

प्रेषक,

अरुणेश कुमार द्विवेदी,
उप सचिव,
उत्तर प्रदेश शासन।

सेवा में,

1. आवास आयुक्त,
उ0प्र0 आवास एवं विकास परिषद,
लखनऊ।
2. उपाध्यक्ष,
समस्त विकास प्राधिकरण,
उ0प्र0।
3. अध्यक्ष / जिलाधिकारी,
समस्त विशेष क्षेत्र विकास
प्राधिकरण,
उ0प्र0।

आवास एवं शहरी नियोजन अनुभाग-1

लखनऊ : दिनांक : 25 जनवरी, 2023

विषय: प्रधानमंत्री आवास योजना शहरी के तहत वैकल्पिक और नवाचार आवास निर्माण प्रौद्योगिकियों का उपयोग के सम्बंध में।

महोदय,

कृपया उपर्युक्त विषयक अनु सचिव, आवासन एवं शहरी कार्य मंत्रालय, भारत सरकार के ई0मेल पत्र दिनांक 05.01.2023 (छायाप्रति संलग्न) का अवलोकन करने का कष्ट करें, जिसके द्वारा वैकल्पिक और नवीन तकनीकों को व्यावहारिक रूप से बढ़ावा देने और उन्हें प्रधानमंत्री आवास योजना (शहरी) के साथ-साथ अन्य निर्माण परियोजनाओं में उपयोग करने हेतु राज्यों/केंद्र शासित प्रदेशों से अनुरोध किया गया है।

2- इस सम्बंध में मुझे यह कहने का निदेश हुआ है कि भारत सरकार के पत्र दिनांक 05.01.2023 में उल्लिखित तकनीक का प्रधानमंत्री आवास योजना (शहरी) के साथ-साथ अन्य निर्माण परियोजनाओं में प्रयोग करने का कष्ट करें।

संलग्नक: यथोक्त।

भवदीय,
24.1.2023
(अरुणेश कुमार द्विवेदी)
उप सचिव।

47/आ-01-2023



Principal Secretary Housing Dept. <psawasup@gmail.com>

Use of alternate and innovative housing construction technologies under Pradhan Mantri Awas Yojana-Urban (PMAY-U) - reg.

2 messages

HFA-5 Section <clsshfa5@yahoo.com>

Thu, Jan 5, 2023 at 5:06 PM

To: "psandaman@gmail.com" <psandaman@gmail.com>, "peshi.apmaud@gmail.com" <peshi.apmaud@gmail.com>, "ajayjainias@gmail.com" <ajayjainias@gmail.com>, "skjain1804@gmail.com" <skjain1804@gmail.com>, "nv.principalsecretaryassam@gmail.com" <nv.principalsecretaryassam@gmail.com>, "urbansec-bih@nic.in" <urbansec-bih@nic.in>, "udhd.bih@gmail.com" <udhd.bih@gmail.com>, "ud.bihar@gmail.com" <ud.bihar@gmail.com>, "suda.mission@gmail.com" <suda.mission@gmail.com>, "osd.suda@yahoo.com" <osd.suda@yahoo.com>, "osd.suda2@gmail.com" <osd.suda2@gmail.com>, "fs-chd@nic.in" <fs-chd@nic.in>, "fsutchd@gmail.com" <fsutchd@gmail.com>, "secretarypower2020@gmail.com" <secretarypower2020@gmail.com>, "advadmr-dnh@gov.in" <advadmr-dnh@gov.in>, "devcom-dd@nic.in" <devcom-dd@nic.in>, "secpower.goa@gov.in" <secpower.goa@gov.in>, "sec-hn-urban@gujarat.gov.in" <sec-hn-urban@gujarat.gov.in>, "pstcphry@gmail.com" <pstcphry@gmail.com>, "fclg@hry.nic.in" <fclg@hry.nic.in>, "officeofapscm@gmail.com" <officeofapscm@gmail.com>, "udsecy-hp@nic.in" <udsecy-hp@nic.in>, "housingsecy-hp@nic.in" <housingsecy-hp@nic.in>, "housingudd9@gmail.com" <housingudd9@gmail.com>, "hudd-jk@nic.in" <hudd-jk@nic.in>, "ladakhdivcom@gmail.com" <ladakhdivcom@gmail.com>, "saugatbiswas@gmail.com" <saugatbiswas@gmail.com>, "ud.secy@gmail.com" <ud.secy@gmail.com>, "prshousing@gmail.com" <prshousing@gmail.com>, "acslsgd@gmail.com" <acslsgd@gmail.com>, "psuaddmp@mpurban.gov.in" <psuaddmp@mpurban.gov.in>, "psec.housing@maharashtra.gov.in" <psec.housing@maharashtra.gov.in>, "joymongjam@yahoo.com" <joymongjam@yahoo.com>, "muda.shillong@yahoo.co.in" <muda.shillong@yahoo.co.in>, "sangmama@gmail.com" <sangmama@gmail.com>, "secretarysedmiz@gmail.com" <secretarysedmiz@gmail.com>, "secyudd@gmail.com" <secyudd@gmail.com>, "hudsec.or@nic.in" <hudsec.or@nic.in>, "secy.lg@punjab.gov.in" <secy.lg@punjab.gov.in>, "acshud@punjab.gov.in" <acshud@punjab.gov.in>, "secytcp.pon@nic.in" <secytcp.pon@nic.in>, "acs.udh@rajasthan.gov.in" <acs.udh@rajasthan.gov.in>, "udhdsikkim@gmail.com" <udhdsikkim@gmail.com>, "hud@tn.gov.in" <hud@tn.gov.in>, "prlsecy_maud@telangana.gov.in" <prlsecy_maud@telangana.gov.in>, "patoprsecyhousing@gmail.com" <patoprsecyhousing@gmail.com>, "kirangitteias@gmail.com" <kirangitteias@gmail.com>, "acsud.goup@gmail.com" <acsud.goup@gmail.com>, "psecup.urbandev@nic.in" <psecup.urbandev@nic.in>, "psawasup@gmail.com" <psawasup@gmail.com>, "secynkjha@gmail.com" <secynkjha@gmail.com>, "secy.ma-wb@gov.in" <secy.ma-wb@gov.in>, "psud@nic.in" <psud@nic.in>, "prsecrylsgdruralker@gmail.com" <prsecrylsgdruralker@gmail.com>
Cc: Kuldip Narayan JS HFA MOHUA <jshfa-mohua@gov.in>, "Dr. Shailesh Kumar Agrawal" <shailesh.agrawal@gov.in>, BrijMohan Agrawal <dirhfa5-mhupa@gov.in>, CN JHA <cnjha06@gmail.com>, Pankaj Gupat <pankajgupta70@gmail.com>, Sharad Gupta <guptaksharad@gmail.com>, Manish Kumar <manishpmhupa@gmail.com>, "Kanha R. Godha" <kgodha@gmail.com>, Naveen Rai <naveenrai374@gmail.com>, "J.K. Prasad" <jkprasad56@gmail.com>, Manish2 <mkmhua@gmail.com>, Abhishek Mhua <abhishek.mhua@gmail.com>

Sir/Madam,

Please find attached herewith letter dated 05.01.2023 wherein States/UTs are requested to proactively promote alternate and innovative technologies and use them in PMAY-U projects as well as other construction projects.

With regards,

(B.K. Mandal)
Under Secretary to the Govt. of India
HFA-5 Division,
HFA Directorate,
Ministry of Housing and Urban Affairs (MoHUA),
Government of India,
Nirman Bhawan, New Delhi-11
Tel:011-23063285

117/USCE/23
JSO/DP

राजिव/आ-1

65238/PSH/23

09/01/2023
शिवेश कुमार मिश्रा

नितिन रमेश चौकरी

149/PSH/23
VSC/R

आवास एवं शहरी नियोजन विभाग,
उत्तर प्रदेश शासन

आवास एवं शहरी नियोजन विभाग,
उत्तर प्रदेश शासन

(रामप्रती वरमा)
राजीव चौकरी
9 मार्च 23
आवास एवं शहरी नियोजन विभाग,
उत्तर प्रदेश शासन।

11.1.2023

02/01/23

05/01

9.1.2023


 Letter regarding use of innovative technologies.pdf
3045K

Principal Secretary Housing Dept. <psawasup@gmail.com>
To: sohousingone@gmail.com

Thu, Jan 5, 2023 at 5:38 PM

Regards,
PS To Principal Secy.
Housing and Urban Planning Dept.

[Quoted text hidden]

 Letter regarding use of innovative technologies.pdf
3045K

No. N-11019/18/2019-HFA-V-UD/FTS-9069588

Government of India
Ministry of Housing and Urban Affairs
HFA-V Division

Room No. 118-G, NBO Building,
Nirman Bhawan, New Delhi-110011

Dated: 05.01.2023

To,

The Principal Secretary/Secretary of all States/UTs of Housing/ Urban Development (As per list attached)

Sub: Use of alternate and innovative housing construction technologies under Pradhan Mantri Awas Yojana-Urban (PMAY-U) – reg.

Sir/Madam,

You are aware that Ministry of Housing and Urban Affairs (MoHUA) has initiated Global Housing Technology Challenge-India (GHTC-India) in 2019 with an aim to identify and mainstream best globally available proven innovative construction technologies to develop an eco-system to deliver on technological challenges of the housing construction in a holistic manner and enable a paradigm shift in the construction sector. Under GHTC-India, a total of 54 globally available proven innovative construction technologies were shortlisted.

2. Subsequently, Hon'ble Prime Minister laid the foundation stones for construction of six Light House Projects (LHPs) at six places in the country, namely, Chennai, Indore, Lucknow Rajkot, Agartala and Ranchi, using six distinct innovative technologies identified under GHTC-India. The LHPs are demonstrating construction of ready to live houses at an expedited pace, as compared to conventional construction system. LHP at Chennai and LHP at Rajkot, Gujarat have already been completed and inaugurated by the Hon'ble Prime Minister and remaining projects are under advance stages of construction.

3. In addition, Hon'ble Prime Minister inaugurated the Indian Housing Technology Mela (IHTM) on 5th October 2021 in Lucknow, Uttar Pradesh. 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. 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. Link to download https://ghtc-india.gov.in/IHTM/Content/pdf/Compendium_IHTM.pdf

4. Further, Building Materials and Technology Promotion Council (BMTPC), an autonomous institution under the aegis of MoHUA has been working for evaluation and certifying alternative technologies through Performance Appraisal Certification Scheme (PACS). Till date, BMTPC has certified 77 alternative technologies and issued their Packs (**list attached at Annexure-I**). Subsequent to this, Central Public Works Department (CPWD) has also published Schedule of Rates (SoRs) for 27 alternatives

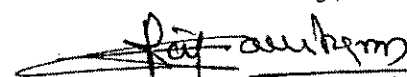
technologies (**list attached at Annexure-II**). These alternate technologies have also been included in the National Building Code (NBC), 2016. The details regarding these alternate technologies can be accessed at <https://bmtpc.org/topics.aspx?type=sub&mid=47> or https://cpwd.gov.in/Documents/cpwd_publication.aspx

5. It has been observed that the innovative/alternate technologies, materials, and processes shortlisted under GHTC-India and IHTM are being used by various Central Government Agencies, State/UT Govts, Central/State PSUs and other construction agencies across the country in their housing/construction projects. However, it is furthermore needed that technical details on the use of these technologies may be scaled up through large scale dissemination, training/capacity building, handholding support at State/UT and ULB level. The active participation of private sector is also utmost important for large scale adoption of these innovative technologies in Indian context.

6. In view of the above, you are hereby requested to proactively promote these technologies in your State and use them both in PMAY-U projects as well as other construction projects in your State undertaken by other line departments. The shift in use of alternate technology will address the large-scale housing construction in minimum time and minimum cost with efficient use of resources and environment friendly practices.

7. We look forward to your support in transforming the urban construction sector through use of world's best innovative proven technologies to be adopted as Make in India to realise the dream of Hon'ble Prime Minister towards AatmaNirbhar Bharat.

Yours sincerely,



(R. K. Gautam)

Director (HFA-V)

Tel.:011-23063266

Encl: as above.

Copy to:

The Mission Director of all States/ UTs for PMAY-U Mission (As per list attached)

Copy also to:

Dr. Shailesh Agrawal, Executive Director, BMTPC Core 5-A, First Floor, India Habitat Centre, Lodi Road, New Delhi - 110003

Copy for Information:

PPS to JS&MD (HFA), MoHUA

List of Products/Technologies Certified under PACS by BMTPC

S. No.	Name of Product/System	PAC No.
1	HDF Board Empanelled Eco-friendly Solid Core Door Shutter	1/2003
2	Moulded Raised HDF Paneled Door Shutter	2/2003
3	Sakar Block Making Machine	3/2003
4	Sakar Pan Mixer	4/2003
5	Gypcrete Building Panel /Rapidwall Panel	5/2003
6	Recron 3S Fibres	6/2004
7	Vertical Shaft Brick Kiln Technology	5/2006
8	Endura Door	1/2009
9	Fomura Door	2/2009
10	PVC Flush Door	3/2009
11	PVC Profile Door	4/2009
12	Frontura Door	5/2009
13	Underground Water Storage Tank (SUMP)	6/2009
14	Plastocrete Panel	7/2009
15	Insulated Roof Panel	8/2009
16	Polyethylene Underground Septic Tank	1001-C/2011
17	Continuous Sandwich Panel	1002-S/2011
18	Marshal Door	1003-C/2011
19	uPVC Window	1004-C/2011
20	FRP Manhole	1005-C/2011
21	Formwork for Monolithic Concrete Construction	1006-A/2011
22	Glass Fibre Reinforced Gypsum Panel System	1008-S/2011
23	Marble Slurry Based Binder	1009-M/2011
24	Glass Fibre Reinforced Gypsum Panel System	1009-S/2012
25	Factory Made Fast Track Modular Building System - INSTACON	1011-S/2013
26	Advanced Building System EMMEDUE	1010-S/2014
27	Fluorogypsum Based Anhydrite Binder	1012-M/2014
28	Light Gauge Framed Steel Structure	1014-S/2014
29	Speed Floor System	1013-S/2014
30	Polystyrene Based Insulation Tile - Kooltile	1015-P/2014
31	Roof Insulation Tile -Insulla	1016-P/2015
32	Bamboowood Products	1017-P/2015
33	Quik Build Panels	1019-S/2015
34	Reinforced EPS Core Panel System	1020-S/2015
35	SRPL Building System (Waffle Crete)	1021-S/2015
36	Walltec Hollowcore Concrete Wall	1022-P/2015
37	Plastic Honeycomb Toilet Structures	1023-P/2015
38	Soundproof Drainage Piping System	1024-P/2015
39	Modular Tunnel-Form	1018-S/2015
40	Sismo Building Technology	1025-S/2016

S. No.	Name of Product/System	PAC No.
41	Rapid panels	1026-S/2016
42	Precast Large Concrete panel System	1027-S/2016
43	LGSFS-ICP Technology	1028-S/2016
44	Insulating Concrete Forms	1029-S/2017
45	Prefabricated Fibre Reinforced Sandwich Panels	1030-S/2017
46	Concrewall System	1031-S/2017
47	Rising EPS (Beads) Cement Panels	1032-S/2017
48	Lost-in-Place Formwork System - Plasmolite Wall Panels (For Partition Walls)	1033- S/2018
49	Lost-in-Place Formwork System -Plaswall Panel System (For Structural Applications)	1034-S/2018
50	Structural Stay-in-Place Formwork System	1035-S/ 2018
51	Monolithic Insulated Concrete System (MICS)	1036-S/2018
52	Resin Bonded (Plastic Waste) Tiles	1037-S/2018
53	Continuous Sandwich (PUF) Panel with Steel Structure	1038-S/2018
54	PIR Dry Wall Prefab Panel System	1039-S/2018
55	Robomatic Hollowcore Concrete Wall panels	1040-S/2018
56	Baupanel System	1041-S/2018
57	Flyash EPS (Beads) Cement Sandwich Panels	1042-S/2018
58	K-Wall Panels	1043-S/2019
59	Stay-In-Place PVC Wall Forms	1044-S/2019
60	V-Infill Wall (Light Weight EPS Wall)	1045-S/2019
61	Precast Construction Technology	1046-S/2019
62	Nano Living System Technology	1047-S/2019
63	Integrated Hybrid Solution - One	1048-S/2020
64	Bamboowood Flooring	1049-P/2020
65	Permanent Wall Forms	1050-S/2020
66	Strand Woven Bamboo Wood Floor Tiles & Wall Panels	1051-P/2020
67	Apollo Chaukhat Door and Window Frame Sections	1052-P/2020
68	Bamboowood Flooring & Wall Cladding	1053-P/2020
69	Elastomeric Paintable Plaster	1054-P/2020
70	Dalmia Magic Premium Skim Coat	1055-P/2021
71	Kon_Crete Reinforced Autoclaved Aerated Concrete Panels	1056-P/2021
72	Factory Assembled Insulated Sandwich Panels using Mineral Wool	1057-P/2021
73	Factory Assembled Insulated Sandwich Panels using PUF	1058-P/2021
74	Volumetric (3D) Concrete Printing Technology (VCPT)	1059-S/2022
75	PUF Sandwich Panel with Pre Engineered Building Structure	1060-S/2022
76	Everest Rapicon Panel/ Solid Wall Panel	1061-S/2022
77	WPC Door Shutter & WPC Frame	1062-C/2022

**List of New Technologies Covered Under
CPWD DSR 2021. Vol.II under SH-26 (including Correction slips)**

S.No.	Name of Technology	CPWD SOR 2021 Item No.
1.	SRPL Building System (Waffle-Crete)	26.73 to 26.80
2.	Walltec Hollowcore Concrete Panel	
3.	Precast Large Concrete Panel System	
4.	Industrialized 3-S system using RCC precast with or without shear walls, columns, beams, Cellular Light Weight Concrete Slabs/Semi-Precast Solid Slab	
5.	Robomatic Hollowcore Concrete Wall Panels	
6.	K-Wall Panels	
7.	Urbanaac Precast Construction Technology	
8.	Factory Made Fast Track Modular Building System	26.65 to 26.66
9.	Speed Floor System	26.62 to 26.64
10.	Light Gauge Steel Framed Structure (LGSF)	26.41 to 26.45, 26.65
11.	Light Gauge Steel Framed Structure with Infill Concrete Panel Technology	
12.	Advanced Building System - Emmedue	26.46, 26.47, 26.66
13.	QuickBuild 3D Panels	
14.	Reinforced EPS Core Panel System	
15.	Rapid Panels	
16.	Concrewall Panel System	
17.	Baupanel system	26.49
18.	Rising EPS (Beads) Cement Panels	
19.	Flyash EPS (Beads) Cement Sandwich Panels	26.50
20.	Everest Rapicon Panel / Solid Wall Panel	
21.	Prefabricated Fibre Reinforced Sandwich Panels	26.48
22.	Monolithic Concrete Construction System	
23.	Glass Fibre Reinforced Gypsum Panel System	26.51 to 26.61

S.No.	Name of Technology	CPWD SOR 2021 Item No.
	<i>Through Correction Slips</i>	
24.	Modular Tunnel Form	26.94
25.	Structural Stay-in-place formwork system	26.95
26.	Stay-In-Place PVC Wall Forms	26.96
27.	Permanent Wall Form (PVC)	