

AIR POLLUTION

NITRATE RADICALS'

- Nitrate radicals are likely making air pollution worse in India, china Cshidy)

, increase in pm 2.5 & Ozone in the atmosphere

MULTI ANGLE IMAGE FOR AEROSOLS (MAIA)

- examine the health impact of air pollution

- by usa & Italy space agencies

aerosols 🔾

FLY ASH

- unwanted unburnt residue of coal combustion in coal thermal power plant

, MOEF & CC directed NHAI' to use fly ash

PUGITIVE DUST

, particulate matter generated from various sources that are exposed to air

- impoil, Ranchi invention to control generation & movement of jugitive dust

AIRSHED APPROACH

> world Bank report

judia has 6 carge airsheds - between which air pollutants move ц Some of them shared with Pakistan

- WHO - upper limit of PM 2.5 - 54g/m3

NATIONAL CLEAN AIR PROGRAM CNCAP)

- launched in 2019 ; moef&cc

, New target - 40% reduction by 2026

= earlier target - 20-30% reduction in Pm 2.5 & Pm 10 by 2024

- PRANA Portal

CAOM FOR NCR

- statutory body

issue directions wrt air pollution, GRAP

GREEN CRACKERS

🗩 do not contain toxic chemicals & barium nitrate/

🗦 categories – swas, safal, star



BOD

- No- of polluted stretches in India's rivers has fallen (CPCB)

-> Bio-chemical oxygen Demand exceeding 3.0 mg/L are identified as polluted locations

ivorm

- viologen unit grafted organic frame work by lISER Pune

> to clean polluted water

GREEN JECH & MARINE DIVERSITY

> impact of biodegradable plashics

- Brine pools & lithium

> mesopelagic zone

POREVER CHEMICALS

- Per and Polyfluoroalkyl Substances (PFA)

> man made chemicals used to make non-stick cookware, water repellant clothing, cosmetics

NONYL PHENOL

> used in the production of defergents

- Toxic chemical found in drinking water

> Bio accumulation

NAMAMI GANGE

- > rejuvenate river Ganga
- , launched in 2014
- , central sector scheme
- recognised by un
- > Arch Ganga for strengthening socio-eco river people connect

MATSYA ~ 6000

- manned submersible vehicle
- > deep sea ocean exploration

BLUE FLAG CERTIFICATION

- eco-label for clean beaches
- 12 in India
- given by FEE, Denmark



GREAT NICOBAR PROJECT

- > greenfield city, ICTT
- J GN
 - , Southern most part of AEN; Indra point
 - 4 Ten degree Channel
 - 4 1BR
 - is shompen, Nicoberese tribal people
- > Barren island

GREAT PACIFIC GARBAGE PATCH

- marine debris in Nor(h Pacific Ocean
- > between Hawaii & California
- > largest accumulation of ocean plastic in the world

MAPPING

- > Lake Baikal
- > ROE river
- > lake Jana
- Lake Tunganyika

SOLID WASTE

PHYTO REMEDIATION

- using plants, micro algae for removing toxic metals from the soil in hyper accumulator

LAND FILLS

- Land fill gases
 - > melhane, co2, N2 etc
- landfill five
 - > dioxins & furans carcinogenic pollutants
 - -> Pays

SOLID WASTE MANAGEMENT RULES

- applicable to beyond muncipal areas
- Source segregation
- wet, dry "a "domestic hazardous waste"
- integration of waste pickers



PLASTIC POLLUTION

- micro plastics less (han 5 mm in length
- 🗦 bio accumulation & bio magnification'
- > single use plastics
- → Plastic waste management Rules 2021 Notified by MOEF& CC
 - prohibits identified 'Sup'
 - EPR
 - , centralised online portal by CPCB

BIOTRANSFORMATION TECHNOLOGY

- alter the state of plastics & make them biodegradable without leaving behind microplastics

E-WASTE

- > discarded electrical and electronic equipments
- ump elements found e-waste
 - L'Cead, mercury, cadmium chromium, Beryllium, Polyvinyl chloride, Perfluvo octonoic Acid (PFOA), sulphur, Brominated Fire Retardants (BFR)
- adoption of common chargers
- > E-waste management Rules 2022
 - All entities must register on the cPCB portal
 - , sargers
 - Solar PV modules added
 - > EPR Certification
- BATTERY WASTE MANAGEMENT RULES
 - EPR
 - centralised online portal
 - > use of recycled materials



INTERNATIONAL CONVENTIONS

STOCKHOLM +50 CONFERENCE

First un conference on envr @ stockholm, 1972 → GOYYS ;

(covered) COP 27

CONVENTION BIOLOGICAL DIVERSITY ON

International legally binding convention

Conservation of BD

Sustainable use

Jair and equitable sharing of benefits 3 alms 2

- imp protocols

') cartegena protocol – protect BD from Living modified organisms' CLMO) 2) Nagoya protocol - Access to genetic resources and FESB

2) Nagoya

COP-15 10 CBD KUNMING DECLARATION

kunming china

Theme - Ecological civilization: building a shared future for all life on early

30 by 30 hargets adonted protect 30% earlistand & oceans by 2030

COP-15 KUNMING MONTREAL BD FRAMEWORK

Global BD framework 4 goals & 23 targets for 2030

Goal A - maintain, enhance restore ecosystems..

GOALB - Sustainable use of BD.

Goal c - fair & equitable sharing..

qual D - Secure adequate means of implementation.

BIODIVERSITY BEYOND NATIONAL JURISDICTION (CRBMI)

- Treaty of high seas

-, by UN(LOS

STOCKHOLM CONVENTION

meeting (1816) of pop review committee

'Dechloran'e Plus' & uv 238 under Annex A

is ratified by India Convention