



## Special Press Release

Date: 01-07-2024

Sub: Active to vigorous monsoon conditions over Uttarakhand from 02<sup>nd</sup> to 07<sup>th</sup> July 2024.

### ✚ Current Meteorological analysis :

Numerical Weather Prediction models indicate existence of an east-west trough in lower levels from north Punjab to northeast India across north Haryana & Uttar Pradesh, Bihar, Sub-Himalayan West Bengal from 02<sup>nd</sup> to 07<sup>th</sup> July 2024.

### ✚ Monsoon watch :

- Monsoon has covered the entire state of Uttarakhand on 28<sup>th</sup> June 2024.
- The Northern Limit of Monsoon passes through 26°N/65°E, Jaisalmer, Sirsa, Kurukshetra, Rajpura, Ludhiana and 31.2°N/74.5°E. (Map attached).

### ✚ Rainfall forecast:

Light to moderate rain/ thundershowers are very likely to occur at most places in Uttarakhand from 02<sup>nd</sup> to 07<sup>th</sup> July 2024.

### ✚ Weather Warning for Uttarakhand:

02 <sup>nd</sup> to 04 <sup>th</sup> July 2024	<ul style="list-style-type: none"><li>• <b>Warning:</b> Heavy to very heavy rainfall at a few places with extremely heavy rainfall at isolated places likely to occur in districts of Kumaun region of Uttarakhand.</li><li>• Thunderstorm accompanied with lightning and very intense to extremely intense spells very likely to occur at isolated places in districts of Kumaun region of Uttarakhand.</li></ul> <ul style="list-style-type: none"><li>• <b>Alert:</b> Heavy to very heavy rainfall very likely to occur at isolated places in Dehradun, Pauri, Tehri &amp; Haridwar districts of Uttarakhand.</li><li>• Thunderstorm accompanied with lightning and very intense to extremely intense spells very likely to occur at isolated places in Dehradun, Pauri, Tehri &amp; Haridwar districts of Uttarakhand.</li></ul> <ul style="list-style-type: none"><li>• <b>Watch:</b> Heavy rainfall very likely to occur at isolated places in Uttarkashi, Rudraprayag &amp; Chamoli districts of Uttarakhand.</li></ul>
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	<ul style="list-style-type: none"> <li>• <b>Thunderstorm accompanied with lightning and intense to very intense spells very likely to occur at isolated places in Uttarkashi, Rudraprayag &amp; Chamoli districts of Uttarakhand.</b></li> </ul>
05 <sup>th</sup> to 07 <sup>th</sup> July 2024	<ul style="list-style-type: none"> <li>• <b><u>Alert:</u> Heavy to very heavy rainfall very likely to occur at isolated places in districts of Uttarakhand.</b></li> <li>• <b>Thunderstorm accompanied with lightning and very intense to extremely intense spells very likely to occur at isolated places in districts of Uttarakhand.</b></li> </ul>

### **Impact/Advisory:**

Date	Districts/Region	Weather warning	Impact	Suggested Actions
02 <sup>nd</sup> to 04 <sup>th</sup> July 2024	Few places in districts mentioned above	<ul style="list-style-type: none"> <li>• <b>Heavy to very heavy at a few places with Extremely heavy at isolated places.</b></li> <li>• <b>Thunderstorm accompanied with lightning / very intense to extremely intense spell of rain at isolated places.</b></li> </ul>	<ul style="list-style-type: none"> <li>• Minor to medium landslide, rock fall and mudslides due to heavy rain or intense rainfall spell at a few places.</li> <li>• Blocking/washout of roads/highways/bridges due to rock fall/ landslide and floods at a few places.</li> <li>• Community services like electricity, water etc. will be affected at large.</li> <li>• Supply and transportation will be affected at a few places for a few days.</li> <li>• Few instances of damage to life and property.</li> <li>• Continuous heavy rainfall may cause Dams/Barrages to increase the discharge causing rise in the river water level. Large increase in water level of major rivers and their tributaries.</li> <li>• Heavy rains falling on melting snowpack can produce sudden increase in water flow in rivulets and rainwater streams that may result in bank erosion/overflow/flash floods also likely at a few places.</li> <li>• Very intense/extremely intense rainfall can produce flash flooding, inundation in low lying areas, mountains and steep hills produce rapid runoff, which can cause streams to rise quickly at a few places.</li> <li>• Few instances of damage to the</li> </ul>	<ul style="list-style-type: none"> <li>• People residing in vulnerable areas prone to landslides are advised to move to safer places.</li> <li>• Pilgrims/tourists travelling to Chardham/other pilgrim places or other locations to remain alert and are advised to avoid travelling.</li> <li>• Settlements/People residing near major rivers and their tributaries; rivulets/streams and low lying areas and flood plains are to remain alert and ready to move to safer places (Higher places).</li> <li>• Dam/barrage management/ Hydroelectric power plants management/control authorities are advised to take necessary precautionary measures and keep the water in reservoir to minimum levels.</li> <li>• Mountaineering expeditions may be halted and the expedition members are advised to move to the safe places.</li> <li>• State government authorities are advised to take all necessary precautionary measures and facilitate the safe movement of people.</li> <li>• District authorities are advised to close schools during the period.</li> <li>• Commuters or people travelling with vehicle need to be alert and avoid travelling.</li> <li>• Stay indoors during heavy rains/ flash flood. Do not try to cross an</li> </ul>

			<p>vulnerable structures like Kutcha houses/roads/walls, huts and under-construction buildings, bridges, tunnels etc.</p> <ul style="list-style-type: none"> <li>• Difficult driving conditions due to slippery roads and low visibility due to fog/low clouds leading to greatly increased travel time.</li> <li>• Moderate to extensive damage to horticulture crop, plantation and Kharif crops like rice, maize, millet, beans, grams etc.</li> <li>• Flight operations to/from airports will be disrupted. Helicopter operations to/from different helipads in the district likely to be affected.</li> <li>• Railway operations may be disrupted.</li> <li>• District headquarters, private &amp; Government institutions, schools, hospitals, pilgrim places, tourist places may be affected by heavy rain.</li> <li>• Damage of life and property due to lightning at isolated places.</li> </ul>	<p>active landslide area.</p> <ul style="list-style-type: none"> <li>• Monitor media reports for updates. Listen up for weather forecasts on local media. Keep an eye on social media</li> <li>• Avoid visiting fragile hilly terrain and steep slopes.</li> <li>• Don't try to walk through a flooded area.</li> </ul> <p>Avoid flooded areas if you are in a vehicle.</p> <ul style="list-style-type: none"> <li>• Do not go swimming or boating in swollen rivulets, streams, rivers and their tributaries during heavy rains.</li> <li>• Military and Para-military establishments/posts in remote/far-flung areas vulnerable to landslide, flash-flood are to remain alert.</li> <li>• Construction activities of houses, building, bridges, dam, tunnels etc. may be halted during heavy rainfall period.</li> <li>• Farmers are advised to make necessary arrangements for drainage of excess water from the fields. The harvested produce may be kept in safe &amp; dry place.</li> </ul>
<p>02<sup>nd</sup> to 07<sup>th</sup> July 2024</p>	<p>Isolated places in districts mentioned above</p>	<ul style="list-style-type: none"> <li>• Heavy to very heavy rainfall</li> <li>• Thunderstorm accompanied with lightning, very intense /extremely intense spells</li> </ul>	<ul style="list-style-type: none"> <li>• Landslide, rock fall and mudslides due to heavy rain or intense rainfall spell at isolated places.</li> <li>• Blocking/washout of roads/highways/bridges due to rock fall/ landslide and floods at isolated places.</li> <li>• Community services like electricity, water etc. will be affected at isolated places.</li> <li>• Supply and transportation will be affected at isolated places for a few days.</li> <li>• Isolated instances of damage to life and property.</li> <li>• Continuous heavy rainfall may cause Dams/Barrages to increase the discharge causing rise in the river water level. Moderate increase in water level of major rivers and their tributaries.</li> <li>• Heavy rains falling on melting snowpack can produce sudden</li> </ul>	<ul style="list-style-type: none"> <li>• People residing in vulnerable areas prone to landslides are to remain alert.</li> <li>• Pilgrims/tourists travelling to Chardham or other locations to remain alert and travel only if necessary. During continuous / heavy rains keep a watch on steep slopes while travelling.</li> <li>• Settlements/People residing near major rivers and their tributaries; rivulets/streams and low lying areas and flood plains are to remain alert.</li> <li>• Dam/barrage management/ Hydroelectric power plants management/control authorities are advised to take necessary precautionary measures.</li> <li>• Mountaineering expeditions may be halted and the expedition members are advised to move to the safe places.</li> <li>• State government authorities are</li> </ul>

			<p>increase in water flow in rivulets and rainwater streams that may result in bank erosion/overflow/flash floods also likely at isolated places.</p> <ul style="list-style-type: none"> <li>• Very/extremely intense rainfall can produce flash flooding, inundation in low lying areas, mountains and steep hills produce rapid runoff, which can cause streams to rise quickly at isolated places.</li> <li>• Isolated instances of damage to the vulnerable structures like Kutchha houses/roads/walls, huts and under-construction buildings, bridges, tunnels etc.</li> <li>• Difficult driving conditions due to slippery roads and low visibility due to fog/low clouds leading to moderately increased travel time.</li> <li>• Moderate damage to horticulture crop, plantation and Kharif crops like rice, maize, millet, beans, grams etc.</li> <li>• Flight operations to/from airports may be disrupted. Helicopter operations to/from different helipads in the district may be affected.</li> <li>• Railway operations may be affected.</li> <li>• District headquarters, private &amp; Government institutions, schools, hospitals, pilgrim places, tourist places may be affected by heavy rain.</li> <li>• Damage of life and property due to lightning at isolated places.</li> </ul>	<p>advised to take all necessary precautionary measures for smooth movement of people.</p> <ul style="list-style-type: none"> <li>• Commuters or people travelling with vehicle need to be alert and travel only if necessary.</li> <li>• Stay indoors during heavy rains/flash flood. Do not try to cross an active landslide area.</li> <li>• Monitor media reports for updates. Listen up for weather forecasts on local media. Keep an eye on social media</li> <li>• Avoid visiting fragile hilly terrain and steep slopes.</li> <li>• Don't try to walk through a flooded area. Avoid flooded areas if you are in a vehicle.</li> <li>• Do not go swimming or boating in swollen rivulets, streams, rivers and their tributaries during heavy rains.</li> <li>• Military and Para-military establishments/posts in remote/far-flung areas vulnerable to landslide, flash-flood are to remain alert.</li> <li>• Construction activities of houses, building, bridges, dam, tunnels etc. may be halted during heavy rainfall period.</li> <li>• Farmers are advised to make necessary arrangements for drainage of excess water from the fields. The harvested produce may be kept in safe &amp; dry place.</li> </ul>
<p><b>2<sup>nd</sup> to 04<sup>th</sup> July 2024</b></p>	<p>Isolated places in some districts</p>	<ul style="list-style-type: none"> <li>• Heavy rainfall</li> <li>• Thunderstorm accompanied with lightning, intense to very intense spells.</li> </ul>	<ul style="list-style-type: none"> <li>• Rock fall and mudslides due to heavy rain or intense rainfall at isolated places.</li> <li>• Blocking of roads/highways due to rock fall at isolated places.</li> <li>• Isolated instances of damage to life and property.</li> <li>• Heavy rains falling on melting snowpack can produce sudden increase in water flow in rivulets and rainwater streams that may result in bank erosion/overflow/flash floods also likely at isolated places.</li> </ul>	<ul style="list-style-type: none"> <li>• People residing in vulnerable areas prone to landslides are to remain cautious.</li> <li>• Pilgrims/tourists travelling to Chardha or other locations in state to remain cautious and keep a watch on steep slopes while travelling.</li> <li>• Settlements/People residing near rivulets/streams and low lying areas and flood plains are to remain cautious.</li> <li>• Mountaineering expeditions may take precautionary measures</li> </ul>

		<ul style="list-style-type: none"> <li>• Very intense rainfall can produce flooding, mountains and steep hills produce rapid runoff, which can cause streams to rise quickly at isolated places.</li> <li>• Difficult driving conditions due to slippery roads and low visibility due to fog/low clouds leading to slightly increased travel time.</li> <li>• Minor damage to horticulture, agriculture crop (like rice, maize, millet, beans, grams etc.) &amp; plantation and quality of grain may also be affected.</li> <li>• Flight operations to/from airports may get affected. Helicopter operations to/from different helipads in the district may get affected.</li> <li>• Damage of life and property due to lightning at isolated places.</li> </ul>	<p>for cold and wet conditions.</p> <ul style="list-style-type: none"> <li>• Commuters or people travelling with vehicle need to be cautious.</li> <li>• Monitor media reports for updates. Listen up for weather forecasts on local media/ social media.</li> <li>• Do not go swimming or boating in rivulets/streams during heavy rains.</li> <li>• Farmers are advised to make keep the harvested produce in safe &amp; dry place.</li> </ul>
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**Note:** \*Kindly login to Meteorological Centre, Dehradun's Website (<https://mausam.imd.gov.in/dehradun/>) for regular & detailed updates of forecasts and warnings.

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(बिक्रम सिंह)

हेड/वैज्ञानिक-‘एफ’

मौसम विज्ञान केंद्र, देहरादून

**LEGENDS:**

WARNING (TAKE ACTION)	WATCH (BE UPDATED)
ALERT (BE PREPARED)	NO WARNING (NO ACTION)

INTENSITY (INSTY)		DISTRIBUTION (DISTR)		PROBABILITY OF OCCURRENCE	
VERY LIGHT/बहुत हल्की	TRACE - 2.4 mm	ISOLATED /कहीं-कहीं	ISOLATED (UPTO 25% AREA)	UNLIKELY	Up to 25%
LIGHT/हल्की	2.5- 15.5 mm	FEW /कुछ स्थान	SCATTERED (BETWEEN 25-50% AREA)	LIKELY	26 to 50%
MODERATE /मध्यम	15.6 – 64.4 mm	MANY /अनेक स्थान	FAIRLY WIDE SPREAD (BETWEEN 50-75% AREA)	VERY LIKELY	51 to 75%
HEAVY /भारी	64.5- 115.5 mm	MOST /अधिकांश स्थान	WIDE SPREAD (MORE THAN 75% AREA)	MOST LIKELY	Above 75%
VERY HEAVY /बहुत भारी	115.6- 204.4 mm				
EXTREMELY HEAVY /अत्यंत भारी	> 204.4 mm				

Intense rainfall spell	20-30 mm/hour
Very intense rainfall spell	30-50 mm/hour
Extremely intense rainfall spell	50-100 mm/hour
Cloud Burst	>100 mm/hour

# Advance of Southwest Monsoon 2024

