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

• Citizens 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
Current status

- 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

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THANK YOU