

HOW CLOUDBURSTS HAPPEN

Nature's Most Intense Rainfall in a Short Time

1

MOIST AIR RISES

Warm, moist air from oceans, rivers and land surfaces rises into the atmosphere.



2

AIR HITS MOUNTAINS

Moist air is forced upward when it hits a mountain barrier.



3

RAPID COOLING & CONDENSATION

As the air rises, it cools rapidly and water vapor condenses to form large rain clouds.



4

WATER DROPLETS GROW HEAVY

Tiny droplets collide and merge, becoming very large and too heavy for the cloud to hold.



5

SUDDEN, INTENSE RAINFALL

The heavy water mass falls suddenly over a small area in a very short time. This is called a **CLOUDBURST**.



KEY FACT

A cloudburst delivers usually more than **100 mm** of rain in less than 1 hour over a small area (less than 20–30 sq. km).

WHY IT IS SO POWERFUL?



Huge amount of water falls in a very short time and over a small area.



Fast flowing water causes flash floods and landslides.



It can destroy homes, roads, bridges and take many lives.



Hard to predict, difficult to prepare, but awareness saves lives.



STAY SAFE:



Check weather forecasts



Avoid rivers, streams & valleys



Move to higher ground immediately



Follow official alerts & instructions



VISUALPEDIA
SEE IT. UNDERSTAND IT. SHARE IT.