

**BY REGISTERED POST**

F.No.B-29016 (SC)/1(50-II)/16/HWMD/

June 13, 2018

To

M/s. Mumbai Waste Management Limited,  
Plot No. P-32, MIDC, Taloja, Tal. Panvel  
District Raigad, Maharashtra – 410 208

**MODIFIED DIRECTION UNDER SECTION 5 OF THE ENVIRONMENT (PROTECTION) ACT, 1986 IN THE CASE OF M/s. MUMBAI WASTE MANAGEMENT LIMITED (M/S. RAMKY ENVIRO ENGINEERS LTD.), PLOT NO. P-32, MIDC, TALOJA, TAL. PANVEL, DISTRICT RAIGAD, MAHARASHTRA.**

WHEREAS, the Central Government has notified the Hazardous Waste (Management and Handling) Rules, 1989, and amendments, thereof under the Environment (Protection) Act, 1986, for proper management and handling of hazardous wastes and now, these Rules are amended recently as Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 (herein referred to as HWM Rules); and

WHEREAS, as per Rule 6 of the HWM Rules, the operator of a disposal facility shall obtain authorisation for collection, storage, packaging, transportation, treatment, processing, use, destruction, recycling, recovery, pre-processing, co-processing, utilisation, offering for sale, transfer or disposal of hazardous and other wastes; and

WHEREAS, as per Rule 16(2) of the HWM Rules, the operator of the common facility or occupier of a captive facility, shall design and set up the Treatment, Storage and Disposal Facility as per technical guidelines issued by the CPCB in this regard from time to time and shall obtain approval from the State Pollution Control Board for design and layout in the regard from time to time; and

WHEREAS, as per Rule 16 (4) of the HWM Rules, the operator of a common facility or occupier of a captive facility shall be responsible for safe and environmentally sound operation of the facility and its closure and post closure phase, as per guidelines or standard operating procedures issued by the CPCB from time to time; and

WHEREAS, M/s. Mumbai Waste Management Limited (M/s. Ramky Enviro Engineers Ltd.), District Raigad, Maharashtra – 410 208 (herein after referred as the operator) is engaged in operation of common hazardous waste treatment at Plot No. P-32, MIDC, Taloja, Tal. Panvel, District Raigad, Maharashtra (herein after referred as the facility); and

WHEREAS, based on the observations made by the officials of CPCB during their visit to the facility, CPCB issued directions under Section 5 of the Environment(Protection)Act, 1986 to the facility vide letter dated 06/02/2009 to submit the time bound action plan for a list of action point specified therein alongwith a bank guarantee of Rs. 30,00,000/- ;

WHEREAS, based on the replies submitted by the operator and joint visits by the officials of CPCB and Maharashtra Pollution Control Board during May 2009 and September 2009, CPCB issued modified directions under Section 5 of the Environment (Protection) Act, 1986 to M/s. Mumbai Waste Management Limited (M/s. Ramky Enviro Engineers Ltd.), Plot No. P-32, MIDC, Taloja, Tal. Panvel, District Raigad, Maharashtra, vide letter no. F.No.B-29016(SC)/1/08/HWMD/2420 dated 16/06/2009 and F.No.B-29016(SC)/1/08/HWMD/9106 dated 27/10/2009 due to reasons mentioned therein;

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WHEREAS, based on the replies of the facility an opportunity of being heard was given to the operator on 12/10/2011 and decisions were communicated to operator vide letter dated 18/07/2012;

WHEREAS, officials of CPCB visited the facility on 08/11/2017 for verification of compliance to the directions and decisions. The said Inspection report was forwarded to MPCB vide letter dated 27/02/2018 to take necessary action against on the observations and recommendations outlined in the said. MPCB vide letter dated 26/04/2018 have submitted the status on compliance of the directions issued vide letter dated 27/10/2009, which revealed that the facility has complied with the directions and decisions taken in the hearing dated 12/10/2011 except installation of mechanized stabilization system and leachate management;

WHEREAS, a meeting was convened with the operators of common TSDF on 3<sup>rd</sup> October, 2017 at CPCB, Delhi, to discuss the issues pertaining to management of leachate generated from Secured Landfill (SLF) and stabilization of hazardous waste and the following decisions were taken on the same:

- a. For Stabilization of hazardous waste for secured landfilling-
  - (i) Installation of mechanized cover system having arrangement of waste conveyor system, mixing unit with mechanized mixing arrangement, suction duct/hood, scrubber system and stack., Or
  - (ii) Stabilization in pit by mixing with excavator/backhoe loader having hood over the pit with adequate suction arrangement (to arrest dust/fumes) followed by scrubber and stack.
- b. For management of leachate generated from secured landfill the following options were decided;
  - i. **Solar Evaporation pond:** May be used provided suitable sized pond be installed considering Evaporation loss Vs. Leachate generation. Further, such pond shall have double liner system with leachate pumping system arrangement and adequate sized standby pond /tank in case of failure of the liner system, if any; or
  - ii. **Multiple Effect Evaporator (MEE):** May be used for treatment of leachate. The condensate water to be managed as per the conditions stipulated in the Consent to Operate issued by the concerned SPCB/PCC under the Water (Prevention and Control of Pollution) Act, 1974. The residue of MEE may be disposed into secured landfill after proper encapsulation; or
  - iii. **Spray Dryer of common hazardous waste incinerator:** May be used in quenching of flue gases from secondary chamber of the incinerator as leachate has high TDS which will be helpful in exchanging heat. However, leachate shall be treated prior to its use to achieve concentration of COD < 250 mg/l; or
  - iv. **Effluent treatment plant (ETP):** May be treated in ETP having advance oxidation technology or adopting other suitable technology (since leachate has high COD and TDS) so as to manage as per the conditions stipulated in the Consent to Operate issued by the concerned SPCB/PCC under the Water (Prevention and Control of Pollution) Act, 1974.

The above decision were communicated to the operator vide letter no.B-29016(SC)/1/17/WM-II/13594 dated 13/11/2017.

WHEREAS, the Central Government vide Notifications No. S.O. 157(E) of February 27, 1996 and S.O. 730 (E) dated July 10, 2002, has delegated the powers under Section 5 of the Environment (Protection) Act, 1986 (29 of 1986) to the Chairman, Central Pollution Control Board (herein referred to as CPCB), to issue directions to any industry or any local or any other authority for the violation of the standards and rules, notified under the Environment (Protection) Act, 1986 and amendments thereof; and

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NOW, THEREFORE, in exercise of the powers vested under the Section 5 of the Environment (Protection) Act, 1986, the following modified directions are hereby issued:

- a) The operator shall commission any of the following system for stabilization of the hazardous waste by 15<sup>th</sup> October, 2018:
  - i. Mechanized cover system having arrangement of waste conveyor system, mixing unit with mechanized mixing arrangement, suction duct/hood, scrubber system and stack; or
  - ii. Stabilization in pit by mixing with excavator/backhoe loader having hood over the pit with adequate suction arrangement followed by scrubber and stack.
- b) The operator shall commission any of the following option for management of leachate generated from secured landfill by 15<sup>th</sup> October, 2018:
  - i. Solar Evaporation pond of suitable size considering Evaporation loss Vs. Leachate generation with double liner system, leachate pumping system and standby pond/tank; or
  - ii. Multiple Effect Evaporator (MEE) and the residue of MEE to be dispose into secured landfill after proper encapsulation and the condensate water to be managed as per the conditions stipulated in the Consent to Operate issued by the concerned SPCB/PCC under the Water (Prevention and Control of Pollution) Act, 1974; or
  - iii. Adequate treatment facility for treating leachate so as to achieve concentration of COD < 250 mg/l prior to its use in spray Dryer of common hazardous waste incinerator for quenching of flue gases from secondary chamber of the incinerator; or
  - iv. Effluent Treatment Plant (ETP) having advance oxidation technology or adopting other suitable technology and manage as per the conditions stipulated in the Consent to Operate issued by the concerned SPCB/PCC under the Water (Prevention and Control of Pollution) Act, 1974.
- c) In case of violation of the above directions, environmental compensation will be levied on the operator for each day of violations based on pollution index.


It is further directed to acknowledge receipt of the directions within 15 days of issuance of this direction and submit time bound action plan for compliance of the above directions to CPCB within 30 days of issuance of this direction.

In the event of failure to comply with the above directions within the stipulated timeframe, appropriate action would be initiated against your facility in accordance with the provisions of the Environment (Protection) Act, 1986 and amendments thereof, without any further notice.

  
(S.P. Singh Parihar)  
Chairman

**Copy to:**

1. The Joint Secretary, HSM Division, Ministry of Environment, Forests & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi –110 003.
2. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 2<sup>nd</sup> - 4<sup>th</sup> Floors, Opp. Cine Planet, Near Sion Circle, SION (E), Mumbai – 400 022 (Maharashtra)
3. The Regional Director, Central Pollution Control Board, Parivesh Bhawan, Opp. VMC Ward Office No. 10, Subhanpura, Vadodara – 390023
- ✓ 4. I/c IT Division, CPCB, Delhi

  
(A. Sudhakar)  
Member Secretary

