Appendix -1

Questionnaire for Occupiers

I) Healthcare setting:

1) Medical College-Hospital. □
2) Private Hospital / Nursing Home. □
3) Community Health Centre. □
4) Primary Health Centre. □
5) Laboratories / Blood Bank. □
6) Dental Clinic. □
7) Dispensary. □
8) Others. _____________________

2. a) Person interviewed: 
   b) Education

   A. Medical authorities □
   A. Post Graduation □

   B. Doctor □
   B. Graduation □

   C. Nurse □
   C. Secondary □

   D. Auxiliary Staff □
   D. Primary □

   E. Illiterate □

3. a) Age. ____________
   b) Sex (M □ /F □ )
4. What is the quantity of waste generated every day in your healthcare setting?

_________________________________

Waste Management Policy:

1. Are you aware of any legislation/rules applicable to the hospital waste management?

   Yes □   No □

   If yes, please list the legislative act/rules

   ____________________________________________________________-

2. Does your healthcare setting have a waste management plan?

   Yes □   No □

3. Are there waste management responsibilities in the-job descriptions of hospital supervisory staff (Head of hospital, Department Heads, Nursing Superintendent, Pharmacist, Lab Supervisor etc)

   Yes □   No □

4. Are you aware of authorisation?

   Yes □   No □

   If yes, when it is it required?

   ____________________________________________________________--

Waste Management Practices:

5. Tick the facilities available for Waste Management –
6. Should waste be segregated into different categories?

   Yes ☐   No ☐

   If yes, who does the segregation?

   1. Doctor ☐
   2. Nursing Assistant ☐
   3. Auxiliary staff ☐
   4. Do not Know ☐

7. Do you color code the waste for disposal?

   Yes ☐   No ☐

   If yes, match the following

<table>
<thead>
<tr>
<th>Color</th>
<th>Puncture proof</th>
<th>Incinerator / Deep Burial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yellow</td>
<td>Puncture proof</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Plastic Bag</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Container</td>
<td></td>
</tr>
<tr>
<td>Red</td>
<td>Plastic Bag</td>
<td>Disposal Landfill</td>
</tr>
<tr>
<td>Blue / White</td>
<td>Plastic Bag</td>
<td>Autoclave / Microwave</td>
</tr>
<tr>
<td>Black</td>
<td>Disinfected container</td>
<td>Autoclave / Microwave</td>
</tr>
<tr>
<td></td>
<td>Plastic-Bag</td>
<td></td>
</tr>
</tbody>
</table>
8. Is the infection waste labelled with the Bio-Hazard Symbol?

   Yes ☐   No ☐

9. Where do you dispose Bio-Medical Waste?

   1. Dumping in corporation bin ☐
   2. House to Rouse Waste Collection ☐
   3. Any authorised hospital waste collection ☐
   4. Any other specify ______________________

10. Do you maintain a register for waste disposal?

    Yes ☐   No ☐

11. Has your healthcare setting done a waste audit in last three years?

    Yes ☐   No ☐

**Employee education:**

12. Have you undergone any training programme on hospital waste management?

    Yes ☐   No ☐

13. Does your hospital provide annual education on waste management for employee?

    Yes ☐   No ☐

14. Would you like to attend a programme on Hospital Waste Management?

    Yes ☐   No ☐
### Attitude Assessment

<table>
<thead>
<tr>
<th></th>
<th>Agree</th>
<th>Disagree</th>
<th>No comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>15. a) Safe management of healthcare waste is not an issue at all.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b) State management of healthcare waste is the responsibility of government.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>c) Waste management is team work / no single class of people is responsible for safe management.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>d) Safe Management Efforts by Hospitals Increased financial burden on Management</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>e) Self Management of Healthcare Waste is An extra burden on work</td>
<td></td>
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</tbody>
</table>

Thank you for your cooperation
Appendix -2

Questionnaire for Enforcement Authorities

Part I - Preliminary statistical data relating to State of Goa:

Number of Occupiers:

a. Hospitals ... ...

b. Nursing homes ... ...

c. Clinics/ dispensaries ... ...

d. Path labs ... ...

e. Dental units ... ...

f. Blood banks ... ...

g. Veterinary institutions ... ...

h. Animal houses ... ...

i. Production units of biologicals ... ...

j. Research units of biologicals ... ...

k. Others ... ...

2. How many of above Occupiers have requisite treatment facilities:

a. specify names, if few ... ...

b. Number of common facilities, if any ... ...
c. Position at GMC

...  

d. Other major hospitals

...

e. Military hospital (Campal)

...

3. **Number of Operators:**

a. Prior to 2007:

... ...

b. Recent (in 2007):

... ...

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**Part – II Information about BMW Rules and role of Pollution Control board:**

1. Constitution of the board:

2. Number of officials overseeing enforcement:

(Designations/qualifications/expertise)

3. What is a pollution control committee? (Rule 7(1))

4. How does the board assess: (surprise check or routine monitoring?)

a. Treatment and disposal as per Sch I  

... ... ...

b. Segregation as per Sch II(colour code)  

... ... ...

c. Storage beyond 48 hrs as per Rule 6(5)  

... ... ...

d. Any application under proviso for further delays?  

...
e. Feasibility when granting authorisations  
   …  …  …

f. Untreated waste being transported?  
   …  …

g. Standards under Sch V  
   …  …  …

5. Any cases of cancellations?

6. What is the fee for application in Form I?

7. Why the “less than 1000 patient per month clause” for Occupiers in Rule 8(1)?

8. How is the number assessed?

9. How is Bio-Medical Waste Management controlled in respect of others?

10. Who is appellate body when authorization is refused?

11. Is annual reporting rigorously followed?

12. How many cases of accident reporting?

13. Number of violators (approximate) in last 4-5 years:

14. What penalties can the board impose?

15. Can the board order closure of Occupier’s unit?

15. Has Rule 14 (common disposal) been enforced?
Part – III  Information about civic bodies and role of pollution control board

1. Total number of Municipal bodies in the State:

2. Is their role mandatory under BMW rules - (In view of Rule 6(6))? 

3. What about Village Panchayats? Their number:

4. Can action be taken by the board against civic bodies for lapses?

Part – IV  Role of Non-governmental organizations (NGOs)/others:

1. What is their role? Have they contributed to ameliorating the scenario?

2. Any specific names?

3. Any other stakeholders? Their role?

Part – V  Education in Bio-Medical Waste Management:

1. Training of medical and para-medical staff to handle wastes
2. Is there awareness/sensitisation of the rules through seminars, conferences etc?

3. Are there advertisements about hazards issued via press/media?

4. What about web based information? Who updates and how often?

Any other relevant information?

Thank you for your cooperation