



D.O. No. 1-21/2021-PP

Dated, the 29<sup>th</sup> April, 2021.

Dear *Colleague,*

India is a vast country and our varied geological setting exposes us to various natural and man-made hazards. I am writing to you to enhance the resilience of your Ministry/Department by including hazard-vulnerability information in all construction related activities.

2. As you may be aware, Building Materials, Training and Promotion Council (BMTPC) under the Ministry of Housing and Urban Affairs has prepared a **Vulnerability Atlas of India (VAI)**, that highlights the hazard scenarios for the country and presents digitized State/UT-wise Hazard Maps with respect to Earthquakes, Winds & Floods for district-wise identification of vulnerable areas. This Atlas is a useful tool, not only for the public but also for urban managers, State and National Authorities dealing with disaster mitigation and management.

3. Hon'ble Prime Minister, during the inauguration of the third edition of this Atlas, emphasised on the use of the hazard/vulnerability information in all construction related activities. Accordingly, BMTPC has prepared a Clause (Enclosed) to be included in the Tender Documents to reduce vulnerability and increase resilience in the built environment.

4. We will be grateful if this clause is circulated amongst all the agencies under your Ministry/Department to consider to suitably incorporate it in the tender document. We will also appreciate if action taken in this regard is communicated to NDMA on the email id [policy\\_plan@ndma.gov.in](mailto:policy_plan@ndma.gov.in).

*Regards,*

Yours sincerely

*Sanjeeva Kumar*  
(Sanjeeva Kumar)

Encl.: As stated

**Secretaries to the Ministries / Departments of Govt. of India**  
(as per list attached)

## **Proposed Clause to be included in Tenders w.r.t. Vulnerability Atlas of India**

### **Clause: Planning and Designing in purview of Vulnerability Atlas of India**

Vulnerability Atlas of India (VAI) is a comprehensive document which provides existing hazard scenario for the entire country and presents the digitized State/UT – wise hazard, maps with respect to earthquakes, winds and floods for district-wise identification of vulnerable areas. It also includes additional digitized maps for thunderstorms, cyclones and landslides. The main purpose of this Atlas is its use for disaster preparedness and mitigation at policy planning and project formulation stage.

This Atlas is one of its kind single point source for the various stakeholders including policy makers, administrators, municipal commissioners, urban managers, engineers, architects, planners, public etc. to ascertain proneness of any city/location/site to multi-hazard which includes earthquakes, winds, floods thunderstorms, cyclones and landslides. While project formulation, approvals and implementation of various urban housing, buildings and infrastructures schemes, this Atlas provides necessary information for risk analysis and hazard assessment.

The Vulnerability Atlas of India has been prepared by Building Materials and Technology Promotion Council under Ministry of Housing and Urban Affairs, Government of India and available at their website [www.bmtpc.org](http://www.bmtpc.org).

It is mandatory for the bidders to refer Vulnerability Atlas of India for multi-hazard risk assessment and include the relevant hazard proneness specific to project location while planning and designing the project in terms of:

- i) Seismic zone (II to V) for earthquakes,
- ii) Wind velocity (Basic Wind Velocity: 55, 50, 47, 44, 39 & 33 m/s)
- iii) Area liable to floods and Probable max. surge height
- iv) Thunderstorms history
- v) Number of cyclonic storms/ severe cyclonic storms and max sustained wind specific to coastal region
- vi) Landslides incidences with Annual rainfall normal
- vii) District wise Probable Max. Precipitation



S.No.	Name & Address
1.	Secretary, Department of Agriculture, Cooperation and Farmers Welfare, Krishi Bhawan, New Delhi - 110001
2.	Secretary, Department of Fisheries, Krishi Bhawan, Dr. Rajendra Prasad Road, New Delhi-110001.
3.	Secretary, Department of Animal Husbandry & Dairying, Krishi Bhawan, Dr. Rajendra Prasad Road, New Delhi-110001.
4.	Secretary, Department of Agricultural Research & Education, Krishi Bhawan, Dr. Rajendra Prasad Road, New Delhi-110001.
5.	Secretary, Ministry of Ayush, Ayush Bhawan, 'B' Block, GPO Complex, INA, <u>New Delhi-110023</u>
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32.	Secretary, Ministry Finance, Department of Revenue, North Block, New Delhi.

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67.	Secretary, Department of Land Resources C Wing, Nirman Bhawan, New Delhi
68.	Secretary, Department of Science & Technology Technology Bhawan, New Mehrauli Road, New Delhi.
69.	Secretary, Department of Bio Technology, Block-2, CGO Complex, Lodhi Road, New Delhi.
70.	Dr. Shekhar C. Mande Secretary, Department of Scientific & Industrial Research, Technology Bhavan, New Mehrauli Road, New Delhi

71.	Secretary, Ministry of Shipping, Transport Bhawan, Sansad Marg <u>New Delhi</u>
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84.	Secretary, Department of Youth Affairs, Shastri Bhawan, New Delhi
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