Scigenom Labs Private Limited

Proposal entitled: Development of a rapid cost-effective point-of-care SARS-CoV2 (COVID-19) detection test

- (i) Brief description of the proposed activity: **Development of a point-of-care lateral flow assay** rapid test device for SARS-CoV2 IgG/IgM detection
- (ii) List of environment related regulatory clearances required for the activity: SPCB clearance required for handling and disposing BMW through IMAGE. Same is applied with SPCB in consultation with SEZ.

Inst	itutional Arrangement				
Are	a of Risk	Yes	No	Detail s	Proposed Plan
1.	Is there a designated full-time staff for Environment Health and Safety (EHS) issues?		N	have a designated full-time staff for EHS issues. All the EHS responsibilities have been assigned to a senior scientist in the lab. He/She is responsible for ensuring all the staff	applied for clearance from SPCB as advised from SEZ. The official procedure will take around 3-4 weeks. Supporting documents of authorization will be presented immediately once received.
2.	Does the EHS staff handle the following?Occupational Health and SafetyWaste ManagementList of consents and regulatory clearancesRecord keeping of accidents and proceduresEHS trainings for staffEnvironment ManagementFramework compliance for Innovatein India Project	Y Y Y Y Y		charge ensures proper conduct of training, waste management, proper record	housekeeping staff to ensure proper maintenance of a system for safety

					and ensure proper	
					adherence to safeguard staff and environment safety	
3.	Is there a reporting structure in place regarding EHS issues?	Y		company has an EHS policy. Any accidents and non- conformities in the lab/company are reported to the Director of the company in writing. The Director is responsible for taking necessary action to solve the	The Institutional EHS committee comprise the CEO, Director and Senior Scientists of the company. An EHS policy has been laid down to ensure proper safety to company staff and to the environment. The policy will be reviewed once a year and amended from time to	
4.	Are regular EHS trainings provided to staff?	Y			Attendance record and minutes of the meeting will be maintained.	
5.	Institutional Bio-Safety Committee (IBSC)	Y		IBSC in place	IBSC meetings conducted twice a year/on project-to- project basis. Safety features of the project are discussed and the committee with recommend the project only if found safe for personnel and environment	
6.	Ethics Committee (EC)	Y		IEC in place	IEC meetings will be conducted on project-to- project basis and committee will review the safety and ethical aspects of the project	
	General Occupational Health and Safety					
	Area of Risk	Yes	No	Details	Proposed Plan	

8. Are the following in place? Detailed SOP on Detailed SOPs in plaa Chemical spill kits Y how to uss The EHS lab in-cha Eye wash Y Eyewash, Chemical describes the proced Shower stations Y spillage kit, First aidfor correct usage of First Aid Kit Y kit, Fire these emerger Fire Extinguishers Y extinguishers are inservices during recording accidents Register for periodic EHS lab Register of accidents and injuries Y place. Register forperiodic EHS lab not injuries 9. Are proper signage and storage system in place? Y Yes, in place There are specific arm like cell culture Display of Material Safety Data Sheet Y Yes There are specific arm like cell culture (MSDS) where relevant Yes restricted' signage place Emergency numbers Display of mergency, Police) displayed in all critical places Decontamination and will be displayed in restricted' signage place Signage across the facility (labs, storage, hazardous areas, etc.) Y signage of visual access. signage of visual access. Are flammable materials appropriately stored to prevent fire hazards? Y s		Are there Standard Operating Procedures for accidents, hazards, and other emergencies (chemical spills, heat hazards, fire hazards, radioactive hazards etc.)?	Y	We do not have any radioactive hazards. We have SOPs related to BMW management, managing chemical spillage, Fire	chemical waste and any fire hazards. SOPs for heat hazard and
Chemical spill kitsYhow to use The EHS lab in-chaEye washYEyewash, Chemicaldescribes the procedShower stationsYSpillage kit, First aidfor correct usage ofFirst Aid KitYkit, FiretheseFire ExtinguishersYextinguishers are inservices duringRegister of accidents and injuriesYplace. Register forperiodic EHS classRegister of accidents and injuriesYplace. Register for record and injuries in place. accidents and injuries in place. accidents and injuries in place. accidents and injuries in place accidents and injuries in place accidents and injuries in place accidents and injuries in place. Accidents and injuries in place accidents and injuries in place accidents and injuries in place. Accidents and injuries in place acciden	8.	Are the following in place?			
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sessions.					
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				*	placed on storage areas delineated for Bio-

					medical waste, chemical
					waste etc.
10.	Are smoke detectors, fire alarms, automatic safety/shut off systems, overflow preventors, etc. in place and regularly maintained?	Y		detectors inside	As per SEZ rules it is mandatory for all companies in the campus to have smoke detectors and floor-wise fire alarms. These are periodically monitored by the SEZ authorities.
11.	Are there control measures for VOC, air emissions, high operating temperatures, pathogens/vectors etc. in place?		N	No solvents are used	
12.	Are regular mock drills conducted for emergency preparedness and safety?	Y		Frequency (type wise): Once in 6 months	As per instructions from the SEZ authorities, regular mock drills for any emergency preparedness are and will be conducted by the HR dept.
13.	Are staff provided with OHS training?	Y		SOP	The HR dept. along with the EHS lab in-charge will ensure proper conduct of OHS training in the company
	Biomedi	cal W	aste (]	BMW)	
	Area of Risk	Yes	No	Details	Proposed Plan
14.	Is there generation of biomedical waste (as described in Bio-Medical Waste Management Rules, 2016) in the grantee?	Y		list of biomedical waste produced in the facility – We have only BMW like E.coli cells waste and Mammalian HEK293 cell waste	(autoclaving at 121C). Liquid waste are decontaminated separately from BMW. Decontaminated BMW is taken away from the lab by IMAGE. We will maintain record of BMW generated in the lab and also record of BMW taken by IMAGE.
15.	Is there trained staff to handle biomedical waste in the grantee?	Y		staff come for	Trained IMAGE staff will come for collecting the BMW.
L				concerning the	

			BMW. In the company lab staffSeparate training as per and housekeepingIMAGE guidelines will staff are trained bybe given to all lab staff the lab in-charge as and housekeeping staff per for proper waste recommendations segregation and from IMAGE management
16.	Has the grantee obtained authorization from State Pollution Control Board /Pollution Control Committee?	Y	SciGenomhas SPCBapproval for the obtained approval R&Dactivitiesand for the for the relatedbio-medical bio-medical BMWBMWquantities waste generation. generated in the lab and has approvalWaste segregation as per for disposal of itsIMAGE rules waste through IMAGE, Waste disposed by recognized by theIMAGE, authorized by sPCBWaste disposed by the SPCB.Timelyrenewals and proper approvals in future will be taken.
17.	Is the biomedical waste segregated at point of generation in the facility and stored in suitable containers?	Y	We do notBio-medical waste generate segregation will be human/animal performed as per the anatomical orcolour-code schedule I other solidof the 2016 BMW rule. wastes. Antibiotic waste, Yes, colour-coded cytotoxic gelsegregation of lab waste waste, ampulesis and will be strictly and vials arebeing followed by all lab discarded intostaff. yellow bags. We do not have Appropriate training has chemical wastebeen given to the and discardedhousekeeping staff for wastes. proper packing of these Laboratory waste into bar-coded cultures, bags for transportation mammalian cell by the IMAGE team. culture, dishes used for culturingIMAGE team does not are discarded incarry food waste and yellow bags. general plastic waste.

18.	Is the bar code system for the segregated waste in place?	Y		tubes are discarded into rec bags. All sharps including needles, scalpe blades are discarded into White bottles provided. Broken/discarded glass and glass ampules are discarded in Blue bags. Barcoded covers	Food waste and general plastic waste will be collected and disposed by authorized agency within SEZ. The colour coding lsystem is and will be strictly implemented and followed at SciGenom sLabs.
19.	Is the biomedical waste being sent to an authorized common BMW facility?		Ν	CBMWF: IMAGE Distance from facility: Frequency and	The bio-medical waste is not send to centralized BMW facility. It is collected and disposed appropriately as per IMAGE guidelines. Transported within 48 hours (regular course) in authorized vehicles for disposal. Food waste and plastic waste will be sent to the centralized SEZ facility for disposal
20.	Does the grantee have an in-house BMW treatment facility?		N	Reason:	As per SEZ rules
	Is the treatment facility own (individual)?		N	Authorization:	Used water and sludge

21.	Is the treatment facility a shared facility in an industrial park?	v	Distance of nearest CBWM from facility: Types of treatment:	treatment plants are functional within the SEZ campus for centralized recycling. Hence, individual companies will not need to have individual facilities.
	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?	Y	treatment: Soiled cotton waste, paper towels, blood and other biological fluids, face masks are disposed into Yellow bag and are send for incineration by IMAGE team in non-chlorinated yellow bags. Used lab plastic waste including syringe, gloves and plastic pipettes are autoclaved and packed into Red bags and are send for shredding by IMAGE team. Broken glass are collected into containers for glass and needles are collected into containers for sharps.	
22.	Is the liquid waste checked for active cells before sending to treatment plant?	Y	Yes, samples from liquid waste after autoclaving are tested before discarding. This is a random checking done after every 5th sterilization cycle performed. Also	place. During random checking, done once

		T			
			in af cc de au	toclaving dicator tape fixed so the blour change enotes complete ttoclaving cycle.	
23.	Are necessary waste pre-treatment equipment in place?	Y	(a sh	nredders.	autoclaves are available
	Do the equipment adhere to prescribed norms by State Pollution Control Board (SPCB)?	Y	as de ar S W in sh th tr to di I V t I S t	cinerators, etc.): es, autoclaves ssigned for econtamination re in place and OP in place Ve do not have cinerators and aredders, wastes at needs eatment by this ethod is given IMAGE for sposal Details of waste pre- reatment: Bacterial cells autoclaved before lisposal	Specific area is allocated for decontamination and washing of the
24.	Are chlorinated plastic gloves and bags phased out in the grantee?		cł or	Ve do not use nlorinated gloves plastic bags	No we do not use chlorinated gloves or bags
25.	Are grantee's personnel involved in handling BMW provided with regular training?	Y	i J	Frequency: Once n 6 months	This will be a regular process during the project.
26.	Are medical examination provided to personnel involved in BMW waste handling and are they provided with relevant immunization like	Y	r e	nedical vanination:	There is a clinic situated within the SEZ campus with a full-time doctor. Hence, apart from the

	Hepatitis B and Tetanus?			or as needed. Immunization (HBV - 3 booster dosed) have been taken by all staff working with blood/human samples.	facility of periodic checkup available/as needed. A doctor on call is always available to attend any unforeseen accidents
27.	Is a daily register for biomedical waste maintained including accident reporting record?	Y		Registers are maintained	A daily log for BMW generated in the lab is and will be recorded throughout the Project. BMW taken by IMAGE will also be recorded. Separate register will be maintained for reporting accidents in the lab
28.	Are annual reports on BWM submitted to SPCB as per required form (see Bio- Medical Waste Rules 2016)?	Y		send to SPCB/SEZ with approximate	
	ardous Waste (HW)	T 7	N T		
	Area of Risk	Yes	No	Details	Proposed Plan
29.	Is there generation of hazardous waste (as per Hazardous Waste Rules, 2016) in the grantee?		N	solvents. We use very little quantities (~100ml in total once in 2 months) of	only with the fume hood after wearing personal protective clothing and goggles. Solvents are

30. 31.	Is there trained staff in the facility to identify and handle hazardous waste? Does the grantee have authorization from SPCB for hazardous waste?		N	reagent used in the. we are not handling any hazardous waste we are not handling any hazardous waste	
32.	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?		N	we are not handling any hazardous waste	
33.	Is the hazardous being send to an authorized disposal facility or user? Is the disposal facility in house? Is the disposal facility external/outsourced?		N N N	we are not handling any hazardous waste	
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?		N	we are not handling any hazardous waste	
E-W	aste and Batteries				
	Area of Risk	Yes	No	Details	Proposed Plan
35.	Does the grantee generate e-waste, produce or manufacture electrical and electronic equipment?	Y		any E-waste. Any E waste like end-of- life UPS batteries laptops/desk tops	
36.	Has the grantee obtained SPCB authorization on e- waste?		N	We do not generate any E-waste	e

37.	Does the grantee channelize the e-waste to	Y		Name and	E-Waste whenever
	authorized recycling or disposal facility?			address of	generated as specified
				disposal	in Point 35 is and will
				facility/	be handed over to
				recycler:	authorized
					recycler/vendor.
				Inhouse or	
				outsourced	
				Facility:	
38.	Does the manufacturing grantee have		Ν	We do not generate	2
	Extended Producer Responsibility system			any E-waste	
	and EPR-authorization in place?				
39.	Does the grantee practice reduction in the		Ν	We do not generate	e
	usage of hazardous substances in the			any E-waste	
	manufacture of electrical and electronic			, , , , , , , , , , , , , , , , , , ,	
	equipment and its parts?				
40.			Ν	We do not generate	e
	information on the constituents of the			any E-waste	
	equipment and their components/spares				
	and declaration of conformation to				
	Reduction in Hazardous Substances in the				
	product user documentation?				
41.	Does the grantee maintain a record		Ν	We do not generate	e
	of collection, storage, sale and			any E-waste	
	transport of e-waste?				
42.	Does the grantee submit annual reports		Ν	We do not generate	e
	on e-waste to SPCB?			any E-waste	
43.	Is there accident reporting and records in		Ν	We do not generate	e
	place?			any E-waste	
44.	Are PPEs available to staff?		Ν	We do not generate	
				any E-waste	
45.	Is the grantee involved in manufacture of		Ν	We do not generate	2
	batteries?			any Battery waste	
46.	Does the grantee generate battery waste?		Ν	We do not generate	e
				any Battery waste	
47.	Does the grantee deposit the battery waste to	1	Ν	We do not generate	e
	registered			any Battery waste	
	recycler/dealer/manufacturer/reconditioner/c				
	ollection center?				
48.	U, U		Ν	We do not generate	
	comply to			any Battery waste	
	Battery Management Rules 2000 and				
	ensure collection of old batteries?				
Con	munity Health and Safety and risk mitigati	1	b . 7		
		Yes	No	Details	Proposed Plan

49.	(for transport Of hazardous material)	Y		We have specific When we transport any SOPs and MSDS reagents or antibody prepared for safedevices to other labs transport of we always provide antibody-related detailed SOP to the devices from thelogistics team on how premise until itto transport the items. safely reaches the All items always are designated end user. accompanied with Similarly, when we MSDS. Similarly, receive antibody reagents transferred reagents and cell from other research lines from vendors, labs are also the vendors provide accompanied by specific instructions MSDS and proper for the transporthandling instructions. agency and all the items are Items received from accompanied by vendors are also MSDS for attending accompanied by to any unforeseen MSDS and are causality transported as per management. proper instructions
50.	Emergency preparedness and participation of local authorities and potentially affected communities	Y		BMW managementThe local community and other potentialhealth workers and wastes generated community leaders will have SOPs forbe informed about any management in case issues that can affect of any emergency the community. The preparedness actionEmergency required Preparedness plan will be executed as per the SOP in place.
		Other	•	· · · · · ·
	Area of Risk	Yes	No	Details Proposed Plan
51.	materials (isotopes tracers, radiation equipment, etc)?		N	We do not use any radioactive materials
	Does the grantee have appropriate radioactive material and waste storage and disposal system in place?		N	Describe: Not applicable
50	Are radioactive warning signs in place?	NZ	Ν	
52.	Is the lab/room air regularly checked for microbial contamination?	Y		SOP in place for Will be maintained as checking microbial per SOP.

				contamination in the
				lab. NA plate ethod
				are used to monitor
				contamination.
	Are there any odor control measures in place?		Ν	Not applicable
54.	Are fume hoods and exhausts regularly checked and maintained?	Y		Manufacturer Periodic service service
55	Does the grantee use DG set > 15 KVA?	Y		
55.	Does the grantee tase DO set > 15 KVA? Does the grantee have consent for DG > 15	ı Y		There is only 1 DGMaintenance of the
	KVA?	Y		set maintained by theDG set is performed on
	Are emissions from boilers and DG	Y		company. 200KVAan annual basis.
	sets regularly monitored to be within	1		capacity. RecordsGenerates oil change
	the prescribed norms?			maintained by theand filter changes are
	1			HR/Admin teamperformed. The filters
				including theare disposed along
				emission monitoring with BMW. The oil is
				report. taken by the authorized
				recyclers approved by
				the SPCB for disposal
56.	Does the grantee have proper disposal	Y		Describe: All the IMAGE has provided
	process for solid and plastic waste in			BMW wastebar-coded disposal
	compliance to Solid Waste Management			including lab- bags with specific
	Rules, 2016 and Plastic Waste			related plastic colour codes.
	Management Rules, 2016?			waste are conceted
				and disposed by IMAGE. BMW are segregated
				at the point of
				IMAGE (Indian collection itself into
				Medical these colour coded
				Association Goesdisposal bags.
				Eco-friendly) is an
				IMA-Kerala state Authorized IMAGE
				branch established staff come to collect
				common blo-la
				medical treatment and disposal facility week (on all
				and disposal facility commissioned in week (on all and disposal facility wednesdays and
				2003. It is the single Fridays – once in 48
				authorized hours).
				collection agency in
				Cochin to collectWeight of BMW
				hospital and bio-generated and weight
				medical wastestaken for disposal is
				(https://imageima.orgister
				rg/about-us). maintained in the
				company by the
				IMAGE is HR/Admin team
				IMAGE is authorized by the Karala State
				Kerala State

			PollutionControlFood waste is collectedBoardtocollectseparately, on a dailybio-medicalwaste,basis,bytheliquidwasteandauthorizedagencylab-relatedplasticwithin SEZ.within SEZ.wastefromfromfoorfoorhospitalsandgeneralplasticwaste,state.paperandcardboardNon-labplasticcollectedseparatelybywaste,foodwaste,theauthorizedpaperwastearealsoNon-labplasticcollectedseparatelybywaste,foodwaste,theauthorizedcollectedbySEZ-authorizedagency.
57.	Is wastewater treated separately by the grantee? (Liquid waste from laboratory, chemicals, fluids, solvents, medium and cultures, coolants, etc.)	Y	Typesof The Treatment will be wastewater: Toilet done as per SEZ rules. and pantry waste water and lab ware washing waterTreatmentof wastewaterTreatmentof wastewater: SEZ has a centralized water treatment system in placeChemical
	Are there sludge management and cut off drains in place for wastewater?	Y	Facility inside SEZ.As per SEZ rules Centralized facility.
58.	Are necessary provisions for noise cancellation in place?	Y	Only source is the DG set. But it is accompanied with acoustics for noise controls
59.	Are there any settlements, water bodies, cultivated land, or any other eco-sensitive areas near the grantee's premises?		N
60.	Are there any buffers, fire vehicle routes in the grantee's premises?	Y	Specified Fire exits in place

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CO	COVID Precautions & Guidelines Implementation										
61	Guidelines of CPCB/SPCB/GoI for Handling, Treatment, and Disposal of COVID Waste Generated is whether being followed?		N								
62	SOP on preventive measures to contain spread of COVID-19 issued by ICMR/GoI from time to time is whether being followed?	Y		Specific prevention followed campus	plan is in the	Masks are mandatory, daily temperature logs taken and submitted to SEZ office, hand sanitizers are provided, face shields provided.					

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.