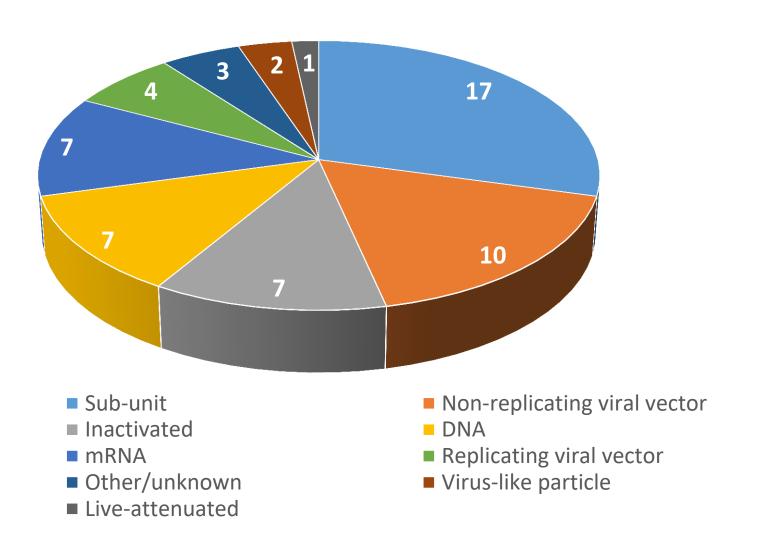


COVID-19 VACCINE ROLL OUT

Ministry of Health & Family Welfare

10th December 2020

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

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	•	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	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

UIP Scope and experiences of Large-Scale Campaigns

Planning for COVID-19 vaccination

Registration of Beneficiary

Vaccination Session planning

Capacity building

Universal Immunization Programme (Scope & Scale)

Annual Cohort

2.6 crore newborns;

2.9 crore pregnant women

Vaccine against 12 Vaccine Preventable Diseases

10 nation wide; 2 sub-nationally [Pneumococcal Conjugate Vaccine (PCV): under expansion; JE: Endemic Districts]

One of the largest Public Health Programmes

Approx. 1.2 crore sessions planned per year

Total 28,947 cold chain points for storage and distribution of vaccines

CoVIN Digital Platform for COVID-19 Vaccine Delivery

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



- ✓ COVID-19 Vaccine Distribution & Management System
- ✓ First end-to-end system across the world
- ✓ Electronic Beneficiary Registration
- ✓ Automated Beneficiary Session Allocation
- ✓ Integrated with Aadhaar/UHID (authentication), DigiLocker (document verification) & SafeVac (AEFI reporting)



- Integrated Vaccine Supply Chain Management System
- Implemented in over 34 States/UTs and 720+ Districts
- 28,500 Cold Chain Points
- 23,000 Temperature Loggers
- 28,000 eVIN Users

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



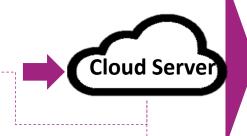
Co-WIN Mobile App

Easy-to-use **mobile app** for recording vaccine data



Temperature Logger

Temperature loggers for accurate remote temperature monitoring in real time







Co-WIN Dashboard

Co-WIN App

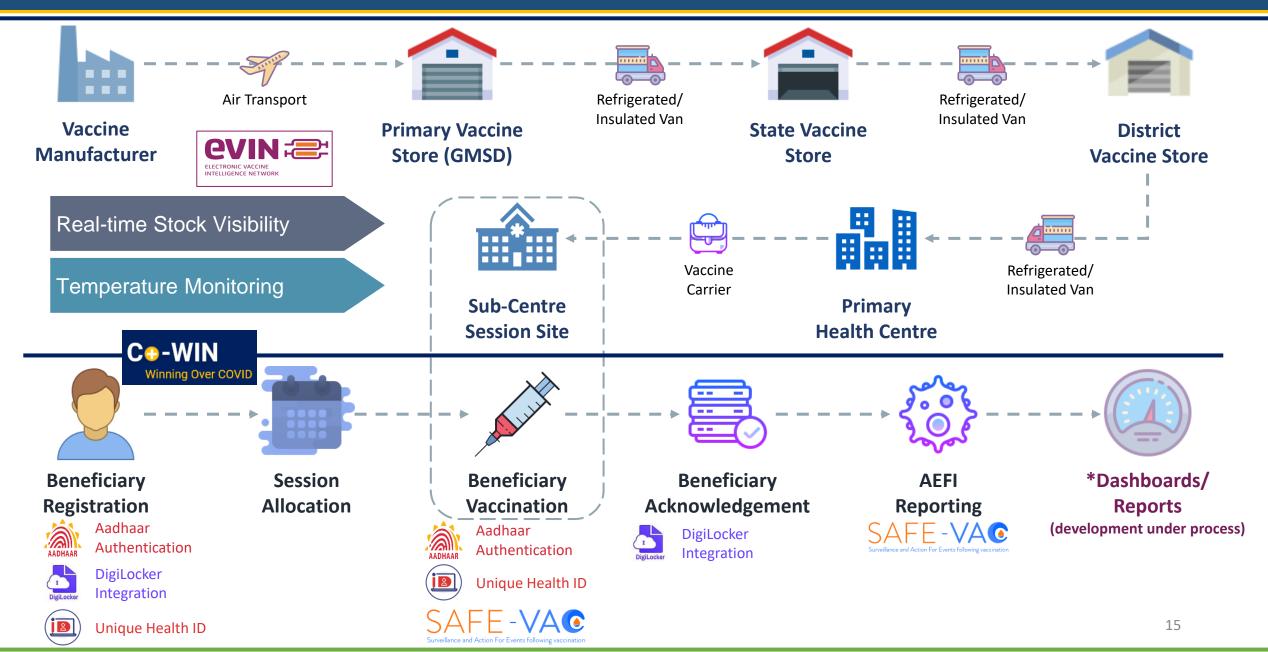
Web interface for real-time visibility





- Beneficiaries tracking
- Vaccination Session Management

Co-WIN Vaccine Delivery Management System



Beneficiary Registration to Vaccination

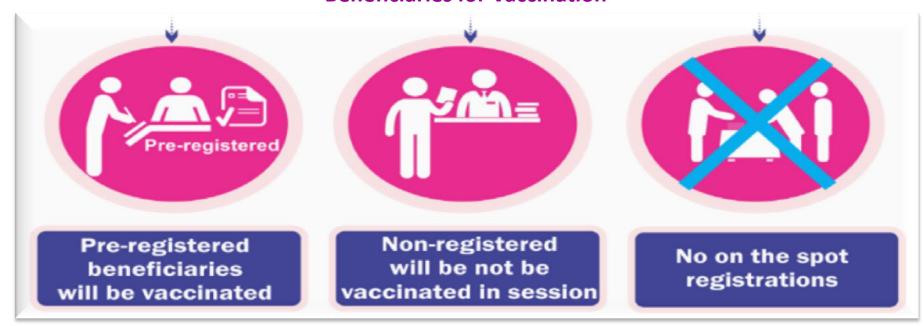
- Beneficiary Registration
- Session Planning
- Session Site Allocation
- Beneficiary Listed for Session
- SMS to Beneficiary with vaccination date/time
- Vaccination done at Vaccination Site. SMS sent.
- Vaccination Certificate after completion of vaccination

Guiding Principles of Vaccine Eligibility for Beneficiaries

Registration of Beneficiaries



Beneficiaries for Vaccination



Co-WIN Modules

Administrators' Module

Inventory Management **Temperature Monitoring**

Beneficiary Registration **Session Planning**

Session

Session

Creation

Allocation

Vaccination

Analytics/ Dashboards

National Admin



State Admin



- Individual User Registration
- Role Mapping
- Bulk Upload User Registration



State Admin

Admin



District Admin



Handler Inventory

 Material Allocation

Receipt

Inventory Management **Cold Chain** Handler



- Temperature **Monitoring**
- Real Time Stock Visibility

National District Admin Admin



District Admin



Surveyor

 Bulk Upload Beneficiary Registration



- Self Registration
- Status Track

Vaccinator 7



- Beneficiary Verification
- Vaccination
- AEFI Reporting

Program Manager



- Co-WIN **Dashboards**
- Users
- Beneficiary Coverage
- Beneficiary Dropout
- Sessions Planned v/s Sessions Held
- Vaccine Utilization

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

Five Member Team at Session Site

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

SMS & Certificate template

Beneficiary vaccinated

SMS notification for particular dose with next date & time for subsequent dose

Digital certificate with QR Code





Certificate of Vaccination



This is to certify that *Mrs. Sangeeta* Date of Birth 11/4/1967 resident of 8-101 *Malviya Nagar, Jaipur, Rajasthan, 302017* is successfully vaccinated for Corona Virus as per schedule below:

Dose	Date	Place	Vaccinator	Vaccine Batch #
1 st	4/4/2021	AWC1, Jaipur	Santosh	1120BCCL-SII
2 nd	5/7/2021	AWC1, Jaipur	Santosh	234ME22-SII
3 rd	7/10/2021	AWC1, Jaipur	Santosh	3NJC2222-SII



Authorized Signatory

Level of Operations (To be defined by MHA)

(Level-1 MHA Nodal Officer)

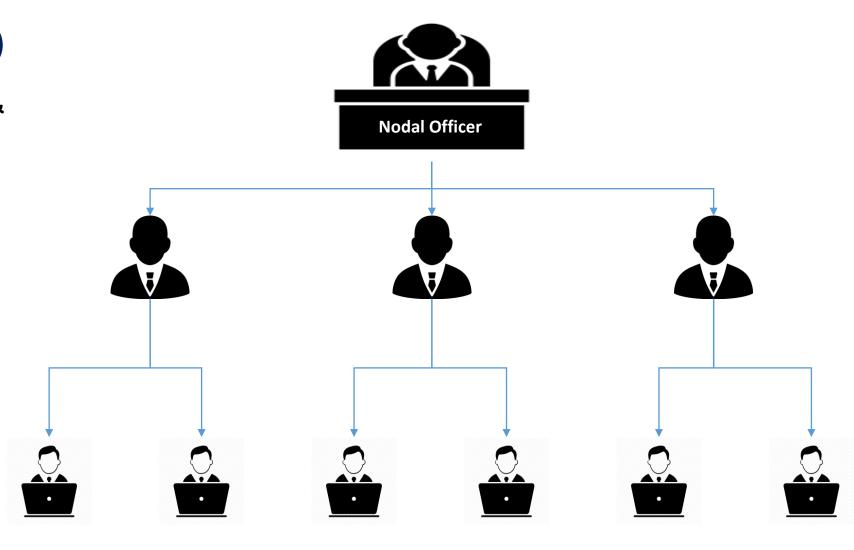
Will receive username & password from MoHFW and create username & password for Level 2/ Department

(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 under Ministry of Home Affairs

Central Police Forces

State Police Forces

Home Guards,
Civil Defense
Volunteers,
Disaster
Management
Volunteers

Municipal
Workers of
Urban Local
Bodies
in UTs

Frontline Workers Data Collection Process

Appointment of Nodal Officers at each Level

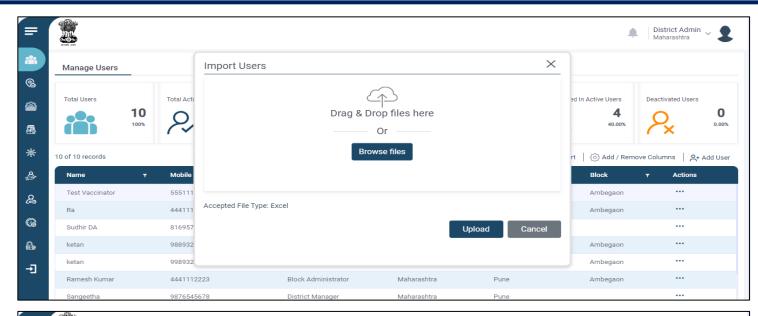
<u>Define Template (drop down list) for FLWs for database</u> <u>updation</u>

Compile data of FLWs as per the Template

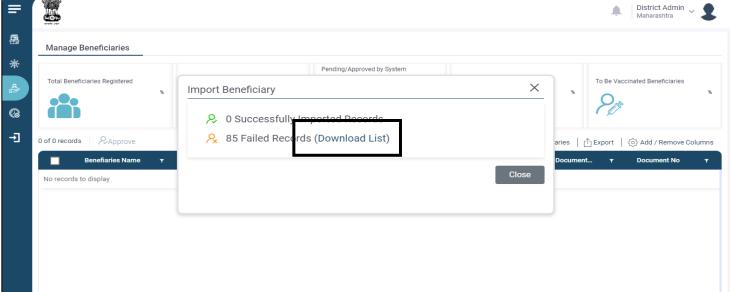
The data entry of the FLWs will be done in two ways **Bulk Upload** using www.co-vin.in without Aadhaar

Beneficiary data entry in application with/without Aadhaar

Bulk Uploading Templates on www.covin.gov.in



 Click on browse files and select the excel sheet of the Field Unit (Level 3) you want to upload from your computer and then click on upload



 Download the list of failed records, get it corrected and re-upload

Demo available at https://uat.co-vin.in/login

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

Tasks Ahead

Creation of L3 users Categories of Field units Categories of Frontline workers in each units Bulk Upload/ Entry in Portal Finalize Timelines to complete the database

Thank You