

India's IIT Madras Startup Agnikul Cosmos Launches World's 1st Rocket With Fully 3D-Printed Engine

IIT Madras' startup, Agnikul Cosmos, has launched the world's first rocket with a



single-piece three-dimensional (3D) printed engine. The rocket Agnibaan SOrTeD (SubOrbital Technological Demonstrator) is also India's first semi-cryogenic engine-powered rocket launch that was completely designed and manufactured indigenously.

Key Points

- ❖ It was also launched from India's first privately developed launchpad called 'Dhanush' established by Agnikul at Sriharikota in Andhra Pradesh.
- ❖ The test flight aims to demonstrate in-house and homegrown technologies, gather crucial flight data, and ensure the optimal functioning of systems for Agnikul's orbital launch vehicle, the 'Agnibaan'.

About Agnibaan

- ❖ Agnibaan is a two-stage rocket with a capacity to carry up to 300 kg to a height of 700 km. The rocket engines are powered by liquid oxygen or kerosene.
- ❖ It can access both low- and high-inclination orbits and is completely

mobile, designed for accessing more than 10 launch ports, as per the company.

About Agnikul Cosmos

- ❖ **Founders:** Srinath Ravichandran, Moin SPM, Satyanaryan Chakravarthy, Janardhana Raju
- ❖ **Founded:** 2017
- ❖ **Headquarters:** National Center for Combustion R&D, IIT Madras, Chennai, Tamil Nadu, India

RBI Launched PRAVAAH Portal

Shaktikanta Das, Governor of the Reserve Bank of India (RBI), has announced three significant initiatives: the Platform for Regulatory Application, Validation, and Authorization (PRAVAAH) portal, the RBI Retail Direct Mobile Application, and a Fintech Repository. The primary goal of these projects is to improve regulatory processes, encourage retail participation, and give complete statistics on the fintech sector.



Key Points

- ❖ PRAVAAH Portal is a secure web-based platform that enables individuals and companies to apply for regulatory approvals, licenses, and authorizations from the RBI.

- ❖ Currently, there are 60 application forms available on the web, which span several regulatory and supervisory departments of the RBI.

Key Features of the PRAVAAH Portal:

- ❖ Applicants can apply online on the portal.
- ❖ Applicants can track and monitor the status of their application or reference.
- ❖ The Portal will enable the applicants to respond to any clarification or query raised by RBI in connection with the application or reference.
- ❖ Applicants will receive a decision from RBI in a time-bound manner.

Fintech Repository:

- ❖ Fintech Repository will give comprehensive data on fintech firms, both regulated and unregulated.
- ❖ RBI has also developed a related repository "Emtech Repository" exclusively for RBI Regulated Entities (REs), i.e. banks and non-banking financial companies (NBFCs), on their adoption of emerging technologies like Artificial Intelligence (AI), Machine Language (ML), Cloud Computing, and so on.
- ❖ Policymakers and industry participants would get access to aggregated data, trends, and analytics.

- ❖ Both repositories are operated by the Reserve Bank Innovation Hub (RBIH), a completely owned subsidiary of the RBI.

About Reserve Bank of India(RBI):

- ❖ **Governor:** Shaktikanta Das(25th Governor of RBI)
- ❖ **Headquarters:** Mumbai, Maharashtra
- ❖ **Established:** 1 April 1935

RudraM-II Missile Test

Defence Research & Development Organisation (DRDO) successfully flight-tested the RudraM-II air-to-surface missile from the Su-30 MK-I platform of the Indian Air Force (IAF) off the coast of Odisha.



Key Points

- ❖ The flight test met all the trial objectives, validating the propulsion system and control & guidance algorithm.
- ❖ The performance of the missile has been validated from the flight data captured by range tracking instruments like electro-optical systems, radar and telemetry stations deployed by Integrated Test Range, Chandipur at various locations, including the on-board ship.
- ❖ RudraM-II is an indigenously developed solid-propelled air-launched missile system meant for Air-to-Surface role to neutralise

many types of enemy assets. Several state-of-the-art indigenous technologies developed by various DRDO laboratories have been incorporated into the missile system.

Rudram Missile

Rudram, India's first anti-radiation missile (ARM), is an **Air-to-Surface missile** developed by DRDO.

Comprises:

- ❖ **Navigation System:** The missile uses a navigation mechanism consisting of a satellite-based Global Positioning System (GPS) and an inertial navigation system.
- ❖ **Passive Homing Head:** It employs a "passive homing head" for guidance, enabling it to accurately strike targets even if the radiation source switches off during the engagement.

Future Developments and Advanced Versions:

- ❖ **RudraM-1:** It primarily aims at Suppression of Enemy Air Defenses (SEAD).
- ❖ **RudraM-2 and RudraM-3:** These are under development with ranges of 350 and 550 km, respectively.

Jetha Ahir Elected as Chairman of NAFED

Jethabhai Bharvad (Ahir), a Bharatiya Janata Party (BJP) Member of Legislative Assembly (MLA) from Shehra seat (Gujarat), was chosen unopposed as

chairman of the National Agricultural Cooperative Marketing Federation of India Ltd (NAFED) in the Delhi election.



NAFED

Jetha Ahir Elected as NAFED Chairman

Key Points

- ❖ He succeeds Bijender Singh, who served as NAFED Chairman since 2007.
- ❖ He had the backing of Mohan Kundariya, Member of Parliament (MP), Rajkot Lok Sabha seat (Gujarat), and was elected unopposed by a board of 21 directors, two of which are from Gujarat, including Rajkot MP Mohan Kundariya.

About National Agricultural Cooperative Marketing Federation of India Limited (NAFED)

- ❖ It is an apex organisation of marketing cooperatives for agricultural produce in India.
- ❖ **Chairman** – Jethabhai Ahir
- ❖ **Managing Director** – Ritesh Chauhan
- ❖ **Headquarters** – New Delhi, Delhi
- ❖ **Established** – 1958

Madhya Pradesh Premier League Cricket

Gwalior's newly constructed cricket stadium is ready to host the inaugural season of the Madhya Pradesh League (MPL) which is set to kick off in mid-June.



Key Points

- ❖ Similar to the MPL, the Tamil Nadu Premier League (TNPL) and the Saurashtra Premier League (SPL) at the domestic T20 level have evolved into nurturing grounds for budding Indian cricketing talent.
- ❖ The MPL will feature five teams-- Rewa Jaguars, Jabalpur Lions, Bhopal Leopards, Malwa Panthers, and Gwalior Cheetahs.

- ❖ **Inaugural Season:** June 15th, 2024 to June 23rd, 2024.
- ❖ **Format:** T20 matches
- ❖ **Objective:** Provide a platform for local cricketers and connect fans, businesses, and the sport in Madhya Pradesh
- ❖ The MPL cricket matches will be broadcast live on a prominent national television channel and OTT partner

About MPCA

- ❖ **President:** Abhilash Khandekar
- ❖ **CEO:** Rohit Pandit
- ❖ **Headquarters:** Holkar Cricket Stadium
- ❖ **Founded:** 1956
- ❖ **Location:** Indore
- ❖ **Secretary:** Sanjeev Rao

Important Daily Current Affairs Question

1. The world's first rocket with a fully 3D-printed engine was launched by?

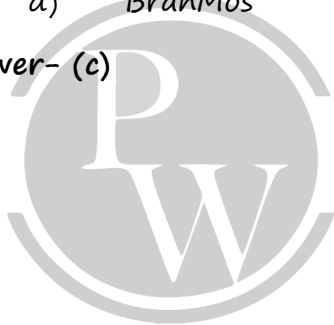
- a) ISRO
- b) NASA
- c) Agnikul Cosmos
- d) Roscosmos

Answer- (c)

2. What is the name of India's first indigenously developed anti-radiation missile?

- a) Agni-I
- b) Prithvi
- c) Rudram-1
- d) BrahMos

Answer- (c)



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