

BY REGISTERED POST

F.No.B-29016 (SC)/1(52-II)/18/HWMD/

June 13, 2018

To

M/s ... Common TSDF... (as per list enclosed)

DIRECTION UNDER SECTION 5 OF THE ENVIRONMENT (PROTECTION) ACT, 1986, IN THE CASE OF *M/s name and address of the common TSDF (as per list enclosed)*

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 these Rules are amended recently as Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 (herein referred to as HOWM Rules);

WHEREAS, as per Rule 6 of the HOWM Rules, the operator of a disposal facility shall obtain authorization for handling, collection, storage, packaging, transportation, treatment, processing, pre-processing, offering for sale, transfer or disposal of hazardous and other wastes;

WHEREAS, as per Rule 16(2) of the HOWM 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 ... name of the common TSDF ... (as per list enclosed)* (herein after referred as the operator) is engaged in operation of the common hazardous waste treatment, storage and disposal facility at *... address of the common TSDF... (as per list enclosed)* (herein after referred as the facility); and

WHEREAS, a meeting was convened with the operators of common TSDF on 3rd 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;

Contd../2

Handwritten mark

- 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
- ii. arrangement and adequate sized standby pond /tank in case of failure of the liner system, if any; or
- iii. **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
- iv. **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
- v. **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/.....dated 13/11/2017. However, no response has been received with regard to status of commissioning of the above.

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;

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

- a) The operator shall commission any of the following system for stabilization of the hazardous waste by 15th 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 15th 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, Concerned State Pollution Control Board
3. The Concerned Regional Director, CPCB
4. ✓ I/c IT Division, CPCB, Delhi


(A. Sudhakar)
Member Secretary



List of the Common TSDF	
S.No.	Name and Address of Common TSDF (having common secured landfill)
1	Coastal Waste Management Project, Plot No:84/A, 84/B, Road No:20/5, E. Bonangi, JNPC, Parawada(M), Lankelapalem, Visakhapatnam.
2	Saurashtra Enviro Projets Pvt. Ltd. Survey No 415, 417 & 418, Village Juna Katariya, Tal Bhachau Dist Kutch
3	M/s Bharuch Enviro Infrastructure Ltd. Plot No. 9701-16, GIDC, Ankleshwar-393002 (Gujarat)
4	Bharuch Enviro Infrastructure Ltd Plot No D-43, GIDC, Dahej-392130 Gujarat
5	Nandesari Environment Control Ltd., 519-P, GIDC, Nandesari, Dist. Vadodara
6	Vapi Green Enviro Ltd. Plot No: 4807, etc. Phase IV GIDC, Vapi, Dist : Valsad, State: Gujarat.
7	Gujarat Maritime Board, Solid Waste Site, S.No. 325/1/1, Manar, Alang Dist. Bhavnagar (GEPIL Unit Alang)
8	M/s Eco Care Infrastructures Pvt. Ltd. S. No. 127/1, 127/2, 128, 132/1, 132/2, 131, 132/2/2, 125/6, 125/3, Village-Ghaspur, Tal- Dasada,\
9	M/s Gujarat Env. Protection & Infrastructure (Haryana) Pvt. Ltd. Near Pali Mohhabatabad Stone Crusher Zone, Pali, Faridabad, Haryana
10	M/s Shivalik Solid Waste Management Ltd., Vill. Majra, P.O. Dabhota. Ten. Nalagarh, Distt. Solan (HP)
11	M/s Adityapur Auto Cluster (Ramky Enviro Engineers Ltd.) Plot No.-43, Khata No-529, Dungi Mouza, District-Saraikele- Kharswan, Jharkhand-833210
12	Karnataka Waste Management Project (A Division of Ramky EEL)KIADB, Industrial Area, Dobbaspet, Nelamangal Tq, Bangalore Rural Distt-562111



25	Industrial Infrastructure Services (India) Ltd. UPSIDC Leather Technology Park Banthar, Unnao,
26	Bharat Oil & Waste Management Ltd. Mauza Mukimpur, Roorkee-Laskar Road, Roorkee, Haridwar
27	West Bengal Waste Management Ltd. J.L. no. -103, Mouza- Shrikrishnapur, P. S. -Sutahata Dist- Purba Midnapore, Haldia- 721 635 (W.B.).
28	Gujarat Enviro Protection & Infrastructure (D&NH) Pvt Ltd, Survey no. 9/1, Mota Randha Village, Silvassa-396230

B

**List of all the State Pollution Control Boards (SPCBs) & Pollution
Control Committees (PCCs)**

as on 14/05/2018

1.	The Member Secretary Andhra Pradesh Pollution Control Board D.No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre, Chalamvari Street, Kasturibaipet, Vijayawada – 520 010	9.	The Member Secretary West Bengal Pollution Control Board Paribesh Bhawan, 10A, Block- LA, Sector III, Salt Lake City, Calcutta- 700106
2.	The Member Secretary Gujarat Pollution Control Board Paryavaran Bhawan, Sector 10-A, Gandhi Nagar - 382010	10.	The Member Secretary Himachal Pradesh Pollution Control Board Paryavaran Bhawan, Phase-III, Below BCS, New Shimla – 171 009.
3.	The Member Secretary State Pollution Control Board, Odisha Paribesh Bhawan, A-118, Nilakantha Nagar, Unit-VIII, Bhubaneswar – 751 012.	11.	The Member Secretary Jharkhand State Pollution Control Board T.A. Building, HEC, P.O. Dhurwa, Ranchi-834 004
4.	The Member Secretary Punjab Pollution Control Board Vatavaran Bhawan, Nabha Road Patiala – 147 001	12.	The Member Secretary Karnataka State Pollution Control Board, Parisara Bhavana, 1 st to 5 th Floor 49, Church Street, Bengaluru – 560 001
5.	The Member Secretary Rajasthan Pollution Control Board 4, Institutional Area, Jhalana Doongri Jaipur – 302 004, Rajasthan.	13.	The Member Secretary Kerala Pollution Control Board Pattom Palace, P.O. Thiruvananthapuram – 695 004
6.	The Member Secretary Tamil Nadu Pollution Control Board No. 76, Mount Salai Guindy, Chennai – 600 032	14.	The Member Secretary Maharashtra Pollution Control Board Kalptaru Point, 2 nd - 4 th floor, Opp. Cine Planet, Sion Circle, Sion (E), Mumbai – 400 022
7.	The Member Secretary Uttar Pradesh Pollution Control Board Building No TC-12V Vibhuti Khand, Gomti Nagar Lucknow – 226 010	15.	The Member Secretary Daman, Diu & Dadra & Nagar Haveli Pollution Control Committee Fort Area, Court Compound, Moti Daman- 396220
8.	The Member Secretary Uttarakhand Environment Protection & Pollution Control Board 29/20, Nemi Road, Dehradun - 248001.	16.	The Member Secretary Haryana Pollution Control Board C-11, Sector-6 Panchkula Haryana-134 109 Chandigarh