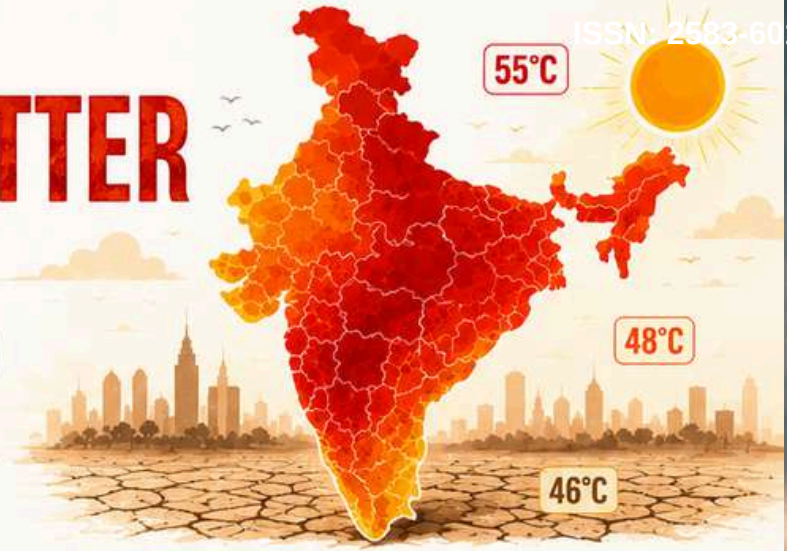


INDIA IS GETTING HOTTER THAN EVER

100 OUT OF WORLD'S 100 HOTTEST CITIES ARE IN INDIA

SUPER EL NIÑO



WHEN SUPER EL NIÑO HIT HARD
The most severe one happened in **1877-79**
Often called one of the worst climate-linked crises in history.

- MASSIVE DROUGHT** across India
 - MONSOON** failure
 - WIDESPREAD** famine
- Between 1877-79, large parts of India faced extreme drought, crop failure and famine, leading to the **loss of millions of lives.**

LA NIÑA IS THE OPPOSITE OF EL NIÑO

It is a climate pattern where Pacific Ocean waters become cooler than normal.

It usually brings heavier rains and cooler weather.

It can lead to better monsoons in India.

WHY INDIA IS EXPERIENCING EXTREME HEAT WAVES

It's not just summer. It's a **global climate trigger.**

THE PROCESS BEHIND THE HEAT

- 1 WARMING IN PACIFIC OCEAN**
Sea surface temperatures in the equatorial Pacific become warmer than normal.
- 2 EL NIÑO DEVELOPS**
This warm water spreads across the eastern Pacific. This phase is called **El Niño**.
- 3 ATMOSPHERIC DISRUPTION**
El Niño weakens normal wind patterns and shifts rainfall patterns globally.
- 4 IMPACT ON INDIA**
Less rainfall, clearer skies & high pressure trap heat near the surface over India.
- 5 HEATWAVES INTENSIFY**
Longer, more intense & frequent heatwaves impact daily life, health & resources.

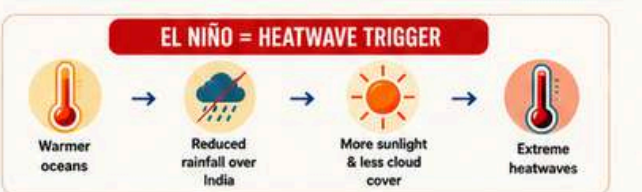
WHY THIS HEAT IS MORE INTENSE

This isn't a normal El Niño. It's stronger. It's a **Super El Niño.**

NORMAL EL NIÑO	VS	SUPER EL NIÑO
Moderate warming of Pacific Ocean waters		Much higher warming of Pacific Ocean waters
Some disruption to weather patterns		Stronger disruption to weather patterns
Above-normal temperatures		Much higher & more extreme temperatures

WARMER WATERS SPREAD FURTHER EAST

EQUATOR



IMPACT ON INDIA

- LONGER & HARSHER HEATWAVES**
Heatwaves start earlier and last longer.
- HIGHER DAY & NIGHT TEMPERATURES**
Both daytime and nighttime temperatures stay unusually high.
- GREATER STRESS ON WATER & POWER**
More pressure on water resources and electricity demand.

WHAT IS EL NIÑO?
El Niño is a climate phenomenon where the central and eastern Pacific Ocean becomes warmer than usual, affecting weather — including India.

El Niño is one of the biggest climate drivers — a key reason behind India's rising and intensifying heat waves.

STRONGER EL NIÑO = STRONGER IMPACT ON INDIA'S CLIMATE

Source: Olive Board Associate Editor: Kamaldeep kumar



Publisher
Earth Root Foundation

456, Pocket B, Sector-13, Dwarka, New Delhi-110078
www.earthrootfoundation.org | info@earthrootfoundation.org | +91 8766317774