

**INDIAN COUNCIL OF AGRICULTURAL RESEARCH
KRISHI BHAWAN: NEW DELHI-110 001**

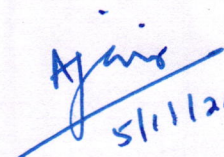
F.No.21-62/2021-CDN

Date: - 5.11.2021

ENDORSEMENT

Sub:-India Cooling Action Plan (ICAP) – Regarding

Ministry of Housing and Urban Affairs has issued a D.O. letter No. K-14011/28/2021-AMRUT-IIA dated 27th October, 2021 regarding above subject. The above mentioned D.O. dated 27.10.2021 is being uploaded on the ICAR website www.icar.org.in and e-office for information and necessary action.


5/11/21

(Ajai Verma)
Deputy Secretary (GAC), ICAR

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1. All the Directors/ Project Directors/ NRCs/ PDs/ ZPDs/ Bureaux/ ATARIs for information and compliance.
2. All officers/ Sections at ICAR Krishi Bhawan/ KAB-I & II/ NASC.
3. Sr. PPS to DG, ICAR/ PPS to FA, ICAR/ PPS to Secretary, ICAR
4. Media Unit for placing on the ICAR Website.
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डी० थारा, आई.ए.एस.

संयुक्त सचिव

D. Thara, I.A.S.

Joint Secretary

भारत सरकार
आवासन और शहरी कार्य मंत्रालयGOVERNMENT OF INDIA
MINISTRY OF HOUSING AND URBAN AFFAIRS

D.O. No. K-14011/28/2021-AMRUT-IIA

Dated: 27th October, 2021

Dear Sir/ Madam,

Ministry of Environment, Forest & Climate Change has released the **India Cooling Action Plan (ICAP)** in March, 2019 as a roadmap for sustainable cooling in India. The ICAP adopts a multi-stakeholder, multi-sectoral approach to **"synergize actions for addressing the cooling demand across all sectors"**. ICAP prioritizes energy efficient and climate-friendly cooling in appliances, buildings, cold chain, and transport sectors." Some of the **co-benefits identified by the ICAP** are as follows:

- i. Thermal comfort for all with specific focus on cooling in affordable housing projects.
- ii. Sustainable cooling with low emissions from cooling.
- iii. Augment domestic manufacturing of air conditioners and related cooling equipment.
- iv. Robust R&D on alternative cooling technologies.

The copy of Indian Cooling Action Plan can be downloaded from following link:

<http://ozonecell.nic.in/wp-content/uploads/2019/03/INDIA-COOLING-ACTION-PLAN-e-circulation-version080319.pdf>

2. The important recommendations pertaining to energy efficient buildings are:

- Enforcing efficient building envelope guidelines in construction of commercial and residential building.
- Wider adoption of Energy Conservation Building Code (ECBC) and Energy Conservation Building Code - Residential (ECBC - R) in various infrastructure schemes of Government.
- Awareness campaign to sensitize both the construction community and users regarding efficient buildings.
- Retrofitting and retro commissioning of existing buildings to reduce cooling requirement and energy consumption.

3. In this regard, details of some of the best practices in field of energy conservation and renewable energy sources are attached with this letter. Whereas rooftop solar panels may be used for meeting the energy demands of the buildings, other structures for solar panels such as solar trees can be used in parks or vacant land for energy generation and also for energy needs of various utilities such as Water Treatment Plants, pump houses, Sewerage Treatment Plants etc.

4. In view of the importance of the matter for energy conservation, I would **request you to kindly instruct concerned officials to take special care for energy conservation features at planning stage** for new buildings. I would also request you to kindly instruct the concerned to **explore the possibility for retrofitting the existing buildings to reduce the cooling requirements** and energy consumption. **Efforts may be made to meet the energy demands of the utilities** such as Water Treatment Plants, pump houses, Sewerage Treatment Plants etc through renewable energy sources.

Warm regards,

(D. Thara)

Secretary, All Central Ministries and Departments (As per list attached)

Principal Secretary/ Secretary (UD), All States/ UTs (As per list attached)