

TODAY'S PAPER

NEW DELHI, January 5, 2016

'Calm' winds spike pollution levels in Delhi

• Damini Nath

Delhiites breathed in "severe" levels of pollution on Monday, the first full working day since the Delhi government's car-rationing experiment started on January 1.

In fact, the level of the harmful PM2.5 (particles below or 2.5 microns in size) spiked by about 18 per cent over the course of the day. According to the System of Air Quality and Weather Forecasting and Research (SAFAR) index of the Union Earth Science Ministry, the average PM2.5 level from eight monitoring stations rose from 226 at 8 a.m. to 266 micrograms per cubic metre at 7 p.m. This meant that the air quality index (AQI) was over 400, putting pollution in the "severe" category.

"The increase in PM2.5 levels is associated with prevailing weather conditions," said SAFAR project director Gufran Beig, referring to the relatively calm winds and high moisture levels seen on Monday.

According to a Meteorological Department official, the minimum temperature remained at 8 degrees Celsius, the same as Sunday.

Moisture levels high

The maximum rose from 22.8 degrees Celsius on Sunday to 23.2 degrees on Monday, four degrees above normal for this time of year. Since the wind speed fell to "calm" levels on Monday, pollutants did not get swept away as they did on Sunday, when westerly winds were observed. The moisture levels also remained high, between 97 to 53 per cent,

Anumita Roychowdhury, the head of the Centre for Science and Environment's clean air campaign, said climatic conditions will only lead to higher pollution levels over the coming weeks. "As the weather gets colder in January, pollution levels increase. We have to take that into account when we assess the impact of the odd-even policy," said Ms. Roychowdhury.

Citing the Delhi government's data for Day One of the odd-even experiment, she added that the dip in PM levels, that happens everyday from early morning to afternoon, was more pronounced compared to previous days, pointing towards the effect of the policy.

1/5/2016 , :Digital Edition

16 killed as quake strikes North-East, Bangladesh

11 dead in India, 5 in B'desh | Manipur worst-hit | NDRF teams rushed to Imphal | Centre assures all help to affected states



RESCUE OP: Soldiers and locals remove debris from a damaged building in Imphal on Monday. PTI

TRIBUNE NEWS SERVICE AND AGENCIES

GUWAHATI, JANUARY 4

A powerful earthquake struck North-East India and Bangladesh this morning, killing at least 16 persons and injuring around 200, with efforts to reach remote areas where people might be trapped hampered by severed power lines and telecommunication links. Besides India and Bangladesh, tremors were also felt in Nepal and Myanmar.

At least 11 persons were killed in India when an earthquake measuring 6.7 on the Richter scale rocked the northeastern region around 4.35 am today. The epicentre of the earthquake was at Tamenglong in Manipur.

At least eight deaths have been reported from the Manipur. Two persons died in Guwahati and one in Bihar after suffering cardiac arrest when they got panicky trying to rush out of their homes during the quake.

According to the data available with the seismological science department of the North East Institute of Science and Technology (NEIST), Jorhat, the earthquake hit the North-East 16 seconds past 4.35 am with an intensity of 6.7 on the Richter scale. The epicentre of the earthquake has been traced to Tamenglong in Manipur (latitude 28.8° Nlongitude 93.5° E).

Dr Ranju Duarah, senior geologist at the NEIST, said more tremors were likely in the region as aftershocks.

Two teams of the National Disaster Response Force (NDRF) were rushed to Manipur for conducting rescue operations. Union Minis-

ter of State for Home Kiren Rijiju and Minister for Development of North Eastern Region (DoNER) Jitendra Singh arrived in Imphal to monitor the relief and rescue operations. Several buildings, including the multi-storied all-women market in Imphal, suffered extensive damage in the quake. Power supply was hit throughout Manipur, sources said.

Home Minister Rajnath Singh, who is in Assam visiting areas on the India-Bangladesh border, said the Centre was monitoring the situation in Manipur and would provide all possible assistance. PM Modi called up Ibobi Singh, Tarun Gogoi and other CMs to take stock of the situation.

TAMENGLONG

MANIPUR



The interior view of a damaged church at Leimakhong village on the outskirts of Imphal. REUTERS





A damaged building; and (right) a car crushed under a collapsed roof in Imphal. PTI

THREE QUAKES SINCE LAST NIGHT

- Manipur witnessed three quakes since 11 last night
- The second one with magnitude 6.7 on the Richter scale was the most damaging; it occurred around 4.35 am with the epicentre at Tamenglong in Manipur at a depth of 17 km from the earth surface
- The latest and the third one with magnitude 3.6 on the Richter scale occurred around 9.27 am with epicentre near Tamenglong at a depth of 20 km

EDUCATIONAL INSTITUTES CLOSED FOR A WEEK

- All educational institutes in Manipur have been closed till January 11 following the terrible earthquake in the state.
- Relief for families of the dead
- M Okendra, a Manipur government spokesman, said ₹5 lakh would be given as compensation to the families of the dead

Facebook activates 'Safety Check'

Facebook has activated its safety check tool to help people in the quake-hit area to let friends and family know they are safe. "We have activated Safety Check to help people in the area," Facebook founder Mark Zuckerberg wrote. The tool can be accessed at https://www.facebook.com/safety-check/manipurearthquak e-jan03-2016. — JANS

1/5/2016 , :DigitalEdition



Valley receives year's first snow

TRIBUNE NEWS SERVICE

SRINAGAR, JANUARY 4

The Kashmir region today received first snow of the year.

Snow was received across the Kashmir valley with varying intensity. It was more in north Kashmir districts, while light intensity snow was received in Srinagar.

It was also the season's first snow in the summer capital. The state Meteorological Department in its forecast said scattered downpour was likely on Tuesday in Kashmir region.

The Kashmir valley is in the midst of the 40-day-long harshest phase of winter,

Internet down for 3 hrs

The internet services snapped for nearly three hours due to snow across the Valley on Monday. Both broadband internet services on landlines and mobile internet services were affected on Monday as moderate to heavy snowfall was reported from almost all parts of Kashmir, officials said. PTI

which began on December 21 and will continue till the end of this month. Known as 'Chilai Kalaan' in local parlance, the period is feared for its freezing weather condition and heavy snowfall.

The region is already witnessing freezing night temperatures with mercury plunging several degrees below the zero degree mark. However, overcast sky caused the minimum temperature to rise and settle above the freezing point last night.

The minimum temperature in Srinagar was recorded at 2.2 °C, an increase of almost five degrees from the previous night. The Gulmarg ski resort, which received 19mm rain and snow since morning on Monday, registered a low of -5.6 °C. The minimum temperature in south Kashmir's Pahalgam resort settled at - 0.4 °C.

1/5/2016 , :DigitalEdition

Damning dams is a Himalayan

AVDASH KAUSHAL

The criticism of hydro projects is unscientific. In 2016, India must switch over to hydro energy, without delay because it's sustainable, clean, safe and good for peaking requirements.

N November 18, 1955, Pandit Jawaharlal Nehru described the Bhakra Dam as the "New Temple of Resurgent India". The economic progress and development of Punjab and Haryana is due to the Bhakra Dam. The present Government is thinking of developing waterways and the first choice is the Bhakra Dam.

Current unscientific criticism of hydroprojects evokes passionate responses. The Prime Minister, Narendra Modi is going from country to country, begging for nuclear energy projects to be set up in India. Nuclear power runs the risk of Fukushima-type tragedies. All the countries are trying to get rid of nuclear power plants and want to sell uranium along with machines, equipments and their experts with no liability. Opponents of clean hydro energy suggest other alternative sources like nuclear power plants, coal thermal power, solar energy, gas, wind energy etc. Hydro power is a good source for peaking requirements and it further provides multi-purpose benefits for irrigation and flood control.

Uranium is not being used to make the atom bombs openly after World War II. Uranium-producing countries also put the condition that they should be allowed to inspect all the nuclear sites and ordnance factories at any time, resulting a great risk for secrecy of our defence.

Coal thermal power plants are dirty and also not sustainable; dust from the thermal station washeries contains radiation hazards and also pollutes the air. Windmills and noise associated with them are harmful for ornithology; solar panels need an army of cleaners who have to toil





Solar power is unreliable in winter and the rainy season. Hydro power (right) has multi-purpose benefits for irrigation and floor

in the hot sun to constantly keep them clean. Solar energy is very unreliable during winter and the rainy season. When the need for hot water is much more, solar geysers do not work. The solar photovoltaic cells involve the use of toxic chemicals in the production. One should not use secondary batteries since they contain lead, lithium, metal hydrides and heavy metals that are likely to cause poisoning and cancer.

Hydel power projects are being opposed on unscientific arguments. It is argued that the Pala Maneri, Lohari Nagpala and Bhairon Ghati projects of Uttarakhand are based on the run of the river and river water is diverted into tunnels. And to make these tunnels, the mountains were blasted. However, the fact remains that the tunnels are not made by blasting the mountains but by the same drilling tech-

niques used in making tunnels for metro trains in big cities like Delhi and Kolkata, and now in Lucknow. No house or building made on top of the metro tunnels is unsafe or is damaged. The best example is the way, two years back, a 13-km-loue gailway tunnel was constructed in Jammu and Kashmir without any damage to the environment. In 2013-14, Uttarakhand had to buy Rs 770 crore worth electricity from outside, which too is not sufficient as per the state's requirement. Uttarakhand alone has the potential of generating 27,000 Mw energy from hydro power projects.

Neighbouring countries like China, Nepal, and Bhutan are constructing hydro projects from 1,000 to 14,000 Mws in the same Himalayas. Even Uttarakhand's neighbouring state Himachal Pradesh is constructing hydro projects

worth 6,000 Mw, with the res states are not only independen electricity goes but are also and earning profits. These p being used for the welfare o Electricity needed as much as shelter. An indication of the appetite for electricity in Ind the country's per capita electr sumption has reached 1010 hour (kWh) in 2014-2015, with 957 kWh in 2013-14 and 91 in 2012-13, according to the Electricity Authority (CEA) apex power sector plannir India's per capita power consu among the lowest in the world 280 million people in the count have access to electricity. In son, China has a per capita of tion of 4,000 kWh, with d

The Times of India

Title: Colder days ahead, rain & fog to follow

Author: Location: New Delhi:

Article Date: 01/05/2016

After a spate of sunny days, the capital witnessed a smoggy Monday with the day temperature coming down to 23.2 degrees Celsius.

The Met department has predicted colder days this week with the possibility of a drizzle on January 7 and a resh spell of dense fog from January 9.

"The weather will remain highly variable this week due to two consecutive western disturbances, one of which has already started impacting northwest India. The other is scheduled from January 7 to January 9. Monday's maximum temperature was four degrees above normal but it came down since Sunday and will fall further this week under the impact of a cloud cover. However, cold conditions will intensify from January 9 after the second western disturbance (WD) moves away," said Dr RK Jenamani, director in-charge, IGI Met.

Under the impact of the irst western disturbance, which also brought rain and snow over Jammu and Kash mir on Monday, the capital experienced easterly winds which increased the moisture content in the air and led to formation of smog and reduction in visibility.

"The wind speed on Sunday afternoon was around 1012kmph. On Monday, it reduced to 3-5 kmph. The easterlies are likely to persist till at least January 7, which will lead to further build up of smog and fall in temperatures to two to three degrees below normal," added Jenamani.

Monday's minimum temperature was 8 degrees Celsius, one degree above normal. It is not likely to change much in over the next two days across the plains of northwest India.

1/5/2016 , :DigitalEdition

Earthquake kills 8 in Manipur

YAMBEM LABA

yambemlaba@gmail.com Imphal, 4 January

Eight persons were killed and over 120 injured when a 6.7 magnitude earthquake, epicentredat None sub-division of Manipur's Tamenglong district, today struck the northeastern and eastern regions, damaging buildings and sparking panic that sent people scampering out of their homes.

Speaking to The Statesman, Mr L M Khaute, DGP, confirmed the death toll and said that a team of the National Disaster Relief Force has already arrived from Guwahati and is working in close coordination with the Manipur Police. Relief and rescue operations are on, he added. Speaking to the media, Mr M. Okendro



After the earthquake in Imphal on Monday morning. #SNS

Singh, spokesman for the Ibobi Government and also education minister. said the state government has decided to award an ex gratia of Rs 5 lakhs to the next of kin of each of the deceased and said the government will take care of the medical expenses of all those injured and hospitalised. He said the government has decided to close all the schools across the state to check if the buildings are safe for the students to enter.

The earthquake in Manipur has taken a toll on the iconic Ima Market, which is run entirely by women, and the state secretariat building.The buildings which were damaged included the BSNL building, the Press Club, the church at Leimakhong, the market shed at Saikhul and the newly constructed Ima Keithel in the heart of Imphal. Cracks appeared along the roads in a number of places.

'I opened my eyes and saw ceiling just 1 ft above me'

From a Senapati village that lost a teenager to an Imphal family that lost home, they recount the horrors they woke up to

SAMUDRA GUPTA KASHYAP

SENAPATI, IMPHAL, JANUARY 4

AS THE sun set on the small courtyard, the soft sobs started to turn into wails. It was time to take the body of Geeta Rimal, 19, away for cremation.

Geeta, who read in class-XII, was alive when she was pulled out of the debris after Monday's earthquake had crushed her house in P Moulding Part 1 village in Senapati district, 22 km from Imphal. She died on the way to hospital.

"She was sleeping next to me," said an inconsolable Jashoda Devi, 59, Geeta's mother. "As the earth began to shake, we woke up. But before anyone could open the front door, the house had already collapsed. We managed to crawl out but Geeta was stuck inside. It took about half an hour or more for some men to pull her out."

"Geeta was breathing when we pulled her out, and even when we took her to the hospital about an hour later," said her elder sister Pabitra Devi. "But by the time we reached the hospital, the doctor said she was dead. She was a very good student, and would have gota first division in the exams."

Geeta's father Rupnarayan Rimal, 65, is a petty farmer in this village, situated on a hill-side close to the Army's 57 Mountain Division garrison. Part 2 had 22 houses, all made of mud and boulders. Only six of them remain standing, and two of even these have slanted after the earthquake. "All three parts of this village taken together, 37 houses have collapsed," said Seil un Khongsai, gaonburra, or headman, of the village.

"Down the hill, in village Chingmang, Debamaya Mote, 56, and her granddaughter Darsha Mote were trapped when their RCC house collapsed," said Khongsai. Neighbours realised this only after daybreak and it took them two hours to retrieve the bodies.

In Imphal city, Aruna Devi found herself trapped on the first floor of her three-storey building. "I was fast asleep and woke up only when I heard Maa shouting," said her son R K Ewansana, 20, home for the holidays from Pondicherry Engineering College. "When I opened my eyes, I saw the ceiling just about a foot above me. I thought it was a dream. I came to my senses only when I heard my sister Nitazasana too shouting. It took a lot of time to drag Maa out; her foot was stuck."

Aruna Devi has fractured her right foot. Her husband R K Lansana is an executive engineer in the state PWD, which is, ironically, responsible for construction and maintenance of government buildings.

"I don't remember ever experiencing such a tremor. I faintly remember the great earthquake of 1950, but today's was very big," said Lansana's mother Bino Shija Devi, 71, who was in a smaller, adjacent house. Only one other building collapsed in the city.

Ima Keithel, the historic all-women market, was shut down indefinitely after several pillars of the main building developed cracks. A side wall also collapsed.



Achurch in Leimakhong damaged by the earthquake and (below) Ima Keitheri, Imphal's historic all-women market. Deepak Shijagurumayum

Same fault-line as Nepal and Afghan quakes but scientists are wary of linking them

AMITABH SINHA

NEW DELHI, JANUARY 4

MANIPUR LIES in the same greater Himalayan seismic fault-line as Nepal and Hindu Kush in Afghanistan, but scientists say it would be wrong to link Monday's magnitude-6.7 earthquake and the other two big quakes in the region in the last nine months.

"I would be extremely wary of trying to find any relation among the three earthquakes and attempt to reach conclusions like big earthquakes are increasing in frequency in this area," Vineet Gehlot of National Centre for Seismology said.

Nepal suffered a magnitude-7.8 quakeon April 25 and the Hindu Kush area one of magnitude 7.5 on October 26. The nearly 2,500-km greater Himalayan seismic belt runs from Hindu Kush to Arunachal Pradesh and further down into Southeast Asia.

"Earthquakes are geological processes and it would be wrong to make any conclusions based on events over one or two years, in fact even over a decade. You need much larger datasets, over a few hundred years in the least, to be able to make any worthwhile deductions of such nature," Gehlot said. The epicentre of Monday's earthquake was located in what is known as the "Indo-Burmese arc". In a more populous area with larger houses, the earthquake could have cause more damage. "The construction in this area is largely traditional. There are no highrise buildings, houses are flatter. It is also very sparsely populated area," he said.

Sankar Kumar Nath of IIT Kharagpur said the area is "one of the deadliest earth-quake-prone zones in the world". Some of the biggest earthquakes in India in the last 100 years, including in Shillong in 1897 and in Assam in 1950, have happened in the northeastern region. The 1934 earthquake on the Bihar-Nepal border had also caused widespread devastation in this region.

"Today's earthquake was big but not a great earthquake which is greater than 8 in magnitude. The total amount of energy released was equivalent to about 11 Hiroshima-kind atom bombs," Nath said.

He said the area has the potential to produce much largerearthquakes, though earthquakes cannot be predicted. "It is good that some energy has been released in the form of a relatively smaller earthquake. That will, hopefully, give the fault some time to accumulate greater stress for a bigger earthquake."

New Delhi rushes in 83 rescuers, doctors on way

SAGNIK CHOWDHURY

NEW DELHI, JANUARY 4

THE CENTRE airlifted 83 rescuers of the National Disaster Relief Force from Guwahati to Imphal Monday. Another team of 35 NDRF rescuers was deployed in Silchar.

The dispatch followed a morning meeting of the National Crisis Management Committee (NCMC) chaired by Cabinet Secretary P K Sinha.

The NDMC toll free disaster helpline number 011-1078 can be contacted round the clock, the government said.

A three-member team from Power Grid Corporation reached Imphal for restoration of supply Monday. Connections had snapped in the morning, A team of expert doctors will reach Manipur early Tuesday to assist the state government.

The Centre said the state government has been assured all necessary help. While Prime Minister Narendra Modi and Home Minister Rajnath Singh — who was in Guwahati — spoke on the phone to Manipur Chief Minister Okram Ibobi Singh, Minister of State for Home Affairs Kiren Rijiju reached Imphal from Arunachal Pradesh in the afternoon. Minister of State for Development of the Northeastem Region and in the PMO Jitendra



Singhtoo has reached Imphal

The Centre said there is no shortage of petroleum products with enough stocks for two weeks. The LPG bottling plant at Sekmai has been temporarily shut down, and is likely to resume by Tuesday after inspection and rectification of damages.

The Home Ministry said it was coordinating with National Disaster Management Authority, NDRF, state governments and various central government departments and agencies.

The NCMC meeting was attended by the secretaries for power and telecom, member of NDMA and DG (IMD). Representatives of the ministries of Home and Defence also attended the meeting. The chief secretary of Manipur participated through a video link.

WHERE IT HAPPENED ASSAM (IMPHAL) MYANMAR EPICENTRE Time: 4:35 am Depth: 55 km Estimated modified Perceived Mercalli intensity shaking Weak Light Moderate Strong Very strong

RIPPLE EFFECT

ASSAM: BUILDINGS CRACK At least 20 people were injured in Assam while scores of buildings developed cracks. "Either objects fell on them or they were injured while rushing out of home. We are waiting for detailed reports," Assam commissioner and secretary (disaster management) Pramod Kumar Tiwari said. Kamrup Metropolitan Deputy Commissioner M Angamuthu said at least 15 people were injured in Guwa hati city alone. "Most of them were injured while running out of their homes. They are out of danger. We have also received reports of at least 30 buildings developing cracks," he said. .

BIHAR: 1 DEAD

The earthquake claimed one life in Bihar's Kishanganj district. Harishankar Sah, 60, suffered a cardiac arrest at his home in Garban Danga village and died, Circle Officer Rakesh Kumar said.

BANGLADESH: 5 DEAD

The earthquake in Manipur jolted Bangladesh, prompting people to rush out of their homes and resulting in the death of five persons and injury to nearly 100 others. Disaster expert A SM Maksud Kamal said the intensity of the tremor in Dhaka was above 4. One death each was reported from Dhaka, northwestern Rajshahi, Lalmonirhat, north Jamalpur and northwestern Panchagarh.

Several dilapidated buildings in the old part of Dhaka developed cracks. Asix-storey building tilted and another developed cracks. Several people jumped from the rooftops of their buildings.

ENS & PTI

THEMANHINDU

NATIONAL » OTHER STATES

Published: January 4, 2016 16:12 IST | Updated: January 4, 2016 21:43 IST Srinagar, January 4, 2016

Fresh snowfall drapes Kashmir in white

• Special Correspondent



Boys cross a snow-covered footbridge in Tangmarg, about 45 km north of Srinagar on Monday. Photo: Nissar Ahmad



Monkeys huddle together for warmth during heavy snowfall in Tangmarg, about 45 km north of Srinagar on Monday. Photo: Nissar Ahmad

Fresh snowfall draped the Kashmir valley in white blanket and brought much-await cheer among locals and tourists on Monday, as first twelve days of the 40-day harshest winter spell went without any snowfall.

"We witnessed snowfall first time today. We have reached Srinagar on December 30 and were eagerly waiting for the snowfall. We enjoyed the flakes since the morning', said Sumit Kohli, a tourist from New Delhi.

Rains and snowfall lashed the valley since Monday morning. The minimum temperature rose from minus 3.9 degrees Celsius to 2.2 degree Celsius, while the day temperature rose to 3.3 degree Celsius.

MeT Director, Sonam Lotus said most of the higher reaches of the Valley, including Srinagar, Shopian and Anantnag, experienced snowfall. "The weather will improve from Tuesday. No snowfall or rain is expected in the next three to four days," Lotus added.

Fresh snowfall affected traffic along the Srinagar-Jammu National Highway-connecting Kashmir with rest of the world.

However, minimum temperature remained subzero in tourist spots of Gulmarg, while Pahalgam recorded a minimum of -0.4 degrees Celsius.

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7 killed, over 70 injured as quake jolts Manipur

6.7 MAGNITUDE Rescue workers say death toll expected to rise, PM Modi assures all possible help

Sobhapati Samom

letters@hindustantimes.com

IMPHAL: At least seven people were killed and more than 70 injured on Monday when a powerful, 6.7-magnitude earth-quake struck Manipur and other Northeast states before dawn, toppling concrete buildings and splitting open roads across the highly seismic region.

Six of the deaths were in Manipur while one person died of heart attack while fleeing a building in Assam, which also saw damage to buildings and historical monuments dating back to the 15-16th centuries. The dead in Manipur included an 11-year-old girl.

Rescue workers in Manipur's capital Imphal, which was severely affected, said the toll could rise as there was possibility of people still trapped inside some damaged buildings.

Officials said flow of information from the state's hilly interior areas was hampered by severed power lines and telecommunication links.

According to the meteorological department, the epicentre of the 4.30 am quake was in Tamenglong district at a depth of 17km.

Prime minister Narendra Modi spoke to Union home minister Rajnath Singh who is in Guwahati and took stock of the situation. Modi also spoke to Manipur chief minister Okram Ibobi Singh and assured all help.

Union minister state for home Kiren Rijiju and DoNER minister Jitendra Singh also arrived in Imphal later in the day.

"The government will provide whatever possible help," Ibobi Singh told newsmen outside the Regional Institute of Medical Sciences (RIMS) in Imphal, before he held an emergency



Security personnel walk past a collapsed building in Imphal on Monday.

AFP PHOT

ASSAM
INDIA

NATURE'S FURY

- At least seven people were killed and more than 70 injured
- According to the Met department, the epicentre was in Tamenglong district, at a depth of 17km

meeting with his cabinet ministers on the relief measures.

Panicstrickenpeople rushed out of their beds and homes, groggy and disoriented, when the earth-quake struck. A four-storey concrete building collapsed at Kabo Leikai in Imphal though all the people managed to rushed out to safety. One woman suffered injuries in the building collapse.

Teams of the NDRF were rushed from Guwahati to join state government workers, troops of Assam Rifles, Red Cross volunteers in rescue operations.

In Guwahati, too, cracks appeared on walls in several buildings in the city. Immediately after the quake, the Northeast Frontier Railway suspended train movement for two hours after cracks were spotted on tracks. The shockwaves were felt in West Bengal and Bihar besides Myammar and Bangladesh, where three people died of heart attack.

(With inputs from Chitra Ahanthem in Imphal and HTC Guwahati)

Iconic Mothers' Market damaged

Rahul Karmakar and Sobhapati Samom

letters@hindustantimes.com

GUWAHATI/IMPHAL: A part of the landmark all-women market in Manipur's capital Imphal was damaged after Monday's early morning earthquake that killed six people, including a minor, and injured more than 70 in the state

The 150-year-old Ima Keithel or Mothers' Market complex, which is run exclusively by women, was damaged in the quake. Officials said a few buildings also collapsed and an arterial bridge was damaged.

Some 4,000 women vendors arrive early morning at this market complex in the city's Khwairamband area to sell their wares till sundown. The quake

THE 150-YEAR-OLD
IMA KEITHEL OR
MOTHERS' MARKET
COMPLEX, IS RUN
EXCLUSIVELY BY WOMEN

prevented many of them from carrying out their business, but many were thankful the quake happened at a time when the vendors were yet to arrive.

"Some of us would not have been alive to tell the tale had the quake occurred during business hours. God perhaps saved us by issuing a warning about the quality of construction of the market complex," A Memba Devi, a vendor, said.

The $6.7\,\mathrm{magnitude}$ earthquake that hit the country's remote

northeast region killed at least seven people, injured more than 70 and caused damage to several buildings. Tremors were also felt across the belt, including in the bordering regions of Myanmar, Bangladesh and Tibet.

Officials confirmed six deaths in Manipur but said the casualty could go up, as they awaited reports from remote areas of Tamenglong district that bore the brunt of the quake. The epicentre was 17km below Noney village in that district.

The panicky vendors refused to open shop in their allotted space within the complex and protested poor facilities by blocking the main road leading to the market.

Ima Keithel is iconic not only for trading by women but was also the launching pad for various agitations.



NATIONAL

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Indian climate models to aid future IPCC reports

• Jacob Koshy

The climate models will be prepared by the Pune-based Centre for Climate Change Research

India will have its own climate change models to project the impact of global warming over the decades and these will form part of the forthcoming Sixth Intergovernmental Panel on Climate Change Reports that is expected to be available in 2020.

The IPCC reports — there have been five so far since 1988 — are coordinated by the United Nations and bring together the scientific consensus on the causes and impact of climate change. They also assess the extent to which the globe is expected to warm up over the medium and long term.

"We will be working on our own models and projections and have to make our first submission by 2018," said Madhavan Rajeevan, Secretary, Ministry of Earth Sciences, at the Indian Science Congress here.

Crucial at Paris summit

The IPCC's fifth report in 2014, was critical in shaping the resolution at the recently concluded climate talks in Paris that all countries — developed and developing — had to, over time, do their bit to contain their greenhouse gas emissions to keep ensure that mean global temperatures did not rise beyond 1.5 to 2 degree of temperature in the 19th century.

As per the Paris Agreement, which will come into effect in 2020, India and several other countries will have report their emissions as well as detailed plans to curb them.

The climate models, being developed by the Earth Sciences Ministry, will be prepared by the Pune-based Centre for Climate Change Research.

These are so-called dynamic models that rely on super-computers to compute the weather on a given day and simulate how it would evolve over days, months and even years. These models, developed in the United States, have over few years been customised to Indian conditions. "Their ability to predict the Indian monsoon has consistently improved over the years, "said Mr. Rajeevan, "and now over the next few years they should be able to project climate over the decades."

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भूकम्प के झटको से बंगाल भी दहला कि न

कोलकाता में भी कांपी धरती, दो मरे, 20 से अधिक घायल

दहशत से सड़कों पर निकले लोग

कोलकाता. भूकम्म के झटकों से पश्चिम बंगाल भी दहल गया। सोमवार तड़के 4.35 बजे महसूस किए गए भूकम्म के झटकों ने दो लोगों की जान ले ली। 20 से अधिक घायल हो गए। मौसम विभाग के अनुसार, सोमवार तड़के 4.35 बजे महानगर सहित उत्तर पूर्वी राज्यों में भूकम्म के झटके महसूस किए गए। रिक्टर स्केल में इसकी तीव्रता 6.7 मापी गई है। झटकों से बंगाल में अब तक सम्पति के नुकसान की कोई सूचना नहीं मिली है। वहीं भूकंप के

झटकों से दहशत में आकर मुर्शिदाबाद के लालबाग व बर्दवान के कालना में एक एक जनों के मारे जाने की सूचना मिली है।

मिली जानकारी के मृताबिक मुर्शिदाबाद के लालबाग निवासी नौशाद शेख (58) भूकम्प की खबर पाकर घर से तेजी से निकलने की कोशिश कर रहे थे। इसी दौरान वे गिर पडे और उनकी मौत हो गई। वहीं, बर्दवान के कालना में शान्ति विश्वास (55) को भूकम्प की खबर सनने के बाद हार्ट अटैक आ गया और वे मारे गए। सिलीगुड़ी, दार्जिलिंग सहित उत्तर बंगाल में 20 से अधिक लोग छिटपुट चोटों के कारण अस्पताल में भर्ती हुए। महानगर में भी भूकम्प के झटके महसूस कर लोग सुबह सबेरे घर से बाहर इकट्ठा हो गए। लोगों की नींद उड़ी रही। दिन भर भूकम्प के ही चर्चे रहे।



श्रीनगर. श्रीनगर शहर में सोमवार को इस मौराम की सबसे ज्यादा बर्फबारी हुई। गुलमर्ग और पहलगाम में पारा शून्य से नीचे चला गया। कश्मीर के मैदानी इलाकों में भी बर्फ के साथ बारिश हुई। पहलगाम और गुलमर्ग में रात भर हल्की बर्फबारी हुई, वहीं मैदानों में सुबह से ही बर्फबारी हुई। गुलमर्ग के स्कीइंग रिसॉर्ट में सुबह 8.30 बजे तक तक सात इंच बर्फबारी हुई। पूर्वोत्तर भारत भूकंप से दहला, नी लोगों की मौत

इंफाल/ गुवाहाटी | एजेंसिया

देश के पूर्वोत्तर और पूर्वी क्षेत्र में सोमवार को 6.7 की तीव्रता के भूकंप का तगड़ा झटका महसूस किया गया। इसमें कम से कम नौ लोगों की मौत हो गई जबिक 100 से अधिक घायल हो गए। सुबह 4.35 बजे आए भूकंप का केंद्र मणिपुर के तमेंगलोंग जिले में 17 किलोमीटर की गहराई पर था। सेना और वायुसेना के जवान राहत कार्य में मदद कर रहे हैं जबिक एनडीआरएफ की टीमों को इंफाल भेजा गया है।

मणिपुर के पश्चिम इंफाल जिले में 11 वर्षीय एक लड़की सहित सात लोगों की मौत हो गई। वहीं बिहार और पश्चिम बंगाल में एक-एक लोग की मौत हो गई। भूकंप के झटके मणिपुर, असम, अरुणाचल प्रदेश, मेघालय, नागालैंड, मिजोरम, त्रिपुरा के अलावा बिहार. झारखंड और पश्चिम बंगाल में भी महसस किए गए। मेघालय के क्षेत्रीय भूकंप केंद्र के मुताबिक, पूर्वोत्तर भारत के अलावा म्यांमार, बांग्लादेश व भटान में भी भकंप के झटके महसूस किए गए। मणिपर के सीएम ओकराम इबोबी सिंह ने स्थिति की समीक्षा के लिए मंत्रिमंडल बैठक बलाई है। आपदा प्रबंधन के समन्वयक सरत दास ने बताया कि मणिपर में भकंप से सात की मौत और 90 से अधिक घायल हए।

भारी नुकसान हुआ: कैबिनेट सचिव पी.के. सिन्हा ने बताया कि इंफाल में बिजली की आपूर्ति बाधित हुई है। इंफाल



इंफाल में सोमवार को भूकंप से क्षतिग्रस्त इमारत में राहत-बचाव कार्य में जुटे सेना के जवान और स्थानीय लोग। • प्रेट

में बाजार परिसर सहित कई इमारतों और सड़कों में भूकंप की वजह से दरारें आ गईं और स्कूल की कुछ इमारतों की दीवारेंगिर गईं। गुवाहाटी और असम के अन्य इलाकों में भूकंप के कारण करीब 20 लोग घायल हुए हैं जबकि कम से कम 30 इमारतों में दरारें आई हैं।

मैं असम के दौरे पर गए गृहमंत्री राजनाथ सिंह के संपर्क में हूं, पल पल की खबर ले रहा हूं। -नरेंद्र मोदी, पीएम

केंद्र सरकार मणिपुर और अन्स प्रभावित राज्यों को हर आवश्यक सहायता मुहैया कराएगी। हमने गृह राज्य मंत्री किरण रिजिजू से बात की है। वह स्थिति की निगरानी करने के लिए अरुणाचल प्रदेश से इंफाल पहुंचेंगे। -राजनाथ सिंह, गृह मंत्री

मैं कोलकाता में हूं और मुझे सुबह तकरीबन 4:30 बजे झटके महसूस हुए, मेरा बेड हिला। सुबह भूकंप की पुष्टि हुई है। सभी की सलामती के लिए दुआएं। अमिताभ बच्चन, अभिनेता

बिहार में एक मरा

भूकंप के कारण बिहार के किशनगंज जिले में एक व्यक्ति की हृदय गति रुकने से मौत हो गई। मृतक की पहचान हरिशंकर साह के रूप में हुई है। साह कए आमानी पंचायत के गरबन दंगा गांव के रहने वाले थे।

सेना जुटी बचाव अभियान में

मणिपुर के प्रभावित इलाकों में सेना और वायु सेना ने राहत एवं बचाव कार्य शुरू कर दिया है। एएन32 विमान एनडीआरएफ के 75 जवानों को लेकर गुवाहाटी से इंफाल गया। जरूरत एड़ने पर हिंडन एयर बेस पर एक सी17 ग्लोबमास्टर और आईएल76 विमान को तैयार रखा गया है।

मंत्रालय जायजा लेगा

जमीनी हकीकत का जायजा लेने के लिए स्वास्थ्य मंत्रालय तीन सदस्यीय एक दल को मंगलवार को वहां भेजेगा। स्वास्थ्य मंत्री जयप्रकाश नड्डा ने कहा कि उनका मंत्रालय पूर्वोत्तर के राज्यों के साथ लगातार संपर्क में है।

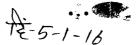
५० साल में बड़ा झटका

मिजोरम की राजधानी एजल में भूकंप महसूस करने पर लोग सुरक्षित स्थानों पर जाने के लिए अपने घरों से बाहर निकल भागे। एजल के निवासी लालचुएलोवा ने बताया कि बीते 50 साल में उन्होंने पहली बार इतना तेज भूकंप महसूस किया।

केंद्र गंगा सफाई पर स्पष्ट जवाब दे

नई दिल्ली। राष्ट्रीय हरित अधिकरण ने सोमवार को केंद्र और उत्तर प्रदेश सरकार को निर्देश दिया कि वह गंगा को साफ कर उसे पुनर्जीवन देने से जुड़े मामले पर स्पष्ट जवाब दें। एनजीटी ने सरकार से पूछा है कि हरिद्वार से कानपुर तक गंगा को साफ करने के लिए अब तक क्या कदम उठाए गए हैं। इस बारे में विस्तृत योजना पेश करें। जिस्टस स्वतंतर कुमार की अध्यक्षता

जस्टिस स्वतंतर कुमार की अध्यक्षता वाली पीठ ने केंद्रीय प्रदूषण नियंत्रण बोर्ड (सीपीसीबी), पर्यावरण मंत्रालय, जल संसाधन मंत्रालय, उत्तर प्रदेश प्रदूषण नियंत्रण बोर्ड, यूपी जल निगम एवं राज्य सरकार गंगा को पुनर्जीवन प्रदान करने के लिए प्रक्रिया अपना रहे हैं। (वि.सं.)



6.8 के भूकंप से दहला नॉर्थ-ईस्ट

एजेंसियां, इंफाल/गुवाहाटी

नॉर्थ-ईस्ट के राज्यों में सोमवार तड़के 4:35 पर तेज भूकंप आया। इसमें कम से कम 9 लोगों की जान चली गई। 100 से ज्यादा घायल हो गए। इस भूकंप की तीव्रता 6.8 थी। इस भूकंप ने पड़ोसी देश-म्यांमार, बांग्लादेश और भूटान को भी हिला दिया। तिब्बत में भी झटके महसूस हुए। इसका केंद्र मणिपुर के तमेंगलोंग जिले में 17 किमी की गहराई पर था।

इंफाल में ज्यादा नुकसान

मिणपुर में सबसे ज्यादा छह लोगों की जान गई और 70 लोग घायल हुए हैं। वहीं असम में 20 लोग घायल हुए हैं। अधिकारियों ने बताया कि मिणपुर के इंफाल जिले में तीन, सेनापित में दो और इंफाल ईस्ट में एक की जान गई है। इंफाल में एक छह मंजिला इमारत पूरी तरह नष्ट हो गई। एक शॉपिंग कॉम्पलेक्स में दीवार वह गई। कई इमारतों व सड़कों पर दरार पड़ गई। साथ ही बिजली सप्लाई भी प्रभावित हुई। असम में कम से कम 30 इमारतों में दरारें आई हैं। बिहार के किशनगंज में भूकंप के झटके के कारण एक व्यक्ति की दिल की धड़कन रुकने से मौत हो गई।

सेना और वायु सेना राहत कार्यों में हाथ बंटा रहे हैं। नैशनल डिजास्टर रिस्पॉन्स



फोर्स की दो टीमों को इंफाल भेजा गया है। दिल्ली से एनडीआरएफ की एक टीम, डॉक्टरों की एक टीम और इलेक्ट्रिक इंजीनियरों की एक टीम को इंफाल भेजा गया है। पीएम मोदी और गृहमंत्री राजनाथ सिंह ने मिणपुर और असम के सीएम से बातकर स्थिति का जायजा लिया। वहीं बांग्लादेश में भूकंप से पांच लोगों की मौत और करीब 100 लोग घायल हो गए। सभी मौतें अफरा-तफरी के दौरान दिल का दौरा पड़ने से हुई। एक मौसम विज्ञानी ने कहा कि ढाका में भूकंप सुबह 5.05 बजे आया। भूकंप की खबर आते ही अमिताभ बच्चन ने अपने पिता कवि हरिवंश राय बच्चन की ये पंक्तियां ट्वीट कीं आज देश के ऊपर कैसी

काली रातें आई हैं। मातम की घनघोर घटाएं कैसी जमकर छाई हैं। लेकिन दृढ़ विश्वास मुझे हैं वह भी रातें आएंगी, जब यह भारतभूमि हमारी दीपावली मनाएंगी।

11 राज्यों में असर...

- मणिपुर, असम, अरुणाचल प्रदेश, मेघालय, नगालैंड, मिजोरम, त्रिपुरा, पश्चिम बंगाल, झारखंड, बिहार और सिक्कम में असर पड़ा है।
- पहला झटका सोमवार तड़के 4 बजकर, 37 मिनट पर आया। केंद्र म्यांमार-इंडिया बॉर्डर पर इंफाल से 33 किमी दूर जमीन से 17 किमी नीचे था



बार-बार भूकंप

- भारत-म्यांमार सीमा
 में भारत और यूरेशिया की
 टेक्टॉनिक प्लेटें टकराई
 थीं जिनसे हिमालय
 बना था।
- यूएस जियॉलजिकल सर्वे के मुताबिक, दोनों भूगर्भीय प्लेटें हर साल 40 से 50 मिमी की दर से पास आ रही हैं जिससे इलाके में भूकंप बार-बार आ रहे हैं।

असम में थे मंत्री

- भूकंप के बाद पीएम नरेंद्र मोदी ने ट्वीट कर कहा कि गृह मंत्री राजनाथ असम में ही हैं। उनसे भूकंप के हालात पर बात हुई। वे नजर रख रहे हैं।
- केंद्रीय मंत्री निर्मला सिलिगुड़ी के गवर्नमेंट गेस्ट हाउस में थीं। उन्होंने बताया कि जब भूकंप आया तो मेरा कमरा बुरी तरह हिल गया।