

COVID-19 VACCINE ROLL OUT

Ministry of Health & Family Welfare 10th December2020

Global Landscape: COVID-19 Vaccine Candidates in Clinical Trials



203 candidates in preclinical stage

58 candidates in Clinical Trials

11: Phase 3
01: Phase 2/3
04: Phase 2
17: Phase 1/2
25: Phase 1

Sub-unit

Inactivated

mRNA

Other/unknown

Live-attenuated

- Non-replicating viral vector
- DNA
- Replicating viral vector
- Virus-like particle

Indian Landscape of COVID-19 Vaccines

S. No.	Product	Indian Manufacturer	Collaborator	Current stage
1	Covishield (Chimpanzee Adenovirus)	Serum Institute of India, Pune	Astra Zeneca	Phase II/III
2	Covaxin (Inactivated Virus)	Bharat Biotech International Ltd, Hyderabad	Indian Council of Medical Research, India	Phase III
3	ZyCoV-D (DNA vaccine)	Cadila Healthcare Ltd, Ahmedabad (Zydus Cadila)	Dept of Biotechnology, India	Phase II
4	Sputnik V (Human Adenovirus vaccine)	Dr. Reddy's lab., Hyderabad	Gamaleya National Center, Russia	Phase-II over, Phase-III to start next week.
5	NVX-CoV2373 (Protein Sub-unit)	Serum Institute of India, Pune	Novavax	Ph III under consideration in India
6	Recombinant Protein Antigen based vaccine	Biological E Ltd, Hyderabad	MIT, USA	Pre-clinical animal studies concluded. Phase I plus II human clinical trials started.
7	HGCO 19 (mRNA based vaccine)	Genova, Pune	HDT, USA	Pre clinical animal studies over. Clinical trials (Phase I and II) to start.
8	Inactivated rabies vector platform	Bharat Biotech International Ltd, Hyderabad	Thomas Jefferson University, USA	Pre-clinical (Advanced)

NEGVAC (National Expert Group on Vaccine Administration for COVID-19)

- Constituted on 7th August 2020, Member (Health) NITI Aayog is chair and Secretary, H&FW is Co-chair
- Representation of:
 - Relevant ministries of Government of India
 - Five **State governments** viz. Assam, Madhya Pradesh, Maharashtra, Tamil Nadu and Uttar Pradesh
 - Technical Experts
- NEGVAC provides guidance on:
 - Prioritization of population groups
 - Procurement and Inventory management
 - Vaccine selection and
 - Vaccine delivery and tracking mechanism

Key Considerations During COVID-19 Vaccination Planning

- The COVID-19 vaccination strategy has been formulated as per guidance of NEGVAC.
- Most candidate vaccines follow a 2-dose schedule.
 - One and three dose schedule for one candidate vaccine each.
- Vaccines are developed using multiple platforms, they are **not interchangeable**.
- A beneficiary MUST complete vaccination schedule using same vaccine product.
- Storage temperature for most candidate vaccines similar to other UIP vaccines (2° to 8° C)
- Roll-out of vaccine should be done following the election model.

Phase-1 of COVID-19 Vaccine Introduction in Priority Group

PHASE 1 – Approximately 30 Crore population

Health Care Workers (Approx. 1 Cr)

Frontline Workers (Approx. 2 Cr) Prioritized Age Group* (≥ 50 yrs. of age and < 50yrs with associated comorbid conditions) - approx. 26 Cr)

- ≥ 50 years group may be further sub-categorized into > 60 years and between 50-60 years
- Modalities for data collection of < 50yrs with associated comorbid conditions being finalized

*Age considered as on 1 January 2021

Goal is to protect people, minimize societal and economic impact by reducing COVID-19 mortality

Prioritized Population Groups for COVID 19 Vaccination

NEGVAC has prioritized Health Care Workers, Frontline Workers and persons with different age-groups for COVID-19 vaccination. These are defined as –

Healthcare Workers (HCWs)	Healthcare providers and workers in healthcare settings			
Frontline Workers (FLWs)	Personnel from State and Central Police department, Armed Forces, Home Guard and Civil Defense Organization including disaster management volunteers and Municipal Workers (excluding HCWs)			
Prioritized Age Group	Person above age of 50 years and persons <50 years with associated comorbidities			

Process of collecting database of HCWs has already begun across states and central line ministries (including Health facilities under Ministry of Home Affairs- MHA)

Creation of Frontline Workers database process is to be initiated

MoHFW already has eVIN (Electronic Vaccine Intelligence Network) which provides real-time information of vaccine stocks & storage temperature till the last mile

Being expanded to include beneficiaries for COVID-19 Vaccine

Frontline Worker Categories

Frontline workers are personnel from the following departments:

Ministry of Defense	Ministry of Home Affairs	Ministry of Housing & Urban Affairs	State Govt.
Army	Assam Rifles (AR)	Municipal Workers	State Police Staff
Air Force	Border Security Force (BSF)		
Navy Central Industrial Security Force (CISF			
Coast Guards	Coast Guards Central Reserve Police Force (CRPF)		
Indo Tibetan Border Police (ITBP)			
	National Security Guard (NSG)		
	Sashastra Seema Bal (SSB)		
	District Police Staff, Home Guard, Disaster Management Volunteers		

Overview on Operational Planning

Operational Planning



Planning for COVID-19 vaccination

Registration of Beneficiary

Vaccination Session planning

Capacity building

Universal Immunization Programme (Scope & Scale)



CoWIN Digital Platform for COVID-19Vaccine Delivery

Co-WIN: Digital Platform for COVID-19 Vaccine Delivery



Registered URL – <u>www.cowin.gov.in</u> and <u>www.app.cowin.gov.in</u>

Co-WIN: Digital Platform for COVID-19 Vaccine Delivery



Co-WIN Vaccine Delivery Management System



Beneficiary Registration to Vaccination

 Beneficiary Registration
 Session Planning
Session Site Allocation
 Beneficiary Listed for Session
 SMS to Beneficiary with vaccination date/time
 Vaccination done at Vaccination Site. SMS sent.
 Vaccination Certificate after completion of vaccination

Guiding Principles of Vaccine Eligibility for Beneficiaries

Registration of Beneficiaries



Beneficiaries for Vaccination



Co-WIN Modules



Co-WIN Integration with Other Platforms





With **DigiLocker** for photo IDs and Digital vaccination certificate



Integrated with **SafeVac** for AEFI reporting at Vaccinator and DIO Level Vaccinator Officer: – Trained for injectables (Doctors (MBBS / BDS), Staff Nurse, Pharmacist, ANM, LHV) If session load 100-200: Add one more vaccinator

Vaccination Officer-1: - checks registration status of beneficiary (Police, home guard, Civil defense, NCC, NSS, NYK)

Vaccination Officer-2: To authenticate / verify document Health / ICDS / other government department e.g. election model

Vaccination Officer-3 & 4: Support staff - Crowd management, Ensure 30-minute wait, IEC / communication ICDS / other government department e.g. election model

If session load is beyond 200 - deploy additional team

Vaccination Completion



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Level of Operations (To be defined by MHA)

(Level-1 MHA Nodal Officer)

Will receive username & password from MoHFW and create username & password for Level 2/ Department

(Level-2 Organization HQ like CISF, BSF, CRPF etc.)

Create username & password for level 3 and share the renamed template with level 3. Rights to edit data uploaded by level 3

(Level-3 Field Unit like DIG, SSP etc.)

Will ensure data collection, collation, verification and upload of data



Frontline Workers



Frontline Workers Data Collection Process

Appointment of Nodal Officers at each Level

Define Template (drop down list) for FLWs for database

Compile data of FLWs as per the Template

The data entry of the FLWs will be done in two ways Bulk Upload using www.co-vin.in without Aadhaar

Beneficiary data entry in application with/without Aadhaar

Bulk Uploading Templates on <u>www.covin.gov.in</u>

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Ramesh Kumar	4441112	2223 Block Administrator	Maharashtra	Pune	Ambegaon	•••	
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Download the list of failed records, get it corrected and re-upload

emo available at <u>https://uat.co-vin.in/login</u>

Status Update

- On 4th Nov and 9th Nov, meeting was conducted by Secretary (Home Affairs) on the issue of collection of data fort Healthcare Workers and Frontline Workers.
- A detailed demonstration of database uploading was also given to all concerned.
- The same has not been compiled and submitted so far.
- On 8th December , another orientation on CoWIN Module was done along with CRPF, CAPF, Assam Rifles, SSB, CISF and BSF for FLWs data collection through Video Conferencing.
- Only level 1 created Sh. S.K. Sahi & level 2 Created for 8 Units , CRPF, BSF, Assam Rifles, CISF, ITBP, SSB, NSG and NDRF

S No	Name	Mobile No	Access Level
1	Sh M S Bhatia IG, CRPF	9431138605	Level 2 FLW CRPF
2	Sh R S Rathore IG, BSF	9408764945	Level 2 FLW BSF
3	Brig Surendra Singh, ARs	9774470450	Level 2 FLW ARs
4	Sh Devdatta Singh IG, CISF	9899721689	Level 2 FLW CISF
5	Sh DS Chaudhary ADG, ITBP	9971555400	Level 2 FLW ITBP
6	Sh P Stobdan IG, SSB	8800940101	Level 2 FLW SSB
7	Sh Abhishek Trivedi IG, NSG	9447322108	Level 2 FLW NSG
8	Sh. A K Sengar IG, NDRF	8004042000	Level 2 FLW NDRF



Thank You