

VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH, PARBHANI (M.S.) INDIA

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TRE OF EXCELLENCE FOR DIGITAL FARMING SOLUTIONS FOR ENHANCING PRODUCTIVITY BY ROBOTS, DRONES AND AGVS

ENVIRONMENT SUSTAINABILITY PLAN (ESP)

Annexure VII

-	Environment Sustainability Plan (ESP)							
Sr. No.	Proposed Interventions/ Activities	Compliances applicable	Possible Environmental Impacts	Mitigation Measures	Scope for the Integration of Environmental Sustainability concerns	Resources Required (budget, technical support etc.)		
1	Infrastructure Development: Repair and minor modification of Building (classroom, lab etc.); Raw material for construction, ventilation, energy source and devices, safety measures, and construction operations	 National building code of India, 2005 Energy Conservation Act 	Possibility of use of illegal mined or low quality material Dearth of space, poor ventilation and illumination, lack of basic facilities may lead to uncomfortable working condition Lack of fire safe guard equipment Leads to fire accidents	 Renovation work will be given to well authorize contractor through University Engineer. The laboratories will be provided with sufficient space, ventilation, lighting, regular supply of essentials like quality water. All labs will be equipped with fire safety equipment and first aid boxes, Display of fire safety instructions. Standard norms for renovation will be followed. 	 Provision would be made for rain water harvesting structure. Recharge of tube wells Plantation of 500 plants nearby NAHEP centre 	Rs. 7 lakhs		





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		•	Open disposal of construction debris	Whatever debris comes from the repair and minor modification work will be reutilized in University Campus.		• Already taken care.
		•	Use of non-renewable energy contribute to emission	Energy consumption will be reducing by using Energy efficient appliances. LED/CFL lights will be illuminated using solar energy. •	Installation of solar panel for generation of energy	Rs 15.50 lakhs
		•	• Risk due to lack of safety measures and pollution	 Fire hazard safety tools will be fitted in office/ wherever essential. The contractor has been instructed to strictly follow the safety norms and should provide with gloves, helmets masks to the workers. 	• Installation of fire safety and CCTV in the premises.	Rs. 5 lakhs
2	Waste disposal	• Hazardous wastes (Management and Handling) Rules, 1989 and Amendment Rules, 2000 & 2003	 Open disposal of hazardous laboratory (liquid) wastes into gutter may contaminate the soil, 	 Collection of waste separately in mini tub. Consultation and visits of the PCB 	Students and staff will be trained on laboratory safety guidelines. Best practice will be	•Rs. 10 lakhs for safe disposal of hazardous waste by handing it over to authorized agency.







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		•	Open disposal of	• Whatever debris	•	• Already taken
			construction debris	comes from the		care.
				repair and minor		
	1			modification work		
				will be reutilized		
				in University		
				Campus.		
		•	• Use of non-	• Energy	• Installation of solar	Rs 15.50 lakhs
			renewable energy	consumption will	panel for generation of	
			contribute to	be reducing by	energy	
			emission	using Energy		
				efficient		
				appliances.		
				• LED/CFL lights		
				will be illuminated	,	
				using solar energy.		
				•		
		•	• Risk due to lack of	• Fire hazard safety	• Installation of fire	Rs. 5 lakhs
			safety measures and	tools will be fitted	safety and CCTV in	
			pollution	in office/ wherever	the premises.	
				essential.		
				 The contractor has 		
				been instructed to		
				strictly follow the		
				safety norms and		
				should provide		
				with gloves,		
				helmets masks to		
				the workers.		
2	Waste disposal	 Hazardous wastes 	-	 Collection of 	Students and staff will	•Rs. 10 lakhs for
		(Management and	hazardous laboratory	waste separately in	be trained on laboratory	safe disposal of
		Handling) Rules, 1989	(liquid) wastes into	mini tub.	safety guidelines.	hazardous waste by
		and Amendment	gutter may	 Consultation and 		handing it over to
		Rules, 2000 & 2003	contaminate the soil,	visits of the PCB	Best practice will be	authorized agency.







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		• E-Waste (management	groundwater etc.	for advisory.	followed for disposal of	•Rs.5 lakhs for
		and Handling) Rules,		• SOPs will be	waste.	setting facility for
		2018		made available in		food waste
				the laboratories.	Agri. Waste into by-	utilization.
					products like poultry	•Rs. 1.5 lakh
			• Radiation Heavy	• E – Waste will be	feeds, cattle feeds etc	
			metal contamination	channelized		
			of ground water /soil	through collection	Govt. policy/ pollution	
				center or dealer of	board procedure	
				authorized	followed	
				producer or		
				dismantler or		
				recycler or		
				through the		
				designated take		
				back service		
				provider of the		
				producer		
				Will maintain		
				records of e-waste		
				generated by them		
				in Form-2 and		
				make such records		
				available for		
				scrutiny by the		
				concerned State		
				Pollution Control		
				Board;		
3	Capacity building of faculty	• N.A.	 NA 	• NA	Concepts of	Awareness
	and students				conservation of	workshops (Approx.
					natural resources and	Rs. 2 lakhs).
					to bring attitudinal	
					change among	
					students and faculty	



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			mikv.org.m. www.mai	iep.viiiiikv.org.iii		
					The courses are included in the modules.	
4	Research themes of the centre	• Insecticide Act 1968	Use of pesticide that fall in the category of Class Ia, Ib, and II as per WHO classification will pollute the water, soil & air and effects biodiversity.	 Pesticides banned by WHO will not be used. Use of permitted pesticides/fungicides in the research trials as per the WHO classification. 	The web-resource will also be helpful to farmers and students for identification of WHO recommended pesticides which are less harmful to environment.	Already being done
				WHO Laboratory Safety Manual.	 Formulation of research trials which can conserve natural resources such as Soil and Water and reduce environmental impact Development of web and mobile based application 	Rs I lakhs
					 for choosing appropriate chemical pesticide/ fungicides as per the classification of WHO 	
					Best practice: Use of bio-control agents viz., Trichogerma sp., Trichoderma sp, Verticillium likyani	Rs 2 lakhs



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	Zygogramma beetles,etc • Use of drip system reduces the water wastage and improves soil conservation.	
	 Recycling of plastic waste by remolding back into use. 	Rs 2 lakh
·	Total Cost:	Rs. 51.00 Lakhs

DI & DEAN (F/A) VNMKV, Parbhani PRINCIPALIENVERTIGATOR (PI)
NAHIWAHEN CARSTOWNMEN
PARBHANI (M.S.) INDIA

Environmental Safeguard (ES) Officer NAHWAGEA SANGER PAMKYMKV PARBHANI (M.S.) INDIA

Hon. Vice- Chancellor VNMKV, Parbhani