

# **Report on the status of the Common Storage, Treatment and Disposal Facility (CHWSTDF) for Hazardous Waste at Haldia, Dist. East Midnapore**

In April 2003, the Haldia Development Authority (HDA) and M/s. Ramky Enviro Engineers Ltd., formed a joint venture Company under the name and style as M/s. West Bengal Waste Management Ltd., to develop and operate the integrated waste management complex for taking care of the industrial hazardous wastes for the entire State of West Bengal. Apart from these, the facility will also deal with the Bio medical Wastes as well as Municipal Solid Wastes for the adjacent municipal areas.

The land where the Common Storage, Treatment and Disposal Facility (CSTDF) for Hazardous Waste is being developed, is as follows:

## **Land Details**

Mouza : Purba Srikrishnapur, J.L. No. 103.  
P.S. : Sutahata  
District : Purba Medinipur

Area : 70.46 acres

Valuation of Land : Rs. 1.52 crores (actual land acquisition cost @ Rs. 2,15,699 /acre)

Total Land Requirement : 200 acres for Phase-I and Phase-II

70.46 acres has been acquired and is utilizing for the development of the landfill facility (at present 1<sup>st</sup> Cell), Temporary storage facility, Laboratory and other infrastructure under Phase-I and also to install incinerator under Phase-II

The life of the landfill facility is 30 years.

HDA acquired 70.46 acres of land for the development of CSTDF for hazardous wastes and 10 acres of land for the approach road.

The WBPCB issued NOC for the facility on 28.04.2004 and after the public hearing held on 30.07.2004, the Environment Department, Govt. of W.B. issued Environmental Clearance on 18.10.2004. Site notification was also done by the Govt. of W.B. on 18.10.2004

- Total Hazardous wastes to be handled–
  - Secured Landfilling– 1,20,000 tones per annum
  - Stabilization and treatment – 60,000 tones per annum

## Total Proposed project cost – 54 crores

Item	Total Rs. (in Crores)	
	Phase-I	Phase-II
<b>Land &amp; Land Development</b>	7.50	
<b>TSDF Components</b>		
Weigh Bridge	0.50	
Electrical installation	2.00	
Crane Mounted/Hooklift Trucks	2.50	
Containers	5.25	
Landfill	11.00	
Buildings	1.00	
Other fixed assets	3.00	
Laboratory Equipment	2.10	
Pre-operative expenses	2.45	
Contingencies	1.00	
Preliminary Expenses	0.07	
Working Capital Margin	0.48	
DG Set	0.15	0.35
Incinerator		5.00
Civil Works in Incinerator		9.65
<b>Total:</b>	<b>39.0</b>	<b>15.0</b>

● **Proposed source of finance :**

- ◆ Promoters equity Rs. 20 crores
  - M/s. Ramky Enviro Engineers Ltd. Rs. 10 crores
  - HDA Rs. 32 lakhs
  - Others Rs. 32 lakhs
  - Deposits Rs. 936 lakhs
  
- ◆ Grant Rs. 11 crores
  - MoEF Rs. 2 crores
  - State Govt. Rs. 2 crores
  - HDA Rs. 7 crores
  
- ◆ Term loans from financial institutions Rs. 23 crores

For the financial assistance of Rs. 4 crores (MoEF, Govt. of India Rs. 2 crores and State Govt. Rs. 2 crores) the MoU was signed on 31.01.2006 in between MoEF, Govt. of India, WBPCB and M/s. West Bengal Waste Management Ltd. Accordingly, both the WBPCB and the MoEF had released Rs. 80 lakhs each to the West Bengal Waste Management Ltd. as the 1<sup>st</sup> installment.

**The 1<sup>st</sup> Cell of the Landfill facility with an area of 1.96 acres has already been developed and is ready to accept the disposable hazardous wastes. The life of the 1<sup>st</sup> Cell will be one year approximately and construction for the development of the 2<sup>nd</sup> Cell will start after monsoon. Installation work of incinerator under Phase-II will undertake from May 2006 and will be completed within six months.**

**The WBPCB has granted provisional Consent to Operate and Authorization for the landfill facility only to M/s. West Bengal Waste Management Ltd. for a period of six months.**

The West Bengal Pollution Control Board had constituted a committee comprising of the representative of the various industry associations, engineering institutions, Environment Department, Govt. of W.B. etc., to review the cost analysis for the treatment and disposal of the hazardous wastes to be taken by the facility operator of the CSTDF. The Committee recommended the cost structure as follows:

**The Treatment & Disposal cost proposed per tone of waste**

- i. Landfilling– Rs. 990
- ii. Stabilization– Rs. 1597 (Chemical fixation, encapsulation, solidification, etc. Prior to disposal into landfill)
- iii. Incineration– Rs. 18,500

Note : Transportation cost as proposed is Rs. 4/km. The hazardous waste generating industries may transport their hazardous waste to the facility by their own transport provided it should be authorized by the WBPCB.