

Bangladesh Country Presentation



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BANGLADESH

- Geographical Area 147000 sq. Km.
- Population 160 million.
- Bangladesh has a subtropical monsoon climate characterized by wide seasonal variations in rainfall, moderately high humidity
- Heavy rainfall is characteristic of Bangladesh.



MERCURY IN BANGLADESH



- Mercury is not mined or produced in Bangladesh
- Mostly imported from other countries. Mercury & its Compound is imported for industrial use and Commercial Purpose.
- According to NBR, 2015, annual import of Mercury is 3.73 MT
- And illegal import for mercury also occurs through trans-boundary movement.

MERCURY RELEASE SOURCES



THE PRIORITY PRODUCTS ARE

- Dental Amalgam
- Thermostats & sphygmomanometers
- Switches, Relays, and Measurement and Control Devices
- Lamps
- Fever Thermometers
- Skin fairness cream
- Jewelry
- Chloro-alkali Products
- Battery

THE PRIORITY SECTORS ARE

- Health Care
- Households, consumer goods
- Electrical and electronics
- Manufacturing and Industry
- Steel Manufacturing and Processing
- Brick Field
- Cement Production
- Waste deposition, land filling and waste water treatment

POTENTIAL HOT SPOTS



- Coal burned brick fields may be the major contributors
- Closed/abandoned Chloro-alkali production sites
- Other sites of chemical production where mercury compounds produced or mercury or compounds used as catalysts (cement production etc.)
- Dental clinics and hospitals (where cautionary measures are not in place)
- Gold manufacturing factories
- Closed production sites for manufacturing of thermometers, switches, batteries and other products
- pulp and paper manufacturing sites (with internal Chloro-alkali production)
- Sites of relevant accidents
- Rejected-CFLs using and indiscriminately dumping all over Bangladesh, no management at any stage.

LEGISLATION AND REGULATORY FRAMEWORK OF THE COUNTRY



THE NATIONAL POLICIES UNDERTAKEN FOR PROMOTING ENVIRONMENTALLY SOUND MANAGEMENT OF MERCURY ARE:

- National Environment Policy 1992
- Environment Conservation Act 1995
- Environment Protection Rules 1997
- Proceeds Rules 1998

EMISSION STANDARDS ON MERCURY:

- Emission Standard for Mercury into air 0.2 mg/Nm³.
- Waste water discharges to surface water, Mercury STD is 0.01 mg/L.
- Penalty for violation: Fine BDT 1 million /5 yrs imprisonment or both

SOME ACTIONS



- No pesticides is registered in Bangladesh containing Mercury
- Shut down DDT Manufacturing Plant
- Mercury Cell chloro-Alkali plants is replaced by Membranes cell
- Existing Mercury cell plant recover and recycle mercury
- Taken initiative to formulate the regulatory framework for E-waste Management, medical waste management and sludge management.
- Government wing- BSTI (Bangladesh Standards and Testing Institution) has already decided the threshold value for mercury in CFL bulbs and cosmetics production. For cosmetics the threshold value is 1 ppm, for CFL light bulb the value is 2.5 ppm.

Monitoring Activities of Male' declaration Project



- Two types of monitoring
 - Dry Deposition Monitoring
 - Wet Deposition Monitoring

In Dry Deposition Monitoring

- Metrological Data
- Field Temperature
- Air Quality Monitoring

In Wet deposition Monitoring

- Rain water Quality Test
- Precipitation Amount

Minamata Convention

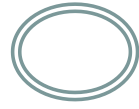


- Processes are underway to sign Letter of Agreement (LoA) between ERD, representing Bangladesh and UNITAR to undertake a GEF funded project. The project has following two components:
- **Component 1:** Establishment of enabling environment for decision-making on the ratification of the Minamata Convention.
- **Component 2:** Development of National Mercury Profile and Mercury Initial Assessment Report
- Process is under way with UNIDO to undertake a project that helps environmentally sound disposal mercury-containing lamps.

CONSTRAINT



- Lac of expertise to undertake Survey for national inventory
- Lac of financial assistance
- Availability of save alternatives of mercury



THANK YOU

