Andhra Medical College

Proposal entitled: " Establishment of DSS/DHS/DDESS for studying the sero-prevalence of Dengue and Chikungunya in Vishakhapatnam among the population of the field Practice area of Andhra Medical College, Vishakhapatnam, Andhra Pradesh."

1. Institutional Arrangements

Brief description of the proposed activity: The project involves establishment of Demographic (i) surveillance site to obtain demographic, epidemiological and environmental database of the identified cohort in the first and second years. By beginning of 3rd year, Data on sero-prevalence of Dengue/ chikungunya among healthy individuals is obtained. At the end of third of year, the incidence of dengue and chikungunya and age specific attack rates can be calculated.

I	List of environments related regulatory cle	earances r	equire	d for the a	activity.: S	tate Pollution Control Board
	Institutional Arrangement					
		Yes	No	Details		Proposed Plan
1.	Is there a designated full-time staff for Environment Health and Safety (EHS) issues?		No	site is in practice the College the Simhach is basi health providing preventive curative promotive services. The nurse/muse supervise (male) the EHS needed.	the field area of Medical namely RHC alam. It cally a centre g ve, and ve staff altipurpo health ors take up issues as	The Public Health Engineer at the Institution will be entrusted with the work. Based on the Project requirement a Consultant will be hired on need basis.
2.	Does the EHS staff handle the following? Occupational Health and Safety	yes		Any oth None	ner:	The EHS staff designated by the Medical officer will look after the issues and the
	Waste Management	Yes				activities will be reviewed by
	List of consents and regulatory clearances	yes				the Medical Officer.
	Record keeping of accidents and procedures	yes				
	EHS trainings for staff	yes				
	Environment Management	Not		The s	site is	
	Framework compliance for	appli		primarily		
	Innovate in India Project	cable		health ce	entre and	

3.	Is there a reporting structure in place regarding EHS issues?	Yes	environmental risk is minimal from physical agents Staff nurse/Multipurp ose Health Supervisor incharge of receiving EHS issues for onward submission to the Medical Officer	Reporting as per NABH guidelines will be done.
4.	Are regular EHS trainings provided to staff?	Yes	Not very frequently	Will plan as per guidelines
5.	Ethics Committee (EC)	Yes	as per DHR/DCGI guidelines	Project will be commenced only after getting approval from Ethics Committee (EC).
	General Occupation	nal He	alth and Safety	
6.	Are there Standard Operating Procedures for accidents, hazards, and other emergencies (chemical spills, heat hazards, fire hazards, radioactive hazards etc.)?	Yes	Standard operating Procedures in place in the Rural health Centre, which is the project site	Will ensure display of procedures at prominent places in the site.
7.	Are the following in place?		Kits and	Arrangements are under
	Chemical spill kits Eye wash Shower stations First Aid Kit Fire Extinguishers Register of accidents and injuries	Yes Yes No Yes No Yes No Yes	Registers Available with	process for fire extinguishers. Provisions for shower station will be done.
8.	Are proper signage and storage system in place? Display of Material Safety Data Sheet (MSDS) where relevant	Yes Yes	Displayed and periodically reviewed by Medical Officer	Additional provisions will be made for the project
	Display of emergency numbers and procedures (Person to Contact, Doctor, Ambulance, Fire Emergency, Police) displayed in all critical places Signage across the facility (labs, storage, hazardous areas,	Yes	(Deputy Civil Surgeon) of the RHC	

etc.)				
Are flammable materials appropriate stored to prevent fire hazards?	ely yes			
Are smoke detectors, fire alarms, automatic safety/shut off systems, overflow preventors, etc. in place an regularly maintained?	ad	No	The Andhra Medical College is provided with fire alarms but the RHC is yet to be provided at the facility.	Arrangements are in process to initiate fire safety measures at the facility.
Are there control measures for VOC air emissions, high operating temperatures, pathogens/vectors etc. in place?			List: Control measures for pathogens: Biomedical waste segregation is done. Rodent control measures are taken. Restricting the patient entry to prevent aerobic bacteria. Disinfection of OT by fumigation every month. Production of VOC, Air emission, High operating temperature is not applicable	The existing framework will be strengthened by periodic supportive supervision by the public Health Engineer.
. Are regular mock drills conducted for emergency preparedness and safety?	Yes		once in 6 months	
Are staff provided with OHS trainin	g? Yes		once in a year	Training includes patient safety. Handling of blood, other biological products. Handling and disposal of waste products.
	Biomedic	al Wa	ste (BMW)	

13.	Is there generation of biomedical waste (as described in Bio-Medical Waste Management Rules, 2016) in the grantee?	Yes		Yes Anatomical waste, microbiological waste, sharps, Soiled waste, discarded medicines, solid, liquid and chemical waste.	The waste generated through project will be handled as per the Bio-Medical Waste Management Rules, 2016)
14.	Is there trained staff to handle biomedical waste in the grantee?	Yes			Periodic reinforcement will be done.
15.	Has the grantee obtained authorization from State Pollution Control Board /Pollution Control Committee?	Yes		In the process	Relevant authorization from AP pollution board will be taken.
16.	Is the biomedical waste segregated at point of generation in the facility and stored in suitable containers?	Yes		Color coded bins are in place- Red, Yellow White& Blue	Compliance with the regulations of the biomedical waste management rules for biomedical waste segregation, storage and disposal will be monitored by public Health Engineer
17.	Is the bar code system for the segregated waste in place?		No	Is in the process	Bar coding will be regularly updated as per policy guidelines.
18.	Is the biomedical waste being sent to an authorized common BMW facility?	Yes		address of CBMWF:	MARIDI 50-27-15/4, first floor, TPT colony, Seethammadhara, Visakhapatnam 530013 23 KM
				transport:	Every 48 hrs by Van
19.	Does the grantee have an inhouse BMW treatment facility?		NO	Who transports? Reason: state Government	MARIDI Is taken care by MARIDI 50-27-15/4, first floor, TPT
	Is the treatment facility own (individual)?		NO	Policy is to outsource the	colony, Seethammadhara, Visakhapatnam

	Is the treatment facility a shared		NO	facility	530013
20.	facility in an industrial park?	Yes		Authorization: MARIDI Distance of nearest CBWM from facility: 22 km Types of treatment: Incineration Sharp pits, Shredding	Wests conserted during this
	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?	res		Types of treatment: Chemical treatment/ disinfection	Waste generated during this project will be treated as per good lab practices
21.	Is the liquid waste checked for active cells before sending to treatment plant?		No	checked for	Waste generated during this project will be treated as per good lab practices.
22.	Are necessary waste pre-treatment equipment in place?	yes		List of equipment:	Waste generated during this project will be treated as per
22	Do the equipment adhere to prescribed norms by State Pollution Control Board (SPCB)?	Yes		autoclaves, hub cutters. Details of waste pretreatment: hubcutters used for separating needles before discarding in puncher proof container	good lab practices
23.	Are chlorinated plastic gloves and bags phased out in the grantee?	Yes		Outsourced agency is providing the bags	

24.	Are grantee's personnel involved in handling BMW provided with regular training?	Yes	Frequency: once in a year Trainer: Team members from HICC from the parent institute-(dept of Community Medicine and
25.	Are medical examination provided to personnel involved in BMW waste handling and are they provided with relevant immunization like Hepatitis B and Tetanus?	Yes	Microbiology) Frequency of medical periodically examination: Once in a year.
26.	Is a daily register for biomedical waste maintained including accident reporting record?	Yes	Quantum of Waste generated under this project will be minimal and will follow the same BMW rules. The waste generated under this project will be minimal and will follow the same BMW rules.
27.	Are annual reports on BMW submitted to SPCB as per required form (see Bio-Medical Waste Rules 2016)?	No	As the agreement is recently obtained, it will be done from this year. Regular submission will be done from this year.
	Hazardoı	ıs Was	te (HW)
28.	Is there generation of hazardous waste (as per Hazardous Waste Rules, 2016) in the grantee?	Yes	such as motor oils etc are handled by the maintenance agency Unused chemicals/drugs are returned to the central drug store
29.	Is there trained staff in the facility to identify and handle hazardous waste?	Yes	Trained every year.
30.	Does the grantee have authorization from SPCB for hazardous waste?	Yes	In the process Consent to operate application submitted to

31.	Is there a secure location for storage of HW with proper signage? Are hazardous wastes stored for more than 90 days in the grantee's premises?	yes	No	They are disposed immediately as and when generated.	AP pollution board for authorization
32.	Is the hazardous being send to an authorized disposal facility or user? Is the disposal facility in house? Is the disposal facility external/outsourced?	yes	No No	handled by the external agency: Sigma Diesel 30-15-198, first floor, Suryabagh, near Dolphin Hotel, Visakhapatnam	The collection, treatment and disposal of hazardous waste generated will comply with the rules.
33.	Is a register maintained on production and treatment, and a manifest system followed for transport of hazardous waste from the grantee to treatment facility?		No	every 6 months by the dealer (external	The collection, treatment and disposal of hazardous waste generated will comply with the rules.
	E-Wa	ste aı	nd Bat		1
34.	Does the grantee generate e- waste, produce or manufacture electrical and electronic equipment?	Yes		Generated but in minimal quantity.	The very minimal amount of e-waste generated if required AMC can implement certain process for it in consultation with BIRAC adhering to E-waste management Rules.
35.	Has the grantee obtained SPCB authorization on e-waste?		No	As it is a 10 bedded Health center, no separate SPCB authorization taken.	
36.	Does the grantee channelize the e-waste to authorized recycling or disposal facility?		No	E waste generated has not yet required disposal.	Activities in the project generating e-waste will be handled as per the guidelines.
37.	Does the grantee maintain a record of collection, storage, sale	Yes		Record of collection,	Agency identified for

	and transport of e-waste?			available. The Andhra Medical College has	disposal.M/S Yahowah Nissi, D.no. 22-7-8, kadambarivari street, Chengalraopeta,Visakha patnam. Activities in the requiring sale and transport will be handled as per the guidelines
38.	Does the grantee submit annual reports on e-waste to SPCB?		No	Not submitted as of now.	Annual reports will be submitted to SPCB hence forth.
39.	Is there accident reporting and records in place?	Yes			Activities under the project will also be recorded.
40.	Are PPEs available to staff?	Yes		Available in project site	Ensure regular provision under the project.
41.	Is the grantee involved in manufacture of batteries?		No	The project does not involve manufacturing products.	The project does not involve manufacturing products.
42.	Does the grantee generate battery waste?	Yes		Through inverters	Battery waste guidelines will be followed.
43.	Does the grantee deposit the battery waste to registered recycler/dealer/manufacturer/recondition er/collection center?	Yes		Guidelines were not very specifically followed earlier	Will be complying with the relevant guidelines and rules governing regulation of e-wates.
	Community Health	and S	Safety	and risk mitigation	
44.	Safety Transportation Management System (for transport of hazardous material)	yes		Transport and management are done by an outsourced agency	1 0
45.	Emergency preparedness and participation of local authorities and potentially affected communities	Yes		Low hazard facility	Low hazard project Training will be given to handle hazardous waste/ fire accidents as emergency preparedness.
16			her	hru x 0 1 2 2	b 1
46.	Is the lab/room air regularly checked for microbial contamination?	Yes			Regular monitoring will be done.
47.	Are there any odor control measures in place?		No	*	Periodic cleaning will be done.

				Allowing todorants diluted.	the emitted to be	
48.	Are fume hoods and exhausts regularly checked and maintained?	Yes		regularly and mainta		Preventive maintenance plan will be put in place.
49.	Does the grantee use DG set > 15 KVA? Does the grantee have consent for DG > 15 KVA? Are emissions from boilers and DG sets regularly monitored to be within the prescribed norms?	Yes Yes		Provided state g supplied contracting	through covernment by agency.	
50.	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		and wet w	vaste done, by local	Single use plastic will not be generated in the facility.
51.	Is wastewater treated separately by the grantee? (Liquid waste from laboratory, chemicals, fluids, solvents, medium and cultures, coolants, etc.)	Yes	7	• •	ater from theatres. of of or: None	Minimal waste water is expected to be generated at the facility under this project. It will be treated as per the BMW2016 rules.
	Are there sludge management and cut off drains in place for wastewater?	Yes	i	Drainage and Co type of sep present.	facilities onventional otic tank is	
52.	Are necessary provisions for noise cancellation in place?		No	Describe: scope for of high noise.	there is no production intensity	There is no scope for production of high intensity noise.
53.	Are there any settlements, water bodies, cultivated land, or any other eco-sensitive areas near the grantee's premises?	Yes		Distance premises: settlement surroundin health facing RHC is	from tis presenting the ility.	As there are no disturbance from the proposed project no specific plan is identified.

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			areas. Water bodies / cultivated lands/ eco sensitive areas are at least 3 km far. No disturbance from the proposed project.
54.	Are there any buffers, fire vehicle routes in the grantee's premises?	yes	Adequate space is Ensure the same in available for future. fire vehicle to enter.

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.