

Topics

- Igla -s
- Delhi waste management
- CODEX
- Flash flood in indonesia
- Cold lava
- **Mains**



By saurabh Pandey



THE HINDU

Target Mains -2024/25

Q "Cold lava is a bigger threat than landslide"
Explain

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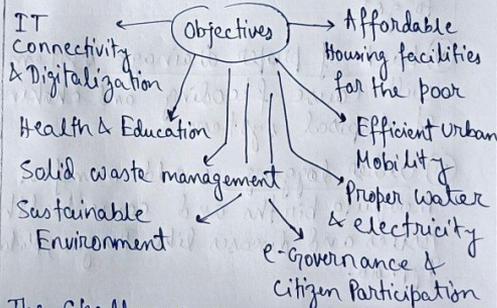
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Kunal Roy.

11Q

Messy Urbanisation is the biggest challenge for the smart city mission. Discuss (10)

The objective of Smart City Mission is to promote cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment through application of 'Smart' solutions.



The Challenges are:-

- (i) Improper planning of the cities has covered up the water bodies and aquifers, also caused forests to be cut down.
- (ii) Lack of greenery has led to the formation of Urban Heat Islands.

(iii) The area chosen for developing such cities could be the habitat of animals, which would be displaced..

(iv) Displacement of the poor, the street vendors and slum ~~de~~ dwellers ought to happen, with them nowhere to go.

(v) Lack of proper drainage system will cause flooding and choking of disposal system.

(vi) Water logging would manifest mosquito births and cause health issues and diseases like Dengue, Malaria, Typhoid.

Due to all these reasons, and messy urbanisation, the Smart City Mission is being slowed down and may be on the path of failure.

Army set to receive next batch of shoulder-fired Igla-S air defence systems



Dinakar Peri

NEW DELHI

The Army is all set to begin receiving another set of Russian Igla-S very short range air defence systems (VSHORAD) by the end of May or early next month, filling a critical void in its air defence requirements which has been repeatedly delayed.

In another development, multiple sources confirmed that the payments issue between India and Russia that has held up critical payments for defence deals as well as payments has been resolved.

The Igla-S systems were contracted last year under the fourth tranche of



The Igla-S system.

Emergency Procurements (EP) and are being assembled by Adani Defence Systems And Technologies Limited (ADSTL) in India under technology transfer from Rosoboronexport, multiple official sources confirmed.

The Army is also set to receive the first of two Israeli Hermes-900 Medium Altitude Long Endurance

Unmanned Aerial Vehicles (UAV) assembled by ADSTL in Hyderabad next month.

Last year, the Army contracted 48 Igla-S launchers, 100 missiles, 48 night sights, and one missile testing station under a ₹260 crore contract and deliveries are set to begin by end of this May, a source said.

The missile will be imported and some parts like sights, launcher, and battery will be assembled/manufactured here by Adani defence, another source in the know said.

A VSHORAD is the soldier's last line of defence against enemy combat aircraft, helicopters and UAVs in the multilayered air defence network.

Igla -S



- **"Igla-S" man-portable air defence missile system is designed to engage all types of visible fixed- and rotary-winged aircraft on head-on and pursuit courses as well as small-sized air targets like cruise missiles around the clock under thermal and background noise.**
- **powerful anti-aircraft missile system from Russia**
- **The Army is all set to begin receiving another set of Russian Igla-S very short range air defence systems (VSHORAD)**



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On Delhi's mounting waste crisis

As the national capital, Delhi needs to scale up its processing capacity to manage daily waste. The quantity of waste is expected to increase in the coming years together with the per capita waste generation

EXPLAINER

Pradeep Dadlani
Pushkara S.V.

The story so far:

The Supreme Court's recent criticism of solid waste management (SWM) in New Delhi highlights a critical issue. The national capital has more than 3,800 tonnes of solid waste remaining untreated. This waste reaches landfills and threatens public health and the environment.

What is the status of Delhi's SWM system?

According to the 2011 Census, New Delhi's population was about 1.7 crore, which in 2024 is expected to be around 2.32 crore. Considering an average per capita generation of about 0.6 kg/day per person, the city generates approximately 13,000 tonnes per day (TPD) of waste – roughly 1,600 truckloads – which adds up to about 42 lakh tonnes per annum. The city's population is expected to rise to 2.58 crore by 2031, so waste generation could go up to 17,000 TPD.

About 50% of the waste generated in the city is collected by the three municipal corporations: the Municipal Corporation of Delhi (MCD), Delhi Cantonment Board, and the New Delhi Municipal Corporation. Generally, about 50-55% of the waste generated in Indian cities is biodegradable wet waste; 3% is non-biodegradable wet waste; and 10% is an inert component. Accordingly, 7,000 TPD would be wet waste; 4,800 TPD dry waste; and 2,000 TPD inert.

What about the processing capacity of SWM in Delhi?

New Delhi has waste-processing facilities at Okhla, Bhalawa, Narela, Rawana, Tehkhand, SMA Industrial Area, Nishta, and Ghazipur. These facilities have a collective design capacity of about 5,200 TPD. This includes composting facilities handling around 900-1,000 TPD and waste-to-energy projects of 6,200 TPD.

However, the MCD is disposing of unprocessed waste of 3,800 TPD in the three designated landfills: Gazipur, Bhalawa, and Okhla. These landfills, consisting of unprocessed wet and dry waste, generate methane gases, leachates, and cause landfill fires, adversely affecting the surrounding environment. The accumulation of unprocessed waste in these landfills has led to a staggering 2.58 crore tonnes of legacy waste piling up over 200 acres of land. The MCD initiated binning to reduce the amount of waste in 2019, but the COVID-19 pandemic halted these efforts. Initially planned to be completed by 2024, this task will take another two-to-three years to complete.

However, the environmental impact will persist until fresh waste is scientifically processed. With the current accumulation of 3,800 TPD of unprocessed waste, the landfills will only become larger and taller.

What are the MCD's challenges?

The MCD faces several challenges in tackling waste within the city. One major issue is the lack of waste segregation at source. Many households and commercial establishments don't do this. As a result, unprocessed mixed waste enters landfills. Additionally, waste processing plants need large land parcels, of about 30-40 acres each, which is a challenge in Delhi. This challenge in turn leads to a significant portion of waste being left untreated.



Garbage tower: Rag pickers seen collecting items from the Bhalawa landfill in New Delhi on December 16, 2020. SHRI KUMAR PUSHPAKHARI

Public awareness of proper waste management practices is also lacking, contributing to littering and improper disposal habits, which divert the MCD's attention towards clearing open points rather than processing wet waste. Lack of regular waste collection services in certain areas also add to the buildup of waste as well as littering, while illegal dumping in open areas and water bodies increases the pressure on the municipal body, warranting more resources for clean-up.

Finally, a lack of coordination among various stakeholders – including multiple municipal corporations – results in inefficient waste management, further complicating the MCD's efforts to address the city's waste management issues.

What efforts need to be made in order to separate the waste?

As the national capital, Delhi needs to scale up its processing capacity to manage daily waste. The quantity of waste is expected to increase in the coming years together with the per capita waste generation. Biodegradable wet waste should be

composted or used to generate biogas. The design capacity of the wet waste-processing system should be set at 9,000 tonnes. Typically, the capacity of composting facilities is around 500 tonnes per day, which means Delhi will need at least 18 composting or biogas plants to ensure no biodegradable wet waste reaches landfills. This will demand significant efforts from the MCD to identify land, set up composting facilities, and operate them.

As for the non-biodegradable dry waste, about 2% will be recyclable, and this can be sent to recycling facilities. The remaining 33% won't yet be recyclable. The non-recyclable dry waste fraction is called refuse-derived fuel (RDF) and consists of plastics, paper, and textile waste. This material has good calorific value and can be used to generate power in waste-to-energy projects.

Although the cost of power generation through waste-to-energy projects tends to be slightly on the higher side, the objective is to scientifically manage waste and mitigate environmental impacts, rather than power generation.

Can waste processing be decentralised?

Given the challenges with identifying large land parcels, Delhi will need to

partner with its neighbouring States to set up a few of these composting plants. Additionally, the market for organic compost produced from wet waste lies in the neighbouring States of Haryana and Uttar Pradesh.

Delhi city has 272 wards. States like Tamil Nadu and Kerala have set up decentralised Micro-Composting Centres (MCC) of five TPD capacity at the ward level. These MCCs can manage about 20% of the city's wet waste. Bengaluru has also set up ward-level Dry Waste Collection Centres (DWCC) of 2 TPD capacity each. These DWCCs can help manage about 10% of the dry waste.

Delhi's SWM system should integrate decentralised options for both wet and dry waste, backed by large processing facilities to ensure all the waste generated is scientifically processed. The city must also ensure existing processing facilities operate at full capacity, while new facilities are built to ensure no waste goes untreated. Finally, urban local bodies should also learn from best practices from other cities in India and abroad on

scientific waste processing. It works with Sycom Projects and Consultants, Delhi, and is a senior SWM expert. Pushkara S.V. works with the Indian Institute for Human Settlements, Bengaluru, and is a practitioner in SWM.

THE GIST

▼ In Delhi, considering an average per capita generation of about 0.6 kg/day per person, the city generates approximately 13,000 tonnes per day (TPD) of waste – roughly 1,600 truckloads – which adds up to about 42 lakh tonnes per annum.

▼ The MCD faces several challenges in tackling waste within the city. One major issue is the lack of waste segregation at source. Many households and commercial establishments don't do this.

▼ Delhi's SWM system should integrate decentralised options for both wet and dry waste, backed by large processing facilities to ensure all the waste generated is scientifically processed.

Delhi waste management



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- The MCD faces several challenges in tackling waste within the city. One major issue is the lack of waste segregation at source.
- Many households and commercial establishments don't do this.
- Delhi's SWM system should integrate decentralised options for both wet and dry waste, backed by large processing facilities to ensure all the waste generated is scientifically processed.



What efforts need to be made in order to separate the waste?

- **As the national capital, Delhi needs to scale up its processing capacity to manage daily waste.**
- **The quantity of waste is expected to increase in the coming years together with the per capita waste generation**
- **Biodegradable wet waste should be composted or used to generate biogas.**
- **As for the non-biodegradable dry waste: about 2% will be recyclable, and this can be sent to recycling facilities.**



The non-recyclable dry waste fraction is called refuse-derived fuel (RDF) and consists of plastics, paper, and textile waste.

This material has good calorific value and can be used to generate power in waste-to-energy projects.

Although the cost of power generation through waste-to-energy projects tends to be slightly on the higher side, the objective is to scientifically manage waste and mitigate environmental impacts, particularly those arising from landfill fires. □

Spices Board, CODEX discuss ETO limits



Growing share: In 2023-24, India's spice exports reached \$4.25 bn or 12% share of the global spice exports. *SL

Amiti Sen
NEW DELHI

The Spices Board has taken up with CODEX, the international food standards body, the crucial issue of setting limits for ethylene oxide (ETO) usage in spices. This follows the recall of certain branded spices exported by Indian companies to Hong Kong and Singapore on concerns related to ETO (ethylene oxide) contamination.

"India has taken up with the CODEX committee the need for setting up limits for ETO usage as different countries have different limits. CODEX has not prescribed a limit so far. Also, there is no standard for ETO testing. India has also given a proposal for that," an official told *businessline*.

ETO, a chemical used as a sterilising agent in spices, is considered carcinogenic when used beyond certain limits.

While work to prevent contamination needs to be intensified, India's sample failure in spices is less than 1% of its exports in major markets, the official added.

Mandatory order

"The Spices Board has taken steps to ensure the safety and quality of Indian spice exports to Hong Kong and Singapore. The board has made it mandatory to test such consignments destined to these two countries," the official said.

The total value of India's spice exports reached \$4.25 billion, accounting for a 12% share of the global spice exports.

(The writer is with *The Hindu businessline*)



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- **This follows the recall of certain branded spices exported by Indian companies to Hong Kong and Singapore on concerns related to ETO (ethylene oxide) contamination.**
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- **ETO, a chemical used as a sterilising agent in spices, is considered carcinogenic when used beyond certain limits.**
-



CODEX

- **The Codex Alimentarius, or "Food Code" is a collection of standards, guidelines and codes of practice adopted by the Codex Alimentarius Commission.**
- **The Commission, also known as CAC, is the central part of the Joint FAO/WHO Food Standards Programme and was established by FAO and WHO to protect consumer health and promote fair practices in food trade. It held its first meeting in 1963**



- **Codex standards ensure that food is safe and can be traded.**
- **The 188 Codex members have negotiated science based recommendations in all areas related to food safety and quality. Codex food safety texts are a reference in WTO trade disputes.**
- **The reference made to Codex food safety standards in the World Trade Organization's Agreement on Sanitary and Phytosanitary measures (SPS Agreement) means that Codex has far reaching implications for resolving trade disputes.**



- **Since its foundation in 1963, the Codex system has evolved in an open, transparent and inclusive way to meet emerging challenges. International food trade is a 2000 billion dollar a year industry, with billions of tonnes of food produced, marketed and transported**

Indonesian rescuers carry on with complex search mission after flash floods

Agence France-Presse
TANAH DATAR

Along debris-filled rivers and mud-caked roads, rescuers on Wednesday dugged with tools and their bare hands through the wreckage after frightening flash floods and volcanic debris deluged areas near one of Indonesia's most active volcanoes.

In Sumatra island's Tanah Datar district, hundreds of workers raced to find 35 people still unaccounted for after houses were swept away at the foot of Mount Marapi in the dark of night on Saturday, as the clock ticked on the complex rescue mission.

Soldiers, marines, police and volunteers armed with rubber boats were getting involved in the rescue effort along professional search teams.

"We have been scouring the areas that cannot be reached with cars. The currents in the river are extreme, so the search is quite dangerous," said Ritno Kurniawan, a member of the local rafting community.

"We usually found the bodies along the riverbanks, buried under volcanic material or rocks."

The search – now in its fourth day – has been made more difficult by the prospect of further heavy rains and transport access being cut on several key roads by collapsed bridges or mud that had solidified.

The floods killed at least 58 people across six districts in West Sumatra province, injuring dozens and forcing more than 3,300 people to evacuate to temporary shelters.

Authorities turned to heavy machinery and technology to aid the rescue effort – using cloud



All together: Indonesian rescue teams move logs as they search for flood victims at Batu Taba Village in Sumatra on Tuesday. AFP

well as calling on K-9 dogs and thermal drones to find bodies.

Provincial search and rescue official Hendri, who goes by one name, said rain, stacks of logs and large volcanic rocks in rivers were hindering the search.

Rescuers were also worried about another flash flood or cold lava flow known as a *lahar*, where volcanic material is swept down from a volcano's slopes by heavy rains.

Survivors in shock

Survivors were still in shock from the disaster, including some who lost their relatives and friends when large volcanic rocks and muddy waves suddenly crashed into their neighbourhoods.

Some tried to clear their houses of mud and collect their belongings, while others appeared stunned. "I am exhausted, but it is our responsibility," he said. "It's a calling from hu-

year-old mother and three children of his nieces – two who were teenagers and one five years old, he said. "The rescuers have sent dogs, bloodhounds, and drones but they still have not been found," he said.

"I still have hope, but if they are no longer alive, I will accept it. I will let God handle it. This is fate, I can't deny it."

At his mother's home, most of the windows and doors were blown out while large logs piled up against the house, which had been flooded by mud.

The lack of visibility was stopping the multi-pronged search effort during the night.

That was lowering survival hopes for those missing before a "golden period" of seven days runs out by the weekend.

But volunteer rescuers like Ritno remained un-

- Indonesian authorities seeded clouds on , trying to prevent further rain and flash floods after deluges that hit Sumatra Island .
- Monsoon rains triggered a landslide of mud and cold lava from Mount Marapi, eventually causing rivers to breach their banks.
- Heavy rains cause frequent landslides and flash floods in Indonesia, an archipelago nation of more than 17,000 islands where millions of people live in mountainous areas or near floodplains.

Cold lava flood from Mt. Marapi and widespread flooding hits Indonesia

Death toll has risen to 41, with 17 people missing following a cold lava flood from Mt. Marapi in Indonesia's West Sumatra province



What is cold lava ?

Cold lava, also known as lahar, is volcanic material like ash, sand and pebbles carried down a volcano's slopes by rain.

Indonesia is prone to landslides and floods during the rainy season.

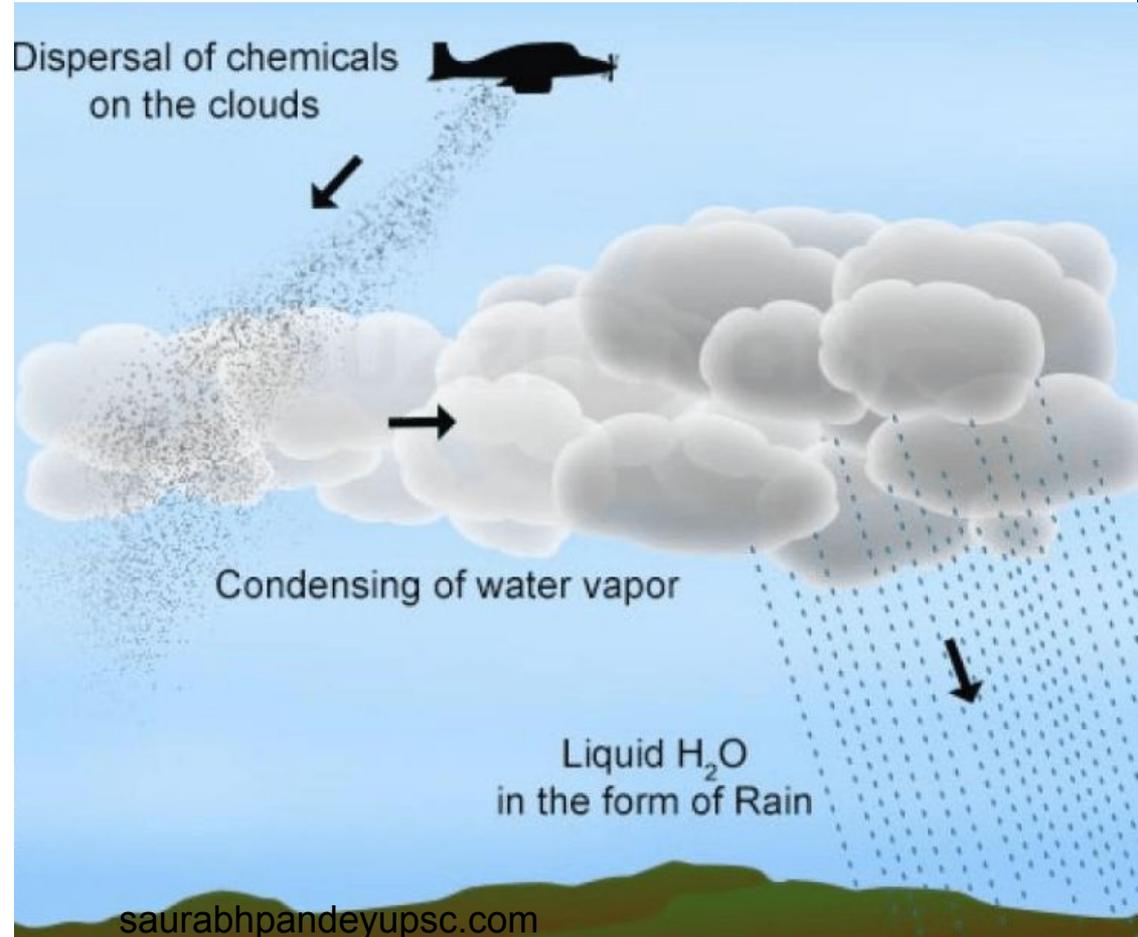
carried cold lava down from Mount Marapi, the most active volcano in Sumatra

Cold lava, also known as lahar, is a mixture of volcanic material and pebbles that flow down a volcano's slopes in the rain.

- **Cold lava, also known as "lahar" in Javanese, comprises a mixture of water and rock fragments that flows rapidly down the slopes of a volcano, entering river valleys and spreading across wide areas.**
- **This cold lava can flow at speeds of hundreds of kilometers**
..

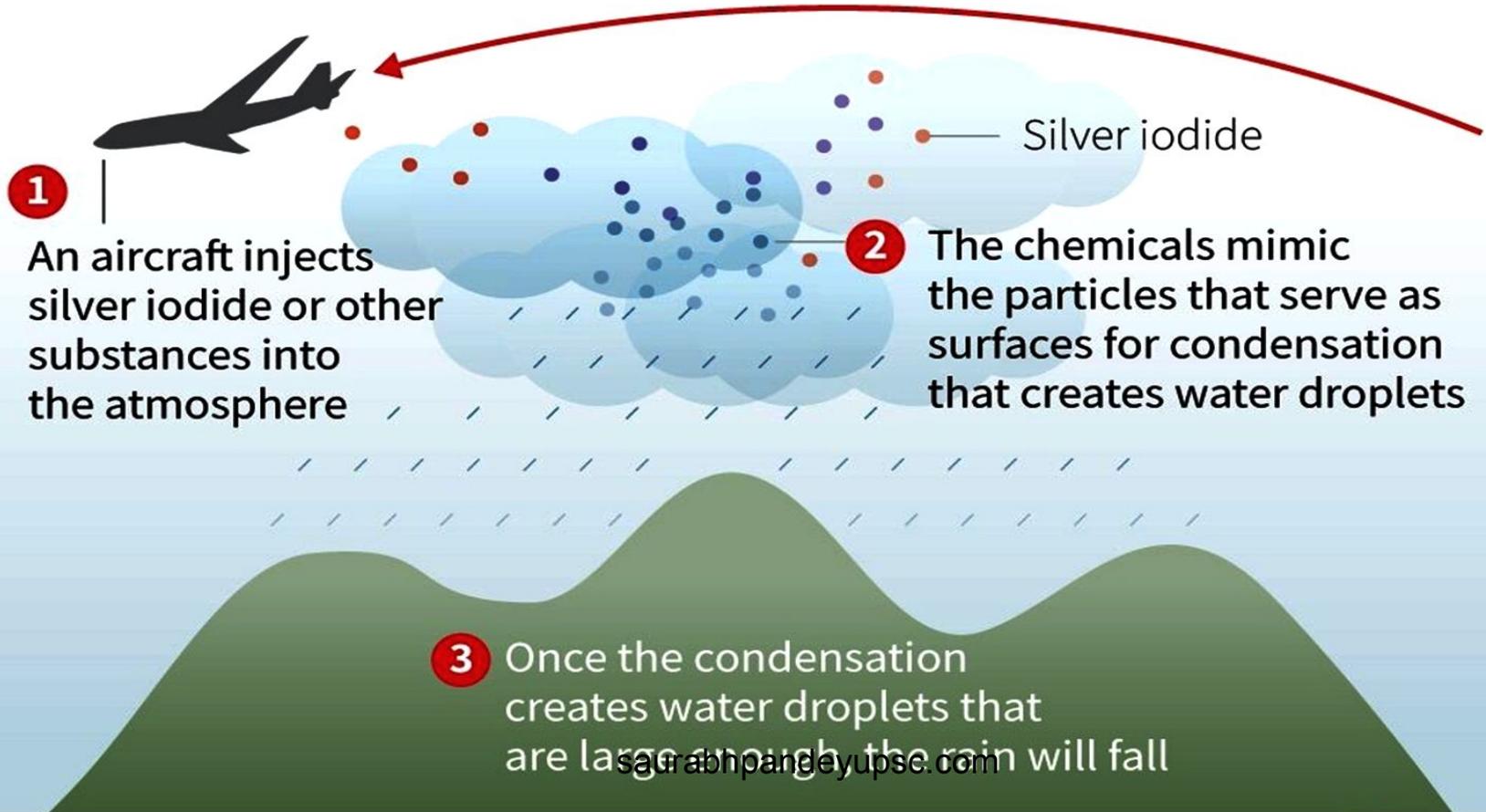


What is cloud seeding ??



Cloud seeding

Traditional method of rainmaking, in use since the 1940s



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James Webb Telescope Vs Hubble Space Telescope

Location of operation
JWST: 1.5 million km away from Earth
HST: 570 km away from Earth

Primary mirror
JWST: 6.5 meter
HST: 2.4 meter

No of mirror segments
JWST: 18 segments
HST: 1 segment

Service conditions
JWST: Not serviceable
HST: Can be repaired

Wavelengths
JWST: Explore near-infrared and mid-infrared light
HST: Explores into ultraviolet, visible, parts of near-infrared light

Mission objective
JWST: Look back 13.5 bn years and watch the birth of new galaxies
HST: Look back 12.5 bn years and peer into young galaxies

Mission Duration: 5 - 10 years

Diameter of primary Mirror: 6.5 m (21.3 ft) approximately

Primary mirror material: beryllium coated with gold

Proposed Launch Date: Webb will be launched in 2021

Launch Vehicle: Ariane 5 ECA

Focal length: 131.4 meters

Optical resolution: ~0.1 arc-seconds

Orbit: 1.5 million km from Earth

JAMES WEBB TELESCOPE
 A window into cosmos

INDIA TODAY

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104. The 7th edition of the Indian Ocean Conference was held at

(a) Dhaka

(b) New Delhi

(c) Malé

(d) Perth

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- External Affairs Minister S Jaishankar address the 7th Indian Ocean Conference in Australia's Perth that gets underway today with the theme "Towards a Stable and Sustainable Indian Ocean."
- The Indian Ocean Conference is a flagship consultative forum for countries in the Indian Ocean Region, organized annually by the Ministry of External Affairs, in association with the India Foundation..

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61. Which of the following were objectives of the G20 Summit, 2023 under India's Presidency?

1. Green development
2. Accelerating progress on SDGs
3. Women-led development

Select the correct answer using the code given below.

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1, 2 and 3
- (d) 1 and 3 only

64.

65.

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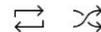
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Explain

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