

Sputnik Light

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In news: Russia has released a new single-dose vaccine named Sputnik Light.

About the vaccine-

- It is developed by the **Russian Ministry of Health, the Gamaleya National Research Centre of Epidemiology and Microbiology and the Russian Direct Investment Fund (RDIF)**.
- It has also been registered and given authorisation for use.
- Sputnik V is a **two-dose vaccine** made from **recombinant adenovirus 26 (Ad26) and adenovirus 5 (Ad5)** (Common cold-causing viruses).
- The first dose (Ad26) is the prime vaccine, which is the first part of the Sputnik V vaccine and the second (Ad5) is the booster shot.
- It has also proved to be **effective against “all-new strains of coronavirus”**.
- After the Johnson and Johnson vaccine, this is **only the second vaccine that has shown relatively high efficacy (79.4 percent)** against the virus with just a single dose.
- The vaccine is easy to store at temperatures ranging from two to eight degrees Celsius.
- The Drugs Controller General of India (DCGI) approved the Sputnik V in April after **Dr Reddy’s Laboratories** conducted a successful bridge trial.

RDIF has tied up **five Indian vaccine makers** to produce over 850 million doses of the Sputnik V vaccine, other 4 drugmakers include **Gland Pharma, Hetero Pharma, Stellis Bio and Virchow Biotech**.

Mechanism-

- A recombinant vaccine uses specific parts of the virus.
- Since they are **made using only pieces of the virus**, they result in an extremely strong immune response that targets key parts of the virus.
- They can be administered to everyone and even people with weak immune systems and long-term health problems.

However, **limitation is** it may need booster shots to continue to provide protection against diseases

More information- [Sputnik V Vaccine – JournalsOfIndia](#)