



वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्

Council of Scientific and Industrial Research

अनुसंधान भवन 2 रफी मार्ग नई दिल्ली 110001

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File No.13-4(90)2019-20/Policy

Dated: 28th June, 2021

To

The Directors/Heads of all CSIR Labs/Instts/Units

Sub: Clause for inclusion in the tender documents to reduce vulnerability and increase resilience in the built structures

Sir,

I am directed to forward herewith the DO No. 1-21/2021-PP dated 29th April 2021(copy enclosed) from Member Secretary, NDMA, MHA, GoI regarding the subject cited matter.

1. Vide this DO, the Member Secretary has informed that the Building Materials, Training and Promotion Council (BMTPC) under MoHUA has prepared a **Vulnerability Atlas of India (VAI)**.
2. The Hon'ble Prime Minister of India has emphasized on the use of the hazard/vulnerability information in all construction related activities. Accordingly, BMTPC has prepared a Clause to be included in the Tender Document to reduce vulnerability and increase resilience in the built environment.
3. In view of above, all Labs/Instt/Units CSIR are requested to incorporate the clause referred to above in their Tender Documents suitably.

Satish
28/06
(Satish Chandra)

Stores & Purchase Officer

Encl. as above

Copy for information and necessary action to:

1. Shri Atul Kumar Goel, Chief Engineer & Head, ESD
2. Head IT, for publishing on the CSIR Website



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

Dated, the 29th 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.

Regards,

Yours sincerely

Sanjeeva Kumar
(Sanjeeva Kumar)

Encl.: As stated

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

2 of 3

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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.

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