Green Audit Report

Dada Ramchand Bakhru Sindhu Mahavidyalaya, Nagpur (Year 2023-24)

Prepared by

Onkar Services

Aggregators of National & International Quality Audits

Acknowledgement

We at Onkar Services, Nagpur, express our sincere gratitude to the management of DRB Sindhu Mahavidyalaya, Nagpur for awarding us the assignment of Green Audit of their college premises.

We are also thankful to academic & administrative staff members for helping us during the field inspection.

We hope that the recommendations stated in this report will be useful.

Udar

Vaishali Udar

Director,
Onkar Services, Nagpur

Executive Summary

Rain Water Harvesting / Recharge	✓ ✓
Water Quality Index	✓
Laboratory waste management (Solid / Liquid / Bio)	✓ ✓
Canteen waste management	✓ ✓
Plastic Free Campus Strategy	✓
Compost Conversion	✓
Paper Free Processes	✓ ✓
STP	✗
Energy Audit	✓
Alternate green Energy source	✓ Solar
Residential Setup Module	Not Applicable
Radioactive elements / experiments	Not Applicable

✓ Available / Good ✓ Proposed replacement in Phases ✓ Needs improvement

Total Footfall & automobile count (Min 5 hours average per day)

Students	2500	600 (Parking)	200 bicycles
Staff	160	160 (Parking)	

Total Area & Green Coverage

Land Area	2.5068 Acres
Construction Area	approximate 48,506 sq ft
Green Coverage Factor	approximate 12 % Moderate (see detail report)

helpful tips

Use of public transport for staff & students should be promoted

Promotion of bicycle and E-vehicles is advised

Vertical Gardening including oxygen zone is advised

Drinking Water System needs improvement

General Water Conservation & recycling should be incorporated

Next Green Audit is suggested only after major changes or
after end **1 years validity** (Jan25) of this report.

Water Quality Index Calculation
The water quality index is calculated based on measured values for each of five parameters: Temperature, Biological Oxygen Demand, Total Suspended Solids, Dissolved Oxygen and Conductivity. Here we describe what each of these parameters means in terms of local water quality and how they are used in the index.

Simple Water Quality Index (ISQA)
ISQA is calculated as: ISQA = I_{TEMP} * (I_{BOD} + I_{TSS} + I_{DO} + I_{COND}). Where I_{TEMP}, I_{BOD}, I_{TSS}, I_{DO}, and I_{COND} represent individual index terms with different weighting factors for each parameter.