

**ENVIRONMENTAL HEALTH RISK MANAGEMENT PLAN (EHRMP) FORMAT**

(i) Brief description of the proposed activity: Environmental Health and Safety encompasses the laws, rules, guidance and processes designed to help protect employees, the public and the environment from harm. The programs and services of Risk Management and Safety combine the technical disciplines of environmental health and safety with risk control and risk transfer. The University is a significant teaching, research, and public service enterprise with the potential for a wide variety of inherent hazards and loss exposure that must be combated.			
(ii) List of environments related regulatory clearances required for the activity. BS 1 and BS 2 level activities			
Institutional Arrangement			
	Yes	No	Proposed Plan
1. Is there a designated full-time staff for Environment Health and Safety (EHS) issues?		No	Faculty is in charge of handling this said responsibility
2. Does the EHS staff handle the following?			Any other: -
Occupational Health and Safety	Yes		
Waste Management	Yes		
List of consents and regulatory clearances	Yes		
Record keeping of accidents and procedures	Yes		
EHS trainings for staff	Yes		
Environment Management Framework compliance for Innovate in India Project	Yes		
4. Is there a reporting structure in place regarding EHS issues?	Yes		Start up incubatees report to the division incharge. All divisions units have their own EHS incharge who report to the university incharge. Standardizing documents provides a process for ensuring the latest documents are being used, documents are being reviewed periodically, and new documents are properly approved. A record retention process is critical to retrieving records, e.g., training, audits, etc., in a timely manner and purging them according to KIIMS policy.
5. Are regular EHS trainings provided to staff?	Yes		Frequency: Annually

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<b>General Occupational Health and Safety</b>				
6.	Are there Standard Operating Procedures for accidents, hazards, and other emergencies (chemical spills, heat hazards, fire hazards, radioactive hazards etc.)?	Yes	They are all placed in every floor and in accessible place.	
7.	Are the following in place?			
	Chemical spill kits	Yes		
	Eye wash	Yes		
	Shower stations	Yes		
	First Aid Kit	Yes		
	Fire Extinguishers	Yes		
	Register of accidents and injuries	Yes		
8.	Are proper signage and storage system in place?	Yes		
	Display of Material Safety Data Sheet (MSDS) where relevant	Yes		
	Display of emergency numbers and procedures (Person to Contact, Doctor, Ambulance, Fire Emergency, Police) displayed in all critical places	Yes		
	Signage across the facility (labs, storage, hazardous areas, etc.)	Yes		
	Are flammable materials appropriately stored to prevent fire hazards?	Yes		
9.	Are smoke detectors, fire alarms, automatic safety/shut off systems, overflow preventors, etc. in place and regularly maintained?	Yes	List:	
10.	Are there control measures for VOC, air emissions, high operating temperatures, pathogens/vectors etc. in place?	Yes	List:	
11.	Are regular mock drills conducted for emergency preparedness and safety?	No	Frequency (type wise):	
12.	Are staff provided with OHS training?	Yes	Describe: OHS training class is organized which involves instructions and hazard recognition and control, safe work practices, proper use of personal protective equipment, and emergency procedures and preventive actions.	
<b>Biomedical Waste (BMW)</b>				

13.	Is there generation of biomedical waste (as described in Bio-Medical Waste Management Rules, 2016) in the grantee?	Yes	<p>If Yes, provide a list of biomedical waste produced in the facility:          Fermentation waste          solids, Chemical waste;          raw material packaging,          Used air filter media,          Laboratory Waste.</p> <p>If No, provide a list of all waste produced in the facility.</p>									
14.	Is there trained staff to handle biomedical waste in the grantee?	Yes										
15.	Has the grantee obtained authorization from State Pollution Control Board /Pollution Control Committee?	Yes										
16.	Is the biomedical waste segregated at point of generation in the facility and stored in suitable containers?	Yes	<table border="1"> <tr> <td>Yellow</td> <td>Human and animal waste, Expired medicines,</td> </tr> <tr> <td>Red</td> <td>Syringe without needs, Gloves</td> </tr> <tr> <td>White</td> <td>Syringes with fixed needles</td> </tr> <tr> <td>Blue</td> <td>Broken glass, metals</td> </tr> </table>	Yellow	Human and animal waste, Expired medicines,	Red	Syringe without needs, Gloves	White	Syringes with fixed needles	Blue	Broken glass, metals	
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17.	Is the bar code system for the segregated waste in place?	No										
18.	Is the biomedical waste being sent to an authorized common BMW facility?	Yes	<p>Name and address of CBMWF:</p> <p>Distance from facility:</p> <p>Frequency and Mode of transport:</p> <p>Who transports?</p>	<p>Sani clean Pvt Ltd. 401, Radha Govind Enclave, N-4-42F, IRC Village, Bhubaneswar-751015.</p> <p>30 kms</p> <p>Daily</p> <p>Sani Clean</p>								
19.	Does the grantee have an in-house BMW treatment facility?	No	Reason:									
	Is the treatment facility own (individual)?		Authorization:									



	Is the treatment facility a shared facility in an industrial park?			Distance of nearest CBWM from facility:	
				Types of treatment:	
20.	Are lab waste, microbiological waste and chemical liquid waste pre-treated before storing and sending to treatment facilities according to guidelines prescribed in BWM, 2016 regulations?	Yes		Types of treatment: Chemical disinfection and autoclaving	
21.	Is the liquid waste checked for active cells before sending to treatment plant?	Yes		Cultures are made and checked before disposal	
22.	Are necessary waste pre-treatment equipment in place?	Yes		List of equipment :autoclaves, shredders	
	Do the equipment adhere to prescribed norms by State Pollution Control Board (SPCB)?	Yes		Details of waste pre-treatment: cell culture lab waste treated with autoclave or bleach	
23.	Are non-chlorinated plastic gloves and bags phased out in the grantee?	Yes			
24.	Are grantee's personnel involved in handling BMW provided with regular training?	Yes		Frequency: as and when grantee joins  Trainer: EHS in-charge and grantee	
25.	Are medical examination provided to personnel involved in BMW waste handling and are they provided with relevant immunization like Hepatitis B and Tetanus?	Yes		Frequency of medical examination:	
26.	Is a daily register for biomedical waste maintained including accident reporting record?	Yes			
27.	Are annual reports on BWM submitted to SPCB as per required form (see Bio-Medical Waste Rules 2016)?				
<b>Hazardous Waste (HW)</b>					
28.	Is there generation of hazardous waste (as per Hazardous Waste Rules, 2016) in the grantee?	No		If Yes, provide a list of hazardous waste produced in the facility:  If No, provide a list of all waste produced in the facility.	

29.	Is there trained staff in the facility to identify and handle hazardous waste?		No		
30.	Does the grantee have authorization from SPCB for hazardous waste?		No		
31.	Is there a secure location for storage of HW with proper signage?		No	Describe how each item is stored – platforms, distances from critical installations/movement areas, spill collectors, gas escape facility, etc.	
	Are hazardous waste stored for more than 90 days in the grantee's premises?		No		
33.	Is the hazardous being send to an <b>authorized</b> disposal facility or user?	yes		Name and address of facility:	
	Is the disposal facility in house?				
	Is the disposal facility external/outsourced?				
34.	Is a register maintained on production and treatment, and a manifest system followed for transport of hazardous waste from the grantee to treatment facility?		No		
<b>E-Waste and Batteries</b>					
35.	Does the grantee generate e-waste, produce or manufacture electrical and electronic equipment?		Yes	Produce or prototype electrical and electronic equipment in Facility	Refurbishment, reuse, resale, salvage recycling through material recycling vendors.
36.	Has the grantee obtained SPCB authorization on e-waste?		No		
37.	Does the grantee channelize the e-waste to <b>authorized</b> recycling or disposal facility?	Yes		Name and address of disposal facility/recycler: Greenex India Resources Pvt. Ltd  Inhouse or outsourced Facility: VIROGREEN India Private Limitedto recycle plastic waste	We channelizethe e-waste to authorized recycling or disposal facilitymaterial recycling vendors.
38.	Does the manufacturing grantee have Extended Producer Responsibility system and EPR-authorization in place?		No		
39.	Does the grantee practice reduction in the usage of hazardous substances in the manufacture of electrical and electronic equipment and its parts?	Yes		By following 5S and KAIZEN less material waste is less.	We follow 5S and KAIZEN SOP to reduce waste

40.	Does the grantee provide detailed information on the constituents of the equipment and their components/spares and declaration of conformation to Reduction in Hazardous Substances in the product user documentation?	yes	Maintaining product material documentation grantee provide detailed information	Soft Records are maintained and accessed online.
40.	Does the grantee maintain a record of collection, storage, sale and transport of e-waste?	yes	Grantee has their own database to record of collection, storage, sale and transport of e-waste?	Proper Storage and waste management is done through Lean Prototyping and 5S practice.
41.	Does the grantee submit annual reports on e-waste to SPCB?	No	Greenex India Resources Pvt. Ltd.	
42.	Is there accident reporting and records in place?	No		
43.	Are PPEs available to staff?	Yes		WE Provide PPE to every grantee in our campus.
44.	Is the grantee involved in manufacture of batteries?	No		
45.	Does the grantee generate battery waste?	No		
46.	Does the grantee deposit the battery waste to registered recycler/dealer/manufacture/reconditioner/collection center?	No	Name and address of battery waste receiving entity:	
47.	In case of manufacturing, does the grantee comply to Battery Management Rules 2000 and ensure collection of old batteries?	No		
Other				
48.	Does the grantee use any radioactive materials (isotopes tracers, radiation equipment, etc)?	No		
	Does the grantee have appropriate radioactive material and waste storage and disposal system in place?	No		
	Are radioactive warning signs in place?	Yes		
49.	Is the lab/room air regularly checked for microbial contamination?	Yes		
50.	Are there any odor control measures in place?	Yes		
51.	Are fume hoods and exhausts regularly checked and maintained?			
52.	Does the grantee use DG set > 15 KVA?	No		
	Does the grantee have consent for DG > 15 KVA?	No		
	Are emissions from boilers and DG sets regularly monitored to be within the prescribed norms?	No		
53.	Does the grantee have proper disposal process for solid and plastic waste in compliance to Solid Waste Management Rules, 2016 and Plastic Waste Management Rules, 2016?	Yes	Wastes are segregated into three streams such as Biodegradables, Dry (Plastic, Paper, metal, Wood, etc.) and Domestic Hazardous waste. The recyclable material are either handed over to	

			authorised waste-pickers and recyclers or to the urban local body.	
54.	Is wastewater treated separately by the grantee? (Liquid waste from laboratory, chemicals, fluids, solvents, medium and cultures, coolants, etc.)	Yes	Types of wastewater: Acids, Base and other solvents  Treatment of wastewater: Once the solvents are no longer usable, the liquid are placed in suitable closed container (preferably the original container) and labeled as a Hazardous Waste  Chemical management in wastewater treatment plants:	
	Are there sludge management and cut off drains in place for wastewater?	Yes		
55.	Are necessary provisions for noise cancellation in place?	Yes	Describe:	
56.	Are there any settlements, water bodies, cultivated land, or any other eco-sensitive areas near the grantee's premises?	Yes	Describe:  Distance from premises:	
57.	Are there any buffers, fire vehicle routes in the grantee's premises?	Yes		

