

Biological waste disposal facility:

Different laboratories of IARI generate biological waste that may contain residual hazardous biological agents and their toxic metabolites. To dispose of the biowaste safely, IARI has installed a bioincinerator facility (50 Kg per hour with ash conversion to 1-2 % w/w of initial weight) with an investment of Rs. 18 lakhs in the year 2014. Here, the biological waste generated in the laboratories is incinerated to ash regularly to dispose of them as non-hazardous material (Fig 1). The facility operates on a regular interval to dispose of the materials safely. The records related to the incinerated material are documented and preserved (Refer to the attachment). Other wastes like chemicals are subjected to chemical treatments to make them non-hazardous to the environment.



Fig. 1. Incinerator facility at IARI, New Delhi

INCINERATOR

Manufacturer : Alfa-Therm Ltd.
6, community centre, Mayapuri, industrial area,
Phase-1, New Delhi-64 (India)

Contact Person : Mr. M. K. Singh, Mob.: +91 9958311116
Mr. Ravi Kumar, Mob.: +91 8826622457

Date of installation : 17.09.2014

Funding Agency : 12th plan IARI

Kindly report problems to : Head, Division of Plant Pathology
IARI, New Delhi-12
OR
Dr. A. Kumar, Principal Scientist
Division of Plant Pathology,
IARI, New Delhi-12
Email: kumar@iari.res.in

KINDLY MAKE ENTRIES IN LOGBOOK

Please check entries in the log book

| Sl No. | Date | From | To | Name of User | Material | Quantity |
|--------|------------|----------|----------|--------------|---------------|----------|
| 1 | 02.04.2014 | 10:00 am | 12:30 am | Testing | Dr. Gupta | 30kg |
| 2 | 02/04/14 | 3:00 pm | 4:00 pm | - | - | - |
| 3 | 10/04/14 | 11:00 am | 11:00 am | - | Dr. Gupta | 32kg |
| 4 | 11/04/14 | 3:00 pm | 4:00 pm | - | Dr. Gupta | 30kg |
| 5 | 30/04/14 | 3:00 pm | 4:00 pm | Dr. Gupta | Confidential | 100kg |
| 6 | 02/05/14 | 11:00 am | 12:30 pm | Dr. Gupta | Dr. Gupta | 20kg |
| 7 | | | | Dr. Gupta | Confidential | 12kg |
| 8 | | | | | | |
| 9 | 15/05/14 | 3:00 pm | 4:00 pm | Dr. Gupta | Confidential | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | 21.04.14 | 11:00 am | 12:30 pm | Dr. Gupta | Media Culture | 32kg |
| 15 | | | | | | |
| 16 | | | | Dr. Gupta | Confidential | 10kg |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | 11.05.14 | 10:30 am | 12:30 pm | Dr. Gupta | Media Culture | 30kg |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | 02/05/14 | 11:00 am | 12:30 pm | | | |
| 25 | | | | | | |
| 26 | 10/05/14 | 11:00 am | 12:30 pm | | | |
| 27 | | | | | | |

Log Book for Incinerator

Please make entries in the log Book

| Sl No. | Date | Time | | Name of User | Material | Quantity |
|--------|------------|----------|---------|-------------------------------|--|----------|
| | | From | To | | | |
| | | | | | Alfa Therm Pvt Ltd Supplied incubator and its accessories installation was completed; The facility was handed test runs and trials | |
| 1 | 02.09.2014 | 10:00am | 12:30am | Testing | Dry grass | 20kg |
| 2 | 05/9/14 | 2:00pm | 4:00pm | -do- | -do- | -do- |
| 3 | 10/9/14 | 11:00am | 4:00pm | -do- | Green + Dry grass | 25kg |
| 4 | 17/9/14 | 2:00pm | 4:00pm | -do- | Green grass | 20kg |
| 5 | 20/9/14 | 2:00pm | 6:00pm | P.G. School | Confidential paper | 400 kg |
| 6 | 08/10/15 | 11:15AM | 12:30pm | Dr. P. Sharma Dr. A. Kumar | P.G. papers used media | 50 kg |
| 7 | | | | Dr. Shaily parveen | infected wheat plants, used | } 15 kg |
| 8 | | | | | Culture media | |
| 9 | 12/02/15 | 2:00pm | 4:00pm | Dr. A. Kumar | Service of the machine by the Company Eng (Mr. Ravi Kumar) | |
| 10 | | | | | | |
| 11 | | | | | Used media, | 15 kg |
| 12 | | | | | infected plants | 5kg |
| 13 | | | | | | |
| 14 | 19.04.15 | 11:00am | 12:00pm | Dr. A. Kumar | Used culture media | 25kg |
| 15 | | | | | | |
| 16 | | | | Dr. Vaibhav Kumar | Infected wheat plants | 10kg |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | 11.06.15 | 10:30AM | 12:00PM | Dr. A. Kumar | Used culture media | 30kg |
| 20 | | | | | | |
| 21 | | | | | Infected plants of Rice and wheat | 15kg |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | 08-10-15 | 11:00 AM | 12:00pm | | Used culture media | 40kg |
| 25 | | | | | -do- | 45kg |
| 26 | 10-12-15 | 11:30 | 12:30 | | | |

| Name of Operator | Sig. of Operator | Sig. of Scientist I/C | Sig. of the Head | Remarks |
|---|------------------|-----------------------|------------------|--|
| <p>on 07 June 2014; Between June and August over to IAD on 17 Sep 2014 after series of</p> | | | | |
| MR. Ravi Kumar | | _____ | _____ | Smoke detected during the trial run was rectified. |
| -do- | | _____ | _____ | |
| -do- | | _____ | _____ | |
| Shiv Kr. Singh | Be-ingb | _____ | _____ | Exam material destroyed in the presence of P.G. School representative! |
| Shiv Kr. Singh | Be-ingb | _____ | _____ | |
| S.K. Singh | Be-ingb | _____ | _____ | |
| Shiv K Singh | Be-ingb | _____ | _____ | very less material was disposed off |
| S.K. Singh | Be-ingb | _____ | _____ | very less material was disposed off |
| Shiv Kr Singh | Be-ingb | _____ | _____ | very less material was disposed off |
| Shiv Kumar | Be-ingb | _____ | _____ | The motor for pumping water need to be repaired |
| -do- | Be-ingb | | | |
| -do- | Be-ingb | | | |