

Ramgarh Engineering College

Environment Management Plan 2021

Sl. No	Environmental Aspect	Management Issues to be considered	Details of activity to be performed	Responsibility/official	Time line or completion date	Evidence/Verification	Remarks
1.	Drinking Water	Cleaning and repair of tanks (all overhead tanks) in the premises Testing of water from all taps/ water tanks	Regular Cleaning with Bleaching Powder and Lime in 15 days interval Testing of major physical and chemical parameters and biological parameters within 3 months.	Care taker of the campus Water purifier companies	15 days 3 months	Attendance of cleaning staffs AMC for all water purifiers	OK OK
		Water cooling system cleaning and Maintenance	Water Cooling System regularly checked and maintained by corresponding water purifier manufacturer companies	water purifier manufacturer companies	3 months	AMC for all water purifiers	OK
		Annual maintenance of water purification system	Yes, 4 per Year	water purifier manufacturer companies	3	AMC for all water purifiers	OK
2.	Sanitation	Regular Cleaning of toilets in both the academic institution and the hostels Maintenance of fittings and fixtures in academic and residential blocks	Daily Cleaning with Bleaching Powder and Acid Plumber is assigned for purpose	Care taker of the campus Plumber	Daily As needed	Attendance of cleaning staffs Contract with the plumber and regular attendance	OK OK
		Maintenance of drain pipes and sewerage mains (if available)	Plumber is assigned for purpose	Plumber	As needed	Contract with the plumber and regular attendance	OK
		Annual Maintenance of any waste water treatment system	Primary and Secondary Treatment to be planned for disposal and treatment of sewage from various buildings in campus	Facility Manager and care taker	Annual	Work responsibility of facility manager and care taker	
		Checking and maintenance of septic tanks	Regularly Done in 6 Month and Cleaning of	Facility Manager and care taker	As needed	Work order of cleaning vendors	OK

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Principal

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Principal

Environmental Coordinator

Ramgarh Engineering College
P.O.-Barkipona, Dist.-Ramgarh

Jharhhand-87

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		Linking internal drains to the main municipal drain	Sludge in every two years/ as needed	Regularly Done and Cleaning of Sludge in every 7 days/ as needed	Facility Manager and care taker	As needed	Work responsibility of facility manager and care taker	OK
3.	Drainage	Cleaning of Stormwater drains	There is no separate system for Storm Water (Combined System for Grey water and Strom Water)	Regular checking and if it is found any repair issue, immediately done by giving contract to civil contractors	Facility Manager and care taker	As needed	Work responsibility of facility manager and care taker	OK
		Repair of Stormwater drains						OK
		Repair of down water pipes in buildings	Water and Sewage Pipes are reinstalled and some fixture are replaced to avoid leakage		Facility Manager and care taker	As needed	Work responsibility of facility manager and care taker	OK
4.	Wastewater from laboratories	Preliminary treatment of wastewater before it is discharged in the drain.	Preliminary treatment of wastewater will be done by temporarily holding the sewage in a quiescent basin where heavy solids can settle to the bottom while oil, grease and lighter solids float to the surface. The settled and floating materials are removed and the remaining liquid will be discharged	Daily	Care taker		Work responsibility of care taker	OK
5.	Barrier free Access	Ramps provided in every building and conforming to National Building Code	We are planning to renovate our existing stairs	Facility manager	As needed	Work responsibility of facility manager	OK	
		All facilities have classrooms on the ground floor	We are planning to renovate our existing class rooms	Facility manager	As needed	Work responsibility of facility manager	OK	
		All building have specially	We are planning to	Facility manager	As needed	Work responsibility	OK	

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Principal

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MahaParth Engineering College

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		designed toilets on the ground floor for the physically challenged and they conform to National Building Code	renovate some of our existing toilet			of facility manager	
6.	Solid Waste (Canteen)	Segregation of bio-degradable and non-bio degradable waste	Segregation of biodegradable and non-biodegradable waste is to be done at source using different colour bins green colour for wet waste and blue colour for dry waste	Care taker	As needed	Work responsibility of care taker	OK
		Treatment of the bio-degradable waste	Biogas plant can be installed for proper treatment of Biodegradable and Incineration can be done to non-biodegradable waste	Principal	As needed	Work responsibility of Principal	OK
		Use of the compost	Compost can be used as manure for gardening purpose	Facility manager	As needed	Work responsibility of facility manager	OK
7.	Solid Waste (MSW Campus)	Collection System (using two bin) and regular clearing of the bins	Different colour dust bin facility in the campus. Green and Blue colour Bins for wet waste and dry waste at major location.	Facility manager	As needed	Work responsibility of facility manager	OK
		Disposal System of the MSW	Bio degradable waste left after biogas can be used as manure and non-biodegradable waste product left can be disposed in landfill	Facility manager	As needed	Work responsibility of facility manager	OK
8.	E-Waste	Management of e-Waste as per the E-waste (Management) Rules 2016	Separate room is provided for the collection of E-Waste and campaigning for the	Facility manager	As needed	Work responsibility of facility manager	OK

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Principal

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Principal

St. Joseph's Engineering College
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Barkipona - 825101

Environmental Coordinator

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			encouragement for disposal in the specific room is to be done. Collected E-waste is further given to the specialized E-waste companies				OK
9.	General Electrical Safety	Electrical Safety Audit of the campus (including, classroom, laboratories and hostel) Electrical Maintenance of the entire campus	Will be performed by electrical engineering department Electrician has been appointed	electrical engineering department Electrician	6 months As needed	Departmental record Contract with Electrician	OK OK
10.	Laboratory Safety	Laboratory Safety Audit	A Laboratory Safety Audit would be conducted covering electrical, mechanical, OHS and ergonomic aspects Do's and Dont's and precautionary charts are provided in each labs. Electrical Connection are checked properly and Water seepage and Leakage problems should be eliminated.	Respective departmental technical assistants	Semester	Course file (Lab)/Laboratory notice boards	OK
		Development of the Laboratory Safety plan		Respective departmental technical assistants	Semester	Course file (Lab)/Laboratory notice boards	OK
11.	Fire Safety	Fire Safety Audit of the Campus (covering all classrooms, laboratories, hostels and canteens)	Fire Safety Audit of the campus (covering all the classrooms, laboratories, hostels, and canteens) will be done on regular basis.	Facility manager	As needed	Work responsibility of facility manager	OK
		Procurement of Fire safety apparatus : extinguishers, risers, hooters and alarms.	Fire safety apparatus: extinguishers, risers, hooters and alarms are placed at different appropriate locations	Principal	As needed	Purchase order	OK
		Fire Signages	Fire Signage will be	Principal	As needed	Purchase order	OK

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Occupational Health and Safety	OHS Audit in Laboratory	shown at different places We are planning to contact with local govt. health officials and request the official for the audit.	NCC/NSS cell	3 months	Activity of NSS	OK
	Procurement of OHS equipment for the laboratory	We are planning to contact with local govt. health officials and request the official for the audit. After getting the required equipment, we will purchase them.	NCC/NSS cell	3 months	Activity of NSS	
13. Construction Safety	Workers Safety	As the complete campus was handed over by the Govt to the college authority, this planning is not applicable for us.	n/a	n/a		
	Insertion of OHS provision in Construction Contacts.	As the complete campus was handed over by Govt to the college authority, this planning is not applicable for us.	n/a	n/a		
	Provisions of Sanitation for Construction workers	As the complete campus was handed over by Govt to the college authority, this planning is not applicable for us.	n/a	n/a		
	Segregation of the construction area from the academic areas	As the complete campus was handed over by Govt to the college authority, this planning is not applicable for us.	n/a	n/a		
	Legal Compliance to the Building and Construction Workers Act	As the complete campus was handed over by Govt to the college authority, this planning is not applicable for us.	n/a	n/a		

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	Construction and Demolition Waste Management	Inclusion of Construction & Demolition Waste Management in Construction Contract	As the complete campus was handed over by Govt to the college authority, this planning is not applicable for us	n/a	n/a		
		Enforcement of the Construction and demolition waste management	As the complete campus was handed over by Govt to the college authority, this planning is not applicable for us	n/a	n/a		
15.	Energy Conservation	LED Lighting and Fixtures	Enforcement and encouragement of the usage of LED Lighting and Fixtures at household and institutional level to be done throughout the campus	Facility manager	Daily	Purchase order/Notice from college authority	OK
		Solar Installation (on grid and off grid)	We already planned for solar installation and submitted it to the Govt for the approval	Principal	Daily	MoM and receiving copy of our application	OK
		Auto shutoff switches in rooms corridors and common areas	It is under process	Caretaker	01.01.2022		
		Solar water heaters	It is under process	Caretaker	30.11.2021		
		Conduct a Water Audit	Yes	Environmental division (CE and Chemistry department)	05.06.2021		
16.	Water Conservation	Rain Water Harvesting	College is established by Govt and no Water Harvesting system is installed by Govt.	NA	NA		
		Auto shutoff valve in overhead tanks	Yes it is installed	Caretaker	Already installed	Photograph	OK
		Reuse of water after treatment	Yes. It is used for gardening purpose.	Caretaker	Already installed	Photograph	OK
17.	Diesel Generator / furnace	Having Consent to Operate and other required permits	Two DGs are available for electricity backup in Academic building.	Caretaker	As per college policy.	DG log book	OK

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	Maintaining stack height as required under the Environment (Protection) Rules 2002.	Administrative building, Hostels and other buildings.	Facility Manager	NA	Photograph	OK
	Management of waste generated	Yes. Generated wastes are immediately removed from campus by the vendor.	Caretaker	As required	College policy	OK
18.	Ecological Conservation	Ecological Inventory	Caretaker	December 2023	In process	In process
	Development of an ecological reserve	In last 7 years, We converted our 60% of barren land into fertile land. 40% of such lands are converted into garden and it is now in developing stage. In near future we will develop and ecological reserve.	Caretaker	December 2023	In process	In process

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