JECRC-IAMC TASK 1

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Environmental Monitoring System

Component	Function	Estimated Cost	Power supply
ESP32	manages sensor	419/- INR	3.3 V
Microcontroller	data,		
	communication,		
	and control		
DHT22 Sensor	Measures	394/- INR	3.3 V
	temperature and		
	humidity		
Capacitive Soil	Measures soil	360/- INR	3.3 V
Moisture Sensor	moisture		
Lithium-Ion Battery	Stores power for	700/- INR	12 V
(2000mAh)	system operation		
Miscellaneous	General assembly	500/- INR	
Components	components		
(Wires, PCB,			
Connectors)			
Buck Converter	Voltage regulator	80/-	
SD Card Module	Data storage for	500/-	
	sensor readings		