance,

Ministry of Public Works and Housing,

Republic of Indonesia



Ms. Mansi Sachdev Senior Urban Planner, UN-Habitat

Sh. . Ahila Ganesan

Senior Director.

ThinkCity Malaysia



Ms. Monika Glinzler Director of International Relations, Department Of Human Settlements Republic Of South Africa

Ms. Pooja Nandy

Fellow

HUDCO's HSM



Sh. Hong Soo Lee Senior Urban Specialist, Sustainable Development and Climate Change Department, Asia Development Bank (ADB)



Sh. Vijay Anadkat Program Senior Fellow Sustainable Cities & Transport, WRI



Ms. Namrata Kapoor Senior Consultant Academics & Research, IIHS



Sh. Washington Fajardo Architect and Urbanist, Former City Planning Commissioner Municipality of Rio de Janeiro



Sh. Gireesh Singh Director, Rising Japan





Thematic Session - 1 : Climate Smart Buildings - Focus on Thermal Comfort & Energy Efficiency in Affordable Housing | 20th October 2022 | 11:45 am to 01:15 pm | Hall 1

The building sector is second largest consumer of electricity in India. The growing economy of our country, rapid urbanization, and massive construction activity across the country will lead the exponential rise in our need of pucca houses and its associated energy needs. To provide housing for all, India is running one of the biggest social housing programs – Pradhan Mantri Awas Yojana (PMAY-U). It is a flagship initiative of the Government of India that aims to provide around 122 lakhs Affordable Housing. It is important to note that houses once built last for at least 50–60 years and thus have the potential to impact resources usage during its life span. Thus, it is very important to ensure that these constructions are energy efficient as well as thermally comfortable.

Energy efficiency in affordable housing plays a very critical role and needs action across building design, construction, material selection, and operational optimization. It's important to focus on low-cost design solutions, passive measures, low-energy comfort systems etc to ensure a sustainable and affordable solutions to the habitants of affordable housing. In addition to the energy efficiency, thermal comfort in affordable housing is most important. Massive efforts are given by the government to provide a pucca house to all but it is important to ensure these houses are thermally comfortable with least dependency on active measures to meet the need of cooling or heating of indoor spaces. This will not only reduce the need of purchasing expensive equipment by the habitant of affordable housing but also ensure a sustainable and low-carbon building operation.





Sh. Hitesh Vaidya Director NIVA



Dr. Saket Sarraf PS Collective





Sh. Vikash Ranjan Domain Expert



Ms. Bijal Brahmbhatt SEWA MHT



Ar. Andreas Binkert 2000-watt Smart City Association



Sh. Yash Shukla Professor CEPT, University



Ar. Suhasini Ayer Auroville Design Consultant



Sh. Akshima Ghate Managing Director, Rocky Mountain Institute- India





Thematic Session - 2 : Public-Private-People Partnerships (4Ps) for Inclusive & Sustainable Housing 2.00 pm to 3.30 pm | Hall 1

This session will explore how cities can work with different players to incentivize provision of well-located affordable housing units and ensure an equitable future to the community. Some key questions that this session, organized as a panel discussion will attempt to answer are:

- What are some new and transformative approaches that the private and public sector can take to ensure that the vulnerable sections of the society get access to affordable housing?
- Who are the actors that can participate in building an equitable future while ensuring their interests as well?
- What are mechanisms to engage communities and what role can community play in the different approaches to sustainable, affordable, and safe housing?
- Are there examples of 'people as a resource' where local solutions have benefited the community and the city as a whole?



Sh. Hitesh Vaidya Director NIUA



Ms. Parul Agarwala Country Programme Manager, UN-Habitat India



Sh. Amit Arora Municipal Commissioner Rajkot



Dr. Renu Khosla Director, CURE



Sh. lan Shapiro CEO, Reall



Ms. Francesca Lionetti Associate Expert Housing Rights, Diversity & Inclusion, UN-Habitat -0

Sh. Pratima Joshi Executive Director Shelter Associates



Sh. Harpal Dave Assitant Town and Country Planner, Town and Country Planning Organisation



Ms. Sarika Chakravarthy Senior Sector Coordinator NUA





Thematic Session - 3 : Policy, Institutional, and Financial Frameworks for Scaling of Slum Redevelopment Initiatives | 20th October 2022 | 03.45 pm to 05.15 pm | Hall 1

Addressing the challenge of existing slums and future need for affordable housing in urban India must adopt a "systems approach" based on a set of core principles that lend to a systematic change with long term vision for driving transformation at all levels. To deliver "adequate housing" at scale in India requires a comprehensive systems approach that offers flexibility to respond to the changing urban dynamics in cities and communities. Three pillars encapsulate the proposed Systems Approach: (I) Integration: sectoral and institutional integration; (ii) Holistic planning and governance, and (iii) Partnerships for financing. A systems approach acknowledges that given the urban diversity in India, the conventional "one-size-fits-all" rationale must be replaced with a "fit-for-purpose" intent in design and implementation of policies and programmes.

- What are the new and transformative approaches that can be taken to address the housing needs of the most vulnerable groups? How can progressive urban housing programmes be scaled up?
- An impact-oriented governance requires successful convergence of mandates and responsibilities of multilateral organizations, national and sub-national governments, and networks of local governments, and organization. What interventions are necessary for multi-level institutional reforms to be pro-equity to slum upgrading and preventing slums?
- What are the new and emerging partnerships for social equity-oriented financing? How can the risks of privatization of public goods with engagement of non-state actors and other types of external donors be minimized and mitigated?
- What policies/procedures can be put in place to ensure such frontier technologies are aligned with the universal values?

Chair & Moderator



Ms. Parul Agarwala Country Programme Manager, **UN-Habitat India**



Ms. Bindu Sreedathan **Deputy Director General (HFA)** MoHUA



Sh. Arthit Tangtasawad Senior Architect **Community Organization Development Institute (CODI)**



Ms. Lajana Manandhar **Executive Director** LUMANTI, Asian Coalition for Housing Rights (ACHR)



Ms. Sri H. Sofjan Senior Program Administrator & Strategist, Huairou Commission



Sh. Sanjay Joshi Senior General Manager & Head, Affordable & Green Housing, HDFC Ltd.



Dr. Yan Zhang Senior Urban Specialist and **Coordinator for Housing** World Bank



Sh. Duk Hwan Son Senior Programme Officer **UN-Habitat**



Sh. Abhijit Shankar Ray Senior Urban Specialist, World Bank



Dr. N Shridharan **School of Planning & Architecture** Bhopal



General Manager **National Housing Bank**



Sh. Vishal Goyal



Thematic Session - 4 : Role of Private Sector in Housing Ecosystem 20th October 2022 | 11.45 am to 01.15 pm | Hall 2

The session aims to highlight the role played by private sector in the delivery of housing. Considering the continuously changing housing demand, there exists tremendous opportunities for the private sector. However, the role of the government is to facilitate the private sector and create an eco-system where housing delivery can reach the last mile with an active participation of the private sector. The session aims to create a platform for dialogue between the public and private sector in order to create a self-conducive and sustainable housing future for the country.

Chair & Moderator



Sh. Dinesh Kapila Economic Advisor, MoHUA



Sh. Harsh Vardhan Patodia President, CREDAI



Sh. Jaxay Shah CMD, Savvy Infrastructure



Sh. Suresh Patel President, NAREDCO, Gujarat



Sh. Kishore Bhatija MD Raheja Corp.



Sh. Pankaj Kapoor Managing Director, Liases Foras



Sh. Santhosh Kumar Group Vice Chairman ANAROCK



Thematic Session – 5 : Use of Innovative Technologies by Public and Private Agencies 20^{th} October 2022 | 02.00 pm to 03.30 pm | Hall 2

Public and private sector have been using innovative construction systems and materials for their projects. Under Pradhan Mantri Awas Yojana (Urban) more than 1.5 million houses are being constructed using innovative construction technologies.

The session will deliberate on the innovations being used by the agencies and road blocks being faced. The session will also dwell upon the lessons learnt and pros and cons of innovative technologies being used. How effectively the use of innovative technologies be upscaled will be discussed in the session along with feedback from the agencies regarding these innovative systems.



Sh. Hitesh Makwana Principal Secretary, Government of Tamil Nadu



Dr. Shailesh Kr. Agarwal Executive Director BMTPC



Er. Shailendra Sharma Director General, CPWD



Er. Amit Barde



Shri Aditya VS Tvasta, Chennai



Prof. Brijesh Bhatha CEPT University



Sh. Jignasu Mehta CEO, Outinord



Sh. Ajay Shah CEO, Mitsumi Housing Private Limited



Sh. Yogesh Aychitte Sr. General Manager, BG Shirke Construction Technology PVT LTD







Thematic Session - 6 : Mainstreaming of Innovative Construction Technologies & Initiatives - Way Forward 20th October 2022 | 4.00 pm to 6.15 pm *

There have been many innovations in the area of building materials and components and being implemented successfully over the years using local materials, skill, know-how and practices in our country. With fast pace of urbanisation, it is of paramount importance that the future construction in the country is sustainable, affordable and green suiting to different geo- climatic regions of the country and also in line with climate change mitigation strategies being practiced world over.

With the clarion call given by Hon'ble Prime Minister on AtmaNirbhar Bharat and Vocal for Local, it is opportune time to take stock of these innovations, create enabling eco-system, build entrepreneurship and mainstream them in the construction sector specially for low and mid-rise construction. In order to mainstream innovations in the construction sector, the organisations under MoHUA i.e., BMTPC and CPWD are working towards certification of such innovations and inclusion in SORs. BIS is also roped in along with other line departments for wider applicability of the new materials and technologies. The session will stock of these initiatives along with what is required to be done for wider replication of such technologies in the sector.

Chair & Moderator



Sh. Durga Shanker Mishra Chief Secretary, Uttar Pradesh



Sh. Kuldip Narayan JS&MD (HFA), MoHUA



Ms. Prof. Meher Prasad IIT Madras



Dr. Ashok Kumar Professor, CBRI





Er. Shailendra Sharma Director General, CPWD



Prof. Subrata Chattopadhyay IIT Kharagpur



Sh. Dipan Shah SEP, Ahmedabad, NGO



n. Siddharth Sharn SGC Magicrete, LHP Ranchi





Sh. Sanjay Pant Deputy Director General, BIS



Dr. P.N. Ohja NCCBM



Sh. Sanjay Seth CEO, TERI GRIHA



Prof. Gaurav IIT Gandhinagar



Col (Dr) Pawan Pandey Military Engineering Services







Plenary Session – 2 : Learnings from PMAY(U)– Best Practices of States 21^{st} October 2022 | 10.00 am to 11.30 am | Inaugural Hall

Since land and colonisation are state subjects as per the Constitution, States/UTs have been constantly innovating and evolving approaches to provide affordable housing for the urban poor in our cities. Pradhan Mantri Awas Yojana (Urban) is being implemented by MoHUA since 2015 through States/UTs.

The session aims to bring out the innovative policy, finance, administrative, planning, construction technology, sustainable construction practices undertaken by States/UTs to facilitate the implementation of PMAY(U). The learnings from the session will be helpful for recognising and formulating the future of housing policies/programmes in the country. Overall, it will aim to answer questions like:

- What have been the innovative best practices adopted by States/UTs in giving fillip to the implementation of PMAY(U)?
- How has the implementation mechanism of the Mission varied from State-to-State?
- How has the Mission helped answer the local housing issues of the States/UTs?
- What are the limitations faced by States/UTs in the implementation of the Mission?

Chair



Sh. Kaushal Kishore Hon'ble Minister of State Housing & Urban Affairs





Sh. Kuldip Narayan JS&MD (HFA), MoHUA



Sh. Ajay Jain Special Secretary (Housing), Andhra Pradesh



Dr. Sharmila Mary Joseph Principal Secretary (LSGD), Kerala



Sh. Govinda Rao Managing Director Tamilnadu Urban Habitat Development Board











MEDIA DOSSIER

19-21 OCTOBER 2022 RAJKOT, GUJARAT

INDIAN URBAN HOUSING CONGLAVE - 2022

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AGENDA

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Sessions at a Glance

Day 1

Wednesday, 19th October 2022

02:00	pm	- 05	6:00	pm

Registration of delegates

06:30 pm - 08:00 pm

Inauguration of Exhibition and Walkthrough by Hon'ble Prime Minister

Inaugural Hall

08:15 pm onwards

Felicitation of winners of PMAY-U Awards 2021 & Release of MoHUA publications

Day 2

Thursday, 20th October 2022

Inaugural Hall			
	10:00 am - 11:45 am	Plenary Session 1: Policy Dialogues for Beyond PMAY-U	
		Board Room	
	11:45 am - 01:15 pm	Brainstorming Session 1: Multipronged Approaches to Slum (Re)development	
		01:15 pm - 02:00 pm - Lunch	
	02:00 pm - 03:30 pm	Brainstorming Session 2: Formalizing Informal Settlements & Slums- Role of Planning, Policies and Financing	
		03:30 pm - 03:45 pm - Tea Break	
	03:45 pm - 05:15 pm	Brainstorming Session 3: Global Approaches on Sustainable, Affordable, and Inclusive Housing	
		Hall 1	
	11:45 am - 01:15 pm	Thematic Session 1: Climate Smart Buildings - Focus on Thermal Comfort & Energy Efficiency in Affordable Housing	
		01:15 pm - 02:00 pm - Lunch	
	02:00 pm - 03:30 pm	Thematic Session 2: Public-Private-People Partnerships (4Ps) for Inclusive & Sustainable Housing	
		03:30 pm - 03:45 pm - Tea Break	
	03:45 pm - 05:15 pm	Thematic Session 3: Policy, Institutional and Financial Frameworks for Scaling of Slum Redevelopment Initiatives	
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	Hall 2
11:45 am - 01:15 pm	Thematic Session 4: Role of Private Sector in Housing Ecosystem
	01:15 pm - 02:00 pm - Lunch
02:00 pm - 03:30 pm	Thematic Session 5: Use of Innovative Technologies by Public and Private Agencies
	03:30 pm - 04:00 pm - Tea Break
04:00 pm - 06:15 pm	Thematic Session 6: Mainstreaming of Innovative Construction Technologies – Initiatives and Way Forward
(analasana)	
Day 3	riday, 21 st October 2022
	Inaugural Hall

10:00 am - 11:30 am	Plenary Session 2: Learnings from PMAY(U)- Best Practices from States
	11:30 am - 11:45 am - Tea Break
11:45 am - 01:00 pm	Valedictory and Closing Session chaired by Hon'ble Minister of State (HUA • Release of MoHUA publications • Felicitation of winners of Poster Competition and Exhibitors
	01:00 pm onwards - Lunch

NOTE: Poster competition and TEC to continue in the exhibition area on Day-2 & 3



HON'BLE PRIME MINISTER'S SPEECH

800

Extracts from Hon'ble Prime Minister's speech during the

inauguration of IUHC 2022

"... The speed and technology with which these houses have been built in spite of the Corona crisis shows good work is possible if there is good governance, commitment and concern for the needs of the people. Congratulations to the Minister in the Government of India, Hardeep Singh Puri, and the Chief Minister of the Government of Gujarat Bhupendrabhai and his team, and Rajkot for these house.

Today, I especially congratulate the mothers and sisters who have become the owners of these beautiful houses made with the new technology. Let's pray that Goddess Lakshmi reside in your houses which have been built around Diwali. I was asking everybody about the house while I was handing over the keys. The satisfaction on their faces summed up everything regarding the houses. Otherwise, it is better not to mention the government houses. But there is a government now which is accountable to the people..."

"...We don't build the way houses were made during the tenure of the previous governments. We don't do any favour. We do all these works so that you become self-reliant and prosperous. There is a multi-dimensional approach in whatever we do. This Light House project in Rajkot is part of our continuous efforts to make our society powerful and fulfill the dreams of independent India.

This Light House project in Rajkot is a kind of a model for the country. Everybody, including engineering students, university students and people working in the real estate sector, are going to benefit from the Light House project of Rajkot. This will pave the way for new houses for millions of poor and middle class families. We are also making plans for the rapid progress of Rajkot in a modern way by speeding up infrastructure projects and connecting the entire Saurashtra. We are working to bring revolutionary changes, brothers and sisters.

There should be self-reliance in the country through the use of modern technology. We have launched a campaign so that people can also emulate this in their life. We are training the youth and encouraging them to come up with new start-ups..."



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PRESS RELEASE

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PM lays foundation stone and dedicates to the nation projects worth around Rs. 5860 crores in Rajkot, Gujarat

Dedicates over 1100 houses constructed under Light House Project

Inaugurates the India Urban Housing Conclave 2022

"We are moving with the mantra of Developed Gujarat for a developed India"

"Rajkot kept on teaching me and I kept on learning. Rajkot was my first school"

"Without a life of basic facilities and dignity, it is impossible to come out of poverty"

"Slogans of 'gareebi hatao, roti-kapda-makaan', which were given decades ago, remained just slogans"

"The previous governments constructed houses for the poor not as a responsibility but as a favour. It is our constant effort to make the house of the poor better"

"In the last two decades, the export of engineering-related things from Rajkot has exceeded 5 thousand crore rupees"

"More than 13 percent of the world's ceramics are produced in Morbi alone"

Posted On: 19 OCT 2022 8:17PM by PIB Delhi

The Prime Minister, Shri Narendra Modi laid the foundation stone and dedicated projects worth around Rs. 5860 crores in Rajkot, Gujarat today. The Prime Minister also inaugurated the India Urban Housing Conclave 2022. The Prime Minister dedicated over 1100 houses constructed under the Light House Project. Other projects being dedicated by the Prime Minister include a water supply project: Morbi-Bulk pipeline project from Brahmani-2 Dam to Narmada Canal Pumping Station, a regional Science Centre, flyover bridges and other projects related to road connectivity.

The Prime Minister laid the foundation stone of six laning of the existing four-lane of Rajkot-Gondal-Jetpur section of NH27 in Gujarat. He also laid the foundation stone of GIDC industrial estates worth around Rs 2950 crore at various locations in Morbi, Rajkot, Botad, Jamnagar and Kutch. Other projects whose foundation stones are being laid include the AMUL-fed dairy plant at Gadhka, the construction of an indoor sports complex in Rajkot, two water supply projects and other projects in the roads and railways sector.

Addressing the gathering, the Prime Minister noted that this is the time of the year when new resolutions are taken and new beginnings are made. At a time, some projects related to the development of Kathiawar including Rajkot have been completed today and some new projects have started. These projects related to connectivity, industry, water, and public facilities are going to make life easier here.

He said that out of 6 places in the country, Rajkot is one of the places for the Light House project and 1144 houses constructed with the latest technology were dedicated today. The joy of handing over hundreds of poor families of Rajkot to the best houses made with modern technology before Diwali is something else. "I would especially congratulate the sisters who became the owners of these houses and wish that this Diwali, Lakshmi resides in this new house of yours," he wished

In the last 21 years, the Prime Minister reminisced, together that we have dreamt, taken many steps, and also achieved many successes. "Rajkot kept on teaching me and I kept on learning. Rajkot was my first school", he said. He recalled that Rajkot was also a place where Mahatma Gandhi also came for learning. I can never repay your debt, the Prime Minister said. The biggest proof of our success as a student is the peers who are studying in today's school-college, or who are in the early stages of their careers.

The Prime Minister talked about the improved law and order situation in Rajkot and in the entire state. "When I see young friends roaming outside without fear till late at night, doing the important work of their life, it gives me immense satisfaction. Satisfaction comes from the fact that we spent the day and night getting rid of criminals, mafia, rioters, terrorists, and occupation gangs and our efforts did not go in vain. It is a pleasure to see the peace and harmony with which every parent is working hard for the better future of their children here", he said.

The Prime Minister continued, "In the last decades, it has been our constant endeavour that every Gujarati should be able and capable as much as possible. Whatever environment is needed for this, wherever it is to be encouraged, that government is doing it. We have been moving ahead with the mantra of 'Developed Gujarat for a developed India'. The Prime Minister informed that while, on one hand, we gave thrust to industries, and investments through the Vibrant Gujarat campaign, on the other hand, we took the initiative to empower the village and the poor through Krishi Mahotsav and Garib Kalyan Melas. And we have seen, when the poor are empowered, they start making fast ways out of poverty."

The Prime Minister explained that without a life of basic facilities and dignity it is impossible to come out of poverty. He said a house equipped with toilets, electricity, piped water, cooking gas and internet connectivity is something that is being ensured for the poor. Similarly, one bout of disease is sufficient to push families into penury. That is why schemes like Ayushman Bharat and PMJAY-MA were brought to ensure free quality treatment for poor families. "The earlier governments", the Prime Minister said, "did not understand this

condition of the poor, the feelings of the poor. This is the reason why the slogan of Gareebi hatao, Roti-Kapda-Makaan, which was given decades ago, remained just a slogan. Slogans were shouted and votes were gained and selfish interests were served", he said.

In the last 8 years, the Prime Minister informed, more than 3 crore pucca houses have been given to the poor in villages and cities of the country. During this, 10 lakh pucca houses have been approved for the poor in the cities of Gujarat and 7 lakh have been already completed. "Bhupendra Bhai and his team are doing a commendable job in building homes for the poor. Not only the poor but we also took the first steps to fulfil the dream of our own house of the middle class", he said. The central government has given about 11 thousand crore rupees to lakhs of middle-class families in Gujarat for their own homes. Not only this, workers who come for work in fellow cities should also get better houses with less rent. Work is going on at a rapid pace on this scheme", he informed.

"The previous governments constructed houses for the poor not as a responsibility but as a favour. We changed the ways", Shri Modi remarked. The Prime Minister informed that the occupants of the houses were given complete control and freedom over building their own house and decorating it the way they wanted to. "It is our constant effort to make the house of the poor better", Shri Modi added. He highlighted that the Light House project of Rajkot is one such effort. Remarking on its success, the Prime Minister pointed out that a lot of people from different parts of the country have come to see this model in Rajkot. "Today, Gujarat has not only got more than 11 hundred houses made with modern technology, but it is also great news for lakhs of poor families who are going to get pucca houses in future", the Prime Minister said. Highlighting the benefits, the Prime Minister said that these modern homes in Rajkot are a huge step in the direction of making affordable homes at a rapid pace in the country. "This is going to bring a revolutionary change in the housing sector", he added. The Prime Minister further added that the Government has also taken the initiative to prepare our own youth for self-reliance in this type of technology by training thousands of youth and encouraging new start-ups in the country.

The Prime Minister pointed out that beyond roads, bazaars, malls, and plazas, urban life also has another responsibility. "For the first time, our government has understood the responsibility of the street vendors. For the first time, we have connected them to the bank. Today these colleagues are also getting easy loans through Svanidhi scheme and they can think of expanding their business. Today you see, these vendors are giving strength to Digital India through digital transactions.

Noting the number of MSMEs in Rajkot, the Prime Minister said the city has a great reputation as an industrial city and as a hotbed of MSMEs. He further added that there is hardly any part of the country which does not use any material such as pumps, machines and tools that are made in Rajkot. Giving examples such as Falcon Pump, Fieldmarshal, Angel Pump, Flowtech Engineering, Jalganga Pump, Silver Pup, Rotech Pump, Siddhi Engineers, Gujarat Forging, and Topland, the Prime Minister said that these products from Rajkot are making a mark in the country and the world.

"In the last two decades", he said, "the export of engineering-related things from Rajkot has exceeded 5 thousand crore rupees." He noted that the number of factories has more than doubled and the number of workers has also increased manifold. Due to the entire ecosystem, thousands of other people have also got employment here. Similarly, Morbi has also done a wonderful job. The Prime Minister informed that ceramic tiles from Morbi are

famous all over the world. "More than 13 percent of the world's ceramics are produced in Morbi alone", he said. The Prime Minister informed that Morbi is also known as the Town of Export Excellence. "Be it walls, floors, bathrooms and toilets, they are incomplete without Morbi." He informed that a ceramics park is being built in Morbi with an investment of 15 thousand crores. The Prime Minister concluded by complimenting the state government for its progressive industrial policy.

Chief Minister of Gujarat, Shri Bhupendra Patel, Union Minister of Housing and Urban Affairs, Shri Hardeep Singh Puri, Union Minister of State for Housing and Urban Affairs, Shri Kaushal Kishore, Ex-Governor of Gujarat, Shri Vajubhai Vala, Ex-Chief Minister of Gujarat, Shri Vijay Rupani, and Members of Parliament, Shri Mohanbhai Kundariya and Shri Ramabhai Komariya were those present on the occasion among others.

Background

The Prime Minister laid the foundation stone and dedicated projects worth around Rs. 5860 crores in Rajkot, Gujarat. He also inaugurated the India Urban Housing Conclave 2022, which will witness deliberations covering various facets related to housing in India including planning, design, policy, regulations, implementation, ushering in greater sustainability and inclusivity among others. After the public function, the Prime Minister also inaugurated an exhibition on innovative construction practices.

During the public function, the Prime Minister dedicated over 1100 houses constructed under the Light House Project. The keys to these houses will also be handed over to the beneficiaries. He also dedicated a water supply project: Morbi-Bulk pipeline project from Brahmani-2 Dam to Narmada Canal Pumping Station. Other projects which are being dedicated by him include Regional Science Centre, flyover bridges, and other projects related to the road sector.

The Prime Minister laid the foundation stone of six laning of the existing four-lane of Rajkot-Gondal-Jetpur section of NH27 in Gujarat. He also laid the foundation stone of GIDC industrial estates worth around Rs 2950 crore at various locations in Morbi, Rajkot, Botad, Jamnagar and Kutch. Other projects whose foundation stones are being laid include the AMUL-fed dairy plant at Gadhka, the construction of an indoor sports complex in Rajkot, two water supply projects and other projects in the roads and railways sector.

3-Day Indian Urban Housing Conclave 2022 at Rajkot witnesses more than 5,000 visitors

Deliberations on clean green cities, innovative climate resilient building technologies, slum redevelopment and roadmap for future of Urban India held

MoHUA's efforts of providing housing to all applauded

Outstanding Contribution of States/UTs/ULBs in implementation of PMAY-U recognised by MoHUA

Posted On: 22 OCT 2022 5:51PM by PIB Delhi

Indian Urban Housing Conclave (IUHC) 2022, the 3-day Expo-cum-Conference at Rajkot, Gujarat, ended on a high note. The conclave was inaugurated by Hon'ble Prime Minister Shri Narendra Modi on 19th October 2022 at a mega event, wherein he also inaugurated Light House Project (LHP) Rajkot under Pradhan Mantri Awas Yojana-Urban (PMAY-U) and handed over the house keys to the beneficiaries.

This was followed by release of four publications of Ministry of Housing and Urban Affairs (MoHUA) by Hon'ble Prime Minister. Hon'ble Chief Minister of Gujarat, Shri Bhupendra Patel, Hon'ble Union Minister of Housing and Urban Affairs; and Petroleum and Natural Gas, Shri Hardeep S Puri, Hon'ble Minister of State for Housing and Urban Affairs, Shri Kaushal Kishore and other dignitaries were also present on the occasion.

Rajkot is among the six cities where LHPs, built with modern technology, have been initiated. The one in Chennai was also inaugurated by Hon'ble Prime Minister in May 2022. "I especially congratulate the mothers and sisters who have become the owners of these beautiful houses made with the new technology. Let's pray that Goddess Lakshmi resides in your houses which have been built around Diwali. I was asking everybody about the house while I was handing over the keys. The satisfaction on their faces summed up everything regarding the houses," Hon'ble Prime Minister said in his address.

Winners of PMAY-U Awards 2021 were also declared at the event and the winners were felicitated by Hon'ble Prime Minister. Uttar Pradesh, Madhya Pradesh and Tamil Nadu held the 1st, 2nd and 3rd positions, respectively as Best Performing States under the scheme. Gujarat was awarded as the Best State for implementation of the Credit Linked Subsidy Scheme (CLSS). Tripura won the award for Best Performing State under PMAY-U in north-eastern and hilly States category.

Post the award ceremony, Hon'ble Prime Minister visited the exhibitions showcased on various Urban Missions under MoHUA and on Innovative Building Materials, Construction Technologies and Processes set up by global and domestic exhibitors.

Meanwhile, Hon'ble Union Minister of Housing and Urban Affairs, Shri Hardeep Singh Puri distributed the PMAY-U Awards at Municipal Corporation, Municipal Council and Nagar Panchayat level, along with the awards in the Special Category. The Union Territories of Jammu & Kashmir and Dadra & Nagar Haveli and Daman & Diu were felicitated for their performance. Shri Manoj Joshi Secretary, Ministry of Housing and Urban Affairs and Hon'ble Ministers from Assam and Tamil Nadu were also present during the ceremonial distribution of awards.

IUHC 2022 comprised of two major components: The first was an exhibition on Swachh Bharat Mission, Urban Transport, Smart Cities Mission, Deendayal Antyodaya Yojana-National Urban Livelihoods Mission (DAY-NULM) and PM SVANIDHI Missions from MoHUA; Gujarat's State Pavilion showing Urban Landscape and Innovative Indigenous Construction Technologies. The Second component included deliberations among national & international domain experts on various issues of affordable housing, paving way for the future housing policies in the country. Altogether, two Plenary sessions, three brainstorming sessions and six thematic sessions on Affordable Housing, Slum Redevelopment and Building Technologies were organised. UN-HABITAT India, BMTPC, and GIZ India also conducted various sessions. Slum Redevelopment, Climate Smart Buildings, Public-Private-People Partnerships, Inclusive & Sustainable Housing, Use of innovative Technologies by Public and Private Agencies were some of the topics on which the sessions were held.

Several noted dignitaries of national and international repute were a part of the sessions conducted during the event. The finale of 'Policy Dialogues for Beyond PMAY(U)' was also held. The series provided a platform of discussion with States/UTs/Stakeholders to design a strategy to fulfil the vision of meeting urban housing shortage in India.

Ms. Maimunah Mohd Sharif, Executive Director, UN-Habitat also joined the session on slum redevelopment virtually. In her message, Ms Sharif said, "Access to adequate housing can be a precondition for the enjoyment of several human rights including the rights to work, help, social security, vote, privacy or education."

She commended the efforts put in by MoHUA for embracing the housing demand challenge through "many high impact and inclusive programmes."

"I applaud the government's effort to provide decent housing to all urban poor through largest affordable housing programmes. I am also very happy that this initiative prioritises the needs of women, minorities, persons with disabilities and urban migrants," she added.

The valedictory session, held on Day 3 of the conclave was chaired by Shri Kaushal Kishore, Hon'ble Minister of State for Housing and Urban Affairs and attended by Shri Kuldip Narayan, Joint Secretary and Mission Director, Housing for All, Shri Ajay Jain, Special Chief Secretary, Government of Andhra Pradesh, Smt Sharmila Joseph, Principal Secretary, Government of Kerala and other dignitaries. Hon'ble Minister also gave away the awards to the Best Exhibitors and the Poster Competition held during the conclave.

The 'Indian Urban Housing Conclave 2022' saw an overall footfall of more than 5,000 participants and 200 exhibitors and is expected to bridge the gap between technology providers, users, innovators, practitioners, and all other stakeholders. The conclave provided a platform to stakeholders for demonstrating their technologies as well as for deliberating upon various options of materials and processes for large scale adoption and mainstreaming in different type of housing construction in the country.



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PRINT MEDIA

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TIMES OF INDIA

TN comes 3rd in implementing PMAY-U

T-M Anbarasan Got Awards for 2021 From PM

TIMES NEWS NETWORK

Tamil Nadu has been adjudged the third best performing state in implementing the Pradhan Mantri Awas Yojana-Urban (PMAYU) scheme that is almed at providing housing for all in urban pockets. Uttar Pradesh and Madhya Pradesh bagged the top two slots. Micro, small and medium enterprises minister T M Anbarasan received the awards for the year 2021 from Prime Minister Narendra Modi at a function that was held in Rajkot on Wednesday Madurat corporation won

Madurai corporation won the third place among the corporations, while Periya Negamam town panchayat won fifth place among the fown panchayats in implementing the state won special recognition for faster mover under affordable rental housing complexes (ARECs) model-2 and innovative construction technologies. A senior officer with the Tamil Nadu Urban Habitat Development Board said the awards were based on four parameters - Implementation of the scheme, institutional architecture put in place for the scheme, incremental monthly progress and transparency.

These four parameters are further divided into multiple sub-indicators. For example, under implementation of the scheme, the number of dwelling units approved against the demand, number of dwelling units completed vis a vis approved, and the number of units occupied against the houses completed were considered. Institutional architecture too involved multiple components including release of state's share of fund as against the Centre's share and geo tagging of approved houses. "Tamil Nadu fared better on most of the parameters," he said.

ters," he said. According to the PMAY website, Tamil Nadu has completed 4.7 lakh of the 6.8 lakh sanctioned dwelling units as on October 10. TN was way ahead of other states, including Madhya Pradesh, in terms of the number of houses constructed as against those approved. But Madhya Pradesh scored on the remaining parameters, pushing TN to the third slot.

Similarly, Madural outsmarted other cities in terms of completing maximum projects that were approved.

The PMAY awards come closeon the heels of Tamil Nadu bagging a similar recognition a few days ago for implementation of Jal Jeevan Mission to provide household drinking water tap connections and Swachh Survekshan Grameen for ensuring rural sanitation.

THE INDIAN EXPRESS

TN gets 3rd rank for implementing housing scheme

Chennai: Tamil Nadu has been ranked 3rd for effectively implementing the PMAY-U. Minister TM Anbarasan received an award from Prime Minister Narendra Modi for this on Wednesday. TN has been ranked 3rd for implementing the 'Housing For All' scheme, which is the flagship mission of the Union government and is being implemented by the Ministry of Housing and Urban Affairs. ENS

THE HINDU

State gets awards for housing projects implementation

The Hindu Bureau CHENNAI

Tamil Nadu received awards in five categories at the Prime Minister Awas Yojana - Urban (PMAY - U): 150 Days Challenge awards function held in Rajkot in Gujarat on Thursday.

The PMAY - U scheme, which intends to provide affordable housing for all, is being implemented in the State by the Tamil Nadu Urban Habitat Development Board.

The State was adjudged the third best performing State in the overall performance category. Madurai came in the third position for the best performing municipal corporationin the implementation of PMAY-U scheme. Periya Negamam in Coimbatore



T.N. Minister T.M. Anbarasan receiving the award from Prime Minister Narendra Modi.

district came in the fifth position among the town panchayats in the country. Apart from these, Tamil Nadu was adjudged the best State in the use of innovation construction technologies in building affordable houses.

TNUHDB Minister T.M. Anbarasan received the awards from Prime Minister Narendra Modi.

THE HINDU

State bags PMAY-U Award

POST NEWS NETWORK

Bhubaneswar, Oct 19: The Union Ministry of Housing and Urban Affairs (MoHUA) conferred the prestigious Pradhan Mantri Awas Yojana - Urban (PMAY-U) Awards 2021 on Odisha for its 'Best Policy Initiatives by State' under special category.

The award has been conferred by Prime Minister Narendra Modi and Housing and Urban Affairs Minister Hardeep Singh Puri during the three-day 'Indian Urban Housing Conclave', held at Rajkot in Gujarat Wednesday.

Director of Municipal Administration & Mission Director, Jaga Mission, Sangramjit Nayak along with Mission Director, Odisha Urban Housing Mission-AWAAS, Debasish Singh received the distinguished award on behalf of the state.

The Centre has recognised Odisha as a state that has pioneered in cre-



ating solutions for the landless urban poor, by providing them with security of tenure under its flagship initiative Jaga Mission that has further helped beneficiaries in housing assistance under PMAY-U. The innovation around leveraging such convergence of schemes by the Odisha government has been highly appreciated at the event.

With the prevailing urban challenges like housing, formation of informal settlements that further caused in emergence of multiple issues relating to civic and safety gaps, socio-economic incongruity and disruption to city planning, Odisha has paved a way towards addressing such challenges associated with urbanisation through enactment of a landmark legislation 'Odisha Land Rights to Slum Dwellers Act 2017'.

Jaga Mission interventions focused on assessing gaps at household level like land rights, housing support, including individual toilet, piped water supply & inhouse electricity, community level access to pavered road, drainage and proper street-lighting in slums and social needs of people -Parichaya community centres, open space development and child play areas with proper play equipment.

One of the major highlights of Odisha government's initiatives is the convergence of Jaga Mission with Odisha Urban Housing Mission (OUHM) to provide land rights and housing to beneficiaries.

Odisha bags PMAY-U Award

STATESMAN NEWS SERVICE BHUBANESWAR, 19 OCT OBER:

Odishahas bagged the PMAY-U Award 2021, instituted by the Ministry of Housing for 'Best Policy Initiatives by State' under a special category.

The award has been conferred by PM Narendra Modi and Minister, MoHUA Hardeep Singh Puri at the threeday 'Indian Urban Housing Conclave', held at Rajkot, Gujarat on Wednesday.

Director Municipal Administration & Mission Director, Jaga Mission, Sangramjit Nayak along with Mission Director, Odisha Urban Housing Mission-AWAAS, Debasish Singhreceived the award.

The Government of India has recognized Odisha as a State that has pioneered in creating solutions for the landless urban poor, by providing them with the security of tenure under its flagship initiative Jaga Mission. The innovation around leveraging such convergence of schemes, by the Odisha Government has been highly appreciated at the event, said an official release issued here today.

The state has paved the way towards addressing such challenges associated with urbanization through the enactment of landmark legislation 'Odisha Land Rights to Slum Dwellers Act 2017'.

One of the major highlights of State Government's initiative is the convergence of Jaga Mission with Odisha Urban Housing Mission (OUHM) to provide land rights and housing to beneficiaries.

Land security and housing support have not only improved the quality of life in slums but also boosted the socio-economic conditions of individuals.



PMAY-U AWARDS - 2021

Principal Secretary H&UDD Dheeraj Gupta receiving PMAY-U Award on behalf of J&K UT Government.

J&K bags top awards under PMAY-Urban

of Independence.

Pertinently, J&K achieved 100 percent saturation in implementation of PMAY Mission, About 44,701 beneficiaries have been identified and approved under BLC component, out of which, 44630 dwelling units have been grounded and will be completed within the prescribed time schedule.

The UT Government has for the first time introduced a new initiative wherein interest free loan/subsidy is being provided for an amount of Rs. 2 lakh per beneficiary for construction of the geo-climatic & hazardous dwelling unit under BLC component. Besides, 336 houses are being reconstructed under Affordable Rental Housing Complexes (ARHCs) at Sunjwan, Jammu while 968 flats at are being constructed at

Bhalwal and Lower Roopnagar has Jammu under Affordable Housing in Partnership (AHP) component.

> Also. Demonstration a Housing Project (DHP) under Technology Sub-Mission (TSM) of the Mission has been taken up at Bhalwal, Jammu. The technology to be used for DHP is EPS Core Panels. After completion, J&K Housing Board will not only gainfully utilize the structure but will also showcase it as latest proven alternate/green technology solution suitable to conditions of Jammu region.

> The Government of Jammu & Kashmir is committed towards ensuring that there is no urban houseless in the Union Territory by March 2023.

J&K bags top awards under PMAY-Urban

Excelsior Correspondent

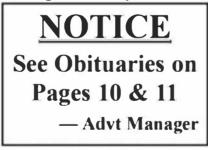
SRINAGAR, Oct 22: In a significant achievement, Jammu and Kashmir has won top awards in implementation of Pradhan Mantri Awas Yojana-Urban (PMAY-Urban) during three day "India Urban Housing Conclave

Pic on page 2

2022" (IUHC 2022) organized by the Union Ministry of Housing and Urban Affairs in Rajkot, Gujarat.

The conclave was inaugurated by Prime Minister, Narendra Modi on October 19.

J&K has won two awards including 'Overall best performing Union Territory and best performing UT for implementation



of Affordable Rental Housing Complexes (ARHCs)'.

Principal Secretary, H&UDD, Dheeraj Gupta received the award on behalf of the UT Government.

The J&K team, which was led by Dheeraj Gupta, comprised of S A Keen, Managing Director, J&K Housing Board and other officials of PMAY (Urban) Mission.

The conclave included exhibition of departmental stalls highlighting the achievements and best practices adopted across the States and UTs in implementation of the Mission.

PMAY-U is a flagship Mission of Government of India being implemented by the Union Ministry of Housing and Urban Affairs (MoHUA) which addresses urban housing shortage among the EWS/LIG and MIG categories including the slum dwellers by ensuring a pacca house to all eligible urban households by the year 2022, when Nation completes 75 years

(Contd on page 2 Col 5)

Jharkhand bags three awards under PMAY(U)

MI NEWS SERVICE

RANCHI: Jharkhand has won three national awards in the implementation of the Pradhan Mantri Awas Yojna (Urban) at the 'Indian Urban Housing Conclave held at Gujarat.

The Prime Minister Narendra Modi inaugurated the function the awards were given by Housing and urban works minister Hardeep Singh Puri to director Pradhan Mantri Awas Yojna (Urban) Aditya Kuma Anand, deputy director Sailesh Priyadarshi and the state team leader Rajan Kumar.

The awards were given for the initiatives taken in area of women empowerment under which thousands of women were pro-



vided ownership of hosues and provided opportunity in the construction sector. The state, also' bagged award in community- oriented projects under which better housing facilities were provided to people affected by leprosy and awareness campaign was carried out in an effective manner. Anand has congratulated the officials of all municipal bodies for the success. MORE ON PG 3

पीएमएवाई (यू) के सफल क्रियान्वयन के लिए झारखंड को मिली नयी पहचान

सरकार के निदेशक आदित्य कुमार आनंद, सहायक निदेशक शैलेश प्रियदर्शी, पीएमएवाई(यू) के स्टेट टीम लीडर राजन कुमार एवं सीएलटीसी दीपक कुमार ने किया। कार्यक्रम में प्रधानमंत्री आवास योजना (शहरी) के विभिन्न घटकों के तहत राज्य को महिला सशक्तिकरण पहल के अंतर्गत योजना के तहत हजारों महिलाओं को घर का स्वामित्व, रानी मिस्त्री एवं निर्माण क्षेत्र में महिलाओं को कार्य का अवसर, समुदाय उन्मुख परियोजना के तहत कुष्ठ रोग से प्रभावित लोगों के लिए बेहतर आवासीय परियोजना उपलब्ध कराने एवं उक्त योजना का प्रभावी व व्यापक स्तर पर प्रचार-प्रसार व जनजागरूकता हेत् राष्ट्रीय स्तर पर तीन पुरस्कार दिया गया। डीएमए के निदेशक आदित्य कुमार आनंद ने इस कार्य में सहयोग के लिए निदेशालय व सभी नगर निकायों के अधिकारियों व पदाधिकारियों को बधाई दी।



महिला सशक्तिकरण में उल्लेखनीय पहल, कुष्ठ प्रभावित रोगियों के लिए बेहतर आवासीय परियोजना एवं योजना के व्यापक प्रचार-प्रसार व जन जागरुकता के लिए किया गया पुरस्कृत

की ओर से पुरस्कार ग्रहण नगरीय प्रशासन निदेशालय, झारखंड

नवीन मेल संवाददाता रांची। गुजरात के राजकोट में आयोजित 'इंडिया अर्बन हाउसिंग कॉन्क्लेव 2022' कार्यक्रम का उद्घाटन प्रधानमंत्री नरेंद्र मोदी ने किया। कार्यक्रम में आवासन एवं शहरी कार्य मंत्रालय, भारत सरकार के मंत्री हरदीप सिंह पुरी ने झारखंड राज्य को प्रधानमंत्री आवास योजना (शहरी) के सफल कार्यान्वयन को लेकर तीन श्रेणी में राष्ट्रीय पुरस्कार प्रदान किया। इस कार्यक्रम में झारखंड

पीएमएवाई (यू) के सफल क्रियान्वयन के लिए झारखंड को मिला तीन राष्ट्रीय पुरस्कार



कराने और उक्त योजना का प्रभावी एवं व्यापक स्तर पर प्रचार-प्रसार तथा जनजागरूकता के लिए राष्ट्रीय स्तर पर तीन पुरस्कार दिया गया। डीएमए के निदेशक आदित्य कुमार आनंद ने इस कार्य में सहयोग के लिए निदेशालय और सभी नगर निकायों के अधिकारियों तथा पदाधिकारियों को बधाई दी।

घटकों के तहत राज्य को महिला सशक्तिकरण पहल के अंतर्गत योजना के तहत हजारों महिलाओं को घर का स्वामित्व, रानी मिस्त्री, निर्माण क्षेत्र में महिलाओं को कार्य का अवसर, समुदाय उन्मुख परियोजना के तहत कुष्ठ रोग से प्रभावित लोगों के लिए बेहतर आवासीय परियोजना उपलब्ध

पंच संवाददाता रांची। गुजरात के राजकोट में आयोजित इंडिया अर्बन हाउसिंग कॉन्क्लेव-2022 कार्यक्रम का उद्घाटन देश के प्रधानमंत्री नरेन्द्र मोदी ने किया, जिसमें आवासन एवं शहरी कार्य मंत्री हरदीप सिंह पुरी ने झारखंड को प्रधानमंत्री आवास योजना (शहरी) के सफल कार्यान्वयन के लिए तीन श्रेणी में राष्ट्रीय पुरस्कार प्रदान किया। कार्यक्रम में झारखंड की ओर से पुरस्कार ग्रहण नगरीय प्रशासन निदेशालय के निदेशक आदित्य कुमार आनंद सहायक निदेशक शैलेश प्रियदर्शी, पीएमएवाई (यू) के स्टेट टीम लीडर राजन कुमार एवं सीएलटीसी दीपक कुमार ने किया। इस कार्यक्रम में प्रधानमंत्री आवास योजना (शहरी) के विभिन्न



महिला सशक्तीकरण, कुष्ट रोगी आवास व प्रचार का मिला इनाम

झारखंडको तीन श्रेणियों में मिला राष्ट्रीय पुरस्कार

उपलब्धि

रांची, हिन्दुस्तान ब्यूरो। गुजरात के राजकोट में आयोजित इंडिया अर्बन हाउसिंग कॉन्क्लेव 2022 में झारखंड ने योजनाओं के बेहतर क्रियान्वयन में राष्ट्रीय स्तर पर अपनी नई पहचान बनाई है। कार्यक्रम में आवासन व शहरी कार्य मंत्रालय भारत सरकार के मंत्री हरदीप सिंह पुरी ने झारखंड को प्रधानमंत्री आवास योजना (शहरी) के सफल कार्यान्वयन को लेकर तीन श्रेणियों में राष्ट्रीय पुरस्कार से नवाजा।

कार्यक्रम में नगरीय प्रशासन निदेशालय झारखंड सरकार के निदेशाक आदित्य कुमार आनंद, सहायक निदेशक शैलेश प्रियदर्शी, पीएम आवास शहरी के स्टेट टीम लीडर राजन कुमार और सीएलटीसी दीपक कुमार ने झारखंड की ओर से ये पुरस्कार ग्रहण किये। इससे पहले इंडिया अर्बन हाउसिंग कॉन्क्लेव 2022 का देश के प्रधानमंत्री नरेंद्र मोदी ने किया।



पुरस्कार ग्रहण करते नगरीय प्रशासन निदेशालय झारखंड के निदेशक आदित्य कुमार आनंद, सहायक निदेशक शैलेश प्रियदर्शी और पीएम आवास के स्टेट टीम लीडर राजन कुमार व सीएलटीसी दीपक कुमार।

इन श्रेणियों में झारखंड को मिले राष्ट्रीय पुरस्कार

प्रधानमंत्री आवास योजना (शहरी) के विभिन्न घटकों के तहत राज्य को महिला सशक्तिकरण पहल के अंतर्गत योजना के तहत हजारों महिलाओं को घर का स्वामित्व, रानी मिस्री एवं निर्माण क्षेत्र में महिलाओं को कार्य का अवसर, समुदाय उन्मुख परियोजना के तहत कुष्ठ रोग से प्रभावित लोगों के लिए बेहतर आवासीय परियोजना उपलब्ध कराने और उक्त योजनाओं का प्रभावी व व्यापक स्तर पर प्रचार–प्रसार व जनजागरुकता के लिए राष्ट्रीय स्तर पर तीन पुरस्कार मिले । डीएमए के निदेशक आदित्य कुमार आनंद ने इस कार्य में सहयोग के लिए निदेशालय व सभी नगर निकायों के अधिकारियों व पदाधिकारियों को बधाई दी है ।

झारखंड को राष्ट्रीय स्तर पर 3 श्रेणियों में मिला पुरस्कार

वरीय संवाददाता

रांची : गुजरात के राजकोट में आयोजित इंडिया अर्बन हाउसिंग कॉन्क्लेव 2022 कार्यक्रम का उद्घाटन प्रधानमंत्री नरेंद्र मोदी ने किया। कार्यक्रम में आवासन एवं शहरी कार्य मंत्रालय, भारत सरकार के मंत्री हरदीप सिंह पुरी ने झारखंड को प्रधानमंत्री आवास योजना (शहरी) के सफल कार्यान्वयन को लेकर तीन श्रेणी में राष्ट्रीय पुरस्कार प्रदान किया। कार्यक्रम में झारखंड की ओर से पुरस्कार ग्रहण नगरीय प्रशासन निदेशालय, झारखंड सरकार के निदेशक आदित्य कुमार आनंद सहायक निदेशक शैलेश प्रियदर्शी, पीएमएयू (यू) के स्टेट टीम लीडर राजन कुमार एवं सीएलटीसी दीपक कुमार ने किया। इस श्रेणी के लिए मिला पुरस्कार इस कार्यक्रम में प्रधानमंत्री आवास योजना (शहरी) के विभिन्न घटकों के तहत राज्य को महिला संशक्तिकरण पहल के अंतर्गत



योजना के तहत हजारों महिलाओं को घर का स्वामित्व, रानी मिस्त्री एवं निर्माण क्षेत्र में महिलाओं को कार्य का अवसर, समुदाय उन्मुख परियोजना के तहत कुष्ठ रोग से प्रभावित लोगों के लिए बेहतर आवासीय परियोजना उपलब्ध कराने एवं उक्त योजना का प्रभावी व व्यापक स्तर पर प्रचार-प्रसार व जनजागरूकता के लिए राष्ट्रीय स्तर पर तीन पुरस्कार दिया गया। डीएमए के निदेशक आदित्य कुमार आनंद ने इस कार्य में सहवोग के लिए निदेशालय व सभी नगर निकायों के अधिकारियों व पदाधिकारियों को बधाई दी।

FREEDOM FIGHTER

पीएमएवाई (यू) के सफल क्रियान्वयन को लेकर झारखंड को राष्ट्रीय स्तर पर मिली नयी पहचान

प्रधानमंत्री ने गुजरात के राजकोट में 'इंडिया अर्बन हाउसिंग कॉन्क्लेव 2022' का किया शुभारम्भ

 महिला सशक्तीकरण में उल्लेखनीय पहल, कुष्ठ प्रभावित रोगियों के लिए बेहतर आवासीय परियोजना एवं योजना के व्यापक प्रचार-प्रसार व जन जागरूकता हेतु किया गया पुरस्कृत

फ्रीडम फाइटर संवाददाता रांची : गुजरात के राजकोट में आयोजित 'इंडिया अर्बन हाउसिंग एवं शहरी कार्य मंत्रालय, भारत



कॉन्बलेव 2022' कार्यक्रम का उद्घाटन देश के माननीय प्रधानमंत्री नरेन्द्र मोदी के कर कम्प्लों द्वारा किया गया। कार्यक्रम में आवासन

सरकार के माननीय मंत्री श्री हरदीप सिंह पुरी ने झारखंड राज्य को प्रधानमंत्री आवास योजना (शहरी) के सफल कार्यान्वयन को लेकर तीन श्रेणी में राष्ट्रीय पुरस्कार

झारखंड की ओर से पुरस्कार ग्रहण नगरीय प्रशासन निदेशालय, झारखंड सरकार के निदेशक आदित्य कुमार आनंद सहायक निदेशक शैलेश प्रियदर्शी, पीएमएबाई(व) के स्टेट टीम लीडर राजन कुमार एवं सीएलटीसी दीपक कुमार ने किया। इस श्रेणी के लिए मिला पुरस्कार इस कार्यक्रम में प्रधानमंत्री आवास योजना (शहरी) के विभिन्न घटकों के तहत राज्य को महिला सशक्तीकरण पहल के अंतर्गत योजना के तहत हजारों महिलाओं

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प्रदान किया। इस कार्यक्रम में को घर का स्वामित्व, रानी मिस्त्री एवं निर्माण क्षेत्र में महिलाओं को कार्य का अवसर, समुदाय उन्मुख परियोजना के तहत कुष्ठ रोग से प्रभावित लोगों के लिए बेहतर आवासीय परियोजना उपलब्ध कराने एवं उक्त योजना का प्रभावी व व्यापक स्तर पर प्रचार-प्रसार व जनजागरूकता हेतु राष्ट्रीय स्तर पर तीन पुरस्कार दिया गया।

डीएमए के निदेशक आदित्य कुमार आनंद ने इस कार्य में सहयोग हेतु निदेशालय व सभी नगर निकायों के अधिकारियों व पदाधिकारियों को बधाई दी।

सम्मान, शहरों में आवास योजना के सफल क्रियान्वयन का इनाम राज्य को पीएम आवास योजना में मिले तीन राष्ट्रीय

प्रमुख संवाददाता, रांची

राज्य में प्रधानमंत्री आवास योजना (शहरी) के सफल क्रियान्वयन को लेकर झारखंड को राष्ट्रीय स्तर पर पहचान मिली है. प्रधानमंत्री की ओर से गुजरात के राजकोट में शुरू किये गये इंडिया अर्बन हाउसिंग कॉनक्लेव 2022 में झारखंड को योजना के बढिया क्रियान्वयन के लिए तीन अलग-अलग श्रेणियों में पुरस्कृत किया गया. महिला सशक्तीकरण में उल्लेखनीय पहल, कुछ प्रभावित रोगियों के लिए बेहतर आवासीय परियोजना और योजना के व्यापक प्रचार-प्रसार एवं जन जागरूकता के लिए राज्य को सम्मान दिया गया. भारत सरकार के आवासन एवं शहरी कार्य मंत्री हरदीप सिंह पुरी ने झारखंड को पुरस्कार प्रदान किया. कार्यक्रम में प्रधानमंत्री आवास बोजना (शहरी) राज्य के शहरों में बुनिवादी सुविधाएं करोड़ रुपये की सहायता करेंगी. पर विमर्श किया, झारखंड आयी के विभिन्न घटकों के तहत राज्य को महिला सशक्तीकरण पहल के करोड़ रुपये खर्च किये जायेंगे. राज्य सरकार करेंगी, एडीबी विश्व के नैस, नोमी वालिकान, स्वाति घोष अंतर्गत योजना में हजारों महिलाओं को घर का स्वामित्व देने, रानी मिस्त्री व निर्माण क्षेत्र में महिलाओं को कार्य का अवसर प्रदान करने के लिए सरकार के साथ शहरी विकास की जिसे एडीबी का स्ट्रेटीजक पार्टनर पुरस्कृत किया गया. समुदाय उन्मुख बोजनाओं पर लगभग 1280 करोड़ बनाया गया है. फिलीपींस से आयी परियोजना के तहत कुष्ठ रोग से प्रभावितों के लिए बेहतर आवासीय शेष 4000 करोड़ की योजनाओं के का दौरा किया. टीम जुडको की परियोजना उपलब्ध कराने व योजना के प्रभावी प्रचार-प्रसार के लिए प्रशासन निदेशक आदित्य कुमार राष्ट्रीय स्तर पर सामानित किसा गया झारखंड की ओर से राज्य के नगरीय



शहरों के विकास पर खर्च होंगे ५२८० करोड

प्रमुख संवाददाता, रांची

मुहैया कराने पर लगभग 5280 योजना के लिए केंद्र सरकार ने सहमति प्रदान कर दी है, एशियाइ विकास बैंक (एडीबी) ने झारखंड खर्च करने के लिए करार किया है.

क्रियान्वयन पर काम चल रहन्हें, इन शेष 1200 करोड़ रुपये का अंशदान 65 देशों में शहरी विकास के लिए सहायता पहुंचा रही है. झारखंड देश के उन पांच चयनित राज्यों में है, एडीबी की मिशन टीम ने झारखंड

वाह्य संपोषित परियोजना शाखा भी योजनाओं के लिए एडीबी 2800 पहुंची, शहरी विकास की संभावना एडीबी की मिशन टीम में जेमिन वलियापा, काली शंकर घोष, कृष्णेंदु सरकार, एलविन जेन तिरानो और संजय मालु शामिल थे, टीम ने नगर विकास सचिव विनय कुमार चौबे और सुडा निदेशक अमित कुमार से मुलाकात कर परिवोजनाओं की जानकारी दी

आनंद, सहायक निदेशक शैलेश प्रियदशी, पीएम आवास योजना

(शहरी) के स्टेट टीम लीडर राजन कुमार एवं सीएलटीसी वैपक कुमार ने सम्मान प्राप्त किया. निदेशक ने

परस्कार के लिए सभी नगर निकायों के अधिकारियों व कर्मचारियों को बधाई दी है.

पीएम आवास की तीन श्रेणियों में झारखंड को पुरस्कार

राज्य व्यरो, रांची : प्रधानमंत्री आवास योजना (शहरी) में बेहतर प्रदर्शन को लेकर झारखंड को तीन श्रेणियों में पुरस्कार मिला है। गुजरात के राजकोट में आयोजित इंडिया अर्बन हाउसिंग कान्क्लेब 2022 में आवासन एवं शहरी कार्य मंत्रालय, भारत सरकार के मंत्री हरदीप सिंह पुरी ने यह पुरस्कार दिया। इसके पूर्व कार्यक्रम का उद्घाटन प्रधानमंत्री नरेन्द्र मोदी ने किया था।

कार्यक्रम में झारखंड की और से नगरीय प्रशासन निदेशालय. झारखंड सरकार के निदेशक आदित्य कुमार आनंद एवं सहायक निदेशक शैलेश प्रियदर्शी के साथ-साथ स्टेट टीम लीहर राजन कुमार एवं सीएलटीसी दीपक कुमार ने पुरस्कार ग्रहण किया।

इन श्रेणियों में मिला पुरस्कार : कार्यक्रम में प्रधानमंत्री आवास योजना (शहरी) के विभिन्न प्रभावी व व्यापक स्तर पर प्रचार-प्रयास के लिए पुरस्कार मिला। झारखंड में योजना के तहत हजारों महिलाओं को आवास उपलब्ध कराने, रानी मिस्त्री के रूप में लिए निदेशालय व सभी नगर निकायों निर्माण क्षेत्र में महिलाओं को के अधिकारियों व पदाधिकारियों को कार्य का अवसर प्रदान करने की बधाई दी है।

 गजरात के राजकोट में इंडिया अर्धन हाउसिंग कान्क्लेव २०२२ का शुभारंभ

कृष्ठ रोगियाँ के लिए बेहतर परियोजना एवं व्यापक प्रचार–प्रसार को पुरस्कार



सराहना की गई। इसके अलावा समुदाय उन्मुख परियोजना के तहत कुछ रोग से प्रभावित लोगों के लिए बेहतर आवासीय परियोजना उपलब्ध कराने तथा उक्त योजना का घटकों के तहत राज्य को महिला प्रसार करने और जनजागरूकता के संशक्तीकरण के क्षेत्र में संराहनीय लिए राष्ट्रीय स्तर पर तीन पुरस्कार दिए गए।

> डीएमए निदेशक आदित्य कमार आनंद ने इस कार्य में सहयोग के

NAYI DUNIYA

गरीबों के घर का सपना पूरा करने में जोबट अव्वल

उपलब्धि 🔹 राजकोट में केंद्रीय मंत्री के हाथों मिला नप को पुरस्कार, कहा– और बेहतर काम करके दिखाएंगे

जोबट (नईदुनिया न्यूज)। हर व्यक्ति का सपना होता है कि उसका अपना घर हो। गरीबों के खुद के मकान के इस सपने को पूरा देशभर में प्रधानमंत्री आवास योजना लागू की गई थी। इसमें जोबट नगर परिषद को देशभर में अपनी श्रेणी में पहला स्थान मिला है।

गुजरात के राजकोट में इंडियन अर्बन हाउसिंग कानक्लेव में केंद्रीय शहरी आवास मंत्री हरदीपसिंह पुरी के हाथों नगर परिषद को इसके लिए अवार्ड मिला है। परिषद की ओर से सीएमओ आरती खेड़ेकर, इंजीनियर निकिता भंबर एवं लेखापाल दीपक भाटी ने अवार्ड लिया।

2015 में शुरू हुई योजना बता दें कि प्रधानमंत्री आवास योजना



गुजरात के राजकोट में जोबट नगर परिषद सीएमओ व टीम को अवार्ड प्रदान करते हुए केंद्रीय मंत्री हरदीपसिंह पुरी। अ**नइंदुनिया**

भारत सरकार का प्रमुख मिशन है, जिसे कार्याचित किया जा रहा है। आवास और शहरी मामलो के मंत्रालय द्वारा यह योजना 25 जून 2015 को शुरू की गई थी। इसका उद्देश्य शहरों को झुग्गी मुक्त बनाना है।

186 आवास बनाने का लक्ष्य रखा सीएमओ खेडेकर ने बताया कि आवास योजना के तहत 24 अप्रैल 2017 को नगर परिषद की डीपीआर स्वीकृत की गई । इसमें 186 आवास बनाने का लक्ष्य रखा गया था। आवासों की पूर्णता, तीन चरण का जियों देंग सहित अन्य मानकों के आधार पर जोवट नगर परिषद को अपनी श्रेणी में देश में पहला स्थान मिला है। सीएमओ ने कहा कि अवार्ड ने और अधिक बेहतर करने के लिए प्रोसाहित किया है। तत्कालीन नगर परिषद अध्यक्ष रमीला बौहान सहित पार्षद व निकाय के अम्हो में अवार्ड मिलने को लेक रखुशी का माहाल है।

DAINIK PRAJADOOR

प्रधानमंत्री आवास योजना मे देवास नगर निगम को देश में मिला दूसरा स्थान

देवास, निप्र। भारत सरकार की प्रधानमंत्री आवास योजना के अंतर्गत किए जा रहे प्रधानमंत्री आवास योजना से हर गरीब व जरूरतमंद नागरिको को अपने घर का सपना साकार हो इस उद्देश्य से देश के प्रधानमंत्री मान. श्री नरेन्द्र मोदी ने हर समाज के गरीब व जरूरतमंद लोगो के लिए आवास योजना के माध्यम से मकान देकर गरीब लोगो के सपनो को साकार किया। इसी के तहत म.प्र. में देवास नगर निगम द्वारा निगम सीमा क्षेत्र के गरीब व जरूरतमंद लोगो को प्रधानमंत्री आवास योजना का लाभ दिया जाकर भारत सरकार की 150 दिवस चैलेंज प्रतियोगिता में सम्पूर्ण भारत मे उक्त योजना के तहत उत्कुष्ठ कार्य करने वाले नगर निगमो मे देवास नगर निगम ने आवास



आवासन ओर शहरी कार्य मंत्रालय से केन्दीय मंत्री मान.हरदीपसिंह पुरी के द्वारा देवास नगर निगम आयुक्त विशालसिंह चौहान को प्रतिक चिन्ह व प्रशस्ती पत्र भेंट कर सम्मानित किया। इस अवसर पर निगम आयुक्त विशालसिंह चौहान के साथ निगम की आवास योजना विभाग प्रमुख अधिक्षण यंत्री अरूण मेहता पूर्व निगम इंजिनियर शाहीद अली, इजिनियर ब्रजेश साह साथ रहे। प्रधानमंत्री आवास योजना मे देवास शहर को पूरे भारत वर्ष में दूसरा स्थान प्राप्त होने पर देवास विधायक श्रीमंत गायत्री राजे पवार,महापौर श्रीमती गीता दुर्गेश अग्रवाल, सभापति रवि जैन ने शहरवासियो व आयुक्त एवं निगम की टीम को हार्दिक शुभकामानाऐं देते हुये बधाई दी है

BHASKAR NEWS



PRADESH SATTA





प्रदेश सत्ता शकील कादरी ब्यूरो

देवासर/ निगम सीमा क्षेत्र के गरीब व जरूरतमंद लोगो को प्रधानमंत्री आवास योजना का लाभ दिया जाकर भारत सरकार की 150 दिवस चैलेंज प्रतियोगिता मे सम्पूर्ण भारत मे उक्त योजना के तहत उत्कृष्ठ कार्य करने वाले नगर निगमो मे देवास नगर निगम ने आवास योजना के चैलेंज प्रतियोगिता मे सम्पूर्ण भारत मे उत्कृष्ठ कार्य कर दूसरा स्थान प्राप्त करने पर नगर निगम आयुक्त विशालसिंह चौहान के साथ विभाग प्रमुख, अधीक्षणयंत्री अरूण मेहता, फायर अधिकारी जितेन्द्र सिसोदिया, राजेश कौशल का स्वागत निगम उपायुक्त पुनित शुक्ला, कार्यपालन यंत्री नागेश वर्मा, इंदुप्रभा भारती, निगम सहायक यंत्री जगदीश वर्मा, सौरभ त्रिपाठी, जनसम्पर्क अधिकारी उमेश चतुर्वेदी, उद्यान प्रभारी दिनेश चौहान, उपयंत्री तोफीक खान, विजय जाधव आदि के द्वारा निगम बैठक हॉल मे किया गया।



राजेश मालवीय

देवास । भारत सरकार की प्रधानमंत्री आवास योजना के अंतर्गत किए जा रहे प्रधानमंत्री आवास योजना से हर गरीब व जरूरतमंद नागरिको को अपने घर का सपना साकार हो इस उद्देश्य से देश के प्रधानमंत्री मान. श्री नरेन्द्र मोदी ने हर समाज के गरीब व जरूरतमंद लोगो के लिए आवास योजना के माध्यम से मकान देकर गरीब लोगो के सपनो को साकार किया। इसी के तहत म.प्र. मे देवास नगर निगम द्वारा निगम सीमा क्षेत्र के गरीब व जरूरतमंद लोगो को प्रधानमंत्री आवास योजना का लाभ दिया जाकर भारत सरकार की 150



दिवस चैलेंज प्रतियोगिता मे सम्पूर्ण भारत मे उक्त योजना के तहत उत्कृष्ठ कार्य करने वाले नगर निगमो मे देवास नगर निगम ने आवास योजना के चैलेंज प्रतियोगिता मे सम्पूर्ण भारत मे उत्कृष्ठ कार्य कर दूसरा स्थान प्राप्त किया। गुजरात के राजकोट शहर मे आयोजित कार्यक्रम मे भारत सरकार के आवासन ओर शहरी कार्य मंत्रालय से केन्दीय मंत्री मान हरदीपसिंह पुरी के द्वारा देवास नगर निगम आयुक्त विशालसिंह चौहान को प्रतिक चिन्ह व प्रशस्ती पत्र भेंट कर सम्मानित किया। इस अवसर पर निगम आयुक्त विशालसिंह चौहान के साथ निगम की आवास योजना विभाग प्रमुख अधिक्षण यंत्री अरूण मेहता पूर्व निगम इंजिनियर शाहीद अली, इंजिनियर ब्रजेश साहू साथ रहे। प्रधानमंत्री आवास योजना मे देवास शहर को पूरे भारत वर्ष मे दूसरा स्थान प्राप्त होने पर देवास विधायक श्रीमंत गायत्री राजे पवार महापौर श्रीमती गीता दुर्गेश अग्रवाल, सभापति रवि जैन ने शहरवासियो व आयुक्त एवं निगम की टीम को हार्दिक शुभकामानाएं देते हुये बधाई दी है।



प्रधानमन्त्री आवास योजना में प्रथम स्थान पर रही गोहद नगर पालिका



गुजरात के राजकोट में केन्द्रीय मंत्री ने किया सम्मानित

गोहद : प्रधानमंत्री आवास योजना के 150 दिन चैलेंज योजना में देश में प्रथम स्थान आने पर केन्द्रीय आवास एवं शहरी मन्त्री इरदीए सिंड एरी ने बधवार

आवास एवं शहरी मन्त्री केन्द्रीय आवास एवं शहरी मंत्री हरदीप सिंह पुरी से अवार्ड प्राप्त करते हुए गोहद नपा हरदीप सिंह पुरी ने बुधवार सीएमओ सतीश दुबे

अभियान का संचालन सीएमओ सतीश कुमार दुबे के निर्देशन में प्रभारी सहायक यंत्री मनोज कुमार उपाध्यय, आवास शाखा के नोडल अधिकारी आकाश त्यागी, आवास शाखा की प्रभारी सीमा चतुर्वेदी व कंप्यूटर ऑपरेटर मुनेश शर्मा की देख-रेख में किया गया था। नगर पालिका गोहद की ओर से इस कार्यक्रम में सीएमओ सतीश कुमार दुबे, उपयत्री आकाश त्यागी, कंप्यूटर ऑपरेटर मुनेश शर्मा और मुकुंद शर्मा ने भाग लिया। मंच पर सीएमओ सतीश कुमार दुबे व आकाश त्यागी ने अवार्ड प्राप्त किया।

शाम को गुजरात राजकोट के शास्त्री मैदान में प्रधानमंत्री नरेन्द्र मोदी की उपस्थिति में गोहद नगर पालिका के सीएमओ सतीश कुमार दुबे, उपयंत्री आकाश त्यागी और उनकी टीम को सम्मानित करते हुए अवार्ड प्रदान किया। प्रधानमन्त्री आवास योजना 150 दिन चैलेंज योजना में उत्कृष्ट कार्य कर नगर पालिका ने प्रथम स्थान प्राप्त किया है। अभियान गत 21 जून से 19 नवंबर 2021 तक चला था। जिसमें गोहद नगर में 150 दिन में सर्वाधिक आवास मकान बनाकर एक कीर्तिमान हासिल किया था और देश में प्रथम स्थान प्राप्त किया।

JANWARTA

आर.एन.आई. नंबर : एम.पी.एच.आई.एन./2012/45071

भोपाल, गुरूवार 20 अक्टूबर 2022

सरकार द्वारा देवास नगर निगम वहीं दूसरी पारी में शहर सफाई को उत्कृष्ट कार्य के लिए फिर में दिन पर दिन क्लीन शहरों की एक बार ओर पुरस्कार प्रदान गिनती में आता जा रहा है अब किया गया इस अवसर पर नगर निगम परिवार द्वारा हर्ष मनाया जा रहा है। इस अवसर पर महापौर गीता दुर्गेश अग्रवाल, कमिश्नर अपना ध्यान केंद्रित सभापति रवि जैन एवं आयुक्त श्री कर ले तो शहर चमचमाते शहरों चौहान ने नगर निगम की पूरी की गिनती में शुमार हो जाएगा। टीम को बधाई देते हुए कहा की हमारे पेपर के माध्यम से हम मेहनत और लगन से कार्य करने नगर निगम आयुक्त से निवेदन पर ही हमने यह सफलता करना चाहते हैं कि एक बार

पेज-8

कर पुरस्कृत किया गया भारत आज तक याद किया जाता है शहर में सुअर तो लगभग गायब हो चुके हैं बस आवारा पशु और खुदी हुई सडक पर अगर उज्जैन ब्रिज, स्टेशन रोड का निरीक्षण अवश्य कर ले ताकि सधार की प्रक्रिया में और इबारत लिखी जा सके।

डाक प्रजीयन के. म.प्र. /भोपाल/4-401/2016-18 सच्चाई की बात हौसले के साथ

मूल्य-1.00 रूपया



जाने वाले कार्यों में सर्वोत्तम प्रदर्शन किए जाने पर सर्वोत्तम में देवास नगर निगम को पूरे देश में दूसरा स्थान प्राप्त हुआ है। आयुक्त विशाल सिंह चौहान ने बताया की भारत सरकार द्वारा हासिल की है। प्रधानमंत्री आवास योजना अर्बन ज्ञात रहे कमिश्नर विशाल सिंह अवार्ड 2021 से देवास नगर चौहान के पहली बार पदभार आवास योजना के तहत किए निगम को दूसरा स्थान प्रदान ग्रहण करने के बाद राहगीरी डे

देवास (डॉ रईस कुरैशी)

वर्ष-10

सारम हैनिक

अंक 335

नगर निगम आयुक्त विशाल सिंह चौहान जब से आयुक्त के पद पर बैठे हैं तभी से शहर नई नई सौगातें भी पा रहा है और सफाई में भी नई ऊंचाइयों को छूते हुए आगे बढ रहा है। इसी कडी में इस बार प्रधानमंत्री आवास योजना में भी शहर ने नई ऊंचाई प्रदर्शन करने वाले नगर निगमों को छुआ है।

देवास नगर निगम को प्रधानमंत्री आवास योजना शहरी पुरस्कार 2021 के अंतर्गत पूरे देश की नगर निगमों में प्रधानमंत्री

THE HINDU TAMIL THISAI



ாவருக்கும் வீடு தீட்டத்தில் தேசிய அளவில் சிறப்பாகச் செயல்பட்டு 3–ம் இடம் பிடித்த தமிழகத்துக்குபிரதமர் விருது வழங்கினார். அவ்விருதை குறு, சிறு மற்றும் நடுத்தர தொழில் நிறுவனங்கள் துறை அமைச்சர் தா.மோ.அன்பரசன் பெற்றுக்கொண்டார். உடன் வீட்டு வசதி மற்றும் நகர்ப்புற வளர்ச்சித் துறை செயலர் ஹித்தேஷ் மக்வானா, வாரிய மேலாண்மை இயக்குநர் ம.கோவிந்தராஜ் உள்ளிட்டோர்.

அனைவருக்கும் வீடு தீட்டத்தில்

தேசிய அளவில் தமிழகம் 3-ம் இடம் 🔀 பிரதமரிடம் விருது பெற்றார் அமைச்சர் அன்பரசன்

ைசன்னை

அனைவருக்கும் வீடு திட்டத்தில் தேசிய அளவில் தமிழகம் 3-ம் இடம் பெற்றதற்கான விருதை, குஜராத் தில் நடைபெற்ற நிகழ்ச்சியில் பிரத மர் மோடி, தமிழக அமைச்சர் தா.மோ.அன்பரசனிடம் வழங்கி னார்.

இதுகுறித்து தமிழக அரசு நேற்று என்று அறிவிக்கப்பட்டது. வெளியிட்ட செய்திக்குறிப்பு: இத்திட்டத்தை சிறப்பாக செயல்

பிரதமரின் அனைவருக்கும் வீட்டுவசதி திட்டத்தை (நகர்ப்புறம்) சிறப்பாக செயல்படுத்தும் மாநிலங் கள், யூனியன் பிரதேசங்கள், உள் ளாட்சி அமைப்புகள் மற்றும் பய னாளிகள் அங்கீகரிப்புக்காக மத்திய அரசின் வீட்டுவசதி மற்றும் நகர்ப்புறத் துறையால், 'பிரதம

மந்திரி ஆவாஸ் யோஜனா விருது கள் - 2021 மற்றும் 150 நாட்கள் சவால் கள்' என்ற அடிப்படையில், மாநிலம், மாநகராட்சி, நகராட்சி மற்றும் பேரூ ராட்சிகளுக்கான விருதுகள், சிறப்பு பிரிவு விருதுகள், பயனாளிகளுக் கான விருதுகள் என 3 பிரிவு களில் விருதுகள் வழங்கப்படும்

இத்திட்டத்தை சிறப்பாக செயல் படுத்திய மாநிலம் என்ற பிரிவில் தமிழகம் 3-வது இடத்தையும், மாநக ராட்சிகளில் மதுரை மாநகராட்சிக்கு 3-வது இடமும், பேரூராட்சிகள் பிரி வில் கோவை மாவட்டம் பெரிய நெகமம் பேரூராட்சிக்கு 5-வது இடமும் கிடைத்துள்ளன. தைப் பெற்றார் இ மேலும், மாநிலங்களுக்கு இடை கூறப்பட்டுள்ளது.

யேயான சிறப்புப் பிரிவு விருது களின் கீழ், திறனுக்கேற்ற வாடகை வீட்டு வசதி குடியிருப்புகள் மாதிரி 2-ன்கீழ் விரைவாக பணிகளை மேற்கொண்டதற்காக சிறப்பு விருதும், நவீன தொழில்நுட்பத் துடன் கூடிய கட்டுமானப் பணி களை மேற்கொண்ட தற்கான சிறந்த மாநிலத்துக்கான விருதும் தமிழகத் துக்கு கிடைத்துள்ளது.

இந்நிலையில், குஜராத் மாநி லம் ராஜ்கோட்டில் கடந்த 19-ம் தேதி நடைபெற்ற விழாவில், பிரதமர் மோடியிடம் இருந்து தமிழக குறு, சிறு, நடுத்தர தொழில்கள் துறை அமைச்சர் தா.மோ.அன்பரசன் விரு தைப் பெற்றார் இவ்வாறு அதில்



குஜராத் மாநிலம், ராஜ்கோட்டில் நடந்த மாநாட்டில், அனைவருக்கும் வீட்டு வசதி திட்டத்தில், தேசிய அளவில் சிறப்பாக செயல்பட்டு 3ம் இடம் பிடித்த தமிழகத்திற்கு பிரதமர் மோடி வழங்கிய விருதை அமைச்சர் தா.மோ.அன்பரசன் பெற்றுக்கொண் டார். அருகில், வீட்டு வசதி துறை செயலாளர் ஹித்தேஷ்குமார் மக்வானா, தமிழ்நாடு நகர்ப்புற வாழ்விட மேம்பாட்டு வாரிய மேலாண்மை இயக்குனர் கோஷிந்தராவ்.

பிரதமரிடம் அமைச்சர்

தா.மோ.அன்பரசன் விருது பெற்றார்

சென்னை, அக். 21: அனை வருக்கும் வீடு திட்டத்தில் இந்திய அளவில் தமிழகம் வது இடத்தை பிடித்தது. தேற்கான விருதை பிரத இதற்கான விருதை பிரத மர் மோடியிடம் இருந்து அமைச்சர் தா.மோ.அன் பரசன் பெற்றுக்கொண்

இதற்கான விருதை பிரத மர் மோடியிடம் இருந்து அமைச்சர் தா.மோ.அன் பரசன் பெற்றுக்கொண் கார். இந்திய பிரதமரின் அனை வருக்கும் வீட்டு வசதி திட்டத்தை (நகர்ப்பு நம் நிறவந்வக்கு பிரது களில் அனை வருக்கும் வீட்டு வசதி திட்டத்தை (நகர்ப்பு நம் நறிலங்கள், உள்ளாட்சி அமைப்புகள் மற்றும் பய வரது கள் வழய்கப்படும் என அறிவிக்கப்பட்டது. இந்த விருது களில் அறிய அரசின் வீட்டு வசதி திட்டத்தை (நகர்ப்பு நம் நறிலங்கள், உள்ளாட்சி அமைப்புகள் மற்றும் பய வரது கள் அன் இது இடமும் பரது கள் அன் இது இடமும் பரத்தசங்கள், உள்ளாட்சி அமைப்புகள் மற்றும் பய வரது கள் அன் இது கள் பெற்றுன் என இடமும், பேரூராட்சிக்கு 3வது இடமும், பேரூராட்சிக்கு 3வது இடமும், பேரூராட்சிக்கு 3வது இடமும், பேரூராட்சிக்கு 300 இத்தப் படும் அனை வ மாதகராட்சிக்கு 300 இடமும், பேரோட்சிக்கு 300 இடமும், பேரோட்சிக்கு இடமும், பேரோட்சிக்கு 300 இடமும், பேரோட்சின் இத்தப் படும் அனை வ மாதகராட்சிகள் வறு புற் இன் இட்டத்தில் இடமும், பேரோட்சிகள் விருது கள் - 2021 மற்றும் பன் களுக்கு இடையிலான களுக்கு இடையிலான தேராட்சி களுக்கான வீரு நற்பு பிரீவு விருதுகளின் மனதி 2016 மாடி விருது வற் வீட்டு வசதி மற்றும் நேதே தன் பரது கையிலான தேரு மற்றும் போ தேறு மற்றும் நேர்த் திர மோடி விருது வழங் வாதி 2-ன் தே விரைது கன் புற்கொன் து களும், கிறப்பு பிரீவு விருது களும். பயனாள் வரது களுக்கான வீரு தற்காக சுற்பு விருதுகளில் தன் பர சன் பெற்றுக் தன் பர சன் பெற்றுக் கன் இற்ப்பு விருதுகள் விரு 2 வரு மற்ம் நடுத்த தன் பர சன் தே வினார். இந்த விருதை தமிழக தன் பர சன் பெற்றுக் களன் பார் சன் பெற்றுக் களன் போ அனை பர் சன் வரது பர சன் பெற்றுக் களன் பார்

களுக்கான விருதுகள் என நவீன தொழில்நுட்பத்து

DAILY THANTHI

இந்திய அளவில் அனைவருக்கும் வீடு திட்டத்தில் 3-வது இடம் பிடித்த தமிழகம்

அமைச்சர் தா.மோ.அன்பரசனுக்கு பிரதமர் நரேந்திரமோடி விருது வழங்கினார்

சென்னை. அக்.21-அனைவருக்கும் வீடு திட் டத்தில் இந்திய அளவில் தமிழகம் 3-வது இடம் பிடித்துள் எதை தொடர்ந்து அமைச்சர் தா.மோ.அன்பரசனுக்கு பிரதமர் நரேந்திர மோடி விருது வழங்கினார்.

விடுதுகள்

இதுகுறித்து தமிழக அரசு வெளியிட்ட செய்திக்குறிப் பில் கூறப்பட்டு இருப்பதா வது:-

பிரதமரின் அனைவருக்கும் வீட்டு வசதி திட்டத்தை (நகர்ப்புறம்) சிறப்பாக செயல்படுத்தும் மாநிலங்கள், யூனியன் பிரதேசங்கள், உள் ளாட்சி அமைப்புகள் மற்றும் பயனாளிகள் அங்கேரிப்பு ஆகியவற்றுக்காக மத்திய அர சின் வீட்டு வசதி மற்றும் நகர்ப்புற துறையால், "பிரதம மந்திரி ஆவாஸ் யோஜனா விருதுகள் - 2021 மற்றும் 150 நாட்கள் சவால்கள்" என்ற அடிப்படையில், மாநிலம், மாநகராட்சி, நகராட்சி மற் றும் பேரூராட்சிகளுக்கான விருதுகளும், சிறப்புப்பிரிவு விருதுகளும், பயனாளிகளுக் கான விருதுகள் என 3 பிரிவு களில் விருதுகள் வழங்கப் படும் என அறிவிக்கப்பட் 1.51

அவற்றில், சிறப்பாகசெயல் பட்டமாநிலம்என்றபிரிவில் தமிழகம் 3-வது இடத்தையும் மாநகராட்சிகளில் மதுரை மாநகராட்சி3-வது இடத்தை யும், பேரூராட்சிகள் பிரிவில் கோவை மாவட்டம் பெரிய நெகமம் பேரூராட்சி 5-வது இடத்தையும் பிடித்து விருது கள் பெற்றுள்ளன

பிரதமர் வழங்கினார்

மேலும், மாநிலங்களுக்கு இடையிலான சிறப்பு பிரிவு விருதுகளின் கீழ். திறனுக்



பிரதமர் நரேந்திர மோடி அமைச்சர் தா.மோ.அன்பரசனுக்கு விருது வழங்கியபோது எடுத்தபடம்.

மேற்கொண்டதற்காகசிறப்பு விருதும், நவீன தொழில் நுட் பத்துடன் கூடிய கட்டுமான பணிகளை மேற்கொண்டதற் காக சிறந்த மாநிலங்களுக் மோடி விருது வழங்கினார் கான விருதும் பெற்றுள்ளன.

மத்திய அரசின் வீட்டு வசதி மற்றும் நகர்ப்புற துறை யின் மூலம் செயல்படுத்தப் படும் அனைவருக்கும் வீடு தட்டத்தில் சிறப்பாக செயல் பட்டதற்காகதேசிய அளவில் 3-ம் இடம் பிடித்த தமிழ்நாட் டிற்கு விருது வழங்கும்

கேற்ற வாடகை வீட்டு வசதி நிகழ்ச்சி குஜராத் மாதிலம் கேற்ற வாடகை வட்டு வசத் குடியிருப்புகள் மாதிரி 2-ன் ராஜ்கோட்டில் நடைபெற் கீழ், விரைவாக பணிகளை | நது. அந்த விழாவில் தமிழக குறு, சிறு மற்றும் நடுத்தரத் தொழில் நிறுவனங்கள் துறை அமைச்சர் தா.மோ.அன்பரச னுக்கு பிரதமர் நரேந்திர விழாவில் வீட்டு வசதி மற்

றும் நகர்ப்புற வளர்ச்சி துறை செயலாளர் ஹித்தேஷ் குமார் மக் வானா. வாரிய மேலாண்மை இயக்குநர் ம கோவிந்தராவ் ஆகியோர் கலந்து கொண்டனர்.

இவ்வாறு அதில் கூறப்பட் டுள்ளது.

MURASOLI DAILY



DINAMALAR

மூன்றாம் இடத்தில் தமிழகம் விருது வழங்கீனார் பிரதமர்

திட்டத்தில், அளவில் தமிழகம் மூன் தினம் நடந்தது. றாம் இடம் பெற்றதற் கான விருதை, பிரதமர் னிடம் வழங்கினார்.

படுகிறது. இந்த திட்டத் கில் சிறப்பாக செயல்பட் டதற்காக, தேசிய அளவில் தமிழகம் மூன்றாம் இடம்

சென்னை, அக். 21– பிடித்தது.விருது வழங்கும் வீட்டு வசதி குடியிருப்ப அனைவருக்கும் வீடு விழா, குஜராத் மாநிலம்,

விழாவில்,

வசதி மற்றும் நகர்ப்புற றாம் இடம்; பேரூராட் இந் நிகழ்ச்சியில், வளர்ச்சித்துறை சார்பில், சிகள் பிரிவில், கோவை அமைச்சருடன், தமி அனைவருக்கும் வீடு மாவட்டம், பெரிய நெக முக வீட்டு வசதி துறை திட்டம் செயல்படுத்தப் மம் பேரூராட்சி ஐந்தாம் செயலர் ஹித்தேஷ் இடம் பெற்றதற்காக, விரு குமார் மக்வானா, வாரிய துகள் வழங்கப்பட்டன.

கள் மாதிரி – 2ன் கீழ் விரை இந்திய ராஜ்கோட்டில் நேற்று முன் வாக பணிகளை மேற் கொண்டதற்காக சிறப்பு பிரதமர் விருது; நவீன தொழில் மோடியிடம் இருந்து, நுட்பத்துடன் கூடிய, கட்டு நரேந்திர மோடி, நேற்று தமிழக அமைச்சர் அன் மானப் பணிகளை மேற் முன்தினம் ஊரக தொழில் பரசன், தமிழகத்துக்கான கொண்டதற்காக, சிறந்த துறை அமைச்சர் அன்பரச விருதை பெற்றார். மாநிலங்களுக்கான விரு ரிடம் வழங்கினார். மாநகராட்சிகளில், துகளும், தமிழகத்திற்கு மத்திய அரசின் வீட்டு மதுரை மாநகராட்சி மூன் வழங்கப்பட்டன.

> மேலாண்மை இயக்குனர் இது தவிர, சிறப்பு பிரிவு கோவிந்தராவ் ஆகியோர் விருதுகளின் கீழ், வாடகை பங்கேற்றனர்.

MURASOLI DAILY

'அனைவருக்கும் வீடு' தீட்டத்தீல் தெந்தீய அளவில் தமிழகம் 3ஆவது கடம்! பிரதமரிடம் அமைச்சர்தா.மோ. அன்பரசன் விருதனை பெற்றார்!

வசதி மற்றும் நகர்ப்புற (நகர்ப்புறம்) சிறப்பாக என அறிவிக்கப்பட்டது. துறையின் மூலம் செயல்ப செயல்படுத்தும் மாநிலங் மேற்கண்ட விருதுகள டுத்தப்படும் அனைவருக் கள், யூனியன் பிரதேசங்கள், சிறப்பாக செயல்பட் கும் வீடு திட்டத்தில் சிறப் உள்ளாட்சி அமைப்புகள் பாக செயல்பட்டமைக்கு மற்றும் பயனாளிகள் அங்கீ தேசிய அளவில் 3ஆம் தேசிய அள்ளலை 3ஆம் காட்டத்துக்காக இன்றப் மாநகராட்கெள்ன மதுரை இவ்விழாவில் குறு, சிறு இடம் பிடித்த தமிழ் நாட் அரசின் வீட்டுவசதி மற்றும் மாநகராட்சிக்கு 3ஆவது இவ்விழாவில் குறு, சிறு டிற்கு, குஜராத் மாநிலம் நகர்ப்புற துறையால், "பிர இடமும், பேரூராட்சிகள் மற்றும் நடுத்தரத் தொழில் ராஜ்கோட்டில் 19.10.2022 தம் மந்திரி ஆவாஸ் பிரிவில் கோவை மாவட் திறுவனங்கள் துறை அமைச் அன்று நடைபெற்ற விழா யோஜனா விருதுகள் 2021 டம், பெரிய நெகமம் பேரூ சர் அவர்களுடன், வீட்டு அன்று நடைபெற்ற விழா லில் பிரதமர் நரேந்திர மற்றும் 150 நாட்கள் சவால் மோடி அவர்களிடமிருந்து கள் "என்ற அடிப்படையில், குறு, சிறு மற்றும் நடுத்தரத் மாநிலம், மாநகராட்சி, நக தொழில் நிறுவனங்கள் ராட்சி மற்றும் பேரூராட்சி துறை அமைச்சர் தா.மோ. களுக்கான விருதுகளும், அன்பரசன் அவர்கள் விரு தனை பெற்றார்.

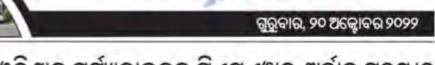
களுக்கான விருதுகளும், சிறப்புப் பிரிவு விருதுகளும், பயனாளிகளுக்கான விருது

சிறப்பாக செயல்பட்ட கூடிய கட்டுமான பணி மாநிலம் என்ற பிரிவில் தமி களை மேற்கொண்டதற் கள், யூனியன் பிரதேசங்கள், திறப்பாக செயல்பட்ட மற்றும் பயனாளிகள் அங்கீ முகம் 3ஆவது இடத்தையும், காக சிறந்த மாநிலங்களுக் கரிப்பதலுக்காக ஒன்றிய மாநகராட்சிகளில் மதுரை கான விருதும்பெற்றுள்ளன. ണങ്ങ. ளுக்கு இடையிலான சிறப்பு விருதுகளின் கீழ், பிரிவு தறன்கேற்ற வீட்டு வசதி குடியிருப்புகள் கலந்து கொண்டனர்.

ஒன்றிய அரசின் வீட்டு கும் வீட்டு வசதிதிட்டத்தை விருதுகள் வழங்கப்படும் பணிகளை மேற்கொண்ட வசதி மற்றும் நகர்ப்புற (நகர்ப்புறம்) சிறப்பாக என அலில்கள் பெற்கோண்ட மேற்கண்ட விருதுகளில் நவீனதொழில்நுட்பத்துடன் காக சிறந்த மாநிலங்களுக்

ராட்சிக்கு 5 ஆவது இடமும் வசதி மற்றும் நகர்புற பிடித்து விருதுகள் பெற்றுள் வளர்ச்சி துறை செயலர் ளன. மேலும் மாநிலங்க ஹித் தேஷ் கு மார் மக்வானா, வாரிய மேலாண்மை இயக்குநர் வாடகை ம.கோவிந்தராவ் ஆகியோர்

THE SAKALA



ରାଜ୍ୟ ଖବର

ଓଡିଶାକୁ ମର୍ଯ୍ୟାଦାଜନକ ପିଏମ୍ଏୱାଇ-ଅର୍ବାନ୍ ପୁରସ୍କାର

ଓଡ଼ିଶା ସରହାରଙ୍କ 'ଜାଗା ମିଶନ' ସହ ସରକାର । କେନ୍ତୁ ସରକାରଙ୍କ ଗ୍ରହ ଓ ସହରୀ । କରାଯାଇଛି । କର୍ରମାନ ଗ୍ରହନିର୍ମାଣ କଥା କମି ଅଧିକାର ତଥା ସହରାଥକ ଗ୍ରହ ନିର୍ମାଣ ନିକାଶ ମନଣାକୟ ପ୍ରଥନ କନନ୍ତିରେ ଅନ୍ମୋମିନାଳିକ କର୍ବି କନି ପ୍ରଥନ କନ୍ଦିମା ମିଶନ (ଏଥାଏକଏମ) ମଧ୍ୟରେ ସମନୟ ବଳିଲାକୁ 'ଶଣ୍ଡଣ୍ଡ ମାନିକତ ପଦରେସ ସମସ୍ୟ ମାଇକିଳଳ ପୁରକ୍ଷାଳତ ଅନ୍ନତିଯା ଭାଷା କରି ଗୁନନିର୍ମାଣ ସାହାଯାଇ। ଦେବାରେ ନେଇଥିବା ଭାବ୍ୟ ଭାବେ ପ୍ରଦ୍ୟାର ସ୍ବଦାନ । ତଥା ସାମାଳିକ ଓ ଅଥିନେଟିଲ ଅଟାଇଡି । ସମହତା ପାଇଛନ୍ତି । କୁମିୟକୁ ଅଧାବାର କରାଯଇଛି । ଗୁକରାଟର ରାଜବୋଟଠାରେ । ବଢ଼ାଇବା ସହ ନଗର ରନ୍ନରନ ଯୋକନାକୁ । ତଥା ଗୁହନିର୍ମାଣ ସହାରହା ସହରାଞ୍ଚନର କ୍ଷାକାର ଆରମ୍ଭ ନୋଇଥିବା 'କଣ୍ଡିଆନ୍' କୋଳକ କରୁଛି । ଏସରିଆହାଳକ ମୁକାବିକା 'କାରରିକଙ୍କ ନିମନ୍ତେ ପୁମୁଖ ଆବଶ୍ୟକାର

କୁ କାଇନାଙ୍କ ଲା, କା୯ । କାଦ (ସାମି ସ) : ସମର୍ଘ ତଥା ଏକାରିମୁଖାକରଣ ବିରରେ ରପରଙ୍କ କ୍ରାଡ଼ା ରପକରଣ ଆଦି ଯୋଜାଇ ପିଏନଏମାଇ-ଅର୍ଚ୍ଚନ୍ କାର୍ଯ୍ୟାକ୍ରରରରେ ଓଡ଼ିଶାର ଅଭିନତ ପଦରଃପରୁଡ଼ିକୁ ନିଆଯାଇଛି । ଅନିଶାହ ପ୍ରସ୍କୃତ ନରିଛନ୍ତି ନେତ୍ର ଏହି ନନରତ୍ରରେ ଭ୍ୟାସା ପ୍ରଶୀସ

ଅନ୍ୟର୍ଶ୍ ଜାଇଥିଙ୍କ ଜନକୁକୁର୍ବର ପ୍ରଧାନମନ୍ତା ନରେହ ମୋଡା, ନେହ ଗ୍ରହ ତ ସହରୀ ତିକାଶ ମନା ହରତାପ ସିଂ ପରା ସମ୍ପର୍ଥ ଓଡ଼ିଶାକୁ ପୁରସ୍କତ କରିଛନ୍ତି । ଓଡ଼ିଶା ସରନାରଙ୍କ ପଞ୍ଚର ରାଜ୍ୟ ପ୍ରୌର ପ୍ରଶାସନ ନିର୍ଦ୍ଦେଶନ ସଂଗାମନିତ ନାରନ ଏବଂ ଓଡ଼ିଶା ସହରାଞ୍ଚ ସହ ନିର୍ମାଣ ନିଶନ ଆଦାସଂ ର ମିଶନ ନିର୍ଦ୍ଦେଶ ଦେବାଶିଷ ହି ଏହି ପ୍ରକ୍ଷାର ଗହଣ କରିଛନ୍ତି ।

ନ୍ୟକୃତିଶେଷଙ୍କୁ ଅଭିଲା ସରକାର କରିଛନ୍ତି। କାରା ମିଶଳରେ ସହରାଞ୍ଚଳ ଲୋକଙ୍କ ରାଇଁ ସୁବିଧା କରାଯାଇଛି । ଏହା 'ଳାଲ ମିଶନ୍' ଜସିଆରେ ସୁରଞ୍ଚିତ ଭୂମି ଅଧିକାବୀଙ୍କୁ ଚିଲିନ୍ନ ମୌଜିକ ସୁର୍ବିଧା ହାଲା ବକ୍ଷିଗୁଡ଼ିକୁ ବାସଯୋଜ୍ୟ ଇହିବା ଅଧିକାର ସଥିଲାର ହେରଛନ୍ତି । ଏଥିପାଇଁ ପ୍ରଦାନ କରାଯାଇଛି । ଜମିଅଧିକାର ସାଙ୍କରୁ ସାନରେ ରୁପାନ୍ତରିହ କରିବା ସୁନିରିହ ଭୂମିହାନମାନେ ପ୍ରଧାନମନ୍ତା ଆକାସ ଶୌଦାକର ସହିନ ଗୃହ ନିର୍ମାଣ ସହାରହା, କରାଯାଇଛି । କର୍ସି କାର୍ଥିନାଙ୍କ ପାଇଁ ଜମି ସେହାନାରେ ଗୃହ ନିର୍ମାଣ କରିପାରୁଛକ୍ତି । ପାଇପ୍ ସୋରେ ପାଳାର କଳ ଯୋଗାଣ ଅଧିକାର ଜଣା ଗୁହନିର୍ମାଣ ସହାସନା ଏହି ଦିଗରେ ନେଇଥିବା ଇକ୍ଟେଖଯୋକ୍ୟ ତଥା ସରକୁ ନିତ୍ୟୁତ୍ ସଂଯୋଗ, ବର୍ଯ୍ୟ ଯୋଗାଇବେଳ ସେମାନଙ୍କ ଜୀବନ ସକ୍ଟରଣର ସାନ୍ନତିସ୍ୱରପ ଭାରନ ନିର୍ବମନ ନାକ, ରାସ୍ତ୍ରା ଆଲୋକ ଓ ସାମାଳିକ ଧାରଶର ମାନରେ କ୍ୟାପକ ରନ୍ନତି ଆଣିବା କରକାରଙ୍କ ପଞ୍ଚତି ଅନିଶାଳୁ ଏହି ପୁରସ୍କାର ଆବଶ୍ୟକତା କୃଞ୍ଚିକୁ 'ପରିରେ' ଗୋଷା ସହ କସ୍ତିବାସିରାଙ୍କ ସାମାନିକ ଥୋ ମିହିଛି । ବିଭିନ୍ନ କଳାାଣକାରୀ ଯୋକନାର କେନ୍ଦ୍ର, ଖୋରା ସ୍ଥାନ ନଥା ଶିଶୁ ମାନଙ୍କ ପାଇଁ ଅର୍ଥନୈତିକଅରିକୃତ୍ତି ବରାନ୍ତିତ କରାଯାଇଛି ।



ସହରାଞ୍ଚତ ଭୂମିଙ୍ଗଳ ଗରିକ ଜମି ଅଧିକାର ଅଧିନିରମ ୨୦୧୬ ପ୍ରଣଣନ ମିଖନ୍ ଓ ଜାରା ମିଖନ୍ ସୁଫରୋଜିକ ଭୂପେ

ପାଇଁ ରାଚ୍ୟ ସରକାର ଓଡ଼ିଶା ବସ୍ଥି ବାସିହା ସୋରଥିବାହୁ ଓଡ଼ିଶା ସହରାଞ୍ଚଳ ନିର୍ମାଣ

PRAGATIBADI



🔳 ଭୁବନେଶ୍ୱର, ତା ୧୯ ।୧୦(ପିଏନଏସ) ଭାରତ ସରକାରଙ୍କର ଆବାସ ଓ ସହରା ବିକାଶ ମନ୍ତଶାଳୟ ପ୍ରଦର ପିଏମଏଓ୍ଡାଇ ଅର୍ବାନ ପୁରସ୍କାର ଅନ୍ତର୍ଗତ ସ୍ୱତନ୍ତ୍ର ବର୍ଗରେ ଶ୍ରେଷ୍ପ ନୀତିଗତ ପଦକ୍ଷେପ ନେଇଥିବା ରାଚ୍ୟ ଭାବେ ଓଡ଼ିଶା ପୁରସ୍କାର ଲାଭ କରିଛି । ଗୁଚ୍ଚରାଟର ରାଚ୍ଚକୋଟଠାରେ

ଆରମ୍ଭ ହୋଇଥିବା ତ୍ରିଦିବସୀୟ ଇଣ୍ଡିଆନ ଅର୍ବାନ ହାଉସିଂ କନକ୍ଟେଭରେ ଭାରତର ପ୍ରଧାନମନ୍ତ୍ରୀ ନରେନ୍ଦ୍ର ମୋଦି ଏବଂ କେନ୍ଦ୍ର ଆବାସ ଓ ସହରୀ ବିକାଶ ମନ୍ତ୍ରୀ ହରଦାପ ସିଂ ପୁରୀ ଏହି ପୁରସ୍କାରରେ ଓଡ଼ିଶାକୁ ସମ୍ମାନିତ କରିଛରି।

ଓଡ଼ିଶା ସରକାରଙ୍କ ପକ୍ଷରୁ ରାଜ୍ୟ ପୌର

ଓଡ଼ିଶାକୁ ପିଏମଏଓ୍ଡାଇ ଅର୍ବାନ ପୁରସ୍କାର

ପ୍ରଶାସନ ନିର୍ଦ୍ଦେଶକ ତଥା ଜାଗା ମିଶନର ମିଶନ ନିର୍ଦ୍ଦେଶକ ସଂଗ୍ରାମଜିତ ନାୟକ ଏବଂ ଓଡ଼ିଶା ସହରାଞ୍ଚଳ ଗୃହ ନିର୍ମାଣ ମିଶନ-ଆବାସର ମିଶନ ନିର୍ଦ୍ଦେଶକ ଦେବାଶିଷ ସିଂହ ମିଳିତ ଭାବେ ଏହି ପୁରସ୍କାର ଗ୍ରହଣ କରିଛନ୍ତି । ମଧ୍ୟରେ ସମନ୍ୟ ରକ୍ଷା କରି ହିତାଧିକାରୀ ସହରାଞ୍ଚଳର ଭମିହାନ ଗରିବ ବ୍ୟକ୍ତିବିଶେଷଙ୍କ ମାନଙ୍କ ଜମି ଅଧିକାର ତଥା ଗୁହନିର୍ମାଣ ଓଡ଼ିଶା ସରକାର ଜାଗା ମିଶନ ଜରିଆରେ ସହାଯତା ଦେବାରେ ସଫଳତା ପାଇଛନ୍ତି । ସୁରକ୍ଷିତ ଭୂମିସ୍ୱତ୍ୱ ଅବଧିର ଅଧିକାର ଯୋଗାଇ ବେବା ପାଇଁ ତଥା ହିତାଧିକାରୀଙ୍କୁ ପ୍ରଧାନମନ୍ତା ଆବାସ ଯୋଜନା ଅର୍ବାନ ଅନ୍ତର୍ଗତ ସହାୟତା ନିମନ୍ତେ ଅନ୍ତର୍ଭୁକ୍ତ କରିବା ଦିଗରେ ନେଇଥିବା ଉଲ୍ଲେଖଯୋଗ୍ୟ ପଦକ୍ଷେପ ସ୍ୱୀକୃତି ସ୍ୱରୂପ ଏହି ପୁରସ୍କାର ମିଳିଛି । ବିଭିନ୍ନ କଲ୍ୟାଣକାରୀ ଯୋଜନାର ସମନୃୟ ତଥା ଏକାଭିମୁଖୀକରଣ ଦିଗରେ ଓଡ଼ିଶାର ଅଭିନବ ପଦକ୍ଷେପ

ସମୂହକୁ ଏହି କନକ୍ଟେଭରେ ଭୂୟସୀ ପ୍ରଶଂସା କରାଯାଇଥିଲା ।

ଓଡ଼ିଶା ସରକାର ଜ୍ଞାଗା ମିଶନ ସହ ଓଡ଼ିଶା ସହରାଞ୍ଚଳ ଗ୍ରହନିର୍ମାଣ ମିଶନ (ଓୟଏବଏମ) ଭୂମିସତ୍ୱ ଅବଧିର ଅଧିକାର ତଥା ଗୃହନିର୍ମାଣ ସହାୟତା ସହରାଞ୍ଚଳର ନାଗରିକଙ୍କ ନିମନ୍ତେ ପ୍ରମୁଖ ଆବଶ୍ୟକତା ହୋଇଥିବାରୁ ଓଡ଼ିଶା ସହରାଞ୍ଚଳ ଗ୍ରହ ନିର୍ମାଣ ମିଶନ (ଓୟୃଏଚଏମ) ଓ ଜାଗା ମିଶନ ପକ୍ଷରୁ ସୁସଂଯୋଳିତ ରୂପେ ମୌଳିକ ନାଗରିକ ସୁବିଧା ବ୍ୟବସ୍ଥା ଦ୍ୱାରା ବସ୍ଥିଗୁଡକୁ ବାସଯୋଗ୍ୟ ରହିବା ସ୍ଥାନରେ ରୂପାନ୍ତରିତ କରିବା ସୁନିଷ୍ଠିତ କରାଯାଇଛି ।

THE SAMAJA

ଓଡ଼ିଶାକୁପିଏମ୍ଏୱାଇ ସହରାଞ୍ଚଳ ପ୍ରରସ୍କାର

ଜନେନଶ୍ୱର, ହମ୍ପା୧୦(ମାସ): ଭାରତ ସରନାରଙ୍କ ଆବାସ ଓ ସହରୀ ବିକାଶ ମତାଳୟ ପ୍ରଦତ ପିଏମଏଖିାଇ-ଅନାନ୍ଟ(ସହରାଞ୍ଚନ) ପୁରସ୍କାର ଅନ୍ତର୍ଗତ ସ୍ୱତନ୍ତ କଗର ଶ୍ରେଷ୍ମ ନାତିଗତ ପଦ୍ଦରେପ ଚନ୍ଦ୍ରଥିବା ରାଜ୍ୟ ଭାବେ ଓଡ଼ିଶା ପୁରସ୍କାର ଜରିଛି । ଲାଲ ଗ୍ରହରାଟର ଗାଳକୋଟିଠାରେ ବ୍ରଧବାରଠାରୁ ଆଜନ୍ୟ ହୋଇଥିବା ତ୍ରବବସାୟ କଣ୍ଡିଆନ ଅବାନ ହାଉସଙ୍ଗ କନ୍ତକ୍ଳଭରେ ପ୍ରଧାନମନୀ ନର୍ଭରଙ୍କ ମୋଦ୍ଦୀ ଓ କେଳ ଆକାସ ଓ ସହରା ବିକାଶ ମଙ୍ଖ ହରଜୀପ ସିଂ ପୁରା ଏହି ପୁରସ୍କାରରେ ଓଡ଼ିଶାକୁ ସମ୍ମାନସ ତ କରିଛନ୍ତି । ଓଡ଼ିଶା ସରଳାରଙ୍କ ପଷର ପୌର ପ୍ରଶାସନ ନିର୍ଦ୍ଦେଶକ ତଥା 'ଚାରା ମିଶନ୍ଦ'ର ନିର୍ଦ୍ଦେଶକ ସଂଗ୍ରାମନିତ ନାମକ ଏକଂ ଓଡ଼ିଶା ସହରାଞ୍ଚଳ ଗ୍ରହ ନିମାଣ ମିଶନ-'ଆବାସ' ର ମିଶନ ନିଢେଶକ ଢେବାରିଖ ସି ହ ମଳିତ ଜାବେ ଏହି ପ୍ରୟାର ଗ୍ରହଣ କରିଛରି। ସହତାଞ୍ଚଳର ଭୂମିହାନ ଗରିବଙ୍କୁ ଏଡ଼ିଶା ସରକାର 'ଜାଗା ମିଶନ' ଜରିଆରେ ଢନିନ୍ଦର ଅଧିକାର ବେବା ଦଥା ହିତାଧକାରାଙ୍କ ପ୍ରଧାନମନ୍ତା ଆକାସ ଯୋଜନା (ଅବିନ) ଅନ୍ତରତ ସହାରତା ନିମନ୍ତେ ଅନ୍ତଭୁକ୍ତ କରିବା ଦିଗରେ ରେଇଥିବା ପଢ଼େଷପର ସ୍ୱାକୃତି ମିନିଛି ।

ଓଡ଼ିଶାକୁ ପିଏମ୍ଏଓ୍ୱାଇ ଅର୍ବାନ ପୁରସ୍କାର

ଭୁବନେଶ୍ୱର,୧୯ା୧୦(ବ୍ୟୁରୋ): ଓଡ଼ିଶାକୁ ପିଏମ୍ଏଓ୍ୱାଇ ଅର୍ବାନ ପୁରସ୍କାର ମିଳିଛି । କେନ୍ଦ୍ର ସରକାରଙ୍କ ଗୃହ ନିର୍ମାଶ ଓ ସହରାଞ୍ଚଳ ବିକାଶ ମନ୍ଧାଳୟ ଏହି ପୁରସ୍କାର ଦେଇଛି । ଗୁଜରାଟ ରାଜକୋଟରେ ଆୟୋଜିତ ଇଷ୍ଟିଆନ ଅର୍ବାନ ହାଉସିଂ ସମ୍ବେଳନରେ ପ୍ରଧାନମର୍ଦ୍ଧୀ ମୋଦି ଓଡ଼ିଶାକୁ ଏହି ପୁରସ୍କାର ପ୍ରଦାନ କରିଛନ୍ତି ।

ସହରରେ ରହୁଥିବା ଭୂମିହୀନ ଓ ଗରିବ ଶ୍ରେଣୀର ଲୋକଙ୍କୁ ଜାଗା ମିଶନ ଜରିଆରେ ଭୂମି ଅଧିକାର ଦିଆଯାଇଛି । ପ୍ରଧାନମର୍ଶୀ ଆବାସ ଯୋଜନା (ଅର୍ବାନ)ରେ ଲୋକଙ୍କୁ ଆବାସ ଦେବାକୁ ଉଲ୍ଲେଖନୀୟ ପଦଷେପ ନିଆଯାଇଛି । ଏଥିପାଇଁ ଓଡ଼ିଶାକୁ ଏହି ମର୍ଯ୍ୟାଦାଜନକ ପୁରସ୍କାର ମିଳିଛି । ସେହିଭଳି ରାଜ୍ୟରେ କାର୍ଯ୍ୟକାରୀ ହେଉଥିବା ବିଭିନ୍ନ ଯୋଜନାର ସମନ୍ୱୟ ପାଇଁ ପ୍ରଂଶସା କରାଯାଇଛି । ପୌର ପ୍ରଶାସନ ନିର୍ଦ୍ଦେଶକ ସଂଗ୍ରାମଜିତ ନାୟକ ଏବଂ ଓଡ଼ିଶା ସହରାଞ୍ଚଳ ଗୃହ ନିର୍ମାଣ ମିଶନ-ଆବାସର ମିଶନ ନିର୍ଦ୍ଦେଶକ ଦେବାଶିଷ ସିଂହ ମିଳିତ ଭାବେ ଏହି ପୁରସ୍କାର ଗ୍ରହଣ କରିଛନ୍ତି । ଜାଗା ମିଶନ ଜରିଆରେ ସହରାଞ୍ଚଳରେ ରହୁଥିବା ଭୂମିହୀନଙ୍କୁ ଜମି ଅଧିକାର ମିଲୁଛି । ସେମାନଙ୍କ ପାଇଁ ବିଭିନ୍ନ ସୁବିଧା କରାଯାଉଛି । ପିଲାଙ୍କ ପାଇଁ ଖେଳ ସୁବିଧା ରଖାଯାଉଛି । ଜାଗା ମିଶନ ସହ ଓଡ଼ିଶା ସହରାଞ୍ଚଳ ଗୃହ ମିଶନ୍ (ଓୟୁଏଚ୍ଏମ୍) ଜରିଆରେ ବୟିକୁ ରୂପାଡରଣ କରି ବାସ ଉପସୁକ୍ତ ଅଞ୍ଚଳ କରାଯାଇଥିବା ରାଜ୍ୟ ଗୃହ ନିର୍ମାଣ ଓ ନଗର ଉନ୍ୟୟନ ବିଭାଗ ପକ୍ଷରୁ କୁହାଯାଇଛି ।



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DIGITAL MEDIA

I.

SWARAJYA

LINK: https://swarajyamag.com/infrastructure/gujarat-pm-modi-toinaugurate-light-house-project-in-rajkot-on-19-october

Gujarat: PM Modi To Inaugurate Light House Project In Rajkot On 19 October



India's second Light House Project (LHP) consisting of 1,144 houses under the PM Awas Yojna will be inaugurated in Rajkot on 19 October.

The multi-storey residential project having 11 blocks has been built in 20 months using new technology from France for faster construction of houses.

Prime Minister Narendra Modi is scheduled to hand over the keys to the allottees on Wednesday. The complex has all basic and social infrastructure such as shops, park, solar lamps, sewage treatment plant (STP), anganwadi and school within the vicinity.

In this project, "monolithic concrete construction using tunnel formwork" technology has been used.

The customised engineered tunnel formwork, two steel half shells are placed together and RCC casting is done to form a module.

Several such modules make an apartment. With tunnel forms, walls and slab are cast in a single day.

LINK: <u>https://timesofindia.indiatimes.com/india/pm-to-hand-over-keys-to-</u> 1144-houses-built-under-central-scheme-in rajkot/articleshow/94868360.cms

PM to hand over keys to 1,144 houses built under central scheme in Rajkot



NEW DELHI: The country's second Light House Project (LHP) consisting of 1,144 houses under the PM Awas Yojna will be inaugurated in Rajkot on Wednesday. The multi-storey residential project having 11 blocks has been built in 20 months using new technology from France for faster construction of houses.

Prime Minister Narendra Modi is scheduled to hand over the keys to the allottees. The complex has all basic and social infrastructure such as shops, park, solar lamps, sewage treatment plant (STP), anganwadi and school within the vicinity. In this project, "monolithic concrete construction using tunnel formwork" technology has been used. In this, customised engineered tunnel formwork, two steel half shells are placed together and RCC casting is done to form a module. Several such modules make an apartment. With tunnel forms, walls and slab are cast in a single day.

Modi had inaugurated the first such project in Chennai in May this year. The progress of four more projects are at different stages in Indore, Lucknow, Ranchi and Agartala. In each project, different construction technology being is used. Though the government had set a 12-month target for completion of these projects, there has been delay, mainly due to the second surge of Covid-19 last year. Foundation stones for these projects were laid in January 2021. The government had also announced prize money for developers who could complete them before 12 months and within 15 months.

The success of these technologies will pave the way for faster construction and delivery of houses in urban areas.

The housing ministry has installed giant TV screens at its headquarters where live feed from all the six LHPs is available. "The projects are monitored from Nirman Bhawan 24X7 and all 365 days. The beneficiaries for all the under construction houses have got the allotments of the flats in their names. The technologies used in these projects will be used at large scale for faster construction of houses," said an official.

PRAGATIVADI

LINK: https://pragativadi.com/pm-modi-to-inaugurate-india-urban-housingconclave-2022-in-rajkot/

PM Modi To Inaugurate India Urban Housing Conclave 2022 In Rajkot



New Delhi: Prime Minister Narendra Modi will inaugurate 'Indian Urban Housing Conclave-2022' (IUHC2022) a three-day event being organised by Ministry of Housing and Urban Affairs (MoHUA), Government of India from 19-21 October 2022 at Rajkot, Gujarat.

Union Minister of Housing and Urban Affairs; and Petroleum and Natural Gas, Hardeep S Puri, Minister of State for Housing and Urban Affairs, Kaushal Kishore and other dignitaries from Centre and States will also grace the occasion. Apart from PMAY-U, other Urban Missions viz. Swachh Bharat Mission, Atal Mission for Rejuvenation and Urban Transformation (AMRUT), Smart Cities Mission, Urban Transport, Deendayal Antyodaya Yojana National Urban Livelihoods Mission (NULM), SVANidhi etc. being implemented by MoHUA will participate in the event.

'Indian Urban Housing Conclave' will provide a platform to all stakeholders to demonstrate their technologies as well as deliberate upon various options of technologies, materials and processes for large scale adoption and mainstreaming in different type of housing construction suitable for different Geo-climatic regions of the country. It will create enabling eco-system for further adoption by Public/Private Agencies, R&D and Technical Institutions, Construction Agencies, Developers,

Contractors, Start-ups and other stakeholders. Further, beneficiaries (house owners) will have access to innovative, rapid and cost-effective construction technologies and materials for use. It will also help devising strategies, action plan and roadmap for achieving the vision of "Future Ready Urban India" focussed on urban housing during the 'Amrit Kaal'.

The event will be organised in physical as well as virtual mode with webcasting and live streaming. The event consists of following components:

- 1. Inauguration of Light House Project (LHP) Rajkot, Gujarat: The LHP at Rajkot, is one of the 6 LHPS being constructed by MoHUA in 6 States using globally proven innovative construction technologies. The LHP Rajkot is complete in all respect. In this project, 'Monolithic Concrete Construction using Tunnel Formwork', a global innovative technology from France has been used for construction of 1,144 houses which ensures rapid construction, durability, low maintenance and is resource-efficient and disaster-resilient. The LHP Rajkot will be inaugurated and handed over to the beneficiaries by the Hon'ble Prime Minister during the event. In addition, various publications, compendiums, books will be released.
- 2. National Exhibition on Innovative construction practices: An exhibition on Innovative building materials, construction technologies & processes will be set up where global and domestic exhibitors will showcase the prototype models on new and innovative construction technologies/materials. Technology providers from across the globe, domestic indigenous technologies, potential future technologies (start-ups) from the country have been invited through a simple online screening process. A Technical Evaluation Committee (TEC) constituted for GHTC-India will evaluate and assess their suitability in Indian context. More than 200 technology providers are expected to showcase their products.
- 3. Exhibition on best practices adopted by States/UTs under PMAY-U including Gujarat: The PMAY-U Mission promotes cooperative federalism. The States/UTs have innovated their implementation structure as per the local context such as adopting innovative construction practices, convergence of PMAY-U with other housing schemes, livelihood programs, providing housing to special groups, etc. The exhibition aims to showcase such efforts of States/UTs including Gujarat in the successful implementation of PMAY-U along with the achievements of urban missions and their roadmap/action plan for driving the economic growth, transforming lives of people and improving 'ease of living'.
- 4. Deliberations on Affordable Housing Discourses: Various dialogues, thematic sessions, roundtable discussions will be conducted with stakeholders consisting of national and international experts to discuss, share and learn the progress in transforming urban landscape to take resolve for future urban development in improving 'Ease of Living'. It will also be participated by MoHUA/State/UT officials, academia, civil society organisations and other stakeholders.
- Felicitation of PMAY(U) Awards 2021: In order to recognize the outstanding contribution by States, UTs and ULBs, MoHUA has introduced annual awards for excellence in implementation of PMAY(U). The winners for PMAY(U) Awards 2021 have been identified and will be felicitated during the event.

MoHUA has been implementing PMAY-U since June 2015 for providing all-weather pucca houses with all basic amenities for all eligible families/ beneficiaries in urban areas of the country. A total of 122.69 lakh houses have been sanctioned under the Scheme; out of which nearly 105 lakh have been grounded for construction and more than 63 lakh have been completed and delivered to the beneficiaries. The Scheme has been extended up to 31st December 2024 to complete all houses sanctioned till 31st March 2022. Within the ambit of the overarching PMAY-U, a Technology Sub-Mission (TSM) has been set up, to facilitate the adoption of innovative, sustainable, eco-friendly and disaster-resilient technologies and building materials for cost effective, speedier and quality construction of houses.

For promoting new and innovative construction technologies and systems, Global Housing Technology Challenge- India (GHTC-India) was initiated in January 2019 with an aim to identify and mainstream globally best available proven construction technologies that are sustainable, green and disaster resilient through a challenge format to bring technology transition in construction sector. Under GHTC-India, a 'Construction Technology India (CTI) – 2019: Expo-cum-Conference' was inaugurated by Hon'ble Prime Minister on 2nd March 2019 at Vigyan Bhawan, New Delhi.

Six distinct technologies were selected amongst 54 shortlisted globally best technologies that participated in GHTC-India for constructing six Light House Projects (LHPs) at Indore, Rajkot, Chennai, Ranchi, Agartala and Lucknow. The foundation stone of all 6 LHPs was laid by the Hon'ble Prime Minister on 01.01.2021. Out of the 6 LHPs, LHP Chennai was inaugurated by Hon'ble Prime Minister on 26th May 2022. LHP Rajkot is ready for inauguration. The other four LHPs are at advance stages of construction.

In addition, an 'Indian Housing Technology Mela' (IHTM) was organised on 5th October, 2021 in Lucknow, Uttar Pradesh to promote indigenous alternate/sustainable building materials and innovative construction systems/ technologies for low & midrise structures for affordable housing in the country. IHTM was inaugurated by Hon'ble Prime Minister. Under IHTM, 84 indigenous innovative technologies, materials and processes were shortlisted.

'Indian Urban Housing Conclave' will help in widening the horizon and bringing technology transition in the construction sector for sustainable development. It will also bring together all global and indigenous innovative technologies, materials and process shortlisted under GHTC-India as well as under IHTM including those developed subsequently by various stakeholders across the world and showcase them on a common platform.

LINK: https://www.outlookindia.com/national/pm-modi-to-inaugurate-indianurban-housing-conclave-in-rajkot-on-wednesday-news-230639

PM Modi To Inaugurate 'Indian Urban Housing Conclave' In Rajkot On Wednesday

The ministry said the event would provide a platform to all stakeholders to demonstrate their technologies as well as deliberate upon various options of technologies, materials and processes for large-scale adoption.



Prime Minister Narendra Modi will on Wednesday inaugurate a three-day 'Indian Urban Housing Conclave' being organised by the Union Housing and Urban Affairs Ministry in Gujarat's Rajkot, an official statement said.

The ministry said the event would provide a platform to all stakeholders to demonstrate their technologies as well as deliberate upon various options of technologies, materials and processes for large-scale adoption.

It said the event would create an enabling eco-system for further adoption by public and private agencies, research and development and technical institutions, construction agencies, developers, contractors, start-ups and other stakeholders. More than 200 technology providers are expected to showcase their products. "The conclave also aims to showcase best practices adopted by states/UTs in the successful implementation of PMAY-U along with the achievements of other urban missions of MoHUA and their roadmap/action plan for driving the economic growth and improving the quality of life of people across the country," the statement stated.

During the event, dialogues, thematic sessions, and roundtable discussions will be conducted with stakeholders from across the country to discuss, share and learn the progress in transforming urban landscape and to take resolve for future urban development in improving 'Ease of Living'. LINK: https://orissadiary.com/pm-narendra-modi-to-inaugurate-india-urbanhousing-conclave-2022-in-rajkot/

PM Narendra Modi To Inaugurate India Urban Housing Conclave 2022 In Rajkot

New Delhi : Prime Minister Narendra Modi will inaugurate 'Indian Urban Housing Conclave-2022' (IUHC2022) a three-day event being organised by Ministry of Housing and Urban Affairs (MoHUA), Government of India from 19-21 October 2022 at Rajkot, Gujarat. Hon'ble Union Minister of Housing and Urban Affairs; and Petroleum and Natural Gas, Shri Hardeep S Puri, Hon'ble Minister of State for Housing and Urban Affairs, Shri Kaushal Kishore and other dignitaries from Centre and States will also grace the occasion. Apart from PMAY-U, other Urban Missions viz. Swachh Bharat Mission, Atal Mission for Rejuvenation and Urban Transformation (AMRUT), Smart Cities Mission, Urban Transport, Deendayal Antyodaya Yojana National Urban Livelihoods Mission (NULM), SVANidhi etc. being implemented by MoHUA will participate in the event.

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LINK: https://www.bizzbuzz.news/markets/pm-to-open-indian-urban-housing-conclave-2022-in-gujarat-1174334

PM to open 'Indian Urban Housing Conclave-2022' in Gujarat

Prime Minister Narendra Modi will inaugurate the "Indian Urban Housing Conclave-2022" in Rajkot on October 19 during his Gujarat visit.

New Delhi, Oct 17 Prime Minister Narendra Modi will inaugurate the "Indian Urban Housing Conclave-2022" in Rajkot on October 19 during his Gujarat visit. The threeday conclave aims to showcase best practices adopted by states and UTs in the successful implementation of PMAY-U along with the achievements of other urban missions and their roadmap and action plan for driving economic growth and improving the quality of life of people across the country.

The Ministry of Housing and Urban Affairs is organising the event to provide a platform to all stakeholders to demonstrate their technologies as well as deliberate upon various options of technologies, materials and processes for large scale adoption and mainstreaming in different types of housing construction suitable for different Geo-climatic regions of the country. The event will witness inauguration of the LightHouse Project (LHP) at Rajkot, Gujarat, national exhibition on innovative construction practices, exhibition on best practices adopted by States/UTs under PMAY-U including Gujarat and deliberations on affordable housing.

Officials said that the event will create an enabling eco-system for further adoption by public and private agencies, research and development and technical institutions, construction agencies, developers, contractors, start-ups and other stakeholders.

As per the Ministry, more than 200 technology providers are expected to showcase their products. During the event, various dialogues, thematic sessions, and roundtable discussions will be conducted with stakeholders from across the country to discuss, share and learn the progress in transforming urban landscape to take resolve for future urban development in improving 'Ease of Living'. Various stakeholders including states, technical students, technologists, engineers, architects, developers, entrepreneurs, civil society organisations, start-ups, foreign collaborators, local artisans, will participate in the event.

LINK:https://indianexpress.com/article/cities/ahmedabad/pm-modi-rajkot-projects-launch-8214529/

PM Modi to launch projects worth Rs 7710 cr in Rajkot on Wednesday

The PM will also announce projects worth Rs 649 crore in the health, cooperative, transport and technology sectors.



Prime Minister Narendra Modi will launch state and Central government projects worth Rs 7,710 crore during his visit to Rajkot Wednesday. These include projects worth Rs 4,309 crore in Rajkot, Rs 2,738 crore in the adjoining Morbi district, and Rs 633 crore in Jamnagar and other districts of the Saurashtra region.

The PM is scheduled to lay foundation stones of the Rs 500-crore proposed milk processing plant of Amul in Rajkot, a medical college in Morbi and for the widening of the Rajkot-Jetpur section of the National Highway 27 from the existing four-lanes to six lanes during his visit to Rajkot. He will also inaugurate three flyover bridges in Rajkot city, 1,144 residences under the affordable housing scheme constructed by the Rajkot Municipal Corporation (RMC) at Rs 118 crore under the Light House Project initiative of the Central government, and a regional science centre constructed by the state government at Rs 85 crore near Madhapar village.



An official release stated that Modi will dedicate to the public flyover bridges constructed by RMC at the Civil Hospital Chowk, Ramapir Chowkadi and Nana Mava Circle in the city. He will also inaugurate two roads connecting the under-construction campus of the All India Institute of Medical Sciences (AIIMS) with Jamnagar and Morbi Bypass roads.

The release added that the PM will also lay the foundation stones of GIDC estates in Nagalpar, Khirasar-II and Pipardi and some village roads. In all, the PM will lay the foundation stones of projects worth Rs 5,762 crore in Rajkot, Morbi and other districts of Saurashtra.

In Morbi, he will lay foundation stones of a medical college, a ceramic park in Jambudiya village, Morbi-Halvad state highway widening into four lanes, Morbi-Jetpar highway widening into four lanes, a new district court building in Morbi, a new court building in Tankara town and a railway overbridge on the Wankaner-Navlakhi railway line.

The PM will also announce projects worth Rs 649 crore in the health, cooperative, transport and technology sectors, including a technology hub in Gondal, redevelopment of Rajkot and Jamnagar railway stations and Makansar Gati Shakti terminal.

Modi will also inaugurate the Urban Housing Conclave organised by the Union Ministry of Housing and Urban Affairs (MoHUA). The three-day conclave will be held at Shashtri Maidan from October 19 to October 21 and will see participation from construction technology providers, urban development ministers and secretaries and other stakeholders. LINK: https://arunachaltimes.in/index.php/2022/10/21/arunachal-bags-3-awards-at-indian-urban-housing-conclave/

Arunachal bags 3 awards at Indian Urban Housing Conclave



RAJKOT, 20 Oct: Arunachal Pradesh bagged three awards in the 'Pradhan Mantri Awas Yojana (Urban) Awards: 150 Days Challenge', including the 'best award for conducting IEC activities under PMAY (urban)', and 'exemplary performance in implementation of PMAY (urban)'.

Tawang district was adjudged second in the category of 'best performing nagar panchayat among Northeastern/hilly states'.

The awards were presented during a three-day Indian Urban Housing Conclave organised by the union housing & urban affairs ministry here in Gujarat.

The conclave was inaugurated by Prime Minister Narendra Modi on 19 October, and was attended by, among others, MoS for Housing & Urban Affairs Hardeep Singh Puri and his deputy Kaushal Kishore, along with Housing & Urban Affairs Secretary Manoj Joshi.

Arunachal was represented by Tawang DC KN Damo, ULB JD Nixon Lego, Bomdila UDH EE DK Thungon and Municipal Civil Engineer (SLTC) Gomo Kamdak.

LINK: http://risingkashmir.com/india-urban-housing-conclave-2022-jk-winstop-awards-in-implementation-of-pmay-urban

India Urban Housing Conclave 2022: J&K wins top awards in implementation of PMAY-Urban



Srinagar, Oct 22: Jammu and Kashmir (J&K) won top awards in implementation of Pradhan Mantri Awas Yojana-Urban (PMAY-Urban) during three day "India Urban Housing Conclave 2022" (IUHC 2022) organized by the Union Ministry of Housing and Urban Affairs in Rajkot, Gujarat.

The conclave was inaugurated by Prime Minister, Narendra Modi on 19th of October, 2022.

J&K has won two awards including 'Overall best performing Union Territory and best performing UT for implementation of Affordable Rental Housing Complexes (ARHCs)'.

Principal Secretary, H&UDD, Dheeraj Gupta received the award on behalf of the UT Government.

The J&K team, which was led by Dheeraj Gupta, was composed of S A Keen, Managing Director, J&K Housing Board and other officials of PMAY (Urban) Mission. The conclave included exhibition of departmental stalls highlighting the achievements and best practices adopted across the states and UTs in implementation of the Mission.

PMAY-U is a flagship Mission of Government of India being implemented by the Union Ministry of Housing and Urban Affairs (MoHUA) which addresses urban housing shortage among the EWS/LIG and MIG categories including the slum dwellers by ensuring a pacca house to all eligible urban households by the year 2022, when Nation completes 75 years of Independence.

J&K has achieved 100 percent saturation in implementation of PMAY Mission. About 44,701 beneficiaries have been identified and approved under BLC component, out of which, 44630 dwelling units have been grounded and will be completed within the prescribed time schedule.

The UT government has for the first time introduced a new initiative wherein interest free loan/subsidy is being provided for an amount of Rs. 2.00 lakh per beneficiary for construction of dwelling unit under BLC component. Besides, 336 houses are being reconstructed under Affordable Rental Housing Complexes (ARHCs) at Sunjwan, Jammu while 968 flats at are being constructed at Bhalwal and lower Roopnagar Jammu under Affordable Housing in Partnership (AHP) component.

Also, a Demonstration Housing Project (DHP) under Technology Sub-Mission (TSM) of the Mission has been taken up at Bhalwal, Jammu. The technology to be used for DHP is EPS Core Panels. After completion, J&K Housing Board will not only gainfully utilize the structure but will also showcase it as latest proven alternate/green technology solution suitable to the geo-climatic & hazardous conditions of Jammu region.

The Government of Jammu & Kashmir is committed towards ensuring that there is no urban houseless in the Union Territory by March 2023.

LINK: https://www.zeebiz.com/hindi/india/pm-narendra-modi-will-inaugurate-light-house-project-today-in-rajkot-here-know-cost-and-everything-100640

पीएम मोदी की बड़ी सौगात! 3.50 लाख में देंगे फुली फर्निश्ड घर, जानिए लाइट हाउस प्रोजेक्ट से जुड़ी खास बातें



Light House project: प्रधानमंत्री मोदी आज गरीब वर्ग के लोगों को सौगात देने जा रहे हैं. पीएम मोदी आज गुजरात के राजकोट में इंडिया अर्बन हाउसिंग कॉन्क्लेव 2022 का उद्घाटन करेंगे. इसमें वो लाइट हाउस प्रोजेक्ट (एलएचपी) राजकोट का उद्घाटन करेंगे. इस कॉन्क्लेव में आवासन एवं शहरी कार्य मंत्रालय की तरफ से कार्यान्वित प्रधानमंत्री आवास योजना – शहरी के अलावा, स्वच्छ भारत मिशन, कायाकल्प और शहरी परिवर्तन के लिए अटल मिशन (अमृत), स्मार्ट सिटी मिशन, शहरी परिवहन, दीनदयाल अंत्योदय योजना, राष्ट्रीय शहरी आजीविका मिशन, स्वनिधि आदि जैसे अन्य शहरी मिशन इस आयोजन में भाग लेंगे. आइए जानते हैं क्या है लाइट हाउस प्रोजेक्ट.

लाइट हाउस प्रोजेक्ट में मिला लोगों को अपना आशियाना

इस परियोजना में, 'टनल फॉर्मवर्क का उपयोग कर मोनोलिथिक कंक्रीट निर्माण', फ्रांस की तकनीक का उपयोग कर 1,144 घरों के निर्माण किया गया है. साथ ही तकनीक से निर्माण, स्थायित्व, कम रखरखाव सुनिश्चित किया जा सकता है, जहां सुलभ और आपदा की स्थिति के अनुकूल है. बता दें लाइट हाउस प्रोजेक्ट, जिसमें करीब 1144 फ्लेट हैं और 1144 लाभार्थियों को इसकी चाभी भी दी जा चुकी है.

क्या है लाइट हाउस प्रोजेक्ट?

हाउसिंग फ़ॉर आल प्रोजेक्ट में लाइट हाउस प्रोजेक्ट को आर्थिक तौर पर कमज़ोर लोगों के लिए बनाया गया है. इसमें जिन लोगों को घर मिलेगा, उनकी सालाना आय 3 लाख से अधिक न हो. साथ ही उन लोगों के लिए 100% लोन की सुविधा उपलब्ध है. बता दें एक फ्लैट की लागत 10.50 रुपए है. 5.50 लाख केंद्र का सहयोग इसमें मिला है. साथ ही 1.50 लाख राज्य का खर्च राज्य उठाएगा. इसमें 3.50 लाख कीमत लाभार्थी के लिए होगी. वहीं सुविधा के तौर पर यहां कम्युनिटी सेंटर, आंगनबाड़ी, हेल्थ सेंटर, शॉपिंग कॉम्प्लेक्स, गार्डन, सेंट्रल पार्क, हर्बल पार्क मिलेंगे.

प्रोजेक्ट जानकारी

बता दें, एक फ्लैट का एरिया 40sqmt होगा, जिसमें 2 कमरे हैं लिविंग रूम के साथ 2 टॉयलेट्स हैं. वहीं 10 एकड़ में बने इस पूरे प्रोजेक्ट में 11 टावर हैं. इसमें G+13 फ्लोर हैं. लाइट हाउस प्रोजेक्ट Monolithic Concrete Tunnel तकनीक से बना है.

लाइट हाउस प्रोजेक्ट से जुड़ी कुछ खास बातें

लाइट हाउस प्रोजेक्ट कुल 6 शहरों- लखनऊ, रांची, त्रिपुरा, अगरतला, चेन्नई, राजकोट में में चल रहा है. बता दें लाइट हाउस प्रोजेक्ट चेन्नई और राजकोट में बनकर तैयार है. पहला प्रोजेक्ट चेन्नई में 2022 में बनकर तैयार हुआ. इसे एलएचपी यानी लाइट हाउस प्रोजेक्ट कहते हैं, जिसमें 1152 से ज़्यादा फ्लैट दिए गए. इसके अलावा राजकोट में अब 1144 परिवारों को फ्लैट दिए जा रहे हैं, जहां राजकोट के फ्लैट 20 महीने में बनकर तैयार हो गए हैं. राजकोट में LHP में कुल 11 ब्लॉक्स तैयार किए गए हैं.



8.00

SOCIAL MEDIA



Great to be in the vibrant city of Rajkot! Addressing a programme at launch of various projects.





રાજકોટ માટે આજનો દિવસ દિપોત્સવ પહેલા વિકાસનો મહોત્સવ બની રહ્યો. માનનીય પ્રધાનમંત્રી શ્રી નરેન્દ્રભાઈ મોદીએ રાજકોટ ખાતે રિજ્યોનલ સાયન્સ સેન્ટર, બલ્ક પાઈપલાઈન પ્રોજેકટ, GIDC વસાહતો, ફ્લાયઓવર બ્રીજ, હાઈવે પ્રોજેકટ સહિતના વિવિધ પ્રકલ્પોની સોગાત આપી હતી. #વિકસિત_સૌરાષ્ટ્ર



223 Retweets 1 Quote Tweet 415 Likes

1.11



છેલ્લા બે દાયકામાં સૌરાષ્ટ્રમાં કાયદો અને વ્યવસ્થા સુદ્રઢ બનવાને લીધે સર્વાંગીણ વિકાસ સંભવ બન્યો છે, જે નવી પેઢીના ઉજ્જવળ ભવિષ્યની ગેરંટી સમાન છે. #વિકસિત_સૌરાષ્ટ્ર Trenslate Tweet

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10:22 PM · Oct 19, 2022 · Twitter Web App

229 Retweets 374 Likes



માનનીય પ્રધાનમંત્રી શ્રી નરેન્દ્રભાઈ મોદીએ આજે રાજકોટ ખાતે વિવિધ વિકાસકાર્યોની ભેટ આપી તે અવસરે તેમણે ગરીબોના સશક્તિકરણથી લઈને ઔદ્યોગિક વિકાસ સુધી સૌરાષ્ટ્રએ સાધેલી પ્રગતિને બિરદાવી હતી. #વિકસિત_સૌરાષ્ટ્ર





માન. પ્રધાનમંત્રીશ્રીએ રાજકોટમાં 'લાઈટહાઉસ પ્રોજેકટ' હેઠળ ઈનોવેટીવ ટેકનિકથી ખૂબ ટૂંકા સમયમાં નિર્મિત ૧૧૪૪ આવાસોનું લોકાર્પણ કરીને પ્રોજેક્ટના લાભાર્થીઓને ધરની યાવી અર્પણ કરી હતી, તેમજ ત્રિ-દિવસીય ઈન્ડિયન અર્બન હાઉસિંગ કોન્ક્લેવનો શુભારંભ કરાવ્યો હતો. #વિકસિત_સૌરાષ્ટ્ર Translate Tweet



122 Retweets 2 Quote Tweets 187 Likes



"New technology coupled with good governance & commitment leads to development"

PM Sh @NarendraModi Ji inaugurated Light House Project Rajkot, one of the 6 LHPS being constructed in 6 States using globally proven innovative technologies & handed it over to the beneficiaries.





Deeply privileged to address the massive gathering of our sisters & brothers of Rajkot who had come to welcome India's popular Prime Minister & Gujarat's favourite leader Sh @narendramodi Ji at the launch of various development projects.

@PMOIndia @Bhupendrapbjp @mp_kaushal



9:08 PM - Oct 19, 2022 - Twitter Media Studio

25 Retweets 1 Quote Tweet 2,309 Likes



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PM Sh @narendramodi Ji hands over PMAY(U) Awards 2021 which have been instituted to recognize outstanding contribution by States, UTs & ULBs for excellence in implementation of @PMAYUrban

The winners: Gujarat, Uttar Pradesh, Tripura, Madhya Pradesh & Tamil Nadu!

@MoHUA_India



9:57 PM · Oct 19, 2022 · Twitter Media Studio

39 Retweets 108 Likes

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इंडियन अर्बन हाउसिंग कॉन्क्लेव 2022 के समापन के अवसर पर बतौर मुख्य अतिथि रहना हुआ।



18 Retweets 96 Likes



Hon'ble PM Shri @narendramodi dedicated the #LightHouseProjects to the proud beneficiaries at #Rajkot, #Gujarat, constructed under the aegis of PMAY(U). A total of 1,144 houses have been developed with Monolithic Concrete Construction using Tunnel Formwork technology from France.



11:22 AM - Oct 20, 2022 - Twitter Web App

18 Retweets 73 Likes



#Gujarat, Uttar Pradesh, Tripura, Madhya Pradesh & Tamil Nadu bagged the @PMAYUrban Awards 2021 by the Hon'ble Minister, MoHUA @HardeepSPuri. The States have shown outstanding contributions under the scheme through effective and efficient implementation.





Ministry of Housing and Urban Affairs @MoHUA_India

Hon'ble PM Shri @narendramodi will dedicate #LightHouseProject Rajkot, Gujarat to beneficiaries today. Register yourself and watch live the mega event, #IndianUrbanHousingConclave2022 on below link: swarnimtouch.com/IUHC-2022/ #HousingForAll #PMAYUrban #UrbanHousingConclave

4:37 PM - Oct 19, 2022 - Twitter for Android

1 Retweet 4 Likes

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Ministry of Housing and Urban Affairs 🧿 @MoHUA_India

Watch Live: PM @narendramodi in Rajkot, Gujarat to inaugurate 'Indian Urban Housing Conclave-2022', IUHC2022, a three-day event being organised by @MoHUA_India at Rajkot, Gujarat. youtu.be/lt9h5CH9JNY

ine.

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@PMAYUrban



7:07 PM - Oct 19, 2022 - Twitter for Android

9 Retweets 1 Quote Tweet 13 Likes



🔊 LIVE Now 🔊

PM @narendramodi lays foundation stone, inaugurates various projects at Rajkot, Gujarat

Watch on #PIB's Facebook: facebook.com/pibindia YouTube: youtu.be/G3c15YkDiJQ



23 Retweets 3 Quote Tweets 55 Likes





Today is the day!

The **#IndianUrbanHousingConclave** will be inaugurated followed by distribution of 'PMAY-U Awards 2021'.

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#HousingForAll #PMAYUrban #TransformingUrbanLandscape #AffordableHousing #IUHC #ConstructionTechnology #HousingConclave





Hon'ble Prime Minister Shri Narendra Modi will dedicate #LightHouseProject Rajkot, Gujarat to beneficiaries today.

At LHP Rajkot 1,144 houses have been constructed with 'Monolithic Concrete Construction using Tunnel Formwork' technology from France.

#IndianUrbanHousingConclave



2:58 PM · Oct 19, 2022 · Twitter for Android

41 Retweets 2 Quote Tweets 154 Likes





Hon'ble Prime Minister Shri Narendra Modi inaugurates the **#IndianUrbanHousingConclave**. He also dedicated the 1,144 houses at **#LightHouseProject** Rajkot to the beneficiaries.



15 Retweets 45 Likes



Hon'ble Prime Minister Shri Narendra Modi distributes the keys to beneficiaries of #LightHouseProject Rajkot. The #LHPRajkot will be an iconic manifestation of innovative construction technology and dignified living.



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Hon'ble Union Minister for Housing and Urban Affairs, Shri @HardeepSPuri felicitates the winners of 'PMAY-U Awards 2021' at the #IndianUrbanHousingConclave at Rajkot, Gujarat,



8:55 PM - Oct 19, 2022 - Twitter for Android

20 Retweets 70 Likes



Indian Urban Housing Conclave 2022 Plenary Session - 1 Policy Dialogues for beyond PMAY(U)



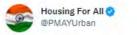


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Thematic Session - 4 Role of Private Sector in Housing Ecosystem





A session on 'Policy Dialogue for Beyond PMAY-U' was held as part of *#IndianUrbanHousingConclave* 2022 which was chaired by Shri @amritabhijat, Principal Secretary, Urban Development, Govt. Of Uttar Pradesh.

#UrbanHousingConclave #HousingConclave



11:51 AM · Oct 20, 2022 · Twitter for Android

2 Retweets 10 Likes



The Session was Moderated by Shri Kuldip Narayan, JS&MD (Housing for All), MoHUA and was the finale of the series of 20 Policy Dialogues.

#HousingForAll #PMAYUrban #AffordableHousing #TransformingUrbanLandscape #TransformingLives



11:51 AM - Oct 20, 2022 - Twitter for Android



Thematic Session - 1 Climate Smart Buildings



12:18 PM - Oct 20, 2022 - Twitter Media Studio



Brainstorming Session - 1 Multipronged Approaches to Slum (Re)development

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3 Retweets 12 Likes





The session which is being chaired by Shri Hitesh Vaidya and moderated by Shri Vikas Ranjan, focuses on #thermalcomfort and energy efficiency in #affordablehousing.

#HousingForAll #PMAYUrban #TransformingUrbanLandscape #TransformingLives



1:07 PM · Oct 20, 2022 · Twitter for Android

4 Retweets 13 Likes



The Brainstorming Session 1 on the topic 'Multipronged Approaches to Slum Redevelopment' is underway as a part of the parallel sessions in #IndianUrbanHousingConclave.

#UrbanHousingConclave #HousingConclave #IUHC



3 Retweets 23 Likes

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The session is being chaired by Shri Kuldip Narayan, JS&MD, HFA, MoHUA and moderated by Ms Mansi Sachdeva, Senior Urban Planner, UN-Habitat.

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1:26 PM - Oct 20, 2022 - Twitter for Android

3 Retweets 12 Likes



The Thematic Session 4 on the topic 'Role of Private Sector in Housing Ecosystem' was conducted as a part of parallel sessions in #IndianUrbanHousingConclave.

#UrbanHousingConclave #HousingConclave #IUHC





The session is being chaired and moderated by Shri Dinesh Kapila, Economic Advisor, MoHUA and aims to highlight the role and opportunities played by private sector in delivery of housing.



1:45 PM - Oct 20, 2022 - Twitter for Android

2 Retweets 6 Likes



Thematic Session 2 - Public-Private-People Partnerships (4Ps) for Inclusive & Sustainable Housing



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Thematic Session 5 - Use of Innovative Technologies by public and private Agencies





The deliberations on 'Public-Private-People Partnership (4Ps) for Inclusive & Sustainable Housing' are underway during the Thematic Session 2 at the #IndianUrbanHousingConclave.

#UrbanHousingConclave #HousingConclave #IUHC





The session explores how cities can work with different players to incentivize provision of well- located <u>#affordablehousing</u> units and ensure an equitable future to the community.

#HousingForAll #PMAYUrban #TransformingUrbanLandscape #TransformingLives



3:01 PM - Oct 20, 2022 - Twitter for Android

3 Retweets 7 Likes



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Thematic Session 3: Policy, Institutional and Financial Frameworks for Scaling of Slum Redevelopment

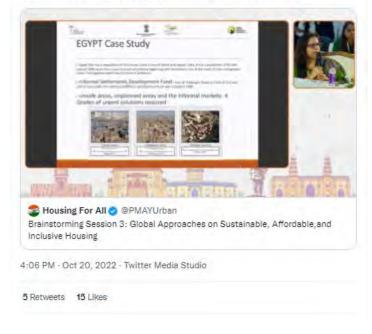


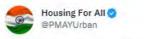
3 Retweets 8 Likes

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Brainstorming Session 3: Global Approaches on Sustainable, Affordable, and Inclusive Housing





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Thematic Session - 6 Mainstreaming of Innovative Construction Technologies – Way Forward



7 Retweets 12 Likes



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The Brainstorming Session 2 on the topic 'Formalizing Informal Settlements & Slums- Role of Planning, Policies & Financing' was conducted during the day -2 of the #IndianUrbanHousingConclave.

#UrbanHousingConclave #HousingConclave #IUHC



5 Retweets 16 Likes



The session was chaired by Shri Rakesh Shanker, Secretary, Housing, Govt. of Gujarat. The session was interactive wherein the speakers shared their responses to a set of questions aimed at gaining an indepth perspective on the theme.

#HousingForAll #PMAYUrban #AffordableHousing



5:08 PM · Oct 20, 2022 · Twitter for Android

2 Retweets 12 Likes



The Thematic Session 5 concluded with an in-depth deliberation on use of Innovative construction technologies by public and private agencies.

#UrbanHousingConclave #HousingConclave #IUHC #ConstructionTechnology





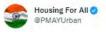
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The discussions focused on the pros and cons of such technologies and the bottlenecks faced by the public and private agencies in their implementation.

#HousingForAll #PMAYUrban #TransformingUrbanLandscape #AffordableHousing #TransformingLives



2 Retweets 11 Likes



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Shri Durga Shanker Mishra, Chief Secretary, Govt. of Uttar Pradesh, chairs the thematic session of day-2 at the #IndianUrbanHousingConclave.

The session had a rich panel of domain experts, academicians and technocrats.

#UrbanHousingConclave #HousingConclave #IUHC



3 Retweets 29 Likes



You are invited to be a part of the Plenary Session 2 and the valedictory session which shall be conducted on the day-3 of the *#IndianUrbanHousingConclave*. The session will be chaired by Shri Kaushal Kishore, Minister of State, Housing and Urban Affairs.



6 Retweets 36 Likes





Valedictory and Closing Session chaired by Hon'ble Minister of State (HUA)

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We at @MoHUA_India also acknowledge the immense support Rajkot Municipal Corporation in event.

Here's a glimpse of the conclave and how it shaped up.

youtu.be/Ga1jkqbQVGA

#HousingForAll #PMAYUrban #UrbanHousingConclave #TransformingUrbanLandscape



youtube.com Shaping up the Indian Urban Housing Conclave 2022 A glimpse into how the Indian Urban Housing Conclave 2022 shaped up....

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5:27 PM - Oct 21, 2022 - Twitter for Android

2 Retweets 1 Quote Tweet 7 Likes



Academicians, Builders, Technology Providers, Technocrats, Manufacturers, Students, Organizers, State & Central Government Officials and various other stakeholders. A big thank you to all for making the #IndianUrbanHousingConclave 2022 a grand success.

#HousingConclave #IUHC

5:27 PM - Oct 21, 2022 - Twitter for Android

4 Retweets 1 Quote Tweet 20 Likes



While inaugurating **#IndianUrbanHousingConclave** 2022, Hon'ble Prime Minister Shri Narendra Modi released 4 Publications of **@MoHUA_India** namely (1) Housing for All: Transforming Lives in Urban India (2) Compendium of LHP Chennai (3) Compendium of LHP Rajkot



12:20 PM - Oct 23, 2022 - Twitter for Android

11 Retweets 47 Likes

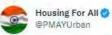


and (4) Handbook on Innovative Construction Technologies and Thermal Comfort in Affordable Housing, at Rajkot, Gujarat.

These Publications will be source of knowledge for all Stakeholders of urban development and housing sector.

12:20 PM - Oct 23, 2022 - Twitter for Android

2 Retweets 12 Likes



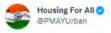
#HousingForAll #PMAYUrban #TransformingUrbanLandscape #TransformingLives #AffordableHousing #ConstructionTechnologies #HousingConclave #UrbanHousingConclave #IUHC

12:20 PM - Oct 23, 2022 - Twitter for Android

1 Retweet 9 Likes

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Hon'ble Prime Minister visits the exhibition during the #IndianUrbanHousingConclave 2022.

A glimpse of Urban Missions, Gujarat Pavallion and display of Innovative Construction Technologies & Practices were a part of the exhibition held on 19-21 October 2022.



3 Retweets 1 Quote Tweet 17 Likes



Congratulations to the State of Uttar Pradesh for securing 1st position under 'Best Performing State' category of PMAY-U Awards 2021. The contribution of the State towards achieving the goal of 'Housing for All' is commendable.





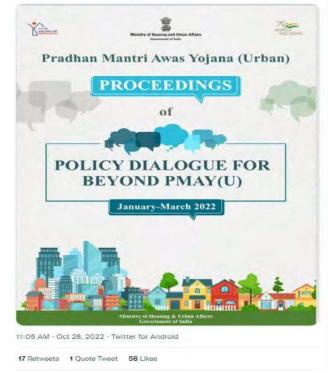
Congratulations to the State of Madhya Pradesh for securing 2nd position under 'Best Performing State' category of PMAY-U Awards 2021.

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Shri Hardeep S Puri, Hon'ble Minister, Housing and Urban Affairs, released the book 'Proceedings of Policy Dialogues for Beyond PMAY-U' during the #IndianUrbanHousingConclave at Rajkot, Gujarat.





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Congratulations to the State of Tamil Nadu for securing 3rd Position under 'Best Performing State' category of PMAY(U) Awards 2021.

#HousingForAll #PMAYUrban

#IndianUrbanHousingConclave #TransformingLives #TransformingUrbanLandscape #PMAYUrbanAwards #PMAYUrbanAwards2021

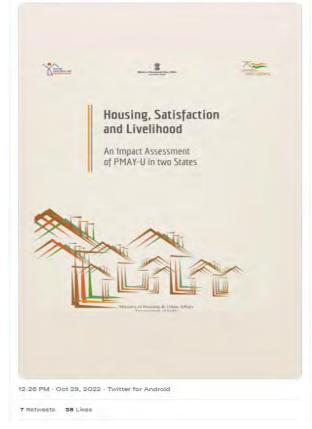


1:10 PM · Oct 28, 2022 · Twitter for Android

8 Retweets 28 Likes



Shri Hardeep S Puri, Hon'ble Minister of Housing and Urban Affairs, released the book 'Housing, Satisfaction, and Livelihood' during the #IndianUrbanHousingConclave 2022 at Rajkot, Gujarat.





Congratulations to the State of Gujarat for securing the title of 'Best Performing State in the implementation of Credit Linked Subsidy Scheme (CLSS)' under PMAY(U) Awards 2021.



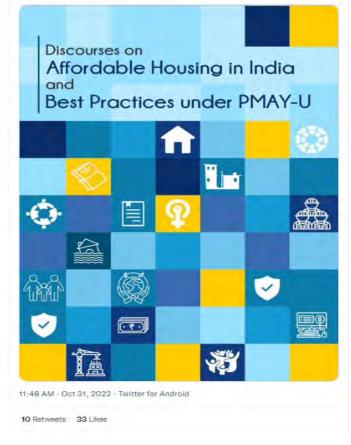


Congratulations & best wishes to the State of Tripura for securing the title of 'Best Performing State' under NE & Hilly States Category of PMAY(U) Awards 2021.





Shri Kaushal Kishore, Hon'ble Minister of State for Housing and Urban Affairs, released the book 'Discourses of Affordable Housing in India & Best Practices under PMAY-U' at the Valedictory Session of the #IndianUrbanHousingConclave 2022 at Rajkot, Gujarat.





This book is a compilation of best practices, case studies and policy initiatives by various States/UTs in the field of urban housing, affordable housing and PMAY-U.



6 Retweets 11 Likes



Hon'ble Prime Minister distributed the keys to beneficiaries of **#LightHouseProject** at Rajkot, Gujarat on 19th October 2022. Here's a glimpse of the key handover ceremony.

#GHTCIndia #AffordableHousing #ConstructionTechnology #TransformingUrbanLandscape



8:14 PM · Nov 1, 2022 · Twitter for Android

9 Retweets 42 Likes



#LHPRajkot comprises of 1,144 houses built with 'Monolithic Concrete Construction System using Tunnel Formwork' technology. The project has all civic amenities & infrastructure facilities for the beneficiaries.

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#HousingForAll #PMAYUrban #LHPs #TransformingLives

8:14 PM - Nov 1, 2022 - Twitter for Android

3 Retweets 8 Likes



Congratulations to Gujarat, Chandigarh and Jammu & Kashmir for being honoured as the 'Best Performing State/UTs' in implementation of ARHC Model 1 under PMAY(U) Awards 2021.



8:10 PM · Nov 2, 2022 · Twitter for Android

9 Retweets 27 Likes



Here's a glimpse of **#PMAYUrban** enclosure which was the centre of attraction at the Exhibition on Urban Mission's of MoHUA during the **#IndianUrbanHousingConclave** 2022 at Rajkot,Gujarat.



11:51 AM - Nov 5, 2022 - Twitter for Android

16 Retweets 48 Likes

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The PMAY-U enclosure featured live demonstrations of Geo-tagging through BHUVAN Portal along with access to PMAY-U Dashboard.

#HousingForAll #UrbanConclave #HousingConclave #AffordableHousing #TransformingUrbanLandscape #TransformingLives

11:51 AM · Nov 5, 2022 · Twitter for Android

2 Retweets 6 Likes



Pradhan Mantri Awas Yojana(Urban) - Madhya Pradesh @PMAY_MP

Shri Manish Singh(PS, UD&H), Shri Satendra Singh(MD, #HFA), and Shri Bharat Yadav (Commissioner, UADD) visited the Stall of #MadhyaPradesh, #SmartCityMission, #DHPBhopal & #LHPIndore along with other officials of State & ULBs at #IndianUrbanHousingConclave in Rajkot, Gujarat.



La Bhuppendra Siingh and 9 others

6:47 PM - Oct 22, 2022 - Twitter Web App

13 Retweets 47 Likes



Congratulations to officials of the State, Divisions, ULBs, and PMC! #MadhyaPradesh was awarded as "Best performing #SLTC under #PMAYU#" by the Hon'ble Minister for Housing and Urban Affairs of India, Shri @HardeepSPuri.

#PMAYUAwards2021 #PMAYUrbanMP #SabkoAwasMP #IUHC2022



32 Retweets 3 Quote Tweets 90 Likes



Pradhan Mantri Awas Yojana(Urban) - Madhya Pradesh

 आवासन एवं शहरी कार्य मंत्रालय, भारत सरकार द्वारा मध्यप्रदेश को #PMAYUAwards2021 के अंतर्गत सर्वोत्तम प्रदर्शन करने वाले राज्य श्रेणी में द्वितीय स्थान तथा विभिन्न 8 श्रेणियों में कुल 13 सर्वाधिक पुरस्कारों से पुरस्कृत किया गया है। #SabkoAwasMP #HFA @JansamparkMP @bharatyadavias Translate Tweet



21 Retweets 82 Likes

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Receiving an overwhelming response from students, learners, contractors, and stakeholders at booth no 9 of Madhya Pradesh in #IUHC2022 at Rajkot.

#PMAYUAwards2012 #PMAYUrbanMP #HousingForAll #SabkoAwasMP #TransformingUrbanLandscape #MadhyaPradesh #BestPerformingState #IUHC2022



La Bhuppendra Siingh and 9 others

12:31 PM · Oct 21, 2022 · Twitter for Android

28 Retweets 1 Quote Tweet 95 Likes



Pradhan Mantri Awas Yojana(Urban) - Madhya Pradesh @PMAY_MP

Congratulations to officials of the State, Divisions, ULBs, and PMC! #MadhyaPradesh was awarded as "Best performing

#SLTC under #PMAYU#" by the Hon'ble Minister for Housing and Urban Affairs of India, Shri @HardeepSPuri. #PMAYUAwards2021 #PMAYUrbanMP

#PMAYOAwards2021 #PMAYOrbanMP #SabkoAwasMP #IUHC2022



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Congratulations! Madhya Pradesh was awarded as "Best State for conducting IEC activities under PMAY-U" by the Hon'ble Minister for Housing and Urban Affairs of India, Shri @HardeepSPuri.

#PMAYUAwards #PMAYUMP #SabkoAwasMP #IUHC2022

@JansamparkMP @bharatyadavias @mpurbandeptt





Pradhan Mantri Awas Yojana(Urban) - Madhya Pradesh @PMAY_MP

Madhya Pradesh was awarded as the Best State for convergence with other Missions by Hon'ble Minister for Housing and Urban Affairs of India, Shri @HardeepSPuri.

#PMAYUAwards #PMAYUMP #SabkoAwasMP #IUHC2022

@PMAYUrban @bharatyadavias @mpurbandeptt @MoHUA_India @JansamparkMP



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Hon'ble Minister Shri @bhupendrasingho has received "2nd Best-Performing State" Award along with Shri Manish Singh (PS, UD&H, MP), Shri Satyendra Singh (MD, #HFA), and Shri @bharatyadavias

(Commissioner, UADD) by the Hon'ble Prime Minister for the Implementation of #PMAYUrban.



2:14 AM - Oct 20, 2022 - Twitter Web App 57 Retweets 8 Quote Tweets 141 Likes

Pradhan Mantri Awas Yojana(Urban) - Madhya Pradesh @PMAY_MP

Shri Manish Singh(PS, UD&H), Shri Satendra Singh(MD, #HFA), and Shri Bharat Yadav (Commissioner, UADD) visited the Stall of #MadhyaPradesh, #SmartCityMission, #DHPBhopal & #LHPIndore along with other officials of State & ULBs at #IndianUrbanHousingConclave in Rajkot, Gujarat.



6:47 PM - Oct 22, 2022 - Twitter Web App

14 Retweets 49 Likes

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प्रधानमंत्री आवास योजना-शहरी पुरस्कार-2021 के अंतर्गत नगरपालिक निगम देवास को बेस्ट परफार्मिंग म्युनिसिपल अवार्ड में मिला द्वितीय स्थान।

#PMAYUAwards2021 #PMAYUrbanMP #SabkoAwasMP #IUHC2022 @DewasMcorp @bharatyadavias @mpurbandeptt @collector_dewas @MoHUA_India @JansamparkMP



14 Retweets 1 Quote Tweet 52 Likes



Pradhan Mantri Awas Yojana(Urban) - Madhya Pradesh @PMAY_MP

प्रधानमंत्री आवास योजना-शहरी अवार्ड्स-2021 के अंतर्गत नगर परिषद जोबट को "बेस्ट परफ़ार्मिंग नगर पंचायत" की श्रेणी में मिला प्रथम स्थान।

नगर परिषद जोबट के समस्त पदाधिकारियों को बधाई 💐 #PMAYUAwards2021 #PMAYUMP #SabkoAwasMP #IUHC2022 #Jobat

@PMAYUrban @bharatyadavias @JansamparkMP Translate Tweet







PMAY Urban - Gujarat @HousingPmay

Hon'ble Prime Minister Distributed Keys to the beneficiaries of Light House Project-Rajkot Under PMAY(U) at Indian Urban Housing Conclave 2022 #HousingForAll #TransformingUrbanLandscape. @GhtcIndia



7:22 PM · Oct 19, 2022 · Twitter Web App

31 Retweets 56 Likes

PMAY Urban - Gujarat @HousingPmay

Una Nagarpalika from Gujarat received Best Performing Municipal Council, PMAY(U) Awards 2021. Felicitated by Hon'ble Minister of Housing and Urban Affairs @HardeepSPuri #housingforall #pmayurban #Awards2021



^{11:36} PM - Oct 19, 2022 - Twitter for iPhone

15 Retweets 27 Likes

Pradhan Mantri Awas Yojana (Urban),UP @up_suda

Congratulations to officials of #UttarPradesh State ,SUDA,DUDA,ULB and Districts for being awarded 1st Prize under #150dayschallenge #PMAYurban for "Best Performing State" by Hon'ble PM @CMOfficeUP #PMAYUAwards2021 #IUHC2022 #PMAYUrbanUP #HousingForAll #UPSUDA





CEPT University @CEPTUniversity1

A Handbook on Thermal Comfort and Innovative Construction Technology for Affordable Housing prepared by the CARBSE at CRDF was released by Hon. Prime Minister Shri Narendra Modi during Indian #UrbanHousingConclave in Rajkot.

See more: linkedin.com/feed/update/ur...

@CeptResearch



2:21 PM - Oct 20, 2022 - Twitter Web App

6 Retweets 14 Likes



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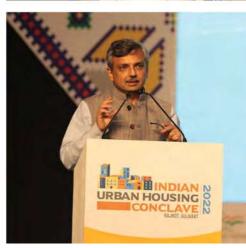














































Ministry of Housing and Urban Affairs Government of India

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