

Logistical Process of Handling COVID-19 Cargo at Delhi Airport

Sanjiv Edward | Chief Commercial Officer
Delhi International Airport Ltd.





Planning for COVID Cargo was Complex & Challenging



CART

COUNCIL AVIATION RECOVERY TASK FORCE

TAKE-OFF GUIDANCE

- <https://www.icao.int/covid/cart/Pages/Cargo-Module.aspx>
- Cargo Module - Road Feeder to Freight Reception and Freight Pick Up
- Cargo Module - Within Cargo facility - Origin - Destination – Transit
- Cargo Module - Cargo facility to ramp - Origin - Transit - Destination
- Cargo Module - Aircraft Loading - Unloading

CART

COUNCIL AVIATION RECOVERY TASK FORCE

TAKE-OFF GUIDANCE

- **Onsite Biosafety.** Regular Cleaning and Disinfection of Surface
- **Appropriate PPE** be used and Practice Personal Hygiene Principles
- To avoid cross contamination, **MHE should be Cleaned and Disinfected**
- Employees should be educated and **Display of Posters**
- **Physical distancing** of at least 1 Meter should be Kept
- Close Proximity for Handover Minimized

THE NEW CORONA VIRUS

Respiratory Syndrome from Wuhan, China- (2019-nCoV)

WHAT IS IT?

Corona is large group of viruses which can infect both humans and animals with cold-related diseases. The intensity of the infection ranges from common colds to acute respiratory syndrome.

However, the new strain of Coronavirus, called 2019-nCoV, is a novel virus to humans. So the information related to the disease, including symptoms and means of treatment is limited.

The CDC, in cooperation with WHO and international experts, are working to combat the virus.

IS THERE A TREATMENT OR A VACCINE?

There is currently no treatment beyond supportive medical care to relieve symptoms.



HOW CAN I PROTECT MYSELF AND MY PATIENTS FROM THE CORONAVIRUS?

AVOID CONTACT WITH OTHERS, AND WASH YOUR HANDS FREQUENTLY

USE TISSUES WHEN COUGHING OR BLOWING NOSE

WASH AND PREPARE FOOD CAREFULLY



WHAT ARE THE SYMPTOMS OF THE VIRUS?

COUGHING

FEVER

SHORTNESS OF BREATH

PNEUMONIA

VOMITING

DIARRHEA

In advanced cases, the patient can have serious complications that can result in death, such as:

SEVERE PNEUMONIA

KIDNEY FAILURE

HOW DOES THE VIRUS TRANSMIT?

Direct contact with infected patients.

Droplets from patient's coughing and sneezing.

Contact with patient's belongings followed by touching your nose or mouth.

THE NEW CORONA VIRUS

RESPIRATORY SYNDROME FROM WUHAN CHINA -(2019-nCoV)



कोरोना वायरस क्या है ?

कोरोना एक बहुत बड़ा वायरस ग्रुप है, जो कि मनुष्य एवं जानवर दोनों को ठंड से संबंधित बिमारीयों से संक्रमित कर सकता है। इसके संक्रमण की तीव्रता सामान्य ठंड से लेकर स्वांस की परेशानी तक हो सकती है जैसे कोरोना वायरस 2019-nCoV, मनुष्य के लिए नई तरह की वायरस है। इसलिए इससे संबंधित जानकारी एवं इलाज सीमित हैं।

CDC एवं विश्व स्वास्थ्य संगठन (WHO) संगठन के वैज्ञानिक इस वायरस से पीड़ित मरीजों के उपचार की तकनीक ढूँढने में लगे हैं।

क्या इसका इलाज या टीकाकरण उपलब्ध है।

वर्तमान में सामान्य चिकित्सा उपचार के अतिरिक्त किसी प्रकार का इलाज उपलब्ध नहीं है।



मैं स्वयं और इससे संक्रमित रोगी का बचाव कैसे कर सकता हूँ ?

दूसरे से सम्पर्क में आने से बचें एवं बार-बार हाथ को धोते रहें।

स्वच्छता की अच्छी आदतों का प्रयोग करें

खाँसी एवं जुकाम के स्थिति में टिस्सू पेपर का प्रयोग करें

खाद्य पदार्थों को अच्छे ढंग से धोकर एवं पकाकर खायें।

अच्छा व्यायाम एवं अच्छी नींद शरीर की रोग प्रतिरोधक क्षमता को बढ़ाती है।

इस वायरस के लक्षण क्या है ?

खाँसना

बुखार

सॉस लेने में परेशानी

निमोनिया

उल्टी

दस्त

परेशानी ज्यादा बढ़ने पर मरीज को निम्नलिखित बीमारीयों भी हो सकती है।

गंभीर निमोनिया

किडनी खराब

यह वायरस कैसे फैलता है।

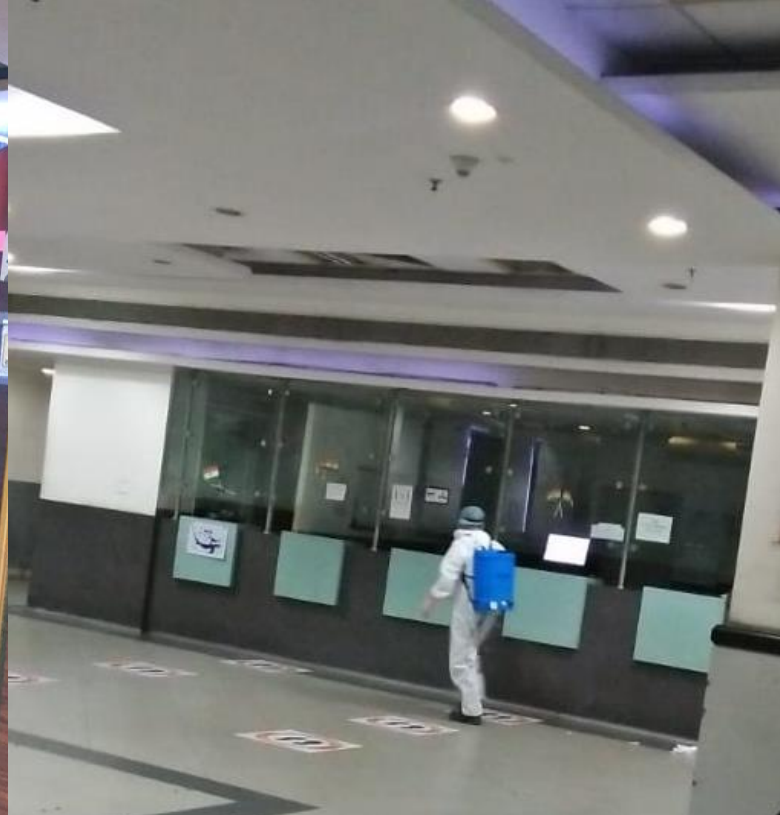
संक्रमित रोगी के सम्पर्क में आने से

संक्रमित रोगी के खाँसी और छीकने के सीधे सम्पर्क में आने से









संक्रमित व्यक्ति द्वारा छूए हुए किसी भी वस्तुओं के सम्पर्क में आने से

Please Keep The Door Close





PREVENTIVE STEPS FROM CORONAVIRUS

 <p>Use face covers/masks</p>	 <p>Spitting is strictly prohibited</p>
 <p>Maintain adequate social distancing</p>	 <p>Thermal screening of all entrants and staff</p>
 <p>Wash hands with soap/sanitizers (as required)</p>	 <p>Maintain 6 ft distance while queuing for entry in public places</p>
 <p>Respiratory etiquettes</p> <ul style="list-style-type: none">Cover mouth & nose with tissue/handkerchief/flexed elbowDispose off used tissues properly	 <p>Staggering of visitors/patrons</p>





Planning for COVID Cargo was Complex & Challenging

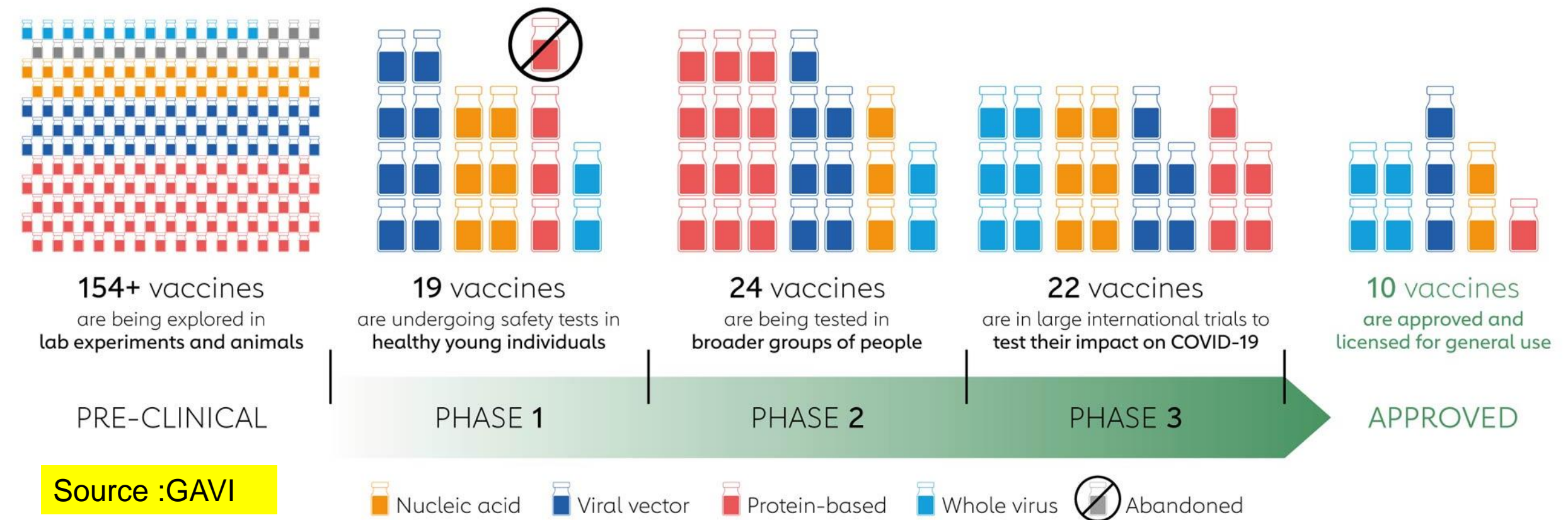




EVERYONE WAS A
COVID RISK AND
SUPPLYCHAIN WAS
NO LONGER A
SECURE CHAIN !

COMPLEXITY & CHALLENGES – 2nd

- CURRENTLY **>250** CANDIDATES AT VARIOUS STAGES
- PLAN FOR **MULTIPLE ORIGINS / DESTINATIONS**






EVENTUALLY 10 BILLION DOSES WILL BE TRANSPORTED
ACROSS THE GLOBE OVER 2 YEARS

COMPLEXITY & CHALLENGES – 4th



VARIOUS HANDLING REQUIREMENT INCLUDING UPTO -70°C

Key features of the COVID-19 vaccine frontrunners

	Pfizer/ BioNTech BNT162b2	Moderna mRNA-1273	AstraZeneca/ Oxford ChAdOx1-S/ AZD1222	Janssen (Johnson & Johnson) Ad26COV51
Type of vaccine	mRNA in lipid nanoparticles 	mRNA in lipid nanoparticles 	Non-replicating adenovirus vector 	Non-replicating adenovirus vector 
Dosage	2 doses 21 days apart	2 doses 28 days apart	2 doses 28 days apart	1 dose or 2 doses 56 days apart
Antibody detection	7 days after booster	14 days after booster	14 days after booster	14 days after booster
Efficacy	95%	95%	70%	N.A.
Planned production volume	50M (2020) 1.3B (2021)	20M (2020) 0.5-1B (2021)	3B (2021)	1B (2021)
Storage requirement	-70°C±10°C	-20°C	2-8 °C	2-8 °C
Shelf life once thawed	5 days	30 days	180 days	180 days
Phase III trial enrollment	43,000 (age 16-85)	30,000 (age 18+)	11,500 (age 18+)	Single dose 60,000 Two dose 30,000 (age 18 +)
Percentage high-risk population in phase III trial	40.90%	42%	N.A.	N.A.

Like others we went for our

PPEs..

Unlike others our PPE was different

P eople

P lace

E nterprise

- We **Engaged** core **Logistic Player** to ensure Supply Chain
- We **Trained** to handle Extreme Temperature / Vaccine Handling
- We Provided for Operating **24X7** Operations in shifts.
- We made **Provisions** for hosting Teams **@ Terminal** (Boarding).
- We created **Bio Secure Bubble** with **Strict Access Control**
- We provided all necessary kit to **Ensure Personal Safety**
- We ensured **Regular Sanitization** and **Crowd Control**

- We Dedicated **6 New Freighter Bays** (B747 – 800F)
- We Augmented Approx. **14,000 Ft²** to handle **-20° C to +8° C**
- We Provisioned for **100 Charging Points** for Cool Containers
- We Set Aside Area for **TP Cargo** at Airside **Transshipment Center**
- We Created **Additional Warehouse** Capacity – **38,000 Ft²**
- We ensured **Green Channel** for Fast Delivery. **Physical + Process**
- We Installed **40Ft Cold Containers** for Additional Capacity needs

ENTERPRISE (PRE COVID) which helps...



- We are **Largest Cargo Handlers** – On avg. **2,750 MTs/DAY (FY19)**
- We are – **GDP, AEO, IATA e360 (e Freight Station)**
- We created the **Widest Network**
 - 65 Airlines, 20+ NSO Freighters. **>10,000 Freighters ATMs (FY20)**
- We have **12 Dedicated Cargo Bays**. 8 Bays B747-8 Compliant.
 - **3 Separate & Simultaneous Nose Loading Bays Options.**
- **Technology Backed 24X7 Cargo Operations**
 - eGate Pass, Truck Slot, Paperless Import/Export Processing...

ENTERPRISE (POST COVID)



- We formed a **Project Team**
 - Terminals, Airlines, Freighters, GHA, Regulators, FFs, Agents.
- We Requested Customs for **Priority Clearance**. Implemented
- We Ensured **Cross Utilization of Assets** – Import Shipment @ Export.
- We Devised a **Process with Delhi Police** for Free Truck Movement
- We Created **Helpdesk** for States Governments for all Shipments.
- We Dedicated **Space on Airside** for Inbound Cargo Surge.
 - **30 Secured Multiple Airside Locations** with **strict handover SOP**.



WHAT WAS THE EXPECTATION ?

EXPECTATION - ENSURED

- **SPEED** | Of Quick Processing & Delivery.
- **SURETY** | Of Cargo Being Processed at Any Given Point of Time
- **SAFETY** | Of Maintenance of Temperature / Handling Requirements
- **CONTINUITY** | Of Speed, Surety, Safety Irrespective of Day / Time
- **VALUE ADDS** | Of Services on Demand – Gel Packs, Further Distribution...
- **INTERVENTION** | Of Technology – e Gate Pass, e DO, e AWB, 100%EDI

RESULTS



- DEL was Nominated a National Distribution Hub for PPEs
- Till Date >38Million Kits Distributed via DEL.

RESULTS

- DEL has been receiving Vaccines from 1st DAY of Distribution
- DEL has been nominated as a Distribution / TP Point
- DEL has made Multiple Modular Temperature Zones
- Average Delivery Time : 8MINs. Fastest in 6MINs Flat
- Can bring down Temp up to -40°C

RUSH VACCINE
LIFE SAVING MEDICINES REQUIRING COLD STORAGE
TO BE STORED BETWEEN +2°C AND +8°C



Product : ChAdOx1 nCoV-19 Corona Virus
Vaccine (Recombinant)

Batch No. :

41202010

Mfg

Quantity : 4 x 6 x 50 x 5 ml - 10 dose vials (1200 vials)

Box No.

BY AIR

TO

MEDICAL STORES

WILSON

DELHI

CONTACT NO: 9718550087, 9818320276

7 up 22

Manufactured by MFG. LIC. NO.: 10
SERUM INSTITUTE OF INDIA PVT. LTD.
212/2, Madhapur, Pune 411 028, INDIA

Marketed by
SERUM INSTITUTE LIFE SCIENCES PVT. LTD.
401, Sarosh Bhavan, 16-B/1, Dr. Ambedkar Road
Pune-411 001, INDIA

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TEAM COLLABORATION EXCELS



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CTOs

TRUCKERS

GHA

THE UNSUNG



PROJECT SANJIVANI COOL ZONE IGI AIRPORT





**WAITING FOR MORE & HAPPY TO CONTRIBUTE
TO THE GLOBAL FIGHT AGAINST COVID 19.**

OUR COMMITMENT FOR SURE. THANKS.