

Environmental Audit Report For the Academic Session 2022-23



A VIEW OF SCIENCE BLOCK

**KARANJIA AUTONOMOUS COLLEGE, KARANJIA
DIST-MAYURBHANJ, ODISHA
(MAHARAJA SRIRAM CHANDRA BHANJA DEO UNIVERSITY, BARIPADA)**

**KARANJIA AUTONOMOUS COLLEGE, KARANJIA
DIST-MAYURBHNAJ, ODISHA
ENVIRONMENTAL AUDIT COMMITTEE**

SL NO	Name	Designation	Committee Role
1	Mrs. Kanaka Lata Soren	Asst. Professor of Zoology and H.O.D Karanjia Autonomous College, Karanjia Dist-Mayurbhnaj	Member
2	Mr. Falguni Behera	OFS-I, Assistant Conservator of Forest, Karanjia Forest Division, Karanjia Dist-Mayurbhnaj	External Member
3	Dr. Ranidra Kumar Nayak	Head, Department of Environmental Science, F.M. University, Balasore	External Member

ENVIRONMENTAL AUDIT-KARANJIA AUTONOMOUS COLLEGE, KARANJIA DIST-MAYURBHANJ, ODISHA

The Environmental audits can be divided into five categories-(1) Air issues (i) Water issues (iii) Waste (iv) Biodiversity (v) Environment Management System.

- (I) **Air issues:** Poor implementation and monitoring of the Air Pollution Control Act led to increase in pollution levels. Current air pollution in the College campus premises is 23, with average parameters 6.2 (PM2.5); 3.8(PM10); 1.7(SO₂); 2.4(NO₂); 23.2(O₃) and 1.0 (CO) 2022-24.
- (II) **Water issues:** Water pollution control in the nearby water bodies; water harvesting measures taken up by the college, providing safe drinking water and sensor/float based checking on wastage of overflowing water from overhead tanks could be the focus points for audit. Fluoride and Arsenic content in drinking water and measures taken for the same could be mentioned in the report.
- (III) **Waste issue:** Audit of waste issues have looked at the implementation of waste management policies. Reduction/recycling/reuse, lack of rules for disposal of all kinds of waste including e-waste, chemical, biomedical and radioactive waste and poor compliance to the Municipal Solid waste, Bio- medical waste and Plastic waste rules are certain issues of concern for effective implementation of the policy.
- (IV) **Biodiversity issues:** Afforestation and frequency; amount of green cover as a ration of the total area of the college campus, preservation of Sal/ medicinal in adjacent Area/ Botanical Garden plants those are fully grown etc. could be included for audit. Region specific flora and fauna and their conservation taken up by the college to be included in the report.

ASPECTS OF ENVIRONMENTAL AUDIT AND OBSERVATIONS

Sl No	Aspect of Examination	Remarks
1	Renewable Energy	Solar lamps are installed; panels are planned to reduce at least 50% of the power consumption
2	Biodiversity Conservation	Flora and fauna available in the region are conserved by the Volunteers of NSS and YRC wings.
3	Tree/ Plantation Drives	Regular/ Annual afforestation programmes are carried out by the NSS and YRC wings on campus and near by Villages.
4	Ground Water Recharge	Rain Water harvesting systems are in place.
5	Pollution Reduction	1. Outside vehicles are not allowed into the college campus. 2. One day in a week is earmarked as no-automobile day of Green day i.e. Friday.
6	E-Waste Management	As per Odisha state Pollution Control Board norms.
7	Solid Waste Management	Waste management policy at par with Odisha Pollution Control Board (OPCB) and a MOU is signed between Karanjia NAC /Municipality for solid and wet waste management and disposal.
8	Village Adoption	Local area(s) are adopted and designed as a model villages: Village Ankura is adopted by the college.
9	Water Conservation	Sensor/ Float based check on overflowing overhead tanks.
10	Inclusiveness	Indigenous tribal culture and art, including traditional medicines are tapped and consultancy are offered. Other domains like mushroom cultivation / medicinal plant garden/ organic liquid manure etc. are in place.

RECOMMEDATIONS

1. Audit of Air Pollution / Vehicular emission to be measured in ppm.
2. Audit of water pollution and availability of water supply/quality need to be conduct regularly.

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