COVID-19 & BIOMEDICAL WASTE
INDIAN SCENARIO
COVID waste challenges

First case reported on Jan 30

Apprehension on exponential growth in plastic waste generation

Mask and gloves found dumped along roadside and waste dumps

Newspapers carry stories on COVID waste

Residents continue to seek solutions
COVID-19 BIOMEDICAL WASTE IN INDIA

Number of Hospitals generating COVID-19 waste: 2,907

Number of Quarantine Centers: 20,707

Number of Sample Collection centers: 1539

Amount of Bio-medical Waste generated per day: 609 MT

Additional Biomedical Waste generated per day due to COVID-19: 101 MT

Total Biomedical Waste generated per day: 710 MT*

CPCB issues guidelines on COVID in Mar
Incineration Capacity available in the country: 804 MT

55% of the cumulative incineration capacity in the country has already been utilized.

States without any CBWTF facility have to depend on Deep Burial Pits for disposal of COVID-19 waste.

NGT expresses need to revise the guidelines for COVID waste

Uploading of Data by Municipal bodies and CPCB regarding generation and disposal of BMW from Residences and Quarantine centers on “COVID19BWM” app
Growth rate waste generation

- Waste generation Jan 841 MT
- Waste generation June 982 MT
- growth rate 14.7 %/day
Ground reality

Improper segregation of waste
Choice of technology
Lack of preparedness for pandemic
Inadequate information and awareness
Inadequacy of PPE
Inadequate Regulatory capacity
Challenges in handling waste from HH
FUTURE CONCERNS: VACCINE DISPOSAL

172 countries working on developing COVID-19 Vaccine

To deliver two billion doses of vaccines to roughly 70% of the world population by the end of 2021

As per current understanding, the vaccine will also require a booster dose

Proper disposal of vaccine containers will be a major concern due to the highly contagious nature of COVID-19 virus
ROAD MAP : THE WAY AHEAD

Need for comprehensive data on BMW generation and Disposal,

lessons learnt from pandemic

Awareness on waste treatment options

Improve compliance on BMW management, penalize defaulters

Guidelines and SOP for Pandemic Preparedness and Training

Advance planning for vaccine waste.
REFERENCES


https://www.thelancet.com/journals/lanpub/article/PIIS2468-2667(20)30164-X/fulltext


THANK YOU