Radioactive pollution

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Nuclear Energy was hailed as non-polluting way for generating electricity.

1st Radioactive ⇒ Three mile Island and chernobyl incidents

IInd ⇒ Safe disposal of radioactive wastes.

NOTE ⇒ It has been recommended that storage of Nuclear waste after sufficient pretreatment

⇒ Suitabley shielded containers buried within the rocks about 500m deep below the earth surface

① Natural Resources

⇒ Space Rays

Radium ⇒ 224, Uranium U=235, U=238, Th=232 Radon 222

② Human formed Radiation

* लूटोनियम Thoxium, Radiation ⇒ fire plane

③ Nuclear Reactor's / fuels → Radioactive → pollution Radiation

"Thermal power plants"

AGRO-CHEMICALS AND THEIR EFFECTS

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Green revolution → Use of – inorganic crop production →
- fertilisers
- pesticides
- Herbicides
- fungicides

are being increasingly used

Important components of "The soil ecosystem"

Case study of organic Farming

Integrated organic farming is a → cyclical zerowaste procedure

→ "Maximum utilisation of Resource"
"increase the efficiency of production

Ramesh chandra Dagar → a Farmer in Sonipat (Haryana)

- beekeeping, diary management, water harvesting, composting, Agriculture
- cattle example (dung)
- Natural gas

Dagar has created "Haryana Kisan welfare club"
membership = 5000 farmers

Deforestation

Deforestation is the conversion of forested areas to non forested ones.

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Tropics rain forest — 40% lost

temperate region — 1%

National Forest policy (1988)

33% forest cover for the plains

67% for the hills

Jhum cultivation / shifting cultivation

Slash and burn Agriculture

↳ north eastern states of india

↳ land or cattle grazing

India → forest area → 0.06 Hm

world → forest cover → 0.64 H

घने वन ↓ 12%

Result of deforestation ⇒ 1) CO_2 ↑↑ (one.

loss of Biodiversity due ⇒ habitat destruction,

→ Hydrologic cycle

⇒ soil Erosion

[Case Study of People's participation in Conservation of forests] long history in India

1731) Jodhpur in Rajasthan ⇒ Wood Required for constructing new palace.

Amrita Devi →

"Amrita devi Bishnoi Wildlife protection Award"

1974) CHIPKO MOVEMENT ⇒ Garhwal Himalayas

चमोली (जिले) ⇒ गोपेश्वर गाँव मार्च (March 1974)

Leader ⇒ सुन्दरलाल बहुगुणा (टिहरी)

चण्डी प्रसाद

JFM ⇒ "Joint forest Mangement"

"1980"

⇒ forest product → Fruit, Gum, Medicine Rubber etc. (Fruit, gum, Rubber, medicine etc.)

OTHER IMPORTANT INFORMATION

1) MIC (Methyl Isocyanate) Bhopal gas
"3 Dec. 1984" ⇒ MIC → Sevin → Insecticides → Union carbon.

2) $Pb(C_2H_3)$ (tetraethyl lead)
$Pb(CH_3)$ टेट्रामिथाइल लैड
Plumbism ⇒ due Pb → water
Pb → Air pollutant ⇒ (Nervousness)
↳ damage to Kidney.
"Pb → Blood ⇒ 10 µg/100 ml"

3) Pneumoconiosis ⇒ due – dust particle-dis
cloth mill ⇒ cotton dust → workers → Lungs fibrosis / Byssinosis
Anthracosis → कोयले की धूल
Kota ⇒ KOTA STONE ⇒ Stone grinder → Silicosis

4) Blue Baby disease — water → NO_3^- (Nitrate) → Methaemoglobinaemia or synosis

5) Livestock ⇒ चारा — Toxic → As → Black foot

6) Cd ⇒ Anaemia / Kidney / Liver
Japan ⇒ Bones ⇒ Itai-Itai or Ouch-Ouch

7) Flourides ⇒ Human flourides → 1.5 ppm
↓ Flourosis
↳ Leaves ⇒ Corns → Chlorosis ⇒ Mo, S, N, Mg, Mn, Zn, K, Fe
Necrosis ⇒ Ca, Cu, K, Mg, etc.

8) Elninoeffect → 5-8 year → प्रशान्त महासागर
India ⇒ कहीं बाढ़ या कहीं सूखा
जेट लेग ⇒ Main pollut → CFC
ला-नीना ⇒ La-nina

Ganga Action plan (1985) → Kolkata, Kanpur

★ Green House gas ⇒ China

★ Cotton dust ⇒ Gujarat

plume
Flu gas ⇒