

TERGENE BIOTECH PRIVATE LIMITED

Environmental and Health Risk Management Plan

1. Environmental Impact and risk mitigation

| Risks | Project Specific Risk | Potential Impact | Mitigation Steps |
|---|---|--|---|
| Air Pollution | Coal fired Boiler Emissions and Stand by DG sets Emissions | Emissions of dust, | Bag filters/multi clones |
| Water Pollution and Waste water treatment | Process washings, utilities wastewater and Domestic wastewater | Water contamination | Containment, collection , Primary treatment followed by disposal to offsite Common Effluent Treatment Plant (CETP) for further treatment as per regulations |
| Chemical waste | Off specification/ rejected raw materials, solvents, lab chemicals | Contamination of water or soil and health risk | Segregation, collection , secured storage and disposal to Treatment storage Disposal facility (TSDF) or cement units or agencies authorized by regulators |
| Biological Waste | All types microbiological wastes, OHC wastes | Health risk | Segregation, collection , secured storage and disposal to Common Biomedical Waste Treatment Facility (CBMWTF)/ TSDF or agencies authorised by regulators |
| Destruction/alteration of surrounding ecosystem | Specific Project implementation aspects will not cause any adverse ecological effects | Not likely | All Lab practices will be as per standards. |

2. Occupational Health and Safety and risk mitigation

| Risks | Project Specific Risk | Potential Impact | Mitigation Steps |
|---|------------------------------|-------------------------|---|
| Heat Hazards | Burns | Injuries | Insulation to hot surfaces, Personal protective equipment |
| Chemical hazards, including fire and explosions | Fire | Injuries, property loss | Fire Extinguishers, Fire hydrant system |

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| Pathogenic and biological hazards | Exposure to Pathogens | Health Risk | Bio safety cabinets, controlled working environment with HEPA filters, usage of disinfectants. Immunization of concerned personnel |
| Noise | High noise | Hearing loss | Acoustic enclosures, silencers and ear plugs/muffs |
| Process safety | Engineering and Equipment maintenance shall be undertaken as per SOPs | Health Risk | Process risk assessment and engineering controls |

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) | Fuels, lab chemicals and reagents, raw materials | Spills | Transportation by RTA approved vehicles for hazardous materials |
| Emergency preparedness and participation of local authorities and potentially affected communities | Low hazard facility | Localized | Onsite emergency plan, mock drills, communication mechanism to neighbouring industries |