

### NEWSPAPER HIGHLIGHT

With space junk posing increasing threat to Indian assets in space, the Indian Space Research Organisation (ISRO) is building up its orbital debris tracking capability by deploying new radars and optical telescopes under the Network for Space Objects Tracking and Analysis (NETRA) project. A space debris tracking radar with a range of 1,500 km and an optical telescope will be inducted as part of establishing an effective surveillance and tracking network under NETRA, ISRO chairman S. Somanath told. The government has given the go-ahead for the deployment of the radar, which will be capable of detecting and tracking objects 10 cm and above in size, he said. It will be indigenously designed and built.

After banning the import of plastic waste in 2019, the Environment Ministry has permitted containers made of polyethylene terephthalate, as plastic waste, to be imported for processing. An expert committee of the Environment Ministry, last December, recommended that firms which had applied for permission could import polyethylene terephthalate flakes and bottles up to 50% of their production capacity. Polyethylene terephthalate is a category of plastic, and nearly 90% of the domestic supply of containers using them is already recycled.

The Ministry of Information and Broadcasting, through three different orders, transferred the mandate of production of documentaries and short films; organisation of film festivals; and preservation of films to the National Film Development Corporation (NFDC), which functions under the Ministry. Stating that the mandate of the Films Division, Directorate of Film Festivals, National Film Archives of India and Children's Film Society, India had been transferred to the NFDC, the Ministry said: "Bringing all these activities under a single management will reduce the overlap of various activities and ensure better utilisation of public resources.

The regional grouping Indian Ocean Naval Symposium (IONS) conducted its maiden edition of maritime exercise, IMEX-22, at Goa and in the Arabian Sea from March 26 to 30. The exercise witnessed participation of 16 of the 25 member nations. The exercise is seen as a significant stepping stone for regional navies to collaborate and respond collectively

### RECYCLING THE HEAT OF DATACENTRES

1. Microsoft has partnered with Fortum to heat homes, services and businesses in Finland with sustainable waste heat from a new datacentre region that Microsoft has planned to build in the Helsinki metropolitan area in Finland.

2. **Datacentre It is a physical facility that organisations use to store their critical applications and data, process data and disseminate them to users. It is designed based on a network of computing and storage resources that enables delivery of shared applications and data.** Key components of a datacentre are routers, switches, firewalls, storage systems, servers, and application-delivery controllers. Since datacentres consume large amounts of energy, it's important to ensure the physical structures that house them are well-designed and insulated to optimise temperature controls and energy efficiency.

3. Heat Generated Temperatures recorded in the hot aisles of a datacentre hover between 80 and 115 degrees Fahrenheit. Over 75% of a datacentre's electricity becomes waste heat. In winter, a datacentre can provide heating up to 85 degrees Fahrenheit, with better energy efficiency than a heat pump in a new house.

4. Carbon footprint - Globally, datacentres consume around 200 terawatt-hours (TWh) of electricity, which is more than 1% of the world's total electricity. They contribute to 0.3% of all global CO2 emissions, according to the International Energy Agency. Datacentre energy usage in some countries could increase to 15% to 30% of their total domestic electricity consumption by the end of the decade.

5. The heat recycling system can provide clean heat to homes, businesses and public buildings near the datacenters. Once the new data centre region's waste heat capture is in operation, a total of 60% of the area's heating will be generated by climate-friendly waste heat. Of this, 40% results from the datacentre region and the rest from other waste heat sources like purified waste water.

### DISTRICT HEATING

1. District heating is a system of generating heat in a centralised location by capturing heat and then distributing it to buildings for residential and commercial heating needs. The heat is transferred to customers as hot water which is pumped through insulated underground pipes. 2. The new generation of district heating is based on replacing fossil fuels with flexible solutions like renewable electricity, heat pumps and waste heat utilisation. Artificial intelligence will help optimise operations of the entire system.

3. District heating is popular in the Nordic and Baltic countries, as well as in Russia and China, which have high heat demands during winters. Datacentres thrive in cold climates. Their location in cold climates helps to cut down on the need to cool server rooms.

4. Other companies doing Heat Recycling - Facebook (Denmark), Apple (Denmark), H&M (Denmark), IBM (in Switzerland), Quebecor (in Canada), etc.

### HURUN GLOBAL RICH LIST 2022

1. The Hurun Global Rich List 2022 - a report on the findings on the dollar millionaires for 2021 - has been released. An Oxfam report pegged the wealth of top 100 richest Indians at \$775 billion. It also added that India accounted for 4.6 crore or half of the overall people on the planet falling into extreme poverty in 2021. As per another survey, dollar millionaires rose by 11% to 4.58 lakh households in India at the end of the pandemic-hit 2021.

2. About Hurun Report Hurun Report is a leading research, luxury publishing and events group established in London in 1998. It is widely recognized world-over for its comprehensive evaluation of the wealthiest individuals across the globe. Hurun Report is the largest compiler of the rich list globally. Findings The Hurun Global Rich List 2022 report ranked a total of 3,381 billionaires from 2,557 companies

to natural disasters in the region and paves way for further strengthening regional cooperation, according to a Navy official.

Prime Minister Narendra Modi called for strengthening the BIMSTEC (Bay of Bengal Initiative for MultiSectoral Technical and Economic Cooperation), and welcomed the unveiling of the Charter of the organisation that connects the littoral countries of the Bay of Bengal. The summit concluded in Colombo on Wednesday. The Prime Minister called for a Free Trade Agreement among the member countries.

Recognising that “timing is key” for Sri Lanka as it tries to cope with a grave economic crisis, the Indian system is working “overtime” to expedite its assistance to the island nation, External Affairs Minister S. Jaishankar said on Wednesday, wrapping up his visit.

India has cut coal supplies to the nonpower sector and put on hold plans for some fuel auctions for utilities without supply deals due to a slump in inventories, even as the country battles a seasonal jump in demand for electricity. The supply cuts come months after India’s most crippling coal shortage in recent years led to power cuts lasting up to 14 hours in some States and amid worries that gruelling summer temperatures will add to shortages.

Russian forces pounded areas around Ukraine’s capital and another city overnight, regional leaders said on Wednesday, just hours after Moscow pledged to scale back military operations in those places. The shelling further tempered optimism about any progress in talks aimed at ending the punishing war.

The Cabinet Committee on Security, which met under the Chairmanship of the Prime Minister on Wednesday, approved procurement of 15 indigenous Light Combat Helicopters Limited Series Production.

The Rajya Sabha on Wednesday approved the Constitution (Scheduled Castes and Scheduled Tribes) Order (Amendment) Bill, 2022 to remove the Bhogta caste from the list of Scheduled Castes (SCs). The Bhogta caste will be included instead as a Scheduled Tribe in the State. The Bill also amends the schedule to the Scheduled Tribes order to include the Deshwari, Ganjhu, Dautalbandi (Dwalbandi), Patbandi, Raut, Maajhia, Khairi (Kheri), Tamar

and 69 countries.

3.China is still the first with 1,050 billionaires owning \$3,756 billion in wealth, with the US at the second position with 523 billionaires owning \$3,554 billion in wealth. India ranked third in the list of total self-made billionaires in the world, with 119 billionaires accounting owning a cumulative wealth of \$474 billion. The Gautam Adani family, Larry Page and Sergey Brin were the biggest gainers this year.

4.Findings about India-The Hurun Report 2021 is the survey of 350 dollar millionaires or those possessing a personal wealth of over Rs. 7 crore. It also estimated the number of Indian dollar millionaires to increase by 30% to touch six lakh households by 2026. It indicated that the number of those who classify themselves as happy in personal and professional lives slipped from 72% (2020) to 66% (2021). Mumbai is home to the largest number of dollar millionaires at 20,300 households, followed by Delhi at 17,400 and Kolkata with 10,500. At a time when calls for taxing the super-rich are growing (higher taxation advocated by Oxfam to save lives), less than a third among those surveyed felt paying taxes is a determinant of social responsibility.

5.Similarly, when calls for greater help through philanthropy are growing, only 19% of the millionaires surveyed by Hurun said they believe in giving back to society. Over two-thirds of those surveyed said they will prefer sending their kids abroad for education, with the U.S. emerging the favourite destination followed by the U.K., New Zealand and Germany. The survey found that a fourth of those in the list change their cars every 3 years with the German carmaker Mercedes Benz emerging as the most preferred.

6.Nearly two-thirds of those surveyed said they own four time pieces, adding that Rolex is the most preferred brand.The next decade presents a meaningful opportunity for luxury brands and service providers to enter/further strengthen presence in India Number of dollar millionaires using UPI for payments has doubled to 36%, while nearly a third of the surveyed are currently avoiding risks in their investments.

#### INCREASE IN KAZIRANGA RHINO POPULATION

1.The latest census of the UNESCO World Heritage Site’s flagship animal - greater one-horned or Indian rhinoceros - has revealed that their population has increased in the Kaziranga National Park and Tiger Reserve.

2.The last rhino census conducted in 2018 had put the number at 2,413. In the Kaziranga National Park and Tiger Reserve, the population has increased to 2,613 by 200 in 4 years. Though the tiger reserve measures 1,355 sq. km, the census was confined to a rhino-bearing area of 864 sq. km.

3.This year’s census had a first - the use of drones for the recheck of 26 park compartments where the sample survey was conducted. A similar census was conducted in two more of Assam’s rhino habitats earlier. Orang National Park recorded an increase of 24 rhinos over the figure of 101 in 2018. Pobitora Wildlife Sanctuary recorded five more rhinos than in 2018.

4.Kaziranga National Park and Tiger Reserve is a protected area in the northeast Indian state of Assam. It is the oldest park in Assam that covers the floodplains of the river Brahmaputra on the North and the Karbi Anglong hills on the South. Its forests, wetlands and grasslands are home to Indian one-horned rhinoceroses, tigers and elephants. The forest region of Kaziranga Park is home to world’s largest population of Indian Rhinoceros.

#### CHANDIGARH’S PRIVATE MEMBER BILL

1.The Chandigarh Municipal Corporation approved a proposal to amend Article 80 of the Constitution so that its councillors could send a representative to the Rajya Sabha. Article 80 of the Constitution of India deals with the composition of the council of states also called the Upper House and Rajya Sabha. The Private Member Bill is a bill introduced by a Member of Parliament (MP), who is not a minister.

2.MPs sitting in the Opposition mostly bring Private Member Bills in the house. Chandigarh’s case - Chandigarh is a Union Territory (UT) without any legislative assembly. Chandigarh has a seat of Member of Parliament (MP) in the lower house (Lok Sabha) or House of the People. Chandigarh residents elect an MP every 5 years through direct voting. But, the elected Municipal Corporation Councillors do not form the electoral college for selecting a member for Rajya Sabha because it is beyond the powers of the Municipal Corporation.

**(Tamadia) and Puran communities on the ST list.**

**Attempts are being made to douse the massive fire at the Sariska Tiger Reserve in Alwar district of Rajasthan on Wednesday with two Indian Air Force helicopters stepping up efforts to control the blaze by ferrying water from the nearby Siliserh Lake to spray over the forest. The wildfire, which started on Sunday and had spread over 10 sq.km, is gradually reducing.**

**Germany would not “preach or teach” India about its position on Russia’s war in Ukraine but hoped that no “friendly country” would attempt to subvert sanctions put in place by the U.S., the European Union and partners against Russia, German Foreign and Security Adviser Jens Plotner said in Delhi.**

**3.**Also, between 1966 and 1990, MPs for Rajya Sabha in Delhi were selected by the members of the Metropolitan Council of Delhi. There is a difference between the Metropolitan Council and Municipal Corporation. Selecting MP for Rajya Sabha, is beyond the listed scope of functions of the municipal corporation. As the civic body house gave its assent to the amendment, UT Administration will send it to the Ministry of Home Affairs for further consideration. It will then be forwarded to the Parliament.

**4.**The UTs that have the right to send MPs to the Upper House - Puducherry (one representative), Jammu and Kashmir (4 representatives) and Delhi (3 MPs in the Upper House). The UTs that don’t have the right to send MPs to the Upper House -Ladakh, Chandigarh, Dadra & Nagar Haveli, Daman and Diu, Andaman and Nicobar Islands, and Lakshadweep.

**5.**Benefits - The amendment, if approved, will enhance the powers of elected councillors. Because there is no legislative assembly, the councillors represent the people of Chandigarh in the true sense. Surely, the chances of the candidate of the party, which will have larger councillors in the civic body, will be boosted. If approved, the move will not affect the powers of the MP from Chandigarh in the Lok Sabha.