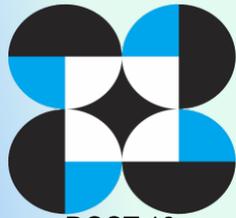




PCIEERD-DOST



DOST 10



# CHALLENGE ON MUNICIPAL SOLID WASTE MANAGEMENT IN CAGAYAN DE ORO CITY (focus on landfill)

Tessie M. Machado  
June 27, 2012

Mulberry Suites, Cagayan de Oro City

# CAGAYAN DE ORO CITY

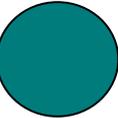
- 1ST Class City - Highly Urbanized City
- Area – 488.86 square kilometers
- Composed of eighty (80) barangays
  - = 40 urban barangays
  - = 40 urban barangays
- Total household- 120,418 as of Dec. 2011

# SOLID WASTE MANAGEMENT PRACTICES

- Using a controlled dump site
- Located at Upper Dagong, Carmen, Cagayan de oro City
- Approximately 3.5 kilometers from city proper
- Covers 17 hectares
  - = total landfill bed- more or less 8 hectares
  - = estimated capacity of 1.9 million cubic meters
  - = life span is 12-25 years

# Total volume collected -700 cubic meters/day

- Barangay being served – 80% of the total barangays of CdeO city
  - = 40 urban barangay
  - = all coastal brgys- Bugo to Iponan
  - = hinterland brgys – Indahag & Lumbia
- 3 big markets - Cogon, Puerto & Carmen
- Malls – Gaisano, (Cogon, Carmen & Bulua)  
Ororama , Savemore/Market city, Limketkai, SM
- Various colleges, universities & other private / public schools



# Solid Waste Management practices

- Collection services/facilities
  - = Barangay collection
  - = Private establishment (for malls)
  - = City Collection
  - = Basura at iba Pa (contract)

# Waste segregation in the city is not 100 percent practiced

- Out of 700 cubic meters “basura”
  - = 30% recyclable
  - = 45% biodegradable
  - = 25 % residual
- Waste segregation is undertaken by the organized waste segregators on site (as livelihood)
- So, per record, since CY 1993 to December 2011, the total volume of garbage disposed at the city dumpsite was 3,562,491 cu.m. (19 yrs

# Plan of the City/challenges

- Establish Sanitary landfill at Pagatpat, Cagayan de Oro City (upper portion) for residual only
- Continuous information drive on the implementation of waste segregation by barangay
- Establish Material Recovery Facility (MRF) by barangay
- To reduce the collected wastes by 25 % yearly
- To minimize emission of methane, if not zero



PCIERD-DOST



DOST 10



Thank you !

“God bless Us All”