Huwel Lifesciences Private Limited

Proposal entitled: Complete solution for molecular diagnosis of covid19 multiplex assay along with screening for other related respiratory diseases

i) Brief description of the proposed activity:

Complete solution for molecular diagnosis of COVID 19 multiplex assay along with screening for other related respiratory diseases

ii) List of environments related regulatory clearances required for the activity:

TSPCB (Telangana State Pollution Control Board)

		Yes No	Details	Proposed Plan
	Instit	utional A	rrangement	
1.	Is there a designated full-time staff for Environment Health and Safety (EHS) issues?	Y	designated with additional	months. EHS will be
2.	Does the EHS staff handle the following? Occupational Health and Safety	Y	Facility is designed and built considering occupational health and safety of each and every employee and complies to requirements of local state government regulations	quarterly. Dedicated full-time staff will be there to ensure the compliance of EHS
	Waste Management List of consents and regulatory	Y	Contract with govt approved Biohazard waste collection and disposal agency	
	clearances	ĭ	Manufacturing license issued by CDSCO, Govt of India, New Delhi and by DCA, Hyderabad, Telangana	

				Pollution clearance by local govt. Pollution control board				
	Record keeping of accidents and procedures	Y		Maintained				
	EHS trainings for staff	Y		Maintained				
	Environment Management Framework compliance for Innovate in India Project	Y						
3.	Is there a reporting structure in place regarding EHS issues?	Y		Any incident has to be reported by email or by written communication to Directors of Huwel	record any incidents			
4.	Are regular EHS trainings provided to staff?	Y		Training schedule Frequency: Half yearly	Training calendars shall be prepared for employees. Training will be provided as and when required to all the existing as well as newly recruited staffs.			
5.	Institutional Bio-Safety Committee (IBSC)		N					
6.	Ethics Committee (EC)		N					
_			onal l	Health and Safety Procedure for Destruction SOPs and formats to				
7.	Are there Standard Operating Procedures for accidents, hazards, and other emergencies (chemical spills, heat hazards, fire hazards, radioactive hazards etc.)?	Y		of Contaminated or non Contaminated or Potentially Contaminated Materials or Products or waste Procedure for General Safety	record any accidents, hazards, and other emergencies will be			
8.	Are the following in place?			All are located at strategic	_			
	Chemical spill kits	Y		-	maintained for			
	Eye wash	Y	N.T.	<u> </u>	ensuring provisions of			
	Shower stations First Aid Kit	37	N		such requisites.			
	FIISt AIU KIt	Y						

	Fire Extinguishers	Y		
	<u> </u>	Y		
9.	Are proper signage and storage system in place?			All details are printed on a Facilities will be sheet with visible fontsupgraded with the
	Display of Material Safety Data Sheet (MSDS) where relevant	Y		size and placed located atactivities increased. -strategic locations for easy
	Display of emergency numbers and procedures (Person to Contact, Doctor, Ambulance, Fire Emergency, Police) displayed in all critical places	Y		accessibility and readability
	Signage across the facility (labs, storage, hazardous areas, etc.)	Y		
	Are flammable materials appropriately stored to prevent fire hazards?	Y		
10.	Are smoke detectors, fire alarms, automatic safety/shutoff systems, overflow preventors, etc. in place and regularly maintained?	Y		The facility has smoke detectors and fire alarms maintained and upgraded with the activities increased.
11.	Are there control measures for VOC, air emissions, high operating temperatures, pathogens/vectors etc. in place?		N	The operation does not Preventive measures have any air emissions, do with all precautions not generate high will be put in place as temperatures. We do not handle any live pathogens/vectors in the facility
12.	emergency preparedness and safety?	Y		Frequency: Quarterly Mock drills are conducted on quarterly basis and will be documented.
13.	Are staff provided with OHS training?	Y		Training records available All the staff will be provided with trainings including newly joined staff.
	Biome		l Wa	ste (BMW)
14.	Is there generation of biomedical waste (as described in Bio-Medical Waste Management Rules, 2016) in the grantee?	Y		All waste generated is considered as Potential Biomedical waste and is discarded by handing over Biomedical waste to Telangana Pollution will be sent to PCB Control Board Biohazard authorized third waste collection agencyparty.SOP:D057 for further treatment and decontamination

15.	Is there trained staff to handle biomedical waste in the grantee?	Y		handling trained staff available	Research Unit staff will be trained on biomedical waste policies.
16.	Has the grantee obtained authorization from State Pollution Control Board /Pollution Control Committee?	Y		Authorizations obtained	Necessary Authorizations will be taken if required with timely renewals.
17.	Is the biomedical waste segregated at point of generation in the facility and stored in suitable containers?	Y		and Red waste bags as per	We proposed to follow the same policy and departmental SOP for waste management.
18.	Is the bar code system for the segregated waste in place?		N		Will incorporate this system as and when required during the Project.
19.	Is the biomedical waste being sent to an authorized common BMW facility?			Name and address of CBMWF: Regency Towers, 7-1-47, Dharam Karan Rd, Ameerpet, Hyderabad, Telangana 500016 Distance from facility: 20KM Frequency: Mode of transport: By Road Who transports: GJ Multiclave Staff	
20.	Does the grantee have an in-house BMW treatment facility?	N		All the BMW are sent to authorized BMW	
	-	N			authorized facility

	Is the treatment facility a shared facility in an industrial park?	N		
	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		All lab waste, liquid waste Compliance calendar and microbiological waste shall be maintained. are decontaminated using Sodium Hypo Chlorite before being handed over to Biohazard waste disposal agency
22.	Is the liquid waste checked for active cells before sending to treatment plant?		N	Since Liquid wastes are Will monitor this decontaminated using during the Project and Sodium Hypo Chloriteif needed will propose a before being handed overplan of treating the to Biohazard wastesame as per BWM disposal agency Regulations.
23.	Are necessary waste pre-treatment equipment in place?		N	No process waste effluents Regular monitoring are generated in our shall be done adhering process of manufacturing to the norms of SPCB
	Do the equipment adhere to prescribed norms by State Pollution Control Board (SPCB)?		N	IVD kits
24.	Are chlorinated plastic gloves and bags phased out in the grantee?	Y		Yes
25.	Are grantee's personnel involved in handling BMW provided with regular training?	Y		Frequency: Quarterly Training will be provided to the staff handling biomedical waste as per the existing frequency mentioned.
26.	Are medical examination provided to personnel involved in BMW waste handling and are they provided with relevant immunization like Hepatitis B and Tetanus?	Y		We have annual health This practice will be check up for all employees checked periodically and all employees are and compliance will be vaccinated with Hepatitisensured. B Vaccine Frequency of medical
27.	Is a daily register for biomedical waste maintained including accident reporting record?	Y		we maintain both soft and This practice will be hard copy of the accident followed and updated reporting. with constant review.
28.	Are annual reports on BWM submitted to SPCB as per required form (see Bio-Medical Waste Rules 2016)?		N	Since our facility is Will ensure that this categorized as "White" compliance is done zone where in as perregularly within the Telangana PCB, we do not timelines. generate any potential

				Pollutants and hence no	
				necessity to submit annual	
				reports)	
	Haza	rdou	ıs Wa	ste (HW)	
29.	Is there generation of hazardous waste (as per Hazardous Waste Rules, 2016) in the grantee?		N	No hazardous waste is generated by facility All wastes are treated as "potential" biohazard wastes only as precautionary reasons	disposal shall be done
30.	Is there trained staff in the facility to identify and handle hazardous waste?	Y		Though no hazardous waste is generated by facility, the staff are trained on safety and handling of potential bio hazardous wastes	continuous practice to ensure safety at the
31.	Does the grantee have authorization from SPCB for hazardous waste?		N	pollutant facility (WHITE ZONE) by Telangana PCB	relevant renewals will be taken.
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?	Y		waste bags are stored in secured place before they are picked up by the local	these items will be done to ensure proper precautions when
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?	Y	N		This process will be continued with the authorized facility The disposal facility will be outsourced to a vendor selected via due process.
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? E-W	Y Vaste	and]		Will continue to maintain the register with frequent reviews to be done by assigned staff and department.
35.	Does the grantee generate e-waste,		N	E waste is not generated	The list of authorized
	produce or manufacture electrical and electronic equipment?		,	in our activity	centres will be obtained from Govt. and

36.	Has the grantee obtained SPCB authorization on e-waste?	N	disposal of the e-waste will be done as per E-waste Management Rules. E waste is not generated in Company will obtain our activity the authorization from
37.	Does the grantee channelize the e- waste to authorized recycling or disposal facility?	N	SPCB as and when the need arises. E waste is not generated in Will select an our activity authorized vendor
			authorized and listed by the Government to channelize any e-waste generated in future.
38.	Does the manufacturing grantee have Extended Producer Responsibility system and EPR-authorization in place?	N	E waste is not generated in Appropriate our activity authorization will be obtained before moving to mass production stage.
39.	Does the grantee practice reduction in the usage of hazardous substances in the manufacture of electrical and electronic equipment and its parts?	N	E waste is not generated in our activity
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?	N	E waste is not generated in our activity
41.	Does the grantee maintain a record of collection, storage, sale and transport of e-waste?	N	E waste is not generated in our activity
42.	Does the grantee submit annual reports on e-waste to SPCB?	N	E waste is not generated in our activity
43.	Is there accident reporting and records in place?	N	E waste is not generated in our activity
44.	Are PPEs available to staff?	N	E waste is not generated in The stock status of PPE our activity will be regularly monitored and procurement will be done in time to avoid any situation of stock out as and when needed.

45.	Is the grantee involved in manufacture of batteries?		N	E waste is not generated in our activity	
46.	Does the grantee generate battery waste?		N	E waste is not generated in our activity	
47.	Does the grantee deposit the battery waste to registered recycler/dealer/manufacturer/reconditioner/collection center?		N	E waste is not generated in our activity	The list of authorized centres will be obtained from Govt. and disposal of the e-waste will be done as per E-waste Management Rules.
48.	In case of manufacturing, does the grantee comply to Battery Management Rules 2000 and ensure collection of old batteries?		N	E waste is not generated in our activity	
	Community Healt		1	ety and risk mitigation	
		Yes	No	Details	Proposed Plan
49.	Safety Transportation Management System (for transport of hazardous material)	Y			Will follow the guidelines of PCB
50.	Emergency preparedness and participation of local authorities and potentially affected communities	Y			Emergency preparedness plan will be developed
		()ther	S	
51.	Does the grantee use any radioactive materials (isotopes tracers, radiation equipment, etc.)?		N	Radioactive materials not involved in our activity	Not in a scope of radioactive materials
	Does the grantee have appropriate radioactive material and waste storage and disposal system in place?		N	Radioactive materials not involved in our activity	Not in a scope of radioactive materials
	Are radioactive warning signs in place?		N	•	radioactive materials
52.	Is the lab/room air regularly checked for microbial contamination?	Y		Environmental Monitoring of facility is performed periodically at defined schedules for checking microbial contamination	done
53.	Are there any odor control measures in place?	N	N		Periodic cleaning will be done
54.	Are fume hoods and exhausts regularly checked and maintained?	Y			Periodic checks will be done and fume extractors will be maintained.
55.	Does the grantee use DG set > 15 KVA?	Y		These DG sets are	

	Does the grantee have consent for DG > 15 KVA?	Y		common for other offices/
	Are emissions from boilers and DG sets regularly monitored to be within the prescribed norms?	Y		building and activities are managed by the committee in the complex building
56.	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?	Y		Discarding the reagent into It will be ensured that disposable zip lock coversegregation rules are containing 1% followed. This will be Hypochlorite, maintained and Discarding the vials in the monitored by an disposable red plastic bag authorized Committee and submit to biohazard waste disposal team. All plastic tips are ejected after use into a discard bottle containing 1% Sodium hypochlorite. The discarded tips are filtered and sodium hypochlorite is removed by passing through a sieve. The filtered tips are dropped into the disposable red plastic bag.
57.	Is wastewater treated separately by the grantee? (Liquid waste from laboratory, chemicals, fluids, solvents, medium and cultures, coolants, etc.)		N	No waste water is Will provision such a generated in process by the facility if required for unit the project.
	Are there sludge management and cut off drains in place for wastewater?	Y		These will be periodically checked and maintained to ensure their proper functioning.
58.	Are necessary provisions for noise cancellation in place?		N	No noise is generated by Will keep a check on the unit since all the noise generated and equipment being installed cap them with proper do not generate noise cancellation above 10 db provisions.
59.	Are there any settlements, water bodies, cultivated land, or any other eco-sensitive areas near the grantee's		N	

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	premises?								
60.	Are there any buffers, fire vehicle routes in the grantee's premises?	Y					Will ensure fire safety vehicle throughout t	includ ro	ding utes
	COVID Precautions & Guidelines Implementation								
61.	Guidelines of CPCB/SPCB/GoI for Handling, Treatment, and Disposal of COVID Waste Generated is whether being followed?	Y		Guidelines followed	are t	_	Guidelines followed	will	be
62.	SOP on preventive measures to contain spread of COVID-19 issued by ICMR/GoI from time to time is whether being followed?	Y		Preventive being taken	measures		Preventive will be follo	meas wed	ures

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.