



## DEFENCE GEOINFORMATICS RESEARCH ESTT.

DGRE/TECH/4075/GCFD

Date: 17-01-2021

To: IOC, MHA

Copy to:

1. National Disaster Management Authority  
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2. DM-1, MHA (e-mail: dirdm1@nic.in)
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4. Duty Officer, Control room, MHA (Fax:011-23093750, e-mail: iocdm.mha@nic.in)

Refer Letter No.:

- MHA letter no. : 2-03/2014/Misc/Ops, Dated 22 Dec, 2014
- NDMA Letter no. : NDMA/CR/States/2018/02 dated 30 Jan 2018

**AVALANCHE WARNING BULLETIN**

Valid from 17-01-2021 (1700 h) to 18-01-2021 (1700 h)

| S. No.    | District                       | Danger Level | Alt Range (m) | S. No.    | District                | Danger Level | Alt Range (m)  |
|-----------|--------------------------------|--------------|---------------|-----------|-------------------------|--------------|----------------|
| <b>A.</b> | <b>UT of Jammu and Kashmir</b> |              |               | 2         | Leh                     | 1            |                |
| 1         | Poonch                         | 1            |               | <b>C.</b> | <b>Himachal Pradesh</b> |              |                |
| 2         | Rajouri                        | 1            |               | 1         | Chamba                  | 1            |                |
| 3         | Reasi                          | 1            |               | 2         | Lahaul - Spiti          | 2 (Yellow)   | Above 2600 Mtr |
| 4         | Ramban                         | 1            |               | 3         | Kullu                   | 2 (Yellow)   | Above 2600 Mtr |
| 5         | Doda                           | 1            |               | 4         | Kinnaur                 | 1            |                |
| 6         | Kishtwar                       | 1            |               | 5         | Shimla                  | 1            |                |
| 7         | Udhampur                       | 1            |               | <b>D.</b> | <b>Uttarakhand</b>      |              |                |
| 8         | Anantnag                       | 1            |               | 1         | Uttarkashi              | 1            |                |
| 9         | Kulgam                         | 1            |               | 2         | Chamoli                 | 1            |                |
| 10        | Baramulla                      | 1            |               | 3         | Rudraprayag             | 1            |                |
| 11        | Kupwara                        | 1            |               | 4         | Pithoragarh             | 1            |                |
| 12        | Bandipora                      | 1            |               | <b>E.</b> | <b>Sikkim</b>           |              |                |
| 13        | Ganderbal                      | 1            |               | 1         | North Sikkim            | 1            |                |
| <b>B.</b> | <b>UT of Laddakh</b>           |              |               | 2         | East Sikkim             | 1            |                |
| 1         | Kargil                         | 1            |               |           |                         |              |                |

Outlook/Note:

(Authorized Signatory)  
FOR DIRECTOR

| DANGER LEVEL                                                                                                                                                                                                                                          | DEGREE OF DANGER | INTERPRETATION                                                                                        |                                                                                                                                                   |                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                       |                  | Snow condition                                                                                        | Avalanche likelihood                                                                                                                              | Preferred action                                                                                                                                 |
| 1                                                                                                                                                                                                                                                     | Unlikely         | Generally safe conditions. Snowpack on slopes, if any, is generally stable with isolated instability. | Rare avalanche activity is possible with high external loading e.g. tremors, explosives or movement in formation zones.                           | Valley movement is generally safe. Movement on snow-loaded slopes with care.                                                                     |
| 2                                                                                                                                                                                                                                                     | Low              | Partly unsafe conditions.                                                                             | Partly unsafe conditions. Small size triggering is possible on few extreme slopes.                                                                | Valley movements with care. Avoid movement on slopes.                                                                                            |
| 3                                                                                                                                                                                                                                                     | Medium           | Unsafe conditions.                                                                                    | Triggering is possible from the most avalanche prone slope and may reach the valley in medium size.                                               | Restrict movements to only carefully selected safer routes with extreme care. Evacuate from unprotected settlements on/near the avalanche paths. |
| 4                                                                                                                                                                                                                                                     | High             | Highly unsafe condition.                                                                              | Triggering is possible from all avalanche prone slopes and may reach the valley in large size. Airborne avalanches likely.                        | Suspend all movements. Evacuate from all settlements on/near the avalanche paths.                                                                |
| 5                                                                                                                                                                                                                                                     | All-round        | Extremely unsafe condition.                                                                           | Numerous large avalanches are likely from all possible avalanche slopes even on moderately steep terrain. Avalanches may follow unexpected paths. | Evacuate from avalanche prone areas.                                                                                                             |
| <ul style="list-style-type: none"> <li>• <b>Movement with care:</b> All safety measures to be taken while crossing suspected avalanche path</li> <li>• <b>Movement with extreme care:</b> Rescue party shall stand by in addition to above</li> </ul> |                  |                                                                                                       |                                                                                                                                                   |                                                                                                                                                  |

**Disclaimer** – Above information / warning bulletin is provided after analyzing the current instability state of snowpack, current snow and met data from the field stations and projected weather from models. It is our endeavour to assess the instability state as accurately as possible and draw a precise avalanche forecast. However, precautions must be observed during all movements irrespective of the level of danger predicted as snow and weather conditions in mountain may vary rapidly in space and time.