

Annex I

Tables adapted from S.I No.73/2001 – Genetically Modified Organisms (Contained Use) Regulations, 2001.

Table 4 Containment measures for contained use of GMM in a Class 1 & 2 Laboratory

| Measures | | Containment Level | |
|-----------------------|--|------------------------------|---|
| | | Class 1 | Class 2 |
| 1 | Laboratory suite: isolation | Not required | Not required |
| 2 | Laboratory: sealable for fumigation | Not required | Not required |
| Equipment | | | |
| 3 | Surfaces resistant to water, acids, alkalis, solvents, disinfectants, decontamination agents and easy to clean | Required for bench | Required for bench |
| 4 | Entry to laboratory via airlock | Not required | Not required |
| 5 | Negative pressure relative to the pressure of the immediate environment | Not required | Not required |
| 6 | Extract and input air from the laboratory should be HEPA-filtered | Not required | Not required |
| 7 | Microbiological safety cabinet | Not required | Optional |
| 8 | Autoclave | On site | In the building |
| System of work | | | |
| 9 | Restricted access | Not required | Required |
| 10 | Biohazard sign on the door | Not required | Required |
| 11 | Specific measures to control aerosol dissemination | Not required | Required to minimize |
| 12 | Shower | Not required | Not required |
| 13 | Protective clothing | Suitable protective clothing | Suitable protective clothing; footwear optional |
| 14 | Gloves | Not required | Optional |
| 15 | Efficient vector control (e.g. for rodents and insects) | Optional | Required |
| Waste | | | |
| 16 | Inactivation of genetically modified micro-organisms in effluent from hand-washing sinks or drains and showers and similar effluents | Not required | Not required |
| 17 | Inactivation of genetically modified micro-organisms in contaminated material and waste | Optional | Required |
| Other measures | | | |
| 18 | Laboratory to contain its own equipment | Not required | Not required |
| 19 | Observation window or alternative to enable occupants to be seen | Optional | Optional |

Table 5 Containment measures for contained use of genetically modified micro-organisms in plant growth facilities

| Measures | | Containment Level | |
|-----------------------|--|------------------------------------|------------------------------------|
| | | Class 1 | Class 2 |
| Building | | | |
| 1 | Permanent structure | Not required | Required |
| Equipment | | | |
| 2 | Entry via a separated room with two interlocking doors | Not required | Optional |
| 3 | Control of contaminated run-off water | Optional | Required to minimise run-off |
| System of work | | | |
| 4 | Measures to control undesired species such as insects, rodents, arthropods | Required | Required |
| 5 | Procedures for transfer of living material between the plant growth facility and laboratory to control dissemination of genetically modified micro-organisms | Required to minimise dissemination | Required to minimise dissemination |

Table 6 Containment measures for contained use of genetically modified micro-organisms in animal units

| Measures | | Containment Level | |
|-------------------|--|-------------------|--------------------|
| | | Class 1 | Class 2 |
| Facilities | | | |
| 1 | Isolation of animal unit | Optional | Required |
| 2 | Animal facilities separated by lockable doors | Optional | Required |
| 3 | Animal facilities designed to facilitate decontamination | Optional | Optional |
| 4 | Floor and walls easily washable | Optional | Required for floor |
| 5 | Animals kept in appropriate containment facilities | Optional | Optional |
| 6 | Filters on isolators or isolated room | Not required | Optional |

Table 7 Containment measures for contained use of genetically modified micro-organisms in facilities other than those covered by tables above

| Measures | | Containment Level | |
|-----------------------|--|--------------------------|------------------------------------|
| | | Class 1 | Class 2 |
| General | | | |
| 1 | Viable micro-organisms contained in a system which separates the process from the environment, i.e. a closed system | Optional | Required |
| 2 | Control of exhaust gases from the closed system | Not required | Required to minimise dissemination |
| 3 | Control of aerosols during sample collection, addition of material to a closed system or transfer of material to another closed system | Optional | Required to minimise dissemination |
| 4 | Inactivation of bulk culture fluids before removal from the closed system | Optional | Required, by validated means |
| 5 | Seals designed to minimise or prevent release | No specific requirement | Required to minimise dissemination |
| 6 | Designation of controlled area to contain spillage of the entire contents of the closed system | Optional | Optional |
| 7 | Controlled area sealable to permit fumigation | Not required | Optional |
| Equipment | | | |
| 8 | Entry via airlock | Not required | Not required |
| 9 | Surfaces resistant to water, acid, alkalis, solvents, disinfectants, decontamination agents and easy to clean | Required for bench | Required for bench |
| 10 | Specific measures adequately to ventilate the controlled area in order to minimise air contamination | Optional | Optional |
| 11 | Controlled area maintained at an air pressure negative to the immediate surroundings | Not required | Not required |
| 12 | Extract and input air from the controlled area to be high efficiency particulate air filtered | Not required | Not required |
| System of work | | | |
| 13 | Closed systems located within a controlled area | Not required | Optional |
| 14 | Access restricted to nominated personnel only | Not required | Required |
| 15 | Biohazard signs posted | Not required | Required |
| 16 | Personnel to shower before leaving the controlled area | Not required | Not required |
| 17 | Personnel to wear protective clothing | Required (work clothing) | Required (work clothing) |
| Waste | | | |
| 18 | Inactivation of GMM in effluent from hand-washing sinks or showers or similar effluents | Not required | Not required |
| 19 | Inactivation of GMM in contaminated material and waste including those in process effluent before final discharge | Optional | Required, by validated means |