



## **Brief Report on Facilities Provided**

### **A. Alternate Sources of Energy and Energy Conservation Measures**

1. **Solar Energy:** Dr. Ambedkar College of Arts, Commerce, and PG Centre, Kalaburagi, has implemented a 5.00 kW solar rooftop plant that ensures an uninterrupted power supply to the institute. This grid-connected system generates electricity throughout the day, and any surplus energy is fed back into the grid, providing the institution with a credit on its electricity bill and reducing overall energy costs. The system also maintains a seamless power supply by drawing from the grid when solar production is insufficient.
2. **Sensor-Based Energy Conservation:** The campus employs sensor-based lighting that automatically turns off when rooms or areas are not in use, contributing to energy conservation. Additionally, sensor-based systems manage the water supply in overhead tanks by activating and deactivating the motor based on the water level, optimizing water usage.
3. **Use of LED Bulbs/Power-Efficient Equipment:** LED bulbs are used extensively throughout the college, including in the administrative offices, various departments, playground, AV Hall, auditorium, seminar hall, canteen, staff rooms, classrooms, and laboratories, enhancing energy efficiency across the campus.

### **B. Management of Degradable and Non-Degradable Waste**

1. **Solid Waste Management:** The college implements a comprehensive solid waste management system. Biodegradable waste, such as food and canteen waste, is collected separately and disposed of appropriately. Non-biodegradable waste is gathered and managed through the municipal waste collection system. The college ensures proper waste segregation and has designated sweepers for routine maintenance and waste collection throughout the campus.



2. **E-Waste Management:** The college efficiently manages e-waste, including outdated equipment like lab instruments, computers, printers, and other electronic devices. E-waste that cannot be reused or recycled is stored securely and handed over to MS Graphics Pvt. Ltd., Bidar, for proper disposal.

### **C. Water Conservation**

1. **Rainwater Harvesting:** The college has established a rainwater harvesting system, including a collection pit and rooftop collection system. The harvested rainwater is used to recharge open wells, addressing freshwater shortages. Regular inspections of taps and pipes help minimize water wastage.
2. **Bore Well/Open Well Recharge:** The campus features one bore well and one open well, primarily used for groundwater recharge. Rainwater harvesting contributes to recharging these groundwater sources through dedicated recharge pits.
3. **Maintenance of Water Bodies and Distribution System:** A well-maintained pipe network and storage tanks ensure efficient water distribution across the campus. A gardening maintenance committee oversees the system, monitoring for leaks and ensuring the economical use of water.

### **D. Green Campus Initiatives**

1. **Restricted Entry of Automobiles:** To promote safety, fuel efficiency, and reduce environmental pollution, the institute encourages the use of public transportation over personal vehicles.
2. **Pedestrian-Friendly Pathways:** The campus features well-designed pedestrian pathways, and parking is provided at the main entrance, ensuring ease of movement for students and staff.
3. **Ban on Plastics:** The use of single-use plastics is strictly prohibited. Awareness campaigns and training sessions educate the campus community about this ban. Alternatives like steel glasses have replaced



Karnataka People's Education Society's

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plastic cups in the canteen, and students and staff are encouraged to use reusable bottles.

4. **Landscaping with Trees and Plants:** The campus is aesthetically landscaped with trees and plants, enhancing the environment by providing shade and contributing to a pollution-free atmosphere. Skilled gardeners maintain the landscaping to ensure its health and beauty.

### **E. Disabled-Friendly, Barrier-Free Environment**

1. **Ramps:** The campus is equipped with ramps to facilitate the mobility of individuals with disabilities. This ensures that all amenities are accessible, supporting independent functioning within the college environment.
2. **Disabled-Friendly Washrooms:** Accessible restrooms are available, featuring easy-to-use fittings, grab bars, and non-slip surfaces to accommodate individuals with disabilities comfortably.
3. **Signage:** The campus includes appropriate signage, including tactile paths, display boards, and safety indicators, in compliance with safety regulations. These signs ensure clarity and safety for all campus users, especially in emergency situations.

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Dr. AMBEDKAR COLLEGE  
OF ARTS & COMMERCE.  
GULBARGA**