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F.No.B-29016 /TSDf(69-2)/19/WM-II Div 2910

To,

M/s Shivalik Solid Waste Management Ltd.
Village: Majra, P.O.: Dabhota, Tehsil: Nalagarh,
Dist.: Solan, Himachal Pradesh.

REVOCAION OF DIRECTIONS ISSUED UNDER SECTION 5 OF THE ENVIRONMENT (PROTECTION) ACT, 1986, IN THE CASE OF M/S SHIVALIK SOLID WASTE MANAGEMENT LTD. VILLAGE: MAJRA, P.O.: DABHOTA, TEHSIL: NALAGARH, DIST.: SOLAN, HIMACHAL PRADESH.

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 authorisation 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 Shivalik Solid Waste Management Ltd., (herein after referred as the operator) is engaged in operation of the common hazardous waste treatment, storage and disposal facility at Nalagarh, Dist.: Solan, Himachal Pradesh (herein after referred as the facility); and

WHEREAS, a meeting was convened with the operators of 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 the following decision were taken on the same:

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- 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 decisions were communicated to the operator vide letter no. B-29016(SC)/1/17/WM-II/13591 dated 13/11/2017;

WHEREAS, in view of no response from the operators of the Common TSDFs (having secured landfill) on status of commissioning of the above facilities, CPCB issued directions dated 13/06/2018 under Section 5 of the Environment (Protection) Act, 1986, to the operator of the facility for commissioning any of the following system by 15th October, 2018:

- (a) for stabilization of the hazardous waste:
- 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) for management of leachate generated from secured landfill:
- 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.


WHEREAS, based on the reply submitted by the operator vide letter dated 13/10/2018, Regional Directorate CPCB, Lucknow visited the facility on 22/12/2018 to verify the compliance status of the aforesaid directions and observed the following:

- (1) The operator is stabilizing the hazardous waste in a concrete pit and mixing with backhoe loader. Suction hood over the pit with adequate suction arrangement for arresting dust/ fumes followed by scrubber and stack has also been provided.
- (2) The operator has provided 02 common leachate collection sumps for collecting the leachate. The collected leachate is treated in the 2 stage Multiple Effect Evaporator (MEE). The MEE condensate is used for in-house requirement like drum washing, gardening, cooling tower etc. and MEE concentrate is taken in centrifuge and the solids from the centrifuges are being disposed of in their landfill facility.

WHEREAS the Central Government vide notification 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, to the Chairman, Central Pollution Control Board (CPCB), to issue directions to any industry or any local, or any other authority for any violation of the standards and rules notified under the Environment (Protection) Act, 1986 and amendments made thereof;


NOW, THEREFORE, in exercise of the power vested under Section 5 of the Environment (Protection) Act, 1986, and based on compliance of the aforesaid directions, the said directions dated 13/06/2018 is, hereby, revoked. However, the operator shall also ensure compliance with the provisions laid down under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

In case of failure to comply with the said Rules, action as deemed appropriate under the provision of the Environment (Protection) Act, 1986, and amendments thereof, will be initiated against the operator 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, Himachal Pradesh State Pollution Control Board, Him Parivesh, Phase-III, New Shimla-171009.
3. The Regional Director, Central Pollution Control Board, Ground Floor, PICUP Bhawan, Vibhuti Khand, Gomti Nagar, Lucknow - 226 010
- ✓ 4. I/c IT Division, CPCB, Delhi


(Prashant Gargava)
Member Secretary

