

F.No.B-31011(BMW)/30/93/2011/HWMD/

Speed Post

December 02, 2011

To

M/s Safe Environmental Solutions Ltd.
Q Park, Bath Road, Woodchester, Stroud,
Gloucestershire, England,
GL 5 5 HT.

2094-96

Sub: Approval for adoption of "Sharp Blaster (Needle Blaster)" for treatment of bio-medical waste category no.04 as per Bio-medical Waste (Management & Handling) Rules, 1998 as amended - reg.

Sir,

This has reference to the provisional approval granted by CPCB for the technology namely 'Sharp Blaster (Needle Blaster)' for treatment of bio-medical waste category no. 04 (i.e waste sharps) as required under the Bio-medical Waste (Management & Handling) Rules, 1998 as amended.

Your application for regular approval for the said technology was considered in 12th Meeting of the Expert Committee on Bio-medical Waste Management for Evaluation of the State-of-the-Art-Technologies for Treatment of Bio-medical Waste which was held on July 07, 2011 at CPCB, Delhi and accordingly approval of the Sharp Blaster (Needle Blaster) technology based on 'dry heat sterilization' in canister for treatment of waste category no. 04 as listed under Schedule I of the BMW Rules, 1998 is hereby granted for a period of 02 (two) years under the Bio-medical Waste (Management & Handling) Rules, 1998 as amended subject to the conditions as specified below:

- i. The bio-medical waste category no. 04 shall be continuously subjected to dry heat sterilization at a temperature not less than 185°C, at least for a period of 2 1/2 hours in each cycle, which includes sterilization duration of 90 minutes.
- ii. A microprocessor shall be attached with the system to ensure maintaining operational parameters and to record the operating parameters in each cycle including automated operation with no manual handling;
- iii. The system should completely & consistently kill/inactive 100 % of the bacteria and other pathogenic organisms at the maximum design capacity of the system, as ensured by approved biological indicator.
- iv. The biological indicators for the system shall be Geobacillus stearothermophilus as well as Bacillus atropheaus spores using vials or spore with at least 1×10^6 spores per milliliter (once in quarter) and Strip test while treating the every canister should be adopted as prescribed under BMW Rules and records maintained;
- v. The compressed canister in which sharp wastes are treated shall be disposed off by deep burial or through sanitary landfill in consultation with the respective SPCBs/PCCs;
- vi. The infected or contaminated carbon filter used to absorb the fumes & microorganism if any, during the treatment, shall be disinfected and the same shall be disposed off either by deep burial or through sanitary landfill in consultation with the SPCBs/PCCs.
- vii. The proponent should try to make available cheaper/affordable equipment including the consumable like canister;
- viii. Lid used for the canister should be of minimum thickness possible and free from PVC and it should be made of Poly propylene only;

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- ix. The label should provide all the details such as batch number, temperature maintained during the treatment process, duration of sterilization and date of treatment of each cycle;
- x. The equipment shall be encouraged for its use exclusively for treatment of the waste sharps excluding glass, as per BMW Rules;
- xi. The equipment shall be light in weight and portable for use in the immunization programme/vaccination/medical camps and in remote areas where access to equipment for treatment of waste sharps does not exist;
- xii. The operator shall make provision for calibration of the equipment especially with regard to temperature to ensure proper treatment;
- xiii. The Sharp container called "Canister" which is used for collection of waste sharps on-site (i.e within HCFs) for further treatment should be of specified colour code and proper label as stipulated under the BMW Rules;
- xiv. The Steel sheet used for manufacture of canister should be free from toxic constituents;
- xv. Any HCF/CBWTF has to obtain authorisation under the BMW Rules, 1998 as amended from the concerned SPCB/PCC prior to use of the "Sharp Blaster (Needle Blaster)"; and
- xvi. If required, CPCB will impose additional conditions in light of the Bio-medical Waste (Management & Handling) Rules, 1998 in future.

You are therefore, requested to take necessary action for ensuring compliance of the conditions stipulated in this approval.

This issues with the approval of the Competent Authority, Central Board.

Yours faithfully



(J.S. Kamyotra)
Member Secretary

Encl.: As above

Copy to:

- (i) Shri Rajiv Gauba, Joint Secretary, : For kind information please.
HSM Division, Ministry of Environment & Forest
Govt. of India, Paryavaran Bhawan,
C.G.O. Complex, Lodhi Road,
New Delhi - 110003.
- (ii) To all the members of Expert Committee (as per : For kind information please.
list enclosed)
- (iii) Shri Alok Mathur : For kind information & necessary action,
General Manager (Sales & Operations) please.
Adison Equipment Company
206, Nilgiri, 9 Barakhamba Road,
New Delhi - 110001.
- (iv) PS to CCB : For kind information of 'CCB', please.



(J.S. Kamyotra)

