

KSG: NEWSPAPER CRUX

11TH OCTOBER 2022

The Indian space economy is set to reach \$13 billion by 2025, according to a joint report prepared by EY (Ernst & Young) and the Indian Space Association (ISpA), an apex industry association of space and satellite firms in the country.

Russian forces launched a barrage of fatal bombardments across Ukraine early on Monday, in an apparent retaliation for an explosion that damaged a key bridge to Moscow annexed Crimea. The biggest wave of strikes across Ukraine in months killed at least five people in Kyiv and came hours ahead of a meeting of Russian President Vladimir Putin's security council. Ukraine's most senior military general said Russia had fired 75 missiles on cities across the country, in a wave of attacks that included Iranian drones.

Moldova said that Russian cruise missiles targeting Ukraine had crossed its airspace, and summoned Moscow's envoy to demand an explanation.

Pakistan has been invited to the closing ceremony, on October 13, of the ongoing Joint Anti-Terror Exercise (JATE) within the ambit of the Shanghai Cooperation Organisation (SCO) being hosted by India, official and diplomatic sources confirmed. The National Security Guard (NSG) is hosting the multinational JATE "Manesar Anti-Terror 2022", under the framework of the SCO Regional Anti-Terrorist Structure (RATS) at the NSG Manesar Garrison.

Jammu and Kashmir, Ladakh, Gujarat and Tamil Nadu are among the 20 States and Union Territories brought under the telemental health programme launched on the occasion of World Mental Health Day on Monday. Telemental health assistance and networking across State (TeleMANAS), an initiative of the Health Ministry, was virtually launched by Karnataka Governor Thawar Chand Gehlot. The Central government aims to open at least one TeleMANAS cell in each State/U.T.

\$10.7 billion, the United Nations High Commissioner for Refugees's (UNHCR) budget this year. The UN agency will have to make "severe cuts" unless it gets extra funding soon. When asked which of the refugee programmes might be cut, the spokesperson expressed concerns about parts of West Asia, including Yemen, and Ethiopia.

CONSERVATION INTERNATIONAL REPORT HIGHLIGHTS NEED FOR ASSISTED NATURAL REGENERATION (ANR)

1. ANR is a blend of active planting and passive restoration, where local people intervene to help trees and native vegetation naturally recover by eliminating barriers and threats to their growth, leaning on their knowledge of the land and on ancestral traditions. For instance, to prevent the spread of wildfires, people can build firebreaks and clear the forest floor of dry debris; To give native trees enough room to grow, invasive grasses and shrubs can be removed.

2. **Advantages of ANR Trees and forests can be restored using ANR at less than a third of the cost of tree planting, based on World resources institute estimates.** Can restore much more land, much more quickly, as it requires very little human intervention.

3. ANR can ensure that restored land effectively mimics native habitat of local plants and wildlife. Can create jobs and bring income to landholders, as they play role in protecting the new recovery by building fences, patrolling for fires, monitoring progress etc.

4. Plays a critical role in achieving global goals, including Paris Climate Agreement, Bonn Challenge (restore 350 million hectares of degraded and deforested lands by 2030).

PM DECLARES MODHERA AS INDIA'S FIRST 24X7 SOLAR-POWERED VILLAGE

1. Along with the Modhera village, the Sun Temple of Modhera also became the first heritage site in India to be powered solely by solar energy. The PM also inaugurated the 3D Projection Mapping of the Modhera Sun Temple.

2. About Sun Temple of Modhera (Gujarat) Built in 1026-27 AD during Chalukya King Bhimdev I (1022-1063 AD) regime. The earliest Dilwara Temples and the Rani ki vav (attributed to his Queen Udayamati) were also built during his regime.

3. Location: One of the four main Sun Temples, it is located on the banks of River Pushpavati and falls near the Tropic of Cancer. The other 3 main Sun Temples are: Konark Sun Temple (Odisha), Martand Sun Temple (Jammu and Kashmir) and Dakshinaarka Sun Temple (Gaya).

4. Temple Architecture: Maru-Gurjara style with temple complex divided into three parts Gudha Mandapa (the shrine hall) based on inverted lotus base plinth, Sabha Mandapa or Sita Chavadi (the assembly hall) standing on 52 pillars signifying 52 weeks in a year, and Surya Kunda or Ram Kunda (the reservoir) containing 108 shrines. In 2014, it was declared a UNESCO World heritage Site. Linked Festivals: Uttarardha Mahotsav, celebrated in January.

TO SET UNIFORM SAFETY STANDARDS, TESTING OF ELECTRIC VEHICLES (EVs) TO BEGIN FROM APRIL 1

1. Amid concerns over recent fire-incidents in EVs, government is working on uniform safety standards and necessary testing infrastructure. Pune-based Automotive Research Association of India will set up the requisite infrastructure for testing, certification, and development of electric and hybrid vehicles.

2. Globally, there is no single EV standard. Earlier, Bureau of Indian Standards issued performance norms for lithium-ion battery packs and traction systems in line with broader ISO (International Organization for Standardization) norms.

3. Also, Ministry of Road Transport and Highways released additional safety requirements for EV batteries under Central Motor Vehicles Rules of 1989 based on expert committee recommendations. Possible reasons for fire incidents include - manufacturing defects, external damage, or faults in the deployment in the battery management system.

4. In some cases, faulty charging could also have been the reason. Also, there are no centralised testing facilities for EVs in India and manufacturers have their own benchmarks. Electric vehicles operate on an electric motor, instead of an internal-combustion engine that generates power by burning a mix of fuel

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The Supreme Court Collegium has resolved not to undertake any further deliberations on 10 names identified for consideration as the top court judges as the Law Ministry has already sent its request to Chief Justice of India U.U. Lalit to nominate his successor. Justices D.Y. Chandrachud and S. Abdul Nazeer had objected to the CJI's proposal to recommend names for appointment as Supreme Court judges through circulation.

6 lakhs number of people impacted by floods in Uttar Pradesh according to the relief commissioner's office. On Monday, ten more people were killed in rain related incidents in the State and more than 650 villages in 16 districts were affected by floods. According to officials, nine people were killed after heavy rains lashed down on several parts of U.P.

Since taking over the reigns of the Party in 2012 at the Communist Party of China's (CPC) 18th Congress, Mr. Xi appears to have been in a hurry to refashion Chinese politics to define his era. When the CPC, last year, passed its third "historical resolution" in its 100 year history — the first in four decades — it noted that when Mr. Xi took over, he "solved many tough problems that were long on the agenda but never resolved and accomplished many things that were wanted but never got done."

Key to Mr. Xi's rapid accumulation of power was an anticorruption campaign that was launched immediately after he took over. It laid down strict rules for Party members, which was welcomed by a weary public that had seen CPC officials amass vast fortunes. The Party State division and system of parallel governance which was designed to professionalise governance, was collapsed by Mr. Xi through his 2018 reforms which declared that the "Party is the highest force for political leadership." Along with the overhaul of the political system was the reform of the People's Liberation Army (PLA) — the biggest of all fiefdoms — which all of Mr. Xi's predecessors, going back to Deng, had failed to do.

Civil Aviation Minister Jyotiraditya Scindia said the Union government would draw up a national plan for helicopter emergency medical services and a pilot project towards it would soon be launched at the AIIMS, Rishikesh. Mr. Scindia said that under the pilot project

and gas. Usually, it uses Lithium-ion batteries. Nickel-Metal Hydride and Solid State are other main battery types.

GOVERNMENT BEGINS PROCESS TO MERGE AMUL WITH FIVE COOPERATIVE SOCIETIES

1.It was announced at the 70th plenary session of North Eastern Council (NEC). The merger will lead to the formation of a Multi-State Cooperative Society (MSCS). Benefits of the Merger Improved ability to cater rising domestic demand for milk and milk products. MSCS can act as the export house to help in product certification and export of products. Increased income for farmers etc.

2.About **MSCS-Co-operative society is a voluntary association of individuals who come together with the intention to work together and to promote their economic interest. These societies work on the principle of self-help as well as mutual help.** MSCS are cooperative societies whose activities are not confined to one state and serve interests of individuals in more than one state. Though 'Cooperative Societies' is a State Subject, MSCS are regulated by Centre under Multi-State Co-operative Societies Act, 2002.

3.Issues faced by MSCS-Transparency issues as MSCS lacks proper checks and balances of multiple layers like State cooperatives. Accountability issues as the Central Registrar of MSCS can allow inspection of MSCS only in special conditions with prior intimation.

4.It is the nodal agency for the economic and social development of the North Eastern Region created by the parliament through NEC Act, 1971. It consists of the eight States of Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura.

THE GROWING EFFECTS OF LIGHT POLLUTION ON MIGRATORY BIRDS

1.On World Migratory Bird Day (08 October), Light pollution and its impact on migratory birds has been highlighted. Light pollution refers to 'excessive, misdirected, or obtrusive artificial (usually outdoor) light'. Components of light pollution include: Glare – excessive brightness that causes visual discomfort. 2.Skyglow – brightening of the night sky over inhabited areas. Light trespass – light falling where it is not intended or needed. Clutter – bright, confusing and excessive groupings of light sources Impact of Light Pollution: It washes out starlight in the night sky, interferes with astronomical research, disrupts ecosystems, has adverse health effects and wastes energy. It is a serious threat to nocturnal wildlife, especially birds (as given in image).

3.Also, it leads to disorientation among animals such as Olive Ridley Sea turtles. Solutions to Light Pollution: Use of light shields or cut-off lights, use of warm lighting in place of cold lights, use of motion sensors to turn on only lights only when motion etc.

UN PEACEKEEPERS NEED ROBUST MANDATES- UN PEACEKEEPING CHIEF

1.Fatalities among United Nations Peacekeeping Forces (UNPKF) due to malicious acts (not illness or accidents) that were once on the decline, have now started rising, from 13 in 2020 to 25 in 2021. India has lost 179 soldiers in the past six decades (the highest fatality suffered).

2.Reasons identified for rise in fatalities Troop and police contributing countries not fully involved at all stages mission planning; Lack of financial and human resources for peacebuilding in post-conflict societies; soldiers not prepared for 'peace enforcing'; Redundant missions depleting scarce resources of UN, No exit strategy.

3.Earlier, India has proposed a 10-point formula to address challenges faced by the mission, which include: Missions should be given "clear and realistic mandates" that are matched with adequate resources. Missions should be "deployed prudently, with full recognition of their limitations. Coordination with host governments will help address misinformation and disinformation against peacekeepers and enhance their safety. Also, In 2021, India supported the rolling out of the "Unite

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“Sanjeevani”, a helicopter would be deployed in the next few weeks to provide emergency medical services at the AIIMS.

The Indian rupee could drop to 84-85 to the dollar by March due to rising crude oil prices, high trade deficit and depleting foreign exchange reserves, Elara Global Research said. “The rupee, so far, has borne the brunt of aggressive global tightening as a hawkish (U.S.) Federal Reserve and interest rate differentials weigh on its outlook.

aware” platform to enhance the safety of the peacekeepers.

4.About UN Peacekeeping-It aims to assist host countries to transition from situations of conflict to peace. It is a joint effort between Department of Peace Operations and Department of Operational Support. First UN Peacekeeping mission was established in 1948 in West Asia to observe the Armistice Agreement. The three basic principles that guide U.N.’s Peacekeeping missions are: Consent of the parties. Impartiality. Non-use of force except in self-defence and defence of the mandate.