

**INNOVATE IN INDIA FOR INCLUSIVENESS (I 3)**

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

- (i) Brief description of the proposed activity
- (ii) List of environments related regulatory clearances required for the activity.

**Institutional Arrangement**

	Yes	No	Details	Proposed Plan
1. Is there a designated full-time staff for Environment Health and Safety (EHS) issues?	✓		Details of EHS Officer at EDC: <b>Sujaya Ingale</b> Sr Manager - Scientific Initiatives Entrepreneurship Development Center 100, NCL Innovation Park Dr. HomiBhabha Road, Pashan, Pune – 411008 Web: <a href="http://www.venturecenter.co.in">www.venturecenter.co.in</a> Phone: +91-20-25865877 /75 /76 Mobile: +91-9172232214 Email: <a href="mailto:lab@venturecenter.co.in">lab@venturecenter.co.in</a>	
2. Does the EHS staff handle the following?			Any other: No	
Occupational Health and Safety		✓		
Waste Management	✓			
List of consents and regulatory clearances	✓			
Record keeping of accidents and procedures	✓			
EHS trainings for staff	✓			
Environment Management Framework compliance for Innovate in India Project		✓	NA	Not relevant for the proposed project

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4.	Is there a reporting structure in place regarding EHS issues?	✓			The EHS officer is alerted towards the EHS issue arisen via a written description. EHS issue site is visited and situation is reviewed. A document describing the action to be taken and steps for prevention of recurrence of the issue is prepared.	
5.	Are regular EHS trainings provided to staff?	✓			Frequency: 1 per year	
<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.)?	NA	NA		NA	Not relevant for the proposed project
7.	Are the following in place?	NA	NA		NA	Not relevant for the proposed project
	Chemical spill kits	NA	NA			
	Eye wash	NA	NA			
	Shower stations	NA	NA			
	First Aid Kit	NA	NA			
	Fire Extinguishers	NA	NA			
	Register of accidents and injuries	NA	NA			
8.	Are proper signage and storage system in place?	NA	NA		NA	Not relevant for the proposed project
	Display of Material Safety Data Sheet (MSDS) where relevant					
	Display of emergency numbers and procedures (Person to Contact, Doctor, Ambulance, Fire Emergency, Police) displayed in all critical places	✓				
	Signage across the facility (labs, storage, hazardous areas, etc.)	✓				
	Are flammable materials appropriately stored to prevent fire hazards?	✓				

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9.	Are smoke detectors, fire alarms, automatic safety/shut off systems, overflow preventors, etc. in place and regularly maintained?	✓		List: Fire extinguishers, Eye wash, Shower stations, first aid kits	
10.	Are there control measures for VOC, air emissions, high operating temperatures, pathogens/vectors etc. in place?			List: NA	Not relevant for the proposed project
11.	Are regular mock drills conducted for emergency preparedness and safety?	✓		Frequency: 1 per year	
12.	Are staff provided with OHS training?	NA	NA	NA	Not relevant for the proposed project
<b>Biomedical Waste (BMW)</b>					
13.	Is there generation of biomedical waste (as described in Bio-Medical Waste Management Rules, 2016) in the grantee?	NA	NA	If Yes, provide a list of biomedical waste produced in the facility  If No, provide a list of all waste produced in the facility.	Not relevant for the proposed project
14.	Is there trained staff to handle biomedical waste in the grantee?	A	NA		Not relevant for the proposed project
15.	Has the grantee obtained authorization from State Pollution Control Board /Pollution Control Committee?	NA	NA	NA	Not relevant for the proposed project
16.	Is the biomedical waste segregated at point of generation in the facility and stored in suitable containers?	NA	NA	Yellow Red White Blue	Not relevant for the proposed project
17.	Is the bar code system for the segregated waste in place?	NA	NA		Not relevant for the proposed project
18.	Is the biomedical waste being sent to an authorized common BMW facility?	NA	NA	Name and address of CBMWF:  Distance from facility:  Frequency and Mode of transport: Who transports?	Not relevant for the proposed project

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19.	Does the grantee have an in-house BMW treatment facility?	A	A	Reason:	Not relevant for the proposed project
	Is the treatment facility own (individual)?	NA	A	Authorization:	
	Is the treatment facility a shared facility in an industrial park?	A	A	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?	NA	A	Types of treatment:	Not relevant for the proposed project
21.	Is the liquid waste checked for active cells before sending to treatment plant?	NA	NA		Not relevant for the proposed project
22.	Are necessary waste pre-treatment equipment in place?	NA	NA	List of equipment (autoclaves, shredders, incinerators, etc.):	Not relevant for the proposed project
	Do the equipment adhere to prescribed norms by State Pollution Control Board (SPCB)?	A	NA	Details of waste pre-treatment:	
23.	Are non-chlorinated plastic gloves and bags phased out in the grantee?	A	A		Not relevant for the proposed project
24.	Are grantee's personnel involved in handling BMW provided with regular training?	NA	A	Frequency:	Not relevant for the proposed project
				Trainer:	
25.	Are medical examination provided to personnel involved in BMW waste handling and are they provided with relevant immunization like Hepatitis B and Tetanus?	NA	NA	Frequency of medical examination:	Not relevant for the proposed project
26.	Is a daily register for biomedical waste maintained including accident reporting record?	NA	A		Not relevant for the proposed project
27.	Are annual reports on BWM submitted to SPCB as per required form (see Bio-Medical Waste Rules 2016)?	NA	NA		Not relevant for the proposed project

**Hazardous Waste (HW)**

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28.	Is there generation of hazardous waste (as per Hazardous Waste Rules, 2016) in the grantee?	NA	NA	If Yes, provide a list of hazardous waste produced in the facility  If No, provide a list of all waste produced in the facility.	Not relevant for the proposed project
29.	Is there trained staff in the facility to identify and handle hazardous waste?	A	NA		Not relevant for the proposed project
30.	Does the grantee have authorization from SPCB for hazardous waste?	NA	NA		Not relevant for the proposed project
31.	Is there a secure location for storage of HW with proper signage? Are hazardous waste stored for more than 90 days in the grantee's premises?	NA	NA	Describe how each item is stored – platforms, distances from critical installations/movement areas, spill collectors, gas escape facility, etc.	Not relevant for the proposed project
33.	Is the hazardous being sent to an authorized disposal facility or user? Is the disposal facility in house? Is the disposal facility external/outsourced?	NA	NA	Name and address of facility:	Not relevant for the proposed project
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?	NA	NA		Not relevant for the proposed project
<b>E-Waste and Batteries</b>					
35.	Does the grantee generate e-waste, produce or manufacture electrical and electronic equipment?		✓		No electronic waste is generated
36.	Has the grantee obtained SPCB authorization on e-waste?	A	NA		Not relevant for the proposed project

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37.	Does the grantee channelize the e-waste to <b>authorized</b> recycling or disposal facility?	A	NA	Name and address of disposal facility/recycler:  Inhouse or outsourced Facility: Describe:	Not relevant for the proposed project
38.	Does the manufacturing grantee have Extended Producer Responsibility system and EPR-authorization in place?	NA	NA		Not relevant for the proposed project
39.	Does the grantee practice reduction in the usage of hazardous substances in the manufacture of electrical and electronic equipment and its parts?	NA	NA		Not relevant for the proposed project
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?	NA	NA		Not relevant for the proposed project
40.	Does the grantee maintain a record of collection, storage, sale and transport of e-waste?	NA	NA		Not relevant for the proposed project
41.	Does the grantee submit annual reports on e-waste to SPCB?	NA	NA		Not relevant for the proposed project
42.	Is there accident reporting and records in place?	NA	A		Not relevant for the proposed project
43.	Are PPEs available to staff?	NA	NA		Not relevant for the proposed project
44.	Is the grantee involved in manufacture of batteries?		✓		Not involved in manufacture of batteries
45.	Does the grantee generate battery waste?		✓		No battery waste will be generated
46.	Does the grantee deposit the battery waste to <b>registered</b> recycler/dealer/manufacturer/reconditioner/collection center?	A	NA	Name and address of battery waste receiving entity:	Not relevant for the proposed project
47.	In case of manufacturing, does the grantee comply to Battery Management Rules 2000 and ensure collection of old batteries?	NA	NA		Not relevant for the proposed project
				<b>Other</b>	
48.	Does the grantee use any radioactive materials (isotopes tracers, radiation equipment, etc)?		✓		No radioactive material will be used in the proposed project

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	Does the grantee have appropriate radioactive material and waste storage and disposal system in place?	NA	NA	Describe: NA	No radioactive material will be used in the proposed project
	Are radioactive warning signs in place?	A	NA		Not relevant for the proposed project
49.	Is the lab/room air regularly checked for microbial contamination?	A	NA		Not relevant for the proposed project
50.	Are there any odor control measures in place?	NA	NA		Not relevant for the proposed project
51.	Are fume hoods and exhausts regularly checked and maintained?	A	NA		Not relevant for the proposed project
52.	Does the grantee use DG set > 15 KVA?	✓			
	Does the grantee have consent for DG > 15 KVA?	✓			
	Are emissions from boilers and DG sets regularly monitored to be within the prescribed norms?	✓			
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?	✓		Waste segregation at source is done into Biodegradable and Dry waste. Biodegradable waste is composted on campus, while dry waste is sent to municipal waste collection site.	
54.	Is wastewater treated separately by the grantee? (Liquid waste from laboratory, chemicals, fluids, solvents, medium and cultures, coolants, etc.)	NA	NA	Types of wastewater:  Treatment of wastewater:  Chemical management in wastewater treatment plants:	Not relevant for the proposed project
	Are there sludge management and cut off drains in place for wastewater?	NA	NA		Not relevant for the proposed project
55.	Are necessary provisions for noise cancellation in place?	NA	NA	Describe:NA	No high noise generating procedures are involved in the proposed project

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56.	Are there any settlements, water bodies, cultivated land, or any other eco-sensitive areas near the grantee's premises?		✓	Describe:NA	
57.	Are there any buffers, fire vehicle routes in the grantee's premises?		✓	Distance from premises:NA	

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