Establishment of National Centre for Immunogenicity Testing NCIT to evaluate vaccines in clinical trials

Interactive Research School for Health Affairs (IRSHA)

Environmental and Health Risk Management Plan

1. Environmental Impact and risk mitigation

Risks	Project Specific Risk	Potential Impact	Mitigation Steps
Air Pollution	Minimal risk	Inadvertent air contamination of virus	Outgoing air passes through HEPA filters
Water Pollution and Waste water treatment	Minimal risk	Inadvertent contamination of water	All liquid waste will be treated in effluent treatment plant (ETP)
Chemical waste	Marginal impact	Some chemicals are carcinogenic and might induce adverse impact on health	By following the process specified for the chemical
Biological Waste	. Minimal risk	Inadvertent contamination with virus	All biological waste will be autoclaved and discarded as per the SOP before leaving
Heavy metals	Minimal risk	Project implementation aspects will not create any adverse heavy metals waste.	Project implementation aspects will not create any adverse heavy metals waste.
Radiation Waste	Minimal risk	Project implementation aspects will not create any adverse radiation waste.	Project implementation aspects will not create any adverse radiation waste.
Destruction/alteration of surrounding ecosystem	Minimal risk	Project implementation aspects will not create any adverse destruction/alteration of surrounding ecosystem	Project implementation aspects will not create any adverse destruction/alteration of surrounding ecosystem

2. Occupational Health and Safety and risk mitigation

Risks	Project Specific Risk	Potential Impact	Mitigation Steps
Heat Hazards	Minimal Risk	Burn related to seam of autoclave	All necessary procedures will be followed to prevent heat associated hazards and proper SOP will be in place
Chemical hazards, including fire and explosions	Minimal Risk	Injuries, property loss	Fire Extinguisher, Fire hydrant system are in place.
Pathogenic and biological hazards	Minimal Risk	there will be chance of infection with virus	Appropriate Biosafety precautions will be taken by all workers
Radiological hazards	Minimal Risk	Project implementation aspects will not cause any radiological hazards.	Project implementation aspects will not cause any radiological hazards.
Noise	Minimal Risk	Project implementation aspects will not cause high noise level.	Project implementation aspects will not cause high noise level.
Process safety	Minimal Risk	There may be chance of contamination with virus	All work will be done in BSLII or BSLIII lab

3. Community Health and Safety and risk mitigation

Risks	Project Specific Risk	Potential Impact	Mitigation Steps
Safety Transportation Management System (for transport of hazardous material)	There is no involvement of hazardous material so there is minimal risk	Appropriate steps are taken to process air, water and solid waste generate in the lab	Appropriate steps are taken to process air, water and solid waste generate in the lab
Emergency preparedness and participation of local authorities and potentially affected communities	Minimal risk	localized	Onsite emergency plan, mock drills, communication mechanism to neighbouring centre. Details of the project and information will be shared with appropriate authorities (Pune Municipal

			Corporation, local community representatives)
In case your organization already has **EHS guideline**, please summarise the same. If not, please describe the impact because of hazardous material, release of chemicals, biologicals, management of catastrophic events like fire/explosion.			

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