

Environmental and Health Risk Management Plan (EHRMP)

Levram Lifesciences Private Limited

Proposal entitled: Diagnostic kit for detection of Virus via swab testing

i. Brief description of the proposed activity:					
LEVRAM: Funding of project entitled as, “Diagnostic kit for detection of Virus via swab testing”.					
ii. List of environment related regulatory clearances required for the activity.					
LEVRAM: Pollution Control Committee (PCC) certificate is available to us.					
Sr. No.	Particulars	Yes	No	Details	Proposed plan
INSTITUTIONAL ARRANGEMENT					
1.	Is there a designated full-time staff for Environment Health and Safety (EHS) issues?	--	No	The EHS issue is handled Project Managers for their particular projects and the Quality team monitors it.	We can plan for a designated full-time staff for Environment Health and Safety (EHS) issues if required.
2.	Does the EHS staff handle the following?	--	--	--	--
	Occupational Health and Safety	Yes	--	<ul style="list-style-type: none"> The management looks into Occupational Health and safety of all employees at work place. 	<p>We have proposed plan for the same.:</p> <ul style="list-style-type: none"> Avoidance of hazards (primary prevention). Safe technology optimization of working conditions. Integration of production and health and safety activities. Primary responsibility of the employer and entrepreneur for health and safety at the workplace.

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					<ul style="list-style-type: none"> • Recognition of employees' own interest in occupational health and safety. • Cooperation and collaboration on an equal basis by employers and workers. • Right to participate in decisions concerning one's own work • Right to know and principle of transparency. <p>Continuous follow-up and development of occupational health and safety will be done.</p>
	Waste Management	Yes	--	Waste management in generally involves collection, transport, treatment and disposal of waste, together with monitoring and regulation of the waste management process.	Levram is in process to register itself as seller of scrap at Omnibus Industrial Development Corporation (OIDC) and Metal Scrap Trade Corporation Limited.
	List of consents and regulatory clearances	Yes	--	Pollution Control Committee (PCC), Daman and Dadra and Nagar Haveli have certified Levram.	We have proposed plan ready to take consent for sending our wastage media to municipal corporation affiliated organisation. Our remaining biological hazardous substances such as used needles are discarded properly and

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				are not directly discarded with regular waste.
	Record keeping of accidents and procedures	Yes	--	Adverse events are noted by Quality officer and reported to management.
	EHS trainings for staff	Yes	--	<p>Training is given to staff on:</p> <ul style="list-style-type: none"> • Workplace ergonomics • Fire safety • Workplace violence prevention • Employee health resources • Environmental safety • Equipment safety • Online safety and cyber security
	Environment Management Framework compliance for Innovate in India Project		--	<p>We are looking forward to implement Environment Management.</p> <p>We are in-process of planning an NBM BIRAC Environment Management Framework; as per the given link.</p> <p>https://www.birac.nic.in/nbm/uploads/2019/08/emf.pdf</p>
3.	Is there a reporting structure in place regarding EHS issues?	Yes	--	<p>Employees have to report EHS issues to General Manager.</p> <p>This will be maintained complying with Environment Health and Safety Policy.</p>
4.	Are regular EHS trainings provided to staff?	Yes	--	<p>EHS training are provided to the employees when the</p> <p>Training will be provided as and when required to all the</p>

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				newly join.	existing as well as newly recruited staffs.
GENERAL OCCUPATIONAL HEALTH AND SAFETY					
5.	Are there Standard Operating Procedures for accidents, hazards, and other emergencies (chemical spills, heat hazards, fire hazards, radioactive hazards etc.)?	Yes	--	SOPs are available for hazards and accidental emergencies.	SOPs and protocols will be maintained for any new activity included in the work.
6.	Are the following in place?	--	--	--	--
	Chemical spill kits	Yes	--	Chemical spillage is mostly cleaned using usual cleaning equipment.	Proper equipment will be in place and stock will be maintained as per the guidelines for Environment Health and Safety (EHS) enacted by the legislature.
	Eye wash	Yes	--	Eye wash area available in chemical preparation lab.	
	Shower stations	No	--	Shower stations are not required	
	First Aid Kit	Yes	--	First Aid Kit is available to all employees	
	Fire Extinguishers	Yes	--	Fire extinguishers are installed and are checked regularly as per Annual Maintenance Contract (AMC).	
	Register of accidents and injuries	--	No	Register of accidents and injuries is not required. The work area is very safe no such event has been reported yet.	
7.	Are proper signage and storage system in place?	Yes	--	Not any	These would be regularly update/ replaced while carrying out maintenance.
	Display of Material Safety Data Sheet (MSDS) where relevant	Yes	--	MSDS of product displayed in working area.	

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	Display of emergency numbers and procedures (Person to Contact, Doctor, Ambulance, Fire Emergency, Police) displayed in all critical places	Yes	--	Emergency numbers and procedures displayed in required areas.	
	Signage across the facility (labs, storage, hazardous areas, etc.)	Yes	--	Available signage across the facility.	
	Are flammable materials appropriately stored to prevent fire hazards?	Yes	--	Flammable materials are appropriate stored.	
8.	Are smoke detectors, fire alarms, automatic safety/shutoff systems, overflow preventers, etc. in place and regularly maintained?	--	No	We do not have smoke detectors, fire alarms, automatic safety /shutoff systems or overflow preventers installed in factory.	These will be established soon and regularly maintained throughout the project.
9.	Are there control measures for VOC, air emissions, high operating temperatures, pathogens/vectors etc. in place?	--	No	Not applicable in our factory.	There are no VOS, Air emissions, High operating temperatures or pathogens or vectors etc. in use. However, a proposed plan will be put in place in case need arises.
10.	Are regular mock drills conducted for emergency preparedness and safety?	Yes	--	We have AMC with an agency they check our Fire Extinguishers and also help us in mock drills.	External trained staff will conduct mock drills once in a year.
11.	Is staff provided with OHS training?	Yes	--	All employees are provided OHS training.	Training will be provided periodically as and when required to all the existing as well as newly recruited staffs.
BIOMEDICAL WASTE (BMW)					

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12.	Is there generation of biomedical waste (as described in Bio-Medical Waste Management Rules, 2016) in the grantee?	Yes	--	Bio medical waste generated is: Viral Transport Media wastage, used blood collection tubes and used hypodermic needles.	Proposed plan is established. Contract has been executed with municipal corporation affiliated organization to collect bio medical waste from us. The same shall be maintained throughout the Project.
13.	Is there trained staff to handle biomedical waste in the grantee?	Yes	--	The outsourced agency will be responsible for collecting and handling the bio-medical waste.	This responsibility will be handled by authorized personnel of municipal corporation affiliated organization to collect bio medical waste throughout the Project.
14.	Has the grantee obtained authorization from State Pollution Control Board /Pollution Control Committee?	Yes	--	We have certificate for PCC, Daman and Dadra and Nagar Haveli Board for pollution control.	Proper and timely renewals will be ensured throughout the Project.
15.	Is the biomedical waste segregated at point of generation in the facility and stored in suitable containers?	Yes	--	Yes, we segregate the bio medical waste at the point of generation in facility and is stored in suitable containers till disposed.	This process will be followed throughout the Project.
16.	Is the bar code system for the segregated waste in place?	--	No	We don't have barcodes but applicable labels on containers of biomedical waste are present.	The labeling of the containers will be ensured and followed for segregation throughout the Project.
17.	Is the biomedical waste being sent to an authorized common BMW facility?	Yes	--	Biomedical waste is sent to an authorized facility, Encler. It is situated in	Biomedical waste will be sent to the authorized facility,

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				Surat, Gujarat. The transport is looked into by them. It is on weekly basis waste collection.	Encler throughout the project.
18.	Does the grantee have an in-house BMW treatment facility?	--	No	BMW is sent to Authorized vendor	Will ensure that the contract with the outsourced vendor is renewed within timelines.
	Is the treatment facility own (individual)?	--	No		
	Is the treatment facility a shared facility in an industrial park?	--	No		
19.	Are lab waste, microbiological waste and chemical liquid waste pre-treated before storing and sending to treatment facilities according to guidelines prescribed in BMW, 2016 regulations?	--	No	For us the bio medical waste is taken by the authorized agent. It is treated directly by them.	This outsourced activity will remain active with proper compliance throughout the Project.
20.	Is the liquid waste checked for active cells before sending to treatment plant?	--	No	We do not have that facility at Levram Factory.	A laboratory which can discard this type of liquid waste for us will be put in place. Compliance calendar shall be maintained.
21.	Is necessary waste pre-treatment equipment in place?	--	No	The waste pre-treatment equipment is not required for us. We generally create plastic and cardboard waste i.e. sold by us as scrap.	This activity will be outsourced during the project.
	Does the equipment adhere to prescribed norms by State Pollution Control Board (SPCB)?	--	No	We do not require these equipment for pre-treatment of waste disposal.	Regular monitoring shall be undertaken once the requisite equipment are put in place.
22.	Are chlorinated plastic gloves	Yes	--	Non-Chlorinated plastic gloves and bags are	Will continue to adhere to this status

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	and bags phased out in the grantee?			phased out.	throughout the project.
23.	Are grantee's personnel involved in handling BMW provided with regular training?	Yes	--	QA team looks into the same.	Training will be provided by the QA Team.
24.	Are medical examination provided to personnel involved in BMW waste handling and are they provided with relevant immunization like Hepatitis B and Tetanus?	--	No	It is outsourced activity.	We will outsource the activity. The proposed plan is in process.
25.	Is a daily register for biomedical waste maintained including accident reporting record?	Yes	--	The daily register of Biomedical waste is maintained in QC department.	This practice would be followed with constant review and updation.
26.	Are annual reports on BWM submitted to SPCB as per required form (see Bio-Medical Waste Rules 2016)?	--	No	At present Annual reports are not submitted.	Will ensure that this compliance is done during the Project.
HAZARDOUS WASTE (HW) - Not applicable because we do not generate hazardous waste.					
E-WASTE AND BATTERIES					
27.	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	--	We have equipment list and spare parts list available with us.	No, proposed plan as e-waste is not generated.
28.	Is there accident reporting and records in place?	Yes	--	We inform the management on mails.	Register and proper planning will be put in place.
29.	Are PPEs available to staff?	Yes	--	Personal Protective Equipment (PPE) such as gloves, masks, head masks, lab coats, rubber	The stock status of PPE will be regularly monitored and procurement will be

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				flip flops and safety shoes are given to all employees.	done in time to avoid any situation of stock out.
COMMUNITY HEALTH AND SAFETY AND RISK MITIGATION					
30.	Safety Transportation Management System (for transport of hazardous material)	Yes		System in place	
31.	Emergency preparedness and participation of local authorities and potentially affected communities	Yes		System in Place	
OTHERS					
32.	Does the grantee use any radioactive materials (isotopes tracers, radiation equipment, etc.)?	--	No	We don't use radioactive materials in our facility.	No, proposed plan as we do not use any radioactive materials.
	Does the grantee have appropriate radioactive material and waste storage and disposal system in place?	--	No	We don't use radioactive materials in our facility.	No, proposed plan as we do not use any radioactive materials.
	Are radioactive warning signs in place?	--	No	We don't use radioactive materials in our facility.	No, proposed plan as we do not use any radioactive materials.
33.	Is the lab/room air regularly checked for microbial contamination?	--	No	Before launching this product we did not require labs to be checked for microbial contamination.	We will get associated with a laboratory which will help us in microbial testing of our facility.
34.	Are there any odor control measures in place?	--	No	No such need of odor control has arisen yet.	Will put a proper system in place to ensure control in future if need arises.
35.	Are fume hoods and exhausts regularly checked and maintained?	Yes	--	HVAC systems and exhaust fans are available. Exhaust	Periodic checks will be done and maintained.

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				system are regularly checked and maintained.	
36.	Does the grantee use DG set > 15 KVA?	Yes	--	Yes, we use DG > 15 KVA.	We will use 125 KVA DG.
	Does the grantee have consent for DG > 15 KVA?	Yes	--	Yes, we have consent from DNHDD pollution control committee.	Will ensure proper and timely approvals. Monitoring shall be done and approvals shall be taken in time
	Are emissions from boilers and DG sets regularly monitored to be within the prescribed norms?	Yes	--	Monitored by Utility department	We will work on broader aspect of monitoring the emissions from DG sets. We do not have boilers.
37.	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	--	Solid Waste Management Rules, 2016 and Plastic Waste Management Rules, 2016 are followed.	The SOPs in place for solid waste disposal will be followed throughout the Project.
38.	Is wastewater treated separately by the grantee? (Liquid waste from laboratory, chemicals, fluids, solvents, medium and cultures, coolants, etc.)	--	No	We don't have a waste water management plant. There are no harmful effluents discarded by us in environment.	A proposed plan of establishing such a treatment on need basis will be put forward as and when needed.
	Are there sludge management and cut off drains in place for wastewater?	--	No	Sludge management and cut-off drains are not required.	
39.	Are necessary provisions for noise cancellation in place?	Yes	--	Our machines do not produce much noise that we require some noise cancellation provisions. We still provide employees with ear	Will ensure that this risk does not arise adapting proper existing measures and creating more such measures if required in

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				buds.	future.
40.	Are there any settlements, water bodies, cultivated land, or any other eco-sensitive areas near the grantee's premises?	--	No	There are no settlements, water bodies, cultivated land or any other eco-sensitive areas near Levram's premises.	Proposed plan is established for the same.
41.	Are there any buffers, fire vehicle routes in the grantee's premises?	Yes	--	We have fire vehicle route around the factory.	Will keep maintaining and updating these as per requirements in the project.
COVID Precautions & Guidelines Implementation					
42.	Guidelines of CPCB/SPCB/GoI for Handling, Treatment, and Disposal of COVID Waste Generated is whether being followed?		No	COVID waste is not generated in our activity	
43.	SOP on preventive measures to contain spread of COVID-19 issued by ICMR/GoI from time to time is whether being followed?	Yes		Taking preventive measures to contain spread of COVID-19	Will follow as per the guidelines issued by ICMR/GoI from time to time

Notwithstanding the above other risk (relevant to the project activities) that will be identified in the course shall be addressed as per standard mitigation monitoring parameters and manner of records keeping shall be in accordance to the recommendations of the project monitoring committee on subject experts engaged by BIRAC.