

# ISRO Gaganyaan mission scheduled to launch in 2021

*Sharmishte Datti*

ISRO is gearing up for a lot of missions in 2020. However, the ambitious Gaganyaan mission to explore the Sun is said to take off in 2021. Union Minister Jitendra Singh confirmed during the Parliamentary session about the same. The manned Gaganyaan mission will likely launch in December 2021, two years from now.

**ISRO Gaganyaan Mission** The ISRO Gaganyaan mission is the first manned mission, comprising a crew of three people. The spacecraft, crew selection, training process, and other mission-related proceedings will begin shortly. The training will be in Russia under the ISRO guidance, the press release stated.

ISRO will join hands with international agencies for the mission. The Indian Space Research Organization has immense experience with multiple launches and space missions over the years. However, other international agencies will support the mission and guide ISRO in areas where it lacks experience. Astronaut training, crew recovery, and human-centric systems are the areas where other space agencies will guide ISRO.

**ISRO Gaganyaan Mission Crew Module** The statement by the union minister said that the crewed vehicle will launch on the GSLV Mk III. The design of the crew module has been completed earlier this year in May. The capsule is reportedly equipped with life support, environmental control, and emergency mission abort systems. The emergency escape can be pulled out during the first or the second stage of the mission, the report states.

There are many national and international agencies assisting ISRO in the Gaganyaan mission. The DRDO labs and the Indian Air Force are the national agencies supporting the mission. DRDO will be supplying space food, crew health monitoring systems, emergency survival kits, parachutes for a safe recovery, crew modules, and radiation measurement and protection systems.

The Defense Research and Development Organization laboratories' technological capabilities for defense applications will be customized to meet the requirements of the human space mission of ISRO said Dr. G Satheesh Reddy, Secretary, Department of Defense R&D and Chairman DRDO. The Russian space agency is the one international space agency that ISRO is teaming up with. ISRO has already signed MoU with all the above agencies.

<https://www.gizbot.com/news/isro-gaganyaan-mission-to-take-flight-in-2021-064199.html>



Sat, 07 Dec 2019

## **Indian young scientist finds a cheaper solution to stop bleeding in just 30 seconds**

Indian young scientist has developed cheap and effective indigenous powder. It will stop the bleeding within 30 seconds as soon as it is put on the wound. Explain that such powders have become popular in foreign countries, but this technology of M.Tech Sabir Hussain from Biomedical Engineering at NIT (National Institute of Technology) Rourkela has been recognized by Defense Research and Development Organization (DRDO).

According to media reports, this research by Sabir, son of Mubarak Hussain, who hails from Khandaghosh in East Bardhaman district of Bengal, recently got the first prize in the DRDO's Dare to Dream Innovation Contest. Sabir says, he often used to hear about the death of people due to excess blood in an accident. Only then vowed that after studying biomedical engineering, I would do something big, so that people's lives could be saved. This stop bleed powder will act as a lifeline for the people who are dying from death. Sabir's startup is now preparing to patent it.

In his statement, Sabir said that he had started research to make such an economical and effective powder during his studies. In 2017, he did M.Tech. After that, I got an assistant engineer job in a good company but did not join. In 2018, Sabir started startup Miracles Med Solutions Pvt Ltd to create and research drugs. Built a lab at a cost of 20 lakhs. The search for the drug to stop bleeding during studies was completed here. In a three-year effort, we developed a completely new formula for powder.

<https://english.newstracklive.com/news/national-swadeshi-powder-will-stop-bleeding-from-injury-in-just-30-seconds-mc23-nu-1052926-1.html>

**THE TIMES OF INDIA**

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## **India must build satellite to harness solar energy from space, former DRDO Chief Sivathanu Pillai says**

*By Shanmughasundaram J*

Chennai: India should work with friendly nations to build a solar power satellite and place it in orbit to harness solar power as the country is running out of conventional sources like coal, says former chief of DRDO A Sivathanu Pillai.

“One nation cannot do this. So, India should work with friendly nations, which have equal interest, to develop a technology to harness the solar energy from space for sustainable growth,” Pillai told TOI on the sideline of the TAN-ENERGY Summit 2019 here on Friday. The summit was organised by the Federation of Indian Chambers of Commerce and Industry (FICCI).

He said the heat energy should be harnessed and converted into microwaves. It should be channelised to the earth. “A floating station on the sea is the best option to receive it and convert it into electricity. The same can be used to operate desalination plants,” he said.

Technology should be developed, keeping in mind the living organism and birds in the earth, to safely transport the energy from the orbit to the earth, he added.

<https://timesofindia.indiatimes.com/city/chennai/india-must-build-satellite-to-harness-solar-energy-from-space-former-drdo-chief-sivathanu-pillai-says/articleshow/72403760.cms>