



National Policy Workshop Webinar Series
On
Countermeasures for Riverine and Marine Plastic Litter in India
12 -22 May 2020

*Session 5 : Impact of COVID-19 on Plastic Waste Generation
(Used PPEs and Wastes from HCFs) and Upcoming Challenges
20th May 2020 : 1430 to 1700 hours*

COVID-19 and Pandemics – The implications on Plastic material consumption and Trainings for Health Sector including PPEs

Dr. N. K. Dhamija
Advisor, Ministry of Health & Family Welfare
Government of India

PANDEMICS.....

BEFORE 20TH CENTURY

(An estimated over 300 million deaths)

165-180 A.D. : ANTONINE PLAGUE caused 5 million deaths

541-542 A.D. : Plague of Justinian caused 30-50 million deaths

1347-1352 : Black Death, The Plague, ? originated in Asia, 75-200 million deaths

1520 : New World Small Pox caused 25-55 million deaths

1629-1631 : Italian Plague, caused 1 million deaths

1665 : Great Plague of London, caused 75,000-100,000 deaths

1885 : Third Plague, caused 12 million deaths

1889 : Russian Flu, caused 1 million deaths

Late 1800s : Yellow Fever, caused nearly 150,000 deaths

PANDEMICS.....

20TH CENTURY

(An estimated over 52 million lives already lost)

1918 : The Spanish Flu, by H1N1 Virus, from birds to humans, infected an estimated 500 million & caused nearly 50 mn deaths

1957 : Asian Flu, caused 1 million deaths

1968 : Hongkong Flu, caused 1 million deaths

2002 : Severe Acute Respiratory Syndrome (SARS), became the first pandemic of the 21st century caused by a Corona Virus, originated in China, infected an estimated 8000 people in 29 countries and had a mortality rate of around 10% , caused nearly 800 deaths

2009 : Swine Flu, affected an estimated 60.8 mn, caused 20,000 deaths

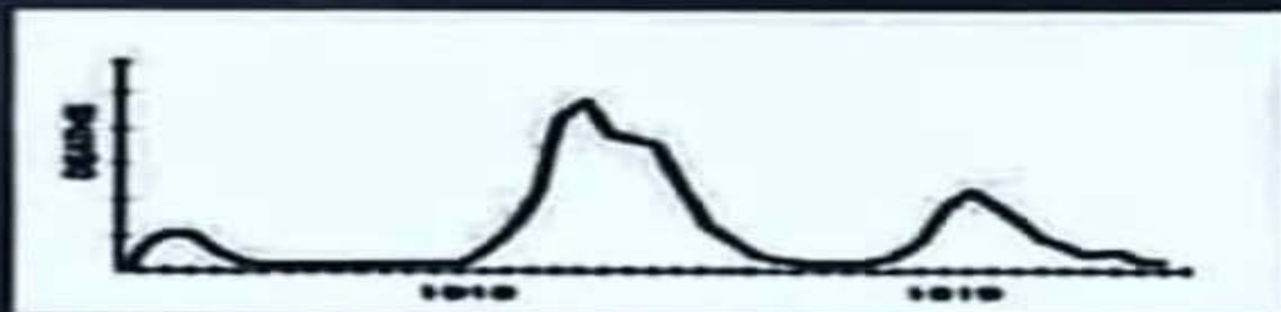
2014 : Ebola, caused nearly 11,000 deaths

2015 : Middle East Respiratory Syndrome (MERS) caused 1000 deaths

allow a repeat of same mistake in 1918....

LESSONS OF HISTORY

The most severe pandemic in history was the Spanish Flu of 1918. It lasted for 2 years, in 3 waves, with 500 million people infected and 50 million deaths. Most of the fatalities happened in the 2nd wave. The people felt so bad about the quarantine and social distancing measures that when they were first lifted, the people rejoiced in the streets with abandon. In the coming weeks, the 2nd wave occurred, with tens of millions dead.



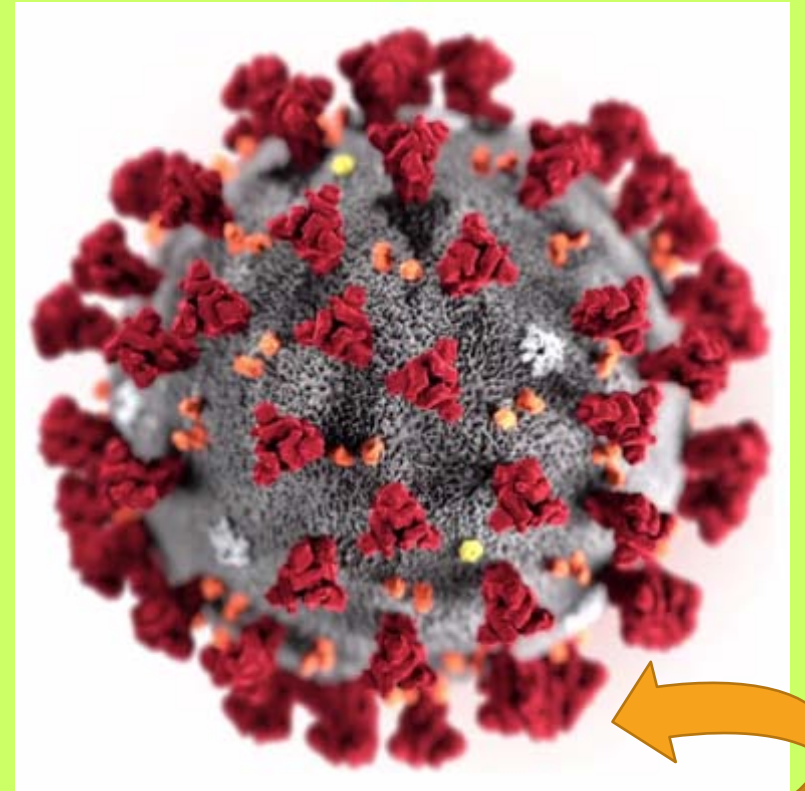
**Let's not repeat
history in the
time of Covid-19**

WHAT IS A NOVEL CORONAVIRUS/COVID-19 ?

Coronaviruses are a large family of viruses that cause a wide range of illnesses from common cold to more severe diseases like:

- ✓ Severe Acute Respiratory Syndrome (SARS)
- ✓ Middle East Respiratory Syndrome (MERS)

New viruses periodically appear in the world



**Novel Coronavirus 2019 / nCoV is a type of coronavirus that has not been previously identified in humans
COVID-19 is the disease caused by it**

THE IMPACT OF COVID-19 ON THE MOVEMENT TO END PLASTIC WASTE

- **Versatile, Affordable and Ever-present plastics have been essential to keeping hospitals running and protecting our frontline workers during the COVID-19 pandemic. They're the bedrock of medical equipment and protective gear**
- **As demand skyrockets for masks, goggles, face shields, gloves, gowns and disposable bags etc. one thing is clear: plastics are indispensable, especially during a pandemic**
- **A Study recently found that the virus can live up to 24 hours on paper, cardboard and fabrics, compared to up to 72 hours on plastics and other hard, shiny surfaces**

PLASTICS USE RISE SINCE 2007



- We use plastic extensively
- Rapid growth in global plastic production was not realized until the 1950s
- Over the next 65 years, annual production of plastics increased nearly 200-fold to 381 million tonnes and India is Expected to consume about 20 million tonnes in 2020
- COVID-19 Impact is Extra

THAT LEAVES US WITH.....

**26000 tonnes of waste everyday.....
MINUS PANDEMIC IMPACT....**



9000 Elephants

EQUAL TO



86 Boeing 747

We generate 11 KG per person

COVID - 19 IMPACT (HEALTH SECTOR RELATED)

DIRECTLY HEALTH SECTOR RELATED

- Goggles
- Face shield
- IV fluid bottles
- Cannulas
- Catheters IV sets
- Urobags
- Blood bags
- BT sets
- Syringes
- Suction catheters
- ET tubes
- Oxygen masks & tubes,
- BMW carrybags

INDIRECTLY RELATED TO HEALTH SECTOR

- Water bottles
- Take away packaging
- Cold drink bottles
- Disposables' plastic items
- Polybags & Plastic Garbage Bags
- Sanitizer bottles

AND MANY MORE

PPE

PERSONAL PROTECTIVE EQUIPMENT

- **Cap (Head Gear)**
- **Mask - Triple layered medical mask, N 95 mask, FFP 1 / FFP 2 mask, Cloth mask (for general public use)**
- **Goggles**
- **Face shield**
- **Plastic gown**
- **Coverall**
- **Shoe cover**
- **Gloves-Latex, Nitrile, Vinyl**

NOTE: Specifications of PPE are given in Annexure A of Rationale of PPE use by MoHFW

PPE FOR COVID -19

Face Mask



Nose + mouth

N95 Mask



Nose + mouth

Face shield



Eyes + nose + mouth

Goggle



Eyes

Gown



Body

Apron



Body

Gloves



Hands

Head cover



Head + hair

COVID-19 STATUS TODAY

GLOBAL

- 212 Countries
- To cross 5 Million cases today (49,85,825)
- Recovered: 19,58,441
- Nearly 94,000 cases per day
- Nearly 4,500 deaths per day
- Minimum Likely Deaths 3,31,702

INDIA : Will be Top Ten in a week's Time

- Total Cases : 1,06,750
- Active Cases : 61,149
- Cured / Discharged : 42,297
- Deaths : 3,303
- Migrated : 1

Doubling Time :

- ❖ **India 13 days**
- ❖ USA 27 days
- ❖ UK 27 days
- ❖ Spain 40 days
- ❖ Russia 13 days
- ❖ Italy 46 days
- ❖ Brazil 11days
- ❖ France 41 days
- ❖ Germany 44 days
- ❖ Turkey 30 days
- ❖ Malaysia 42 days
- ❖ Singapore 20 days
- ❖ China 67 days
- ❖ HK 50 days

COVID WARRIORS - HRH IN INDIA

❖ MBBS Doctors	:	9,27,000
❖ MBBS Students	:	1,53,656
❖ Ayush	:	8,32,445
Para-medical (Allied Health Professionals)		
Nearly 70,00,000 (7 Million)		
❖ Nurses	:	17,48,363
❖ Dentists	:	2,17,000
❖ Pharmacists	:	11,25,222
❖ LAB Volunteers	:	43,736
❖ ASHA Workers	:	10,07.045

Nearly 95 Lakh (9.5 Million)

HOSPITALS OTHER THAN CENTRAL GOVT. AND STATE GOVT. HEALTHCARE FACILITIES

❖ ESIC Hospitals	:	49
❖ CP SEs Hospitals	:	201
❖ Railway Hospitals	:	50
❖ Ordinance & HAL Hospitals:		13
❖ Port Hospitals	:	12

HRH of these Hospitals

<https://covidwarriors.gov.in/>

COVID WARRIORS OTHER THAN HRH IN INDIA

▪ AWW	: 25,43,113	▪ Ex-Servicemen	: 1,79,918
▪ Vet. & Para-Vet	: 83,256	▪ NYKS	: 24,17,773
▪ PMKVY-Trained	: 1,08,189	▪ NSS	: 17,91,672
▪ DAY NULM	: 45,385	▪ NCC	: 62,024
Trained HPs		▪ Gram Rozgar	: 1,72,959
▪ DDU GKY	: 43,944	Sewaks	
Trained HPs		▪ Postmen &	: 1.05.731
▪ Psycho-Social	: 1,16,346	Dak Del Agents	
Care HPs		▪ Civil Defence	: 57,394
▪ Fire Services	: 23,211	▪ Home Guards	: 1,08,694
▪ Panchayat	: 2,37,917		
Secretaries			

Nearly 81 lakh (8.1 Million)

<https://covidwarriors.gov.in>

VIRTUAL TRAININGS OF HEALTHCARE WORKERS ON COVID 19

- Virtual trainings of healthcare workers of different cadres are being done through digital platforms (Zoom, Webex etc.)
- Trainings/webinars/courses conducted by :
 - ❑ DOPT-Ministry of Home Affairs (iGOT)
 - ❑ WHO (World Health Organization)
 - ❑ Central & State Governments' Organizations like AIIMS , NPC etc.
 - ❑ Donor Partners and International NGOs like JHPIEGO India, UNICEF, UNFPA etc.
 - ❑ Associations & societies like IMA, DMAs, IAP, IAPsy, NNF, API, FOGSI, ISHRAE, GIHM, Six Sigma Healthcare, eLets, etc.

Trainings done on COVID overview, facility preparedness & readiness, IPC practices, clinical management etc.

IGOT (INTEGRATED GOVERNMENT ONLINE TRAINING) DOPT, MHA

No: T-16017/5/2020-iGOT
Government of India
Ministry of Personnel, Public Grievances & Pensions
D/o Personnel & Training
(Training Division)

Old JNU Campus, New Delhi
Dated: 07th April, 2020

OFFICE MEMORANDUM

Subject: iGOT (Integrated Govt. Online Training) courses on DIKSHA platform on COVID-19 pandemic.

The undersigned is directed to say that as all are aware, India faces a significantly higher threat from COVID-19 pandemic. It will be pertinent to take note of the fact that India's first line of workers is already engaged in COVID relief and doing commendable job. However, a larger force will be needed to replace the first line and to tackle the exponential or geometric increase in positive COVID cases in the subsequent stages of the pandemic.

2. Accordingly, to take care of the training needs of the frontline workers, the launch of the iGOT platform has been fast-forwarded, and using the MoHRD DIKSHA as a host, has been retro-fitted to the purpose requested by the Empowered Group of Officers led by Shri Arun Panda.

3. A version of iGOT fitted to these needs has been launched with the following URL link - <https://igot.gov.in>. The platform will provide the training modules on flexitime and on site basis so that the COVID response can be delivered at scale for the workforce needed to tackle the pandemic.

4. Courses on iGOT have been launched for Doctors, Nurses, Paramedics, Hygiene Workers, Technicians, Auxiliary Nursing Midwives (ANMs), State Govt. Officers, Civil Defence Officials,

...02/-

IMMEDIATE

No: T-16017/11/2019-iGOT
Government of India
Ministry of Personnel, Public Grievances and Pensions
Department of Personnel and Training
(Training Division)

Block No. 4, Old JNU Campus, New Delhi
Dated: 21st April, 2020

To,
The Chief Secretaries of
all the State/Union Territory Governments

Subject: Onboarding of States/Union Territories' COVID-19 Warriors to iGOT (Integrated Govt. Online Training) courses on DIKSHA platform on COVID-19 pandemic.

Dear Sir/Madam,

As all are aware, the whole world, including India, is facing a significantly higher threat from COVID-19 pandemic. India is responding to the Novel coronavirus pandemic with an unprecedented mobilisation of Human Resources - the intrepid COVID Warriors who are battling the Virus at the frontline. These brave & dedicated Doctors, healthcare workers, Technicians, paramedics, Aayush Doctors, State/UT Govt. Officers, Police and other Volunteers require enhanced capacity & updated information to keep in-step with the latest advances in techniques and global understanding of the Virus.

2. In pursuance of the decision of the Empowered Group on Augmenting Human Resources and Capacity Building set up by the Hon'ble Prime Minister under the Chairmanship of Secretary, Micro Small and Medium Enterprises, the Government of India, through its Department of Personnel and Training, has launched a tailored version of iGOT (Integrated Govt. Online Training) on 07/04/2020 to train all the COVID-19 Warriors of India. The learning portal (<https://igot.gov.in>) has national coverage, free access to all, 24x7 content availability from any location, any device and above all has relevant content developed by the Govt. of India which is updated regularly as the situation unfolds. The iGOT COVID version is being hosted on Ministry of Human Resource Development's DIKSHA platform.

3. The URL Link of the website is <http://igot.gov.in>. For onboarding the platform, the following information is enclosed:

- (i) Elementary User Guide for Desktop/Laptop users - Annexure-I
- (ii) Elementary User Guide for Mobile Users - Annexure-II
- (iii) Elementary User Guide for Mobile App Users - Annexure-III
- (iv) Details of Courses uploaded on iGOT DIKSHA platform so far - Annexure-IV
- (v) Instructions for content creation - Annexure-V

4. In this connection, the approach will require partners & States/UTs to:

- (i) Identify the States/UTs' COVID-19 Warriors including Doctors, Nurses, Paramedics, Hygiene Workers, Technicians, Auxiliary Nursing Midwives (ANMs), State Govt. officers/officials, Police, Volunteers etc. and enroll them to iGOT platform.
- (ii) Identify the training needs of respective frontline worriers and identify/ customise courses with focus on content in local languages, etc.

...02/-

I-GOT WEBSITE DASHBOARD

igot.gov.in/igot/

Explore Courses



GLIMPSE OF COURSES ON I-GOT

MoHFW 29

Close



Health Education

Hand Hygiene and Social Distancing

iGOT



Health Education

पीपीई के माध्यम से संक्रमण की रोकथाम

iGOT



Health Education

Personal Protective Equipment - English

iGOT



Health Education

प्रतिभागी विवरण- स्वास्थ्य और परिवार कल्याण मंत्रालय

iGOT



Health Education

Respiratory Therapy for COVID-19

iGOT



Health Education

COVID awareness-Bengali

iGOT



Health Education

COVID Awareness- Odia

iGOT



Health Education

COVID Awareness- Gujarati

iGOT



Health Education



Health Education



Health Education



Health Education



**THANK
YOU!**