

Media Note

From Vaccine to Vaccination

May 28, 2021

The manufacturing, testing, release and distribution of vaccines is a complex and multifactorial process with hundreds of steps, requiring a diverse pool of human resources. For vaccines to result in actual vaccination of people, highly coordinated efforts are required from international supply chain, manufacturers, regulators and State and Central government agencies.

Production scale-up of vaccines is a step-by-step process, involving several regulatory SOPs of GMP (Standard Operating Procedures of Good Manufacturing Practices). There is a four-month lag time for COVAXIN® to translate into actual vaccination.

The timeline for manufacturing, testing and release for a batch of COVAXIN® is approximately 120 days, depending on the technology framework and regulatory guidelines to be met. Thus, production batches of COVAXIN® that were initiated during March this year will be ready for supply only during the month of June.

Based on Central Drugs Standard Control Organisation (CDSCO) guidelines, all vaccines supplied in India are mandated by law to be submitted for testing and release to the Central Drugs Laboratory, Government of India. All batches of vaccines supplied to State and Central Governments are based on the allocation framework received from the Government of India.

The timeline for vaccine supplies to reach the depots of the State and Central Governments from Bharat Biotech's facilities is around two days. The vaccines received at these depots have to be further distributed by the State Governments to various districts within their respective states. This requires additional number of days. Pandemic vaccines are distributed by respective governments equitably across all sections of the population. Vaccines once available at the vaccination centers are then administered to recipients over a period of time, based on demand.

About Bharat Biotech

Bharat Biotech has established an excellent track record of innovation with more than 145 global patents, a wide product portfolio of more than 16 vaccines, 4 bio-therapeutics, registrations in more than 123 countries, and the World Health Organization (WHO) Pre-qualifications. Located in Genome Valley in Hyderabad, India, a hub for the global biotech industry, Bharat Biotech has built a world-class vaccine & bio-therapeutics, research & product development, Bio-Safety Level 3 manufacturing, and vaccine supply and distribution.

Having delivered close to 5 billion doses of vaccines worldwide, Bharat Biotech continues to lead innovation and has developed vaccines for influenza H1N1, Rotavirus, Japanese Encephalitis (JENVAC®), Rabies, Chikungunya, Zika, Cholera, and the world's first tetanus-toxoid conjugated vaccine for Typhoid. Bharat's commitment to global social innovation programs and public-private partnerships resulted in introducing path-breaking WHO pre-qualified vaccines BIOPOLIO®, ROTAVAC®, and Typhbar TCV®



combatting polio, rotavirus, typhoid infections, respectively. The acquisition of Chiron Behring Vaccines, has positioned Bharat Biotech as the world's largest rabies vaccine manufacturer with Chirorab® and Indirab®.

To learn more about Bharat Biotech, visit www.bharatbiotech.com.

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