

# KSG: NEWSPAPER CRUX

28<sup>TH</sup> SEPTEMBER 2022

## NEWSPAPER HIGHLIGHT

On September 27, at 4:44 am IST, the DART (Double Asteroid Redirection Test) spacecraft collided with the space rock Dimorphos (just 160 metres wide). NASA has confirmed that the collision of the auto-rickshaw sized 600 kilogram weighing DART, on the football stadium-sized Dimorphos, about five billion kilogram in mass (orbiting around the 780 metres wide primary asteroid Didymos), has deflected the trajectory of the pair of space rocks. The momentum of DART crashing at a breakneck speed of 23,760 kilometres per hour, is adequate to slash the angular momentum of Dimorphos, making it speed up and move closer to Didymos. All of these reduce the orbital period and the time taken for the moonlet to go around the primary asteroid. The pair's trajectory is thus deflected as the net result of these dynamics.

While ostensibly the drive comes from the desire to protect earth from killer asteroids, the technique also carries the lure of space mining. If one can tug a mineral-rich asteroid near the Moon or establish a space mining factory between the orbits of earth and Mars, precious mineral resources needed for decades could be easily sourced. The 'kick' technique that deflects asteroids can then be used to move a small asteroid into a convenient position for space mining.

In a first, three separate Constitution Bench proceedings in the Supreme Court were simultaneously beamed live through YouTube on Tuesday. "Statistics show that more than eight lakh viewers watched the proceedings before the three Constitution Benches. Truly, a historic day," the Public Relations Office said in a statement.

\$14 billion, is the amount the Asian Development Bank (ADB) is allocating to fight the growing food insecurity crisis in the Asia Pacific, suffering from climate change and the ongoing Russia-Ukraine war, which is choking supply lines and causing food prices to soar. The multilateral funding agency is hosting its 55th annual meeting from September 26-30.

40 percentage, the reduction in particulate matter concentration in cities covered under the National Clean Air Programme (NCAP) by 2026. According to the Union Environment Ministry, 95 of the 131 non-attainment cities covered under

## INTERNATIONAL TRADE OF 2 HAZARDOUS PESTICIDES RECOMMENDED FOR 'PRIOR INFORMED CONSENT' (PIC)

- 1.The PIC procedure (under Rotterdam Convention) is a mechanism for formally obtaining and disseminating the decisions of importing parties on their willingness to receive future shipments of hazardous chemicals. Recommendations were made by the Chemical Review Committee (CRC) for 2 hazardous pesticides, Iprodione and Terbufos.
- 2.Iprodione, a fungicide used on vines, fruits, trees and vegetables, has been classified as carcinogenic and toxic for reproduction. Terbufos is a soil insecticide used commonly on sorghum, maize, beet and potatoes. It has also been found to pose risk to aquatic organisms due to its toxicity. In India, the use of these chemicals was permitted by the 2015 Anupam Verma committee report.
- 3.India is among the largest exporters of Terbufos. Rotterdam convention is an international treaty designed to facilitate informed decision-making by countries with regard to trade in hazardous chemicals. It creates legally binding obligations for the implementation of the PIC procedure.
- 4.It covers pesticides and industrial chemicals that have been banned or severely restricted for health or environmental reasons by Parties. CRC is a subsidiary body of Rotterdam Convention established to review chemicals and pesticide formulations according to criteria set out by Convention.

## RENEWABLE ENERGY (RE) AND JOBS ANNUAL REVIEW 2022 REPORT BY IRENA

- 1.According to report published by the International Renewable Energy Agency (IRENA) and the International Labour Organization, provides the latest estimates of renewable energy employment globally.
- 2.India related findings-**Reaching India's goal of 500 GW of non-fossil-fuel energy sources by 2030 could create 3.4 million new job opportunities. India accounted for about 18% of global hydropower employment, followed by Brazil.**
- 3.Other Key findings-RE sector employed 12.7 million people across the world in 2021. Solar energy was found to be the fastest-growing sector. The share of women in the decentralised renewable energy (DRE) workforce is still low, particularly for skilled jobs.
- 4.Report highlights issues of job quality and labour standards in the mining and processing of raw materials inputs (upstream) and in the handling of materials once renewable energy generating facilities are decommissioned (downstream).
- 5.Trade disputes and geopolitical rivalries are reinforcing interest in localisation of supply chains, both to enhance resilience in the face of external shocks and to boost domestic value creation and jobs.

## ELECTION COMMISSION (EC) TO PUSH FOR INTERNAL DEMOCRACY WITHIN PARTIES

- 1.Recently, the EC had come out against a political party that parties with any permanent position will be inherently anti-democratic. Internal democracy in political parties, also known as intra-party democracy, refers to the level and methods of including party members in the decision making and deliberation within the party structure.
- 2.It is usually known to nurture citizens' political competencies and/or producing more capable representatives which in turn ensures that the party produces better policies and political programmes.
- 3.Significance of internal democracy Closed party autocratic structures impact the constitutional right of all citizens to equal political opportunity to participate in politics and contest elections. It allowed the decentralization of power through local level party offices. Diverse opinions enrich not only the democratic spirit in the party but the in-country. Motivate the youth to join politics in the absence of political lineage.
- 4.Challenges for internal democracy Procedure for determining the leadership and composition of the parties is not completely

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the NCAP have witnessed an “overall improvement” in PM10 levels in 2021 as compared to 2017 levels.

\$ 100 billion, is the amount the Adani Group will invest over the next decade. A bulk of this investment will go into the energy transition business, said Chairman Gautam Adani. After founding the group in 1988 as a commodities trading business, the 60-year-old has ventured into multiple sectors such as infrastructure.

\$ 28 billion, is the cost of the damages caused by the floods in Pakistan, according to media reports. Reports also state that it might take two to 10 years for the long-term construction of the areas affected by the unprecedented calamity. According to a Post Disaster Needs Assessment (PDNA), Pakistan has seen a 5% upsurge in poverty.

84 million, is the number of people who now live in Germany, the highest the population has been, due to a massive influx of Ukrainian refugees, according to the German Federal Statistical Office. By the end of June, the country's population increased by 1%, compared to the end of 2021. In comparison, the population grew by 0.1%, in the entire year of 2021.

The Dadasaheb Phalke Award for 2020 will be conferred on veteran actor Asha Parekh, the Information and Broadcasting Ministry said on Tuesday. The award will be presented at the 68th National Film Award ceremony on September 30.

Simultaneous searches were conducted by police teams at multiple locations in seven States and a Union Territory on Tuesday during the second round of crackdown on the Popular Front of India (PFI). Over 170 people have been either arrested or detained.

With the rapidly declining water table threatening to push many regions into drought, the Union government on Tuesday launched a mobile application — Jaldoot — jointly developed by the Rural Development and Panchayati Raj Ministries to monitor the groundwater levels across the country. The application was launched by Minister of State for Rural Development Faggan Singh Kulaste in the presence of Ministers

open and inclusive. Representation of People Act 1951 does not mandate internal elections ECI cannot take punitive action against registered political parties for violating the principles of inner-party democracy.

## INDIA EXPERIENCES 'TRIPLE DIP' LA NINA PHENOMENON

1. India is seeing an extended spell of the La Nina, called a 'triple dip' La Nina. 'Triple dip' La Nina is a phenomenon lasting across three winter seasons in the northern hemisphere. This is only the third time since 1950 that a triple dip La Nina has been observed. As per World Meteorological Organisation, it is likely that the protracted La Niña event will last until at least the end of the year, becoming this century's first “triple-dip” La Niña.

2. About La nina-La Niña a weather pattern that occurs in Pacific Ocean. It is observed when sea surface temperatures (SSTs) in Eastern Equatorial Pacific (EEP) get comparatively colder than normal. This results in a strong high pressure over EEP (i.e. tropical west coast of South America). It is counterpart to El Niño which is characterized by unusually warm SSTs in EEP and causes suppressed Monsoon.

3. **Impact of La Niña Better monsoon rains in India. Frequent and intense hurricanes and cyclones in the Atlantic Ocean and Bay of Bengal.** Causes drought in Peru and Ecuador, heavy floods in Australia, High temperatures in Western Pacific, Indian Ocean, off the Somalian Coast.

## GOVERNMENT COMMITS RS. 7,385 CR. UNDER THE FUND OF FUNDS FOR START-UPS (FFS) INDIA INVESTMENT IN 88 ALTERNATE INVESTMENT FUNDS(AIFs)

1. Ministry of Commerce and industry also stated that these AIFs in turn have further invested Rs 11,206 crore in 720 startups. Performing startups supported through FFS show valuation increase by more than 10 times. FFS was launched under the Start-up India initiative in 2016 to mobilise domestic capital to give the Indian startup ecosystem.

2. It was announced with a corpus of Rs 10,000 crore which is to be built over 14th and 15th Finance Commission Cycles through budgetary support by the Department for Promotion of Industry and Internal Trade. Under FFS, support is extended to SEBI registered AIFs, which in turn invest in startups. Small Industries Development Bank of India is the implementing agency for the FFS.

3. Benefits of FFS made capital available for start-ups at an early stage, seed stage, facilitating raising of domestic capital, reducing dependence on foreign capital encouraging domestic and new venture capital funds.

4. AIFs are any privately pooled investment fund (whether from Indian or foreign sources) in the form of a trust, a company, a body corporate, or a Limited Liability Partnership. Family trusts, employee welfare trusts, and gratuity trusts are not counted as AIFs.

## CENTRE PROMOTES NAVIC (NAVIGATION WITH INDIAN CONSTELLATION) AS HOME-GROWN ALTERNATIVE TO GPS

1. The Centre is pushing smartphone makers to enable support for its NavIC navigation system in new devices from next year. Aim of this move is to remove dependence on foreign satellite systems for navigation service requirements, particularly for "strategic sectors." This will remove the risk of the service being withdrawn or denied in a given situation.

2. About NavIC-It is an independent stand-alone navigation satellite system developed by the Indian Space Research Organisation (ISRO). It consists of 8 satellites and covers the whole of India's landmass and up to 1,500 km from its boundaries.

3. **This system was earlier known as IRNSS (Indian Regional Navigation Satellite System). Presently, there are 4 navigation satellite systems operational in the world viz., GPS from the U.S., GLONASS from Russia, Galileo from European Union and BeiDou from China.** In addition, there are 2 regional systems viz, NAVIC from India and QZSS from Japan.

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Sadhvi Niranjana Jyoti and Kapil Moreshwar Patil. The app will be used to capture the water levels of two or three open wells in every village twice a year, from May 1 to 31 during the pre-monsoon time and from October 1 to 31.

A Constitution Bench led by Justice D.Y. Chandrachud agreed to start hearing from November 9 the dispute between the Centre and the Delhi government for control over bureaucrats in the Capital. In May, a three judge Bench led by the then Chief Justice of India N. V. Ramana had referred to a Constitution Bench the limited question concerning 'services' or bureaucracy for an authoritative pronouncement.

## OPERATION SOUTHERN READINESS

1. Recently, INS Sunayna entered port Victoria, Seychelles to participate in this exercise of Combined Maritime Forces (CMF). CMF is a multi-national naval partnership, to promote security, stability and prosperity on international waters (encompassing world's most important shipping lanes).
2. India is not member to CMF. Exercise is being attended by delegations from USA, Italy, Australia, Canada, New Zealand and ship participation from UK, Spain & India.
3. In related news, INS TARKASH, the Indian naval ship marked first ever visit by any INS to Gabon as part of its ongoing deployment in Gulf of Guinea for anti-piracy patrol.