



7.2.1

Best Practice II:

1. Title of the Practice -

Nurturing an environment-friendly, barrier-free campus through sustainable practices

2. Objectives of the Practice –

- To adopt policies and undertake activities that contribute to creating a barrier-free, environment-friendly atmosphere in the campus.

3. The Context -

The institution is situated on the main road with heavy vehicular traffic. The neighbourhood has dense human habitation and is a buzzing business centre. Therefore, it is challenging to maintain a green and clean campus considering such high-risk environmental factors.

4. The Practice

- Implementing eco-friendly initiatives through Energy management policy, Green campus policy, Waste management policy, Divyangjan policy (adhering to central and state government guidelines).
- Tree plantation in the college campus and hostel premises with the help of NSS & Green Club.
- Emphasising renewable energy sources (solar panels & rainwater harvesting / water-conservation); waste-segregation at source.
- Power-efficient electrical appliances; regular energy, environment & green audits.
- Cleanliness drives in college campus and hostel premises; collaborative outreach drives beyond the campus.
- Cultivating eco-friendly habits and endorsing environmental awareness;



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CPE (1st Cycle) ❖ NAAC Accredited 'A' Grade (2nd Cycle) ❖ DBT STAR College

ISO Certified - 14001: 2015, 50001 : 2018, 9001 : 2015

Environmental Studies part of Undergraduate curriculum since 2001.

- Creating Divyangjan-friendly, barrier-free campus through ramps & rails; accessible toilets; screen-reading software, etc.; sensitization campaigns on this issue.

5. Evidence of Success

- Net-metering of solar power reduces electricity bills.
- Appreciation for adopting these environment-friendly practices from external agencies like Hulladek, Vital Waste, Garbage Free India and Management Consultancy System.
- ISO 50001:2018, ISO 9001:2015 and ISO 9001:2015 certifications from Assurance Quality Certification LLC for maintaining efficient energy management and green environment strategies in the college campus.

6. Problems Encountered and Resources Required

Sometimes, the equipment required for these facilities can malfunction. This implies that maintenance is a major aspect of such appliances and gadgets, and needs to be given regular attention.

7. Notes (Optional)

The practice of installing these environment-friendly equipment and facilities that create a barrier-free campus may be emulated by other institutions for creating a green and ecologically sustainable campus.



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7.2.1. Best Practice II - Nurturing an environment-friendly, barrier-free campus through sustainable practices

Key Indicator - The Institution has facilities for alternate sources of energy and energy conservation measures

1. Rooftop Solar Panels (installed by Larsen and Toubro) connected to the Grid through Net Metering :

20 kWp Rooftop Solar PV Power Plant, sanctioned by West Bengal Renewable Energy Development Agency (WBREDA), Kolkata, an Autonomous Organization under Department of Power and Non-Conventional & Renewable Energy Sources ' (NES), Government of West Bengal, started producing electricity in the grid from April, 2021, thereby augmenting the overall energy scenario of the college.



Installed solar panel on college rooftop



Wheeling to the Grid

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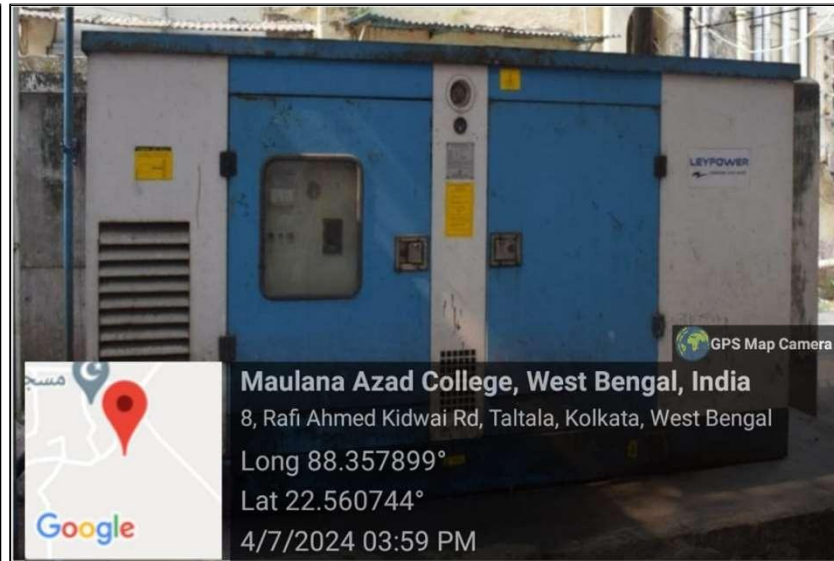
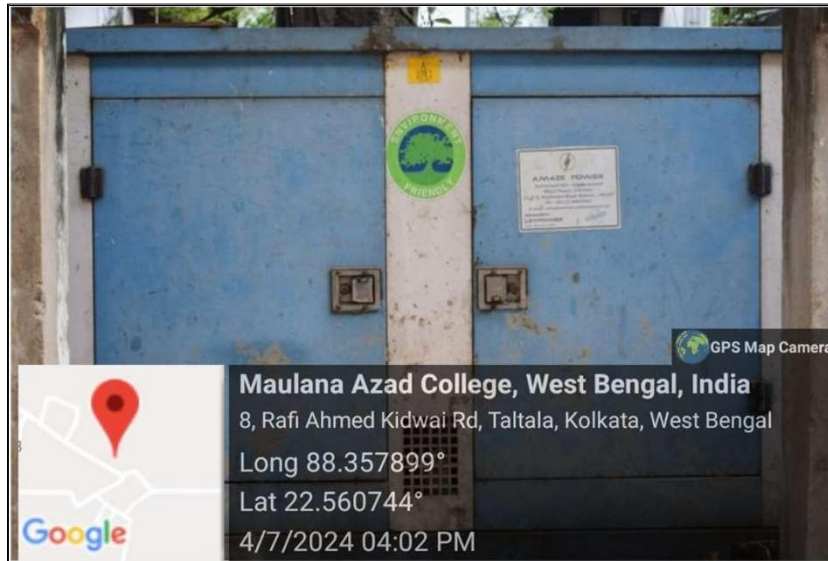


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2. Green Generator of 125 KVA capacity (Ashok Leyland make) has been installed in college campus which combines renewable source of power with conventional fuel to supply power. It is used whenever necessary to reduce carbon emission output.



Green Generator (Ashok Leyland make) of 125 KVA capacity

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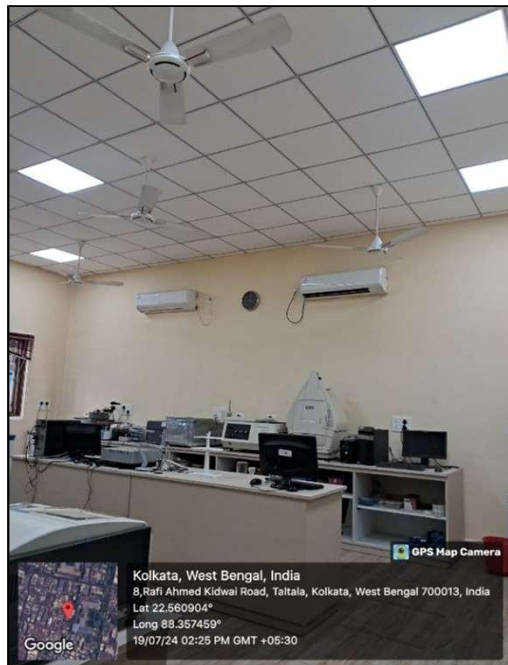


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II Energy conservation measures

1. The College uses LED lights exclusively

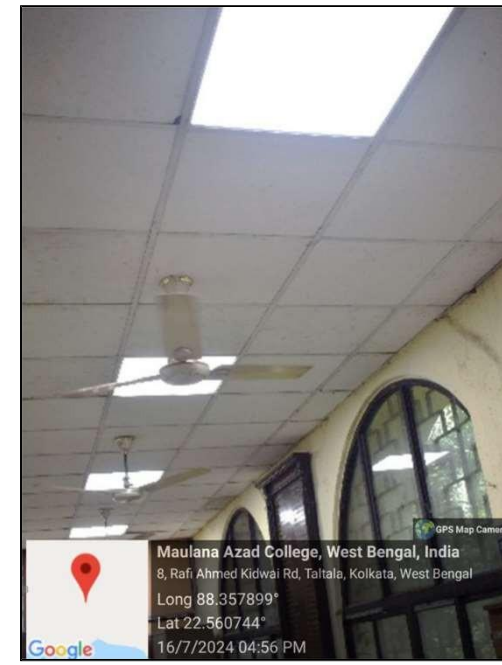
The college has switched to exclusive use of LED lights, aiming to reduce energy consumption, lower carbon emissions, and promote sustainable practices, contributing to a greener and more environmentally friendly campus.



Sleek Square LED lights in Laboratory



Sleek Square LED lights in Seminar hall



Sleek Square LED lights in corridor

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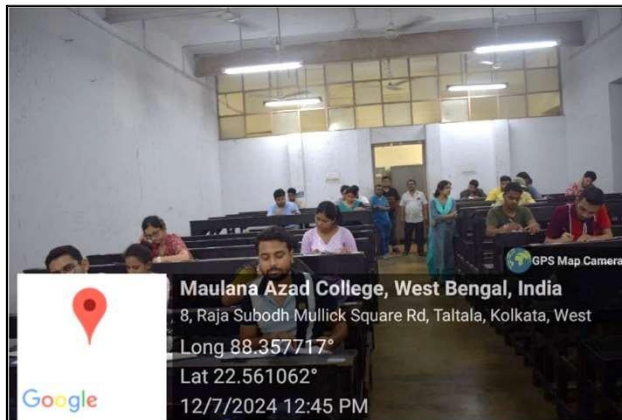


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- **LED tube lights installed in all class rooms and corridors and laboratories**



LED tube lights in class rooms



LED tube lights in corridor



LED tube lights in class rooms

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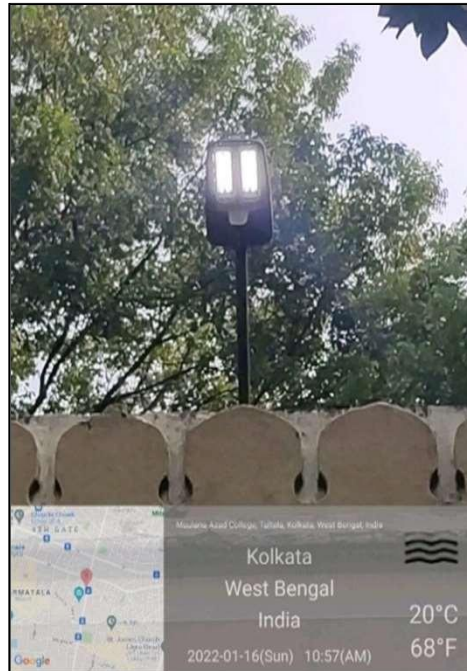
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2. Use of Timer controlled compound lights and garden lights

The college has installed timer-controlled compound lights and garden lights to promote energy efficiency, ensuring a safe and sustainable environment for all students, staff, and visitors.



Timer controlled compound lights



Timer controlled garden lights



Timer controlled compound lights

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3. Use of Power efficient equipment star-rated air-conditioners with timer in the College

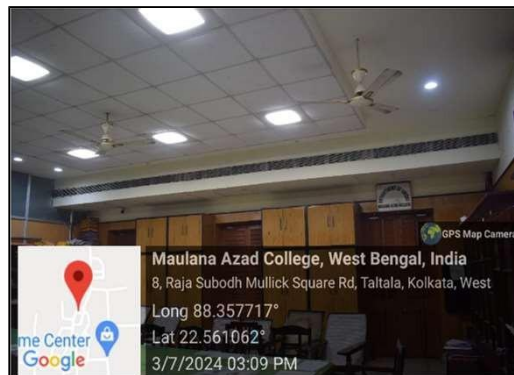
The College uses star-rated ACs with timers to optimize energy consumption, reduce waste, and lower carbon footprint, thus saving money and minimizing environmental impact.



5 star-rated AC of Principal's room



Cassette AC of Seminar hall



Concealed AC of Common staff room



Concealed AC of Chemistry laboratory

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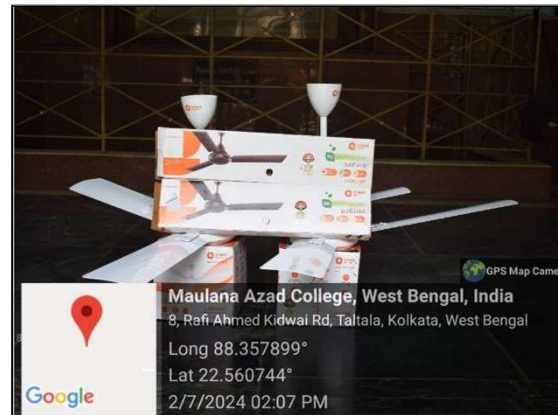
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4. BLDC fans installed at college lobby in front of portrait of Maulana Azad.

BLDC fans installed at the college lobby to provide energy-efficient cooling, enhance student and visitor comfort, and support an eco-friendly learning environment.



BLDC fans installed at the college lobby


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5. All power efficient star rated refrigerators installed at laboratories of different departments

Energy-efficient, star-rated refrigerators were installed in laboratories across various departments to minimize energy consumption, reduce carbon footprint, and support sustainable scientific research and innovation.



Sample photos of some star rated refrigerators in different departments

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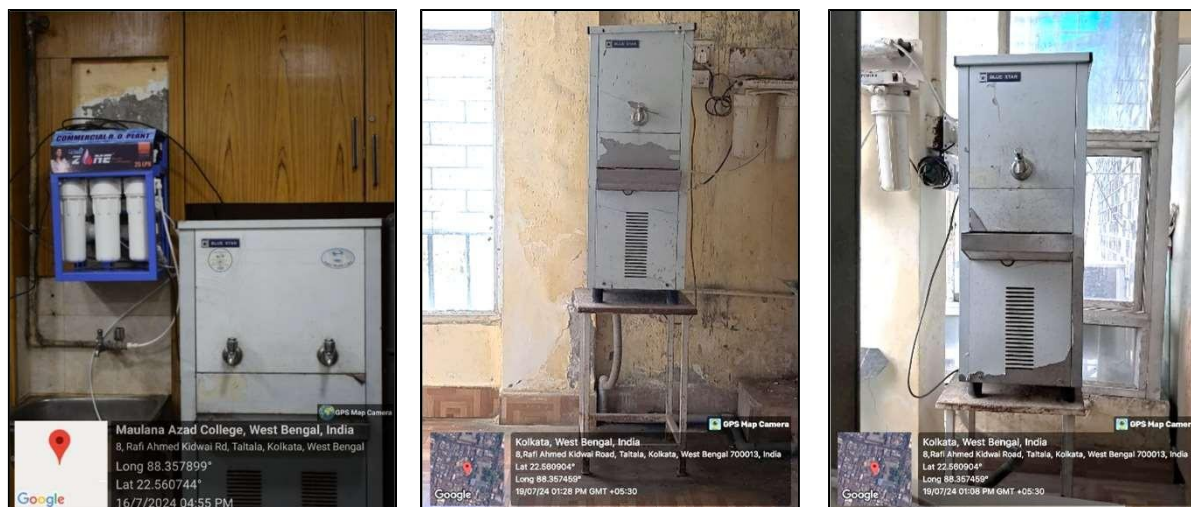
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6. Energy efficient water purifier-cum-cooler installed at different strategic places of the college building

Energy-efficient water purifier-cum-coolers were strategically installed throughout the college building to provide clean drinking water, promote sustainability, and enhance student well-being and productivity.



Sample photos of some water purifier-cum-coolers in college building

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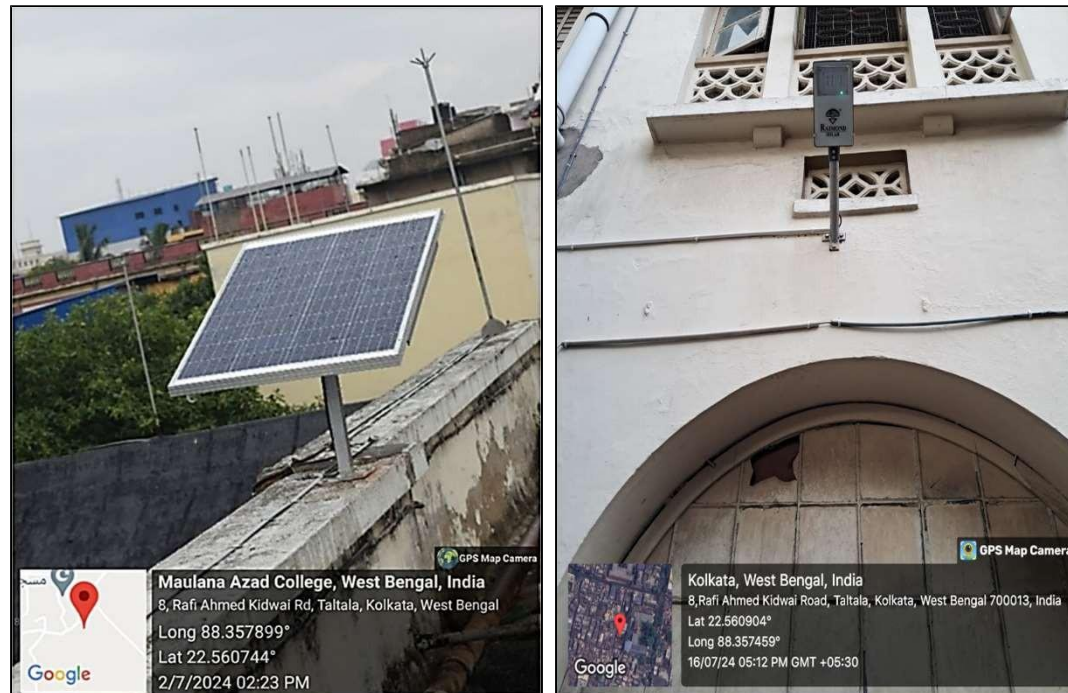
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7. Wall mounted Solar sensor based compound light installed in college backyard

A wall-mounted solar sensor-based compound light was installed in the college backyard to provide energy-efficient illumination, enhance safety and security, and promote sustainable energy solutions.



Solar panel at the college rooftop (left) and the solar sensor based compound light linked with it (right)

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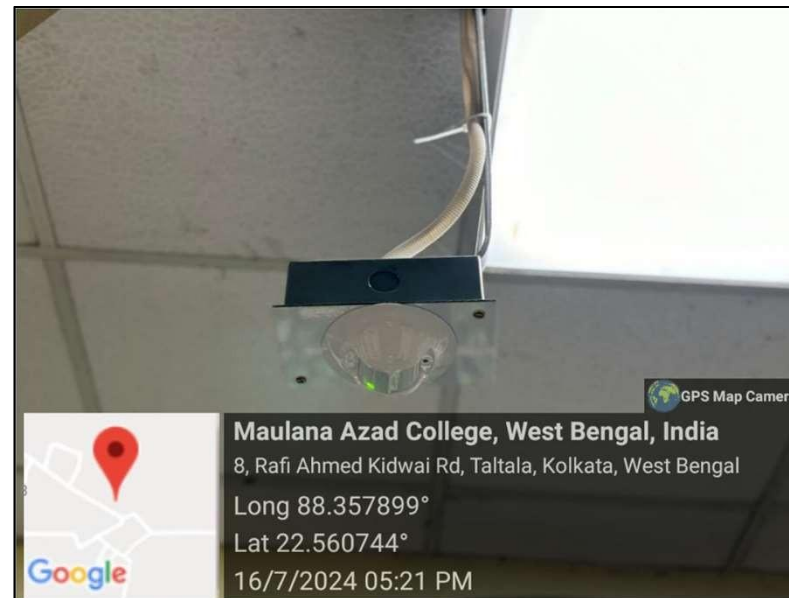
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8. Motion sensor-based lighting arrangements installed at strategic positions within the College building

College installed motion sensor-based lighting for energy efficiency and safety, automatically turning on/off based on occupancy, reducing energy consumption and providing a secure environment.



Motion sensors for lights installed at Seminal Hall and lobby of Principal's Room

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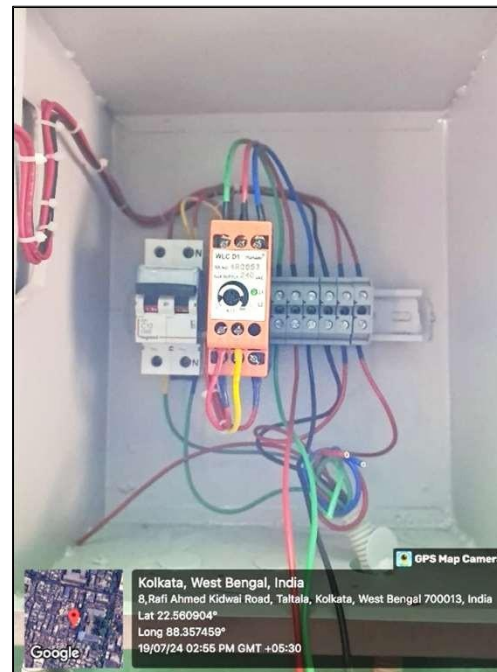
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9. Sensor based autocut pump motor set installed in water tank of College

A sensor-based autocut pump motor set has been installed at the college water tank to enhance water management efficiency and prevent wastage. This automated system ensures that the pump motor turns off automatically when the water tank is full, thereby conserving resources and reducing energy consumption.




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Sensor based auto cut pump motor set in water tank of College building



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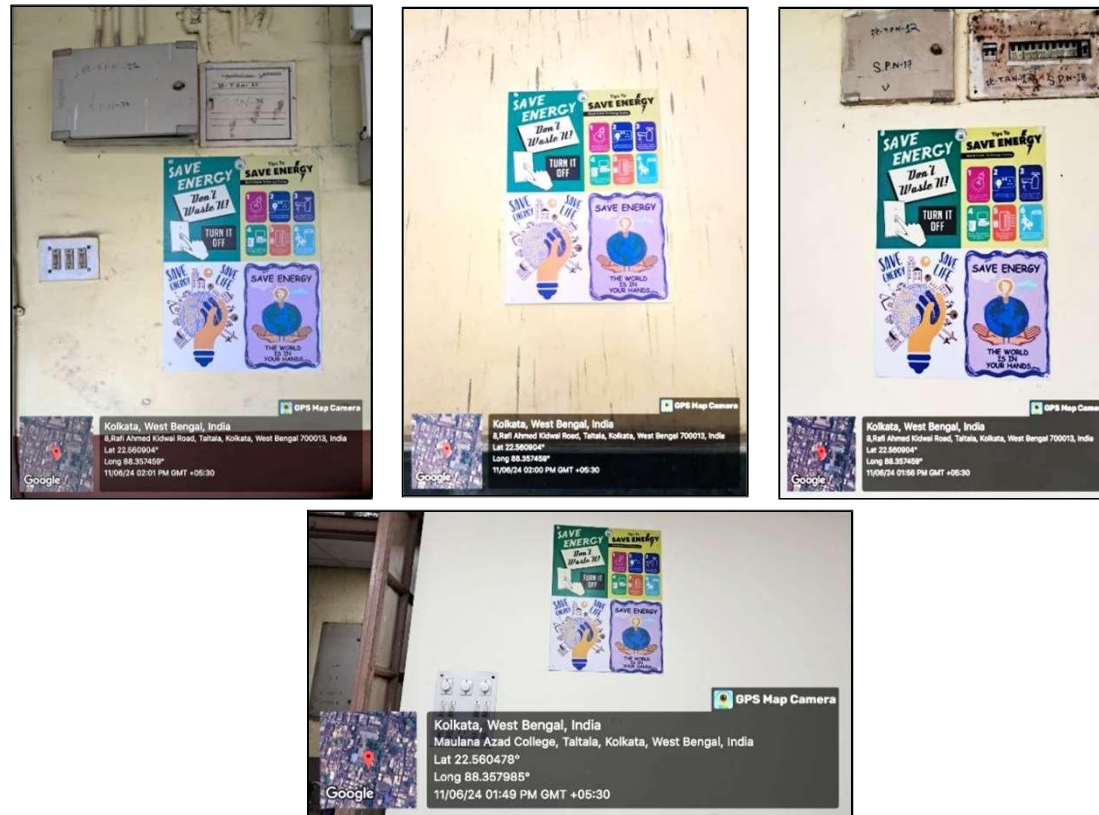


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10. Posters put up throughout college campus at strategic positions to make the students and other staffs aware about power saving

IEC (Information education and communication) posters throughout the college campus to educate and promote awareness among students, housekeeping staffs and faculties.



Representative photos of some Energy Conservation posters throughout the College building

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11. The College conducts/hosts Energy conservation programs from time to time

An Energy Conservation Program hosted by Maulana Azad College in collaboration with Petroleum Conservation Research Association, Ministry of Petroleum and Natural Gas, Govt. of India held on 15th September 2022.



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Some photos of the above mentioned event



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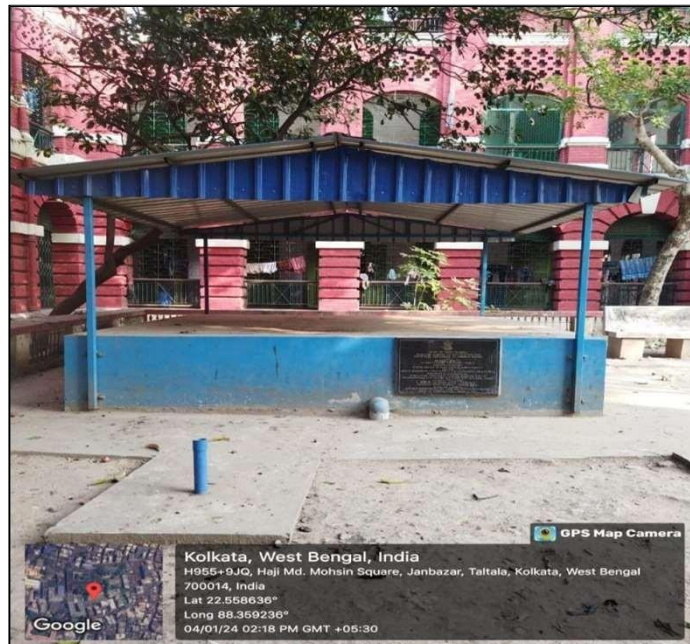


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Key Indicator – Water conservation facilities available in the Institution

1. Rainwater harvesting unit with artificial recharge to groundwater facility :

Rainwater harvesting is carried out at the Baker Government Hostel where boy students of Maulana Azad College stay. The State Water Investigation Directorate, Govt. of West Bengal, has installed a rainwater harvesting unit with artificial recharge to groundwater facility within the hostel premises.



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Rainwater harvesting unit 1 at Baker Government Hostel for boys of the college



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2. The College has rainwater storage facility for reuse:

The college building features 3 rainwater harvesting tanks of 2000 litres capacity each with taps, collecting and storing precious rainwater for reuse in washing, cleaning, and gardening purposes, reducing potable water usage, and exemplifying the institution's commitment to water conservation, sustainability, and eco-friendly practices.



Rainwater harvesting units for rainwater storage and reuse

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3. The College has rainwater storage facility for reuse:

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Rainwater harvesting units & network of pipes for distribution



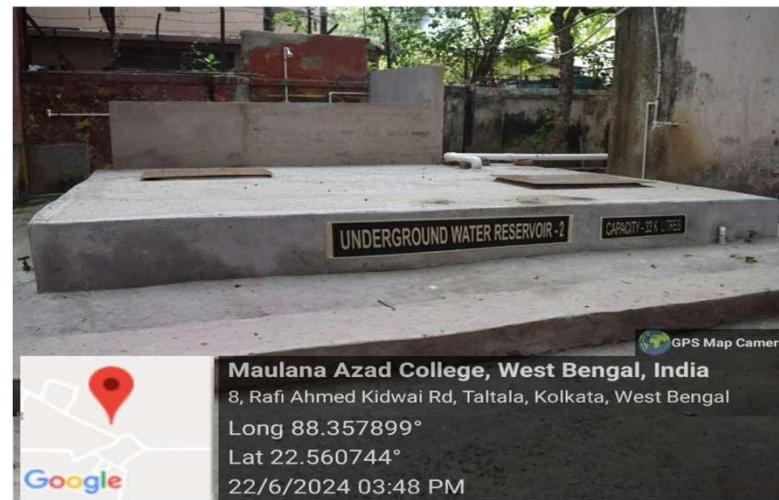
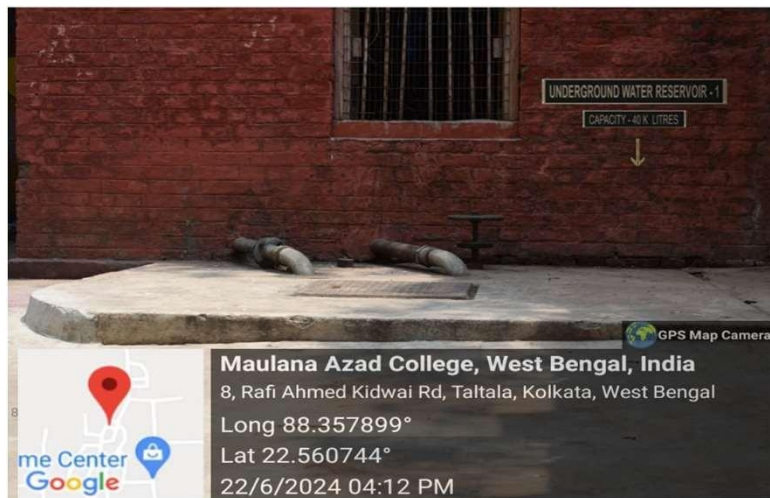
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4. Bunts / bunds / Tanks / Reservoirs:

The college premises feature two underground water reservoirs with capacities of 40,000 liters and 33,000 liters, respectively, to conserve water, reduce water waste, and promote sustainable water management practices, supporting the institution's commitment to environmental stewardship.



Underground water reservoir 1 (40K lts. Capacity) Underground water reservoir 2 (33K lts. Capacity)

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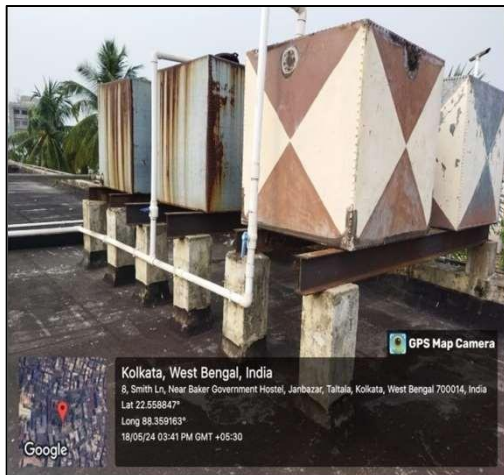
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5. Overhead Water Tanks:

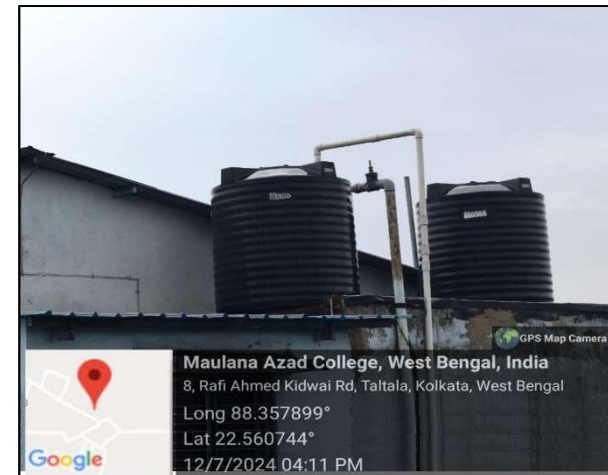
The college and its associated hostels feature several overhead water reservoirs, strategically installed to store water, minimize water waste, and optimize water usage, demonstrating the institution's dedication to water conservation and sustainable resource management.



Overhead water tank at Baker Govt. Hostel (Boys' Hostel)



Overhead water tanks in college rooftop




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6. College organizes seminars on water conservation awareness from time to time:

NSS unit MAC has organized a seminar in collaboration with Kolkata Police, New Market Police station titled “Save water save world” for water conservation awareness amongst students and college staffs.



Some photos of the above-mentioned event

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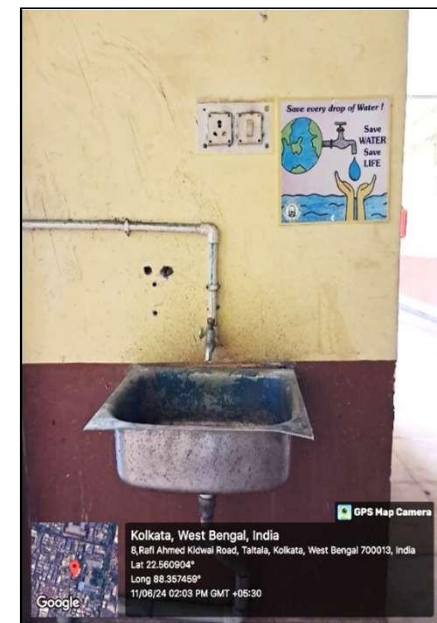
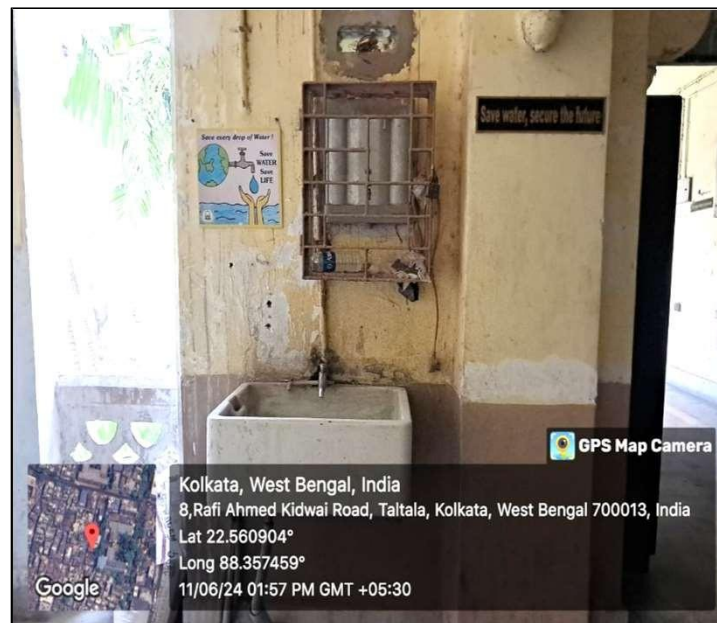
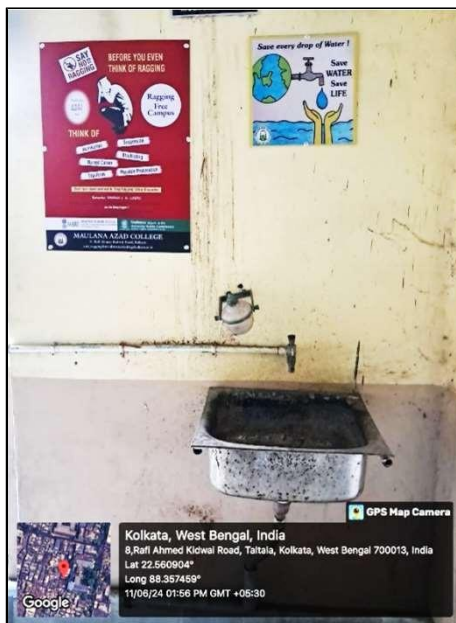


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7. Posters put up at strategic positions throughout college building to aware students about optimum water usage IEC (Information education and communication) posters throughout the college campus to educate and promote awareness among students, housekeeping staffs and faculties.



Representative photos of the save water posters throughout college building


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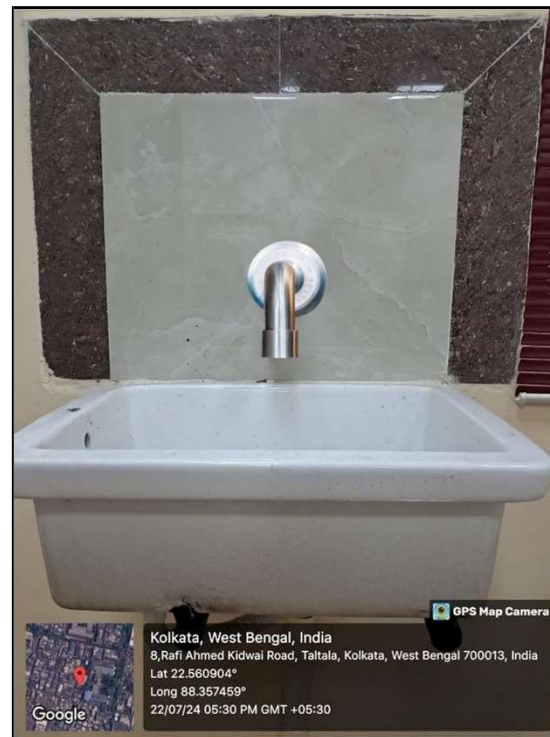


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8. Installation of Automatic sensor controlled faucet in areas of high water usage

Automatic sensor-controlled faucets have been strategically installed in high-usage areas, ensuring water efficiency and conservation by minimizing waste and optimizing flow, demonstrating the college's dedication to sustainable practices and responsible water management.



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Automatic sensor-controlled faucet within college building



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Key Indicator - Facilities in the Institution for the management of various types of degradable & non-degradable waste

1. Source segregation of different degradable and non-degradable wastes :

- Dry wastes(plastic, papers, e-wastes etc.) in **BLUE** bins
- Wet wastes (food, kitchen wastes, garden wastes etc.) in **GREEN** bins
- Hazardous wastes (Chemicals, medicines, toilet wastes etc.) in **RED** bins



Blue and green bins installed at strategic positions in college building



Red bins installed at laboratories that produce hazardous wastes



Red bins installed at ladies toilets

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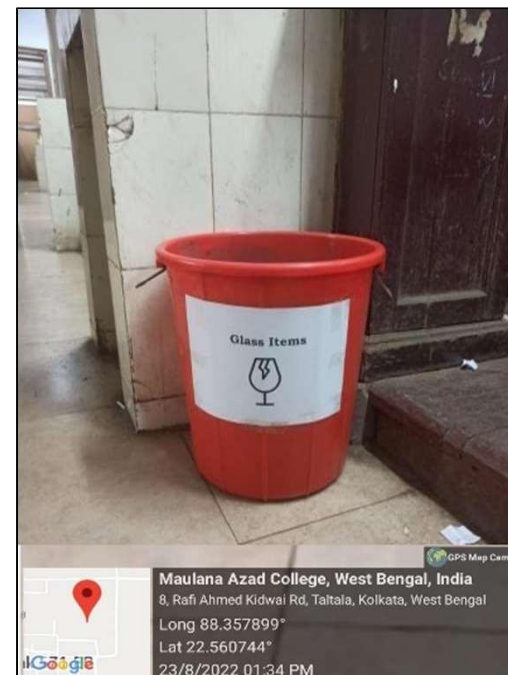
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2. Reuse and repurposing of old refurbished bins are promoted within college building

- Refurbished bins with labeled stickers are used to collect waste, promoting proper sorting and disposal.



Refurbished bins with labeled stickers for proper sorting and disposal of wastes

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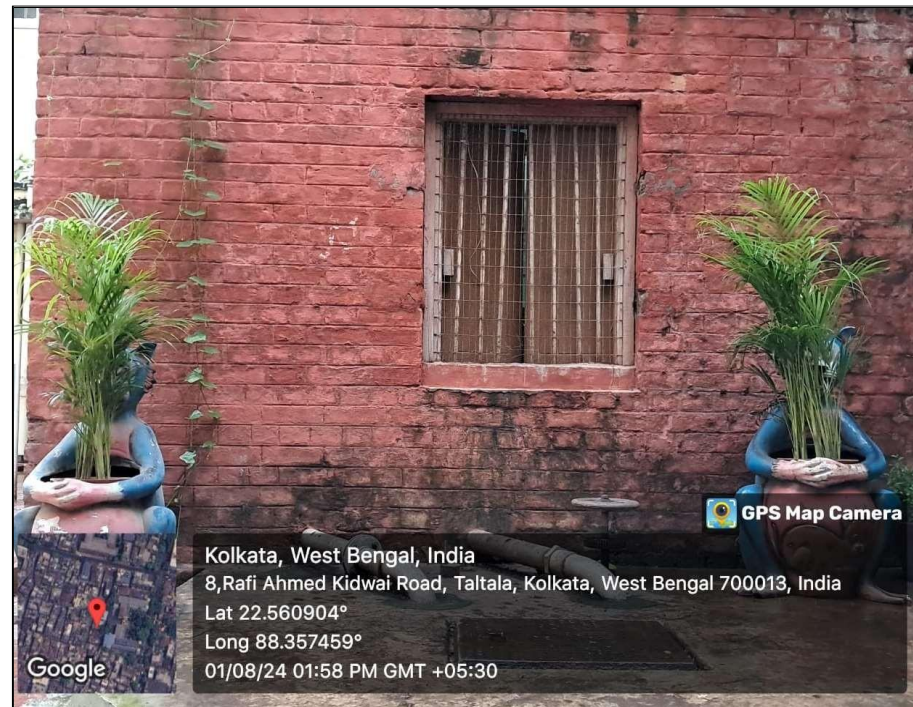


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- Refurbished bins are repurposed as planters for saplings.



Refurbished old bins are reused as planters for saplings

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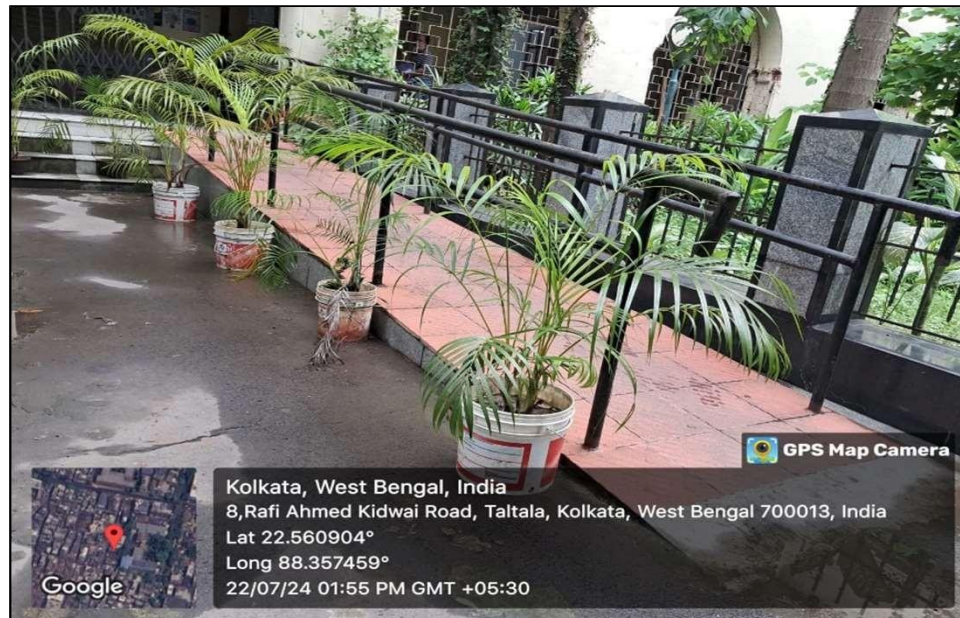
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3. The College promotes reuse of plastic buckets and containers as planters for saplings

Old plastic buckets and containers are being creatively reused as planters for saplings, reducing waste and promoting sustainability, as part of the college's efforts to foster a culture of recycling, conserve resources, and contribute to a greener and more environmentally friendly campus.



Trees are planted in old wasted plastic containers in the College garden as a eco-friendly practice promoting recycle, repurpose and reuse.


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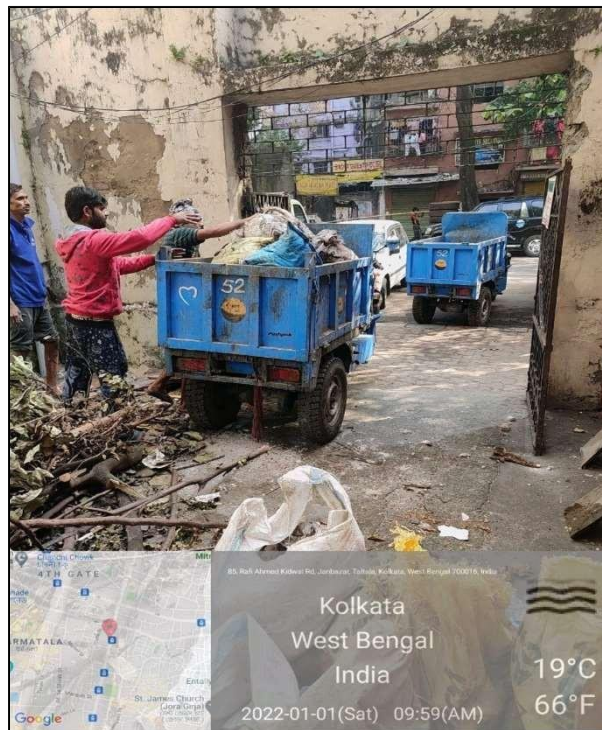


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4. Collection of daily solid wastes is regularly done by KMC (Kolkata Metropolitan Corporation) from the College campus ensuring proper disposal.

The college campus maintains a clean and sanitary environment through regular collection of daily solid wastes by KMC (Kolkata Metropolitan Corporation), ensuring proper disposal and promoting a healthy and sustainable environment for students, staff, and the community.



Collection of solid wastes at the college campus by KMC


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5. Ethical disposal and diversion of segregated wastes with recyclers are regularly done by the College

- **Hulladek (e-wastes),**
- **Vital waste (dry wastes , e-wastes and hazardous wastes)**
- **Garbage Free India (GFI) (compostable wastes)**



Contract with Hulladek for E-waste management



Garbage collection by Vital Waste from the College building



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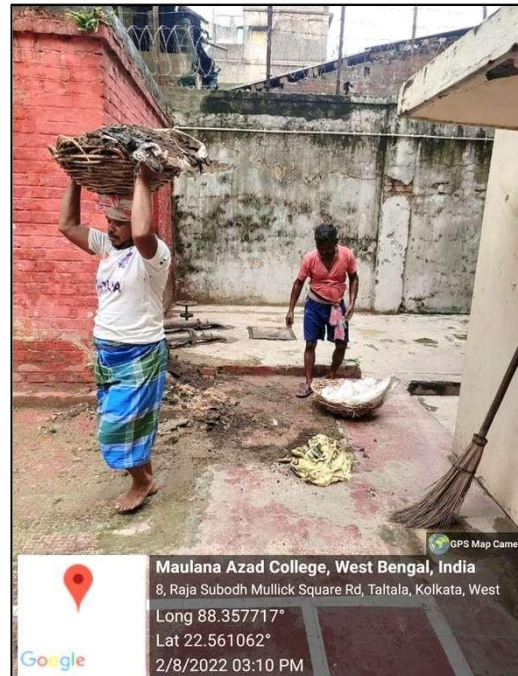


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6. Collection of construction debris done by Public Works Department (PWD) from college campus

The Public Works Department (PWD) regularly collects construction debris from the college campus to maintain a safe and clean environment for students and staff, and to prevent potential hazards and environmental pollution.



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Construction debris collection by PWD staff from the College campus



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7. Regular maintenance and clearance of the drainage systems are performed

The college undertakes regular clearance of drainage systems to safeguard against waterborne diseases, prevent clogging, and uphold a healthy, hygienic and safe campus ecosystem.



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Drain clearance and maintenance within College campus

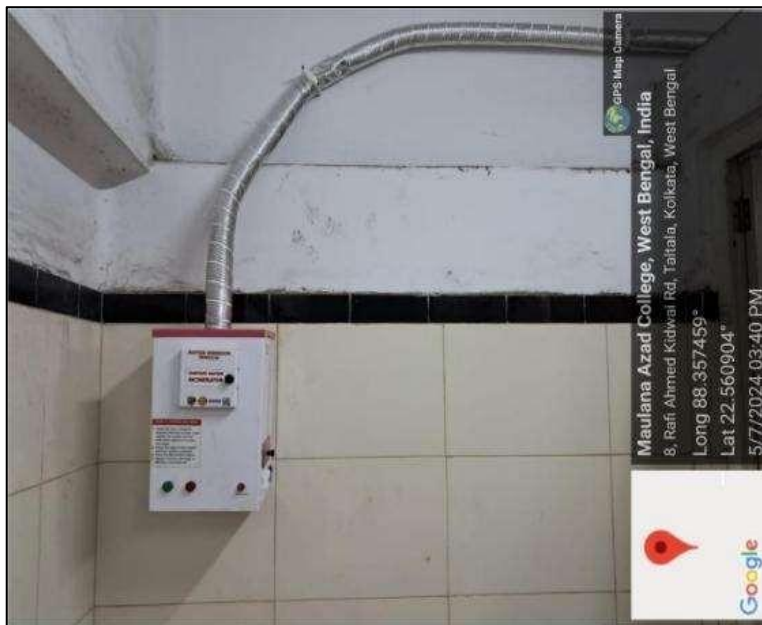


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8. Sanitary napkins are disposed of by burning them with the help of incinerators. These machines are installed inside the girls' common room in the college as well as the girls' hostel. The smoke from the incinerator is properly vented through designated pipes.



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Incinerator for disposal of sanitary waste



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9. Organic waste composting facility within the College campus

The college has implemented an organic waste composting system on campus in association with GFI (Garbage Free India) and Daily dump to process kitchen waste, with the aim of reducing waste disposal costs and producing a valuable nutrient-rich fertilizer. The resulting compost will be collected by GFI to support eco-friendly horticultural practices.



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Organic waste composting unit procured from Daily dump processing The liquid compost being collected after 21 days of The collected liquid compost stored in bottles to be collected by GFI



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10. Leaf composting / Pit composting facility within the College garden

The college has installed a leaf composting unit on campus (the latter in collaboration with GFI to convert organic garden waste into nutrient-rich fertilizer).



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Leaf composting / Pit composting facility in the College garden



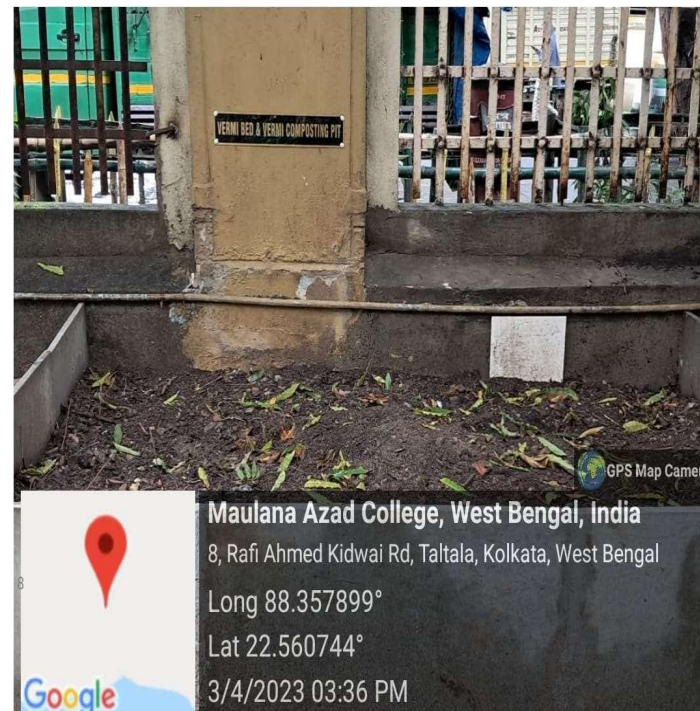
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10. Vermi-composting Pit facility within the College garden

The college has installed a vermi-composting pit inn campus to convert organic garden waste into nutrient-rich fertilizer.



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Vermi-composting Pit & Leaf composting / Pit composting facility in the College garden



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11. Plastic recycle bank installed within College campus

The college has installed a plastic recycling bank to address the challenge of low-value plastic waste, promoting sustainable waste management practices and encouraging students and staff to recycle and reduce plastic waste to minimize environmental impact.



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Plastic recycle bank for low value plastics installed at the College building entrance



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12. College Campus Cleaning Drive under Swachh Bharat Mission

Organized by National Service Scheme (NSS) Unit & Internal Quality Control Assurance Cell (IQAC),
Maulana Azad College, Kolkata on 4th January, 2019.



Some photos of the above-mentioned event

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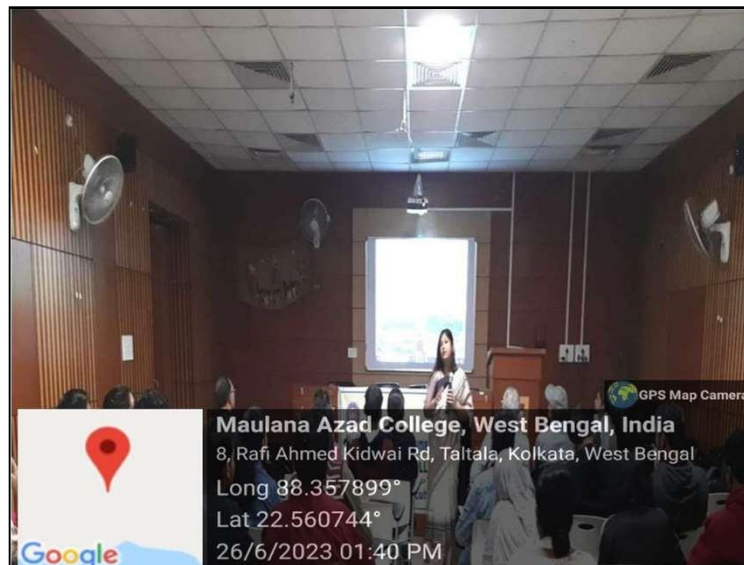


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13. Seminars and hands-on training sessions by GFI to train about proper waste management

Hands-on training provided to the housekeeping staff, students and faculties on source segregation in collaboration with Garbage Free India (GFI), knowledge partner (waste management at source and green initiatives) on 26-06-2023 at Seminar Hall of the College.



Some photos of the above-mentioned event


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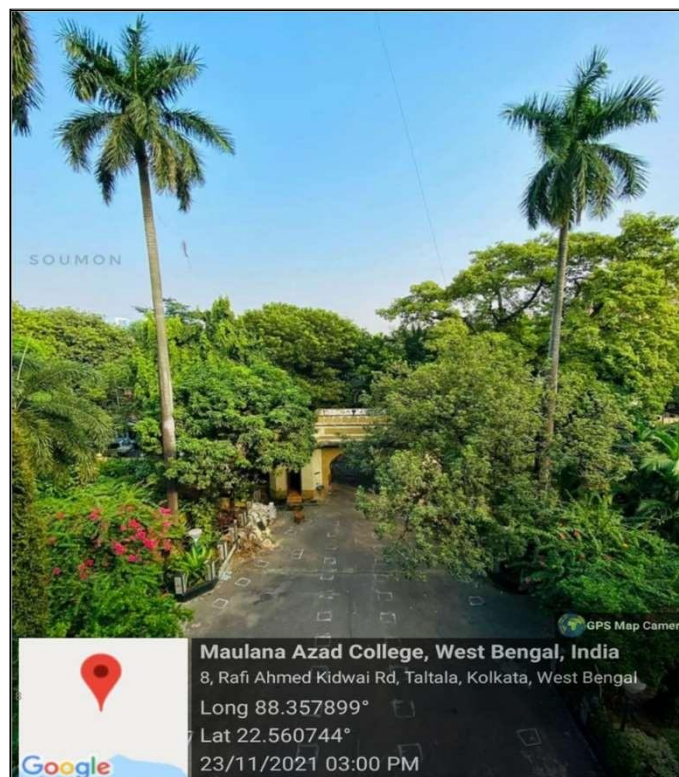
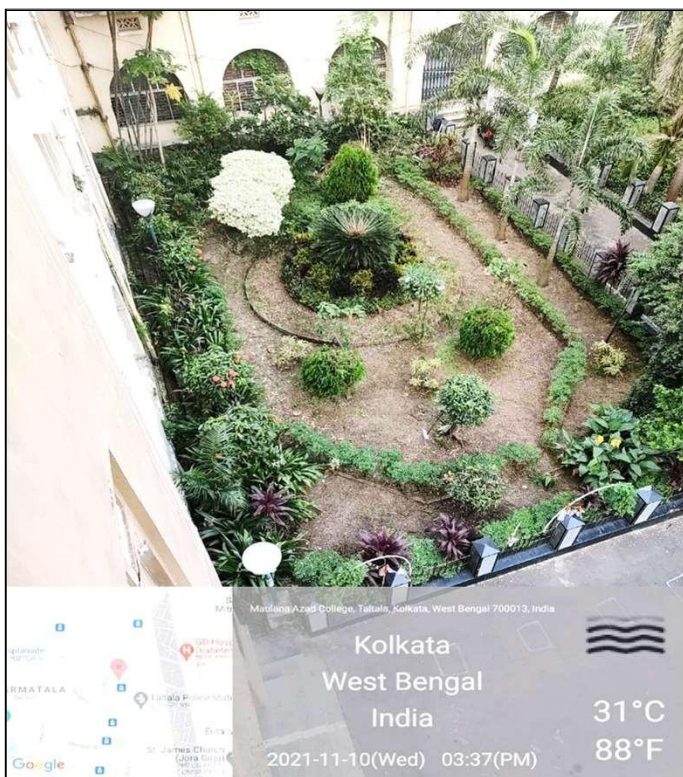


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Key Indicator - Green Campus initiatives

1. Regular maintenance of Greenery within the College premises

Maulana Azad College prioritizes a connection with nature, promoting sustainability and beauty through regular tree planting and gardening, creating a peaceful learning environment.



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Greenery within college premises

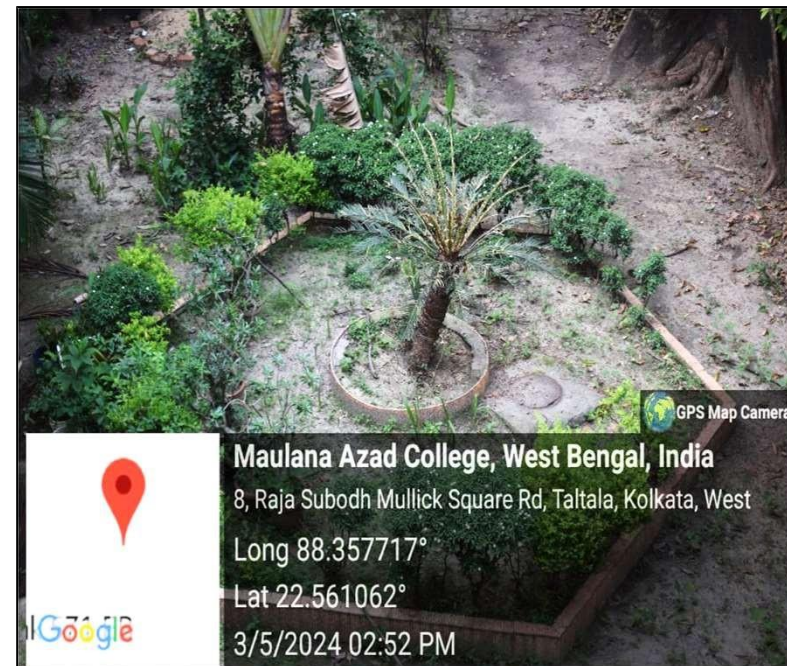
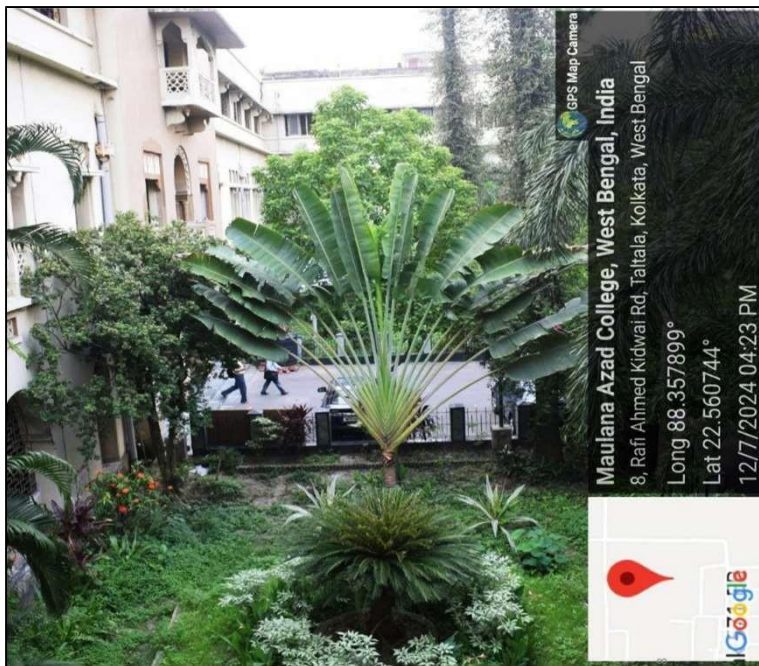


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- Some more greenery within the College premises



Greenery within college premises

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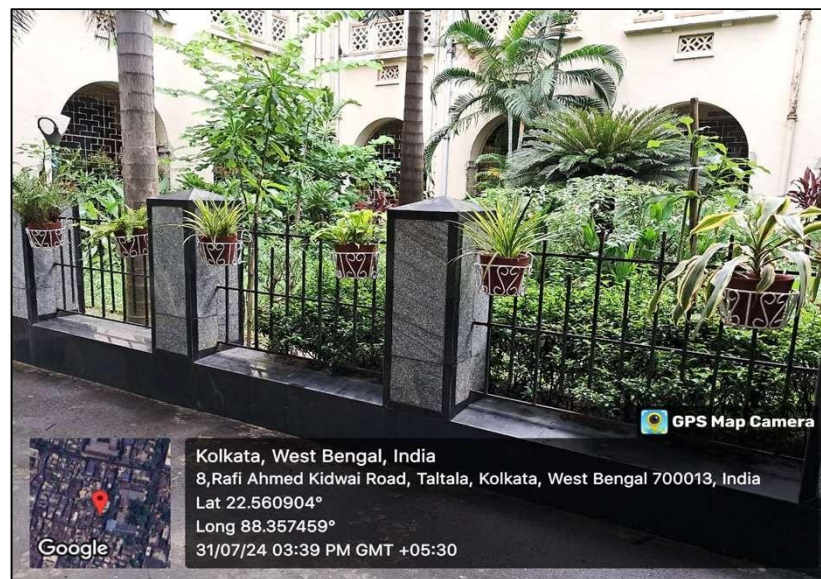
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Greenery within the College building along with raised garden and hanging garden

The college has enhanced its aesthetic appeal by setting up potted plants in all corridors, creating a beautiful and serene atmosphere. Furthermore, the college has established raised gardens within the building, strategically utilizing available space to promote sustainability and maintain a lush green environment.



**Potted indoor plant
along corridors**



Hanging garden within the college campus



**Raised garden within
the college campus**

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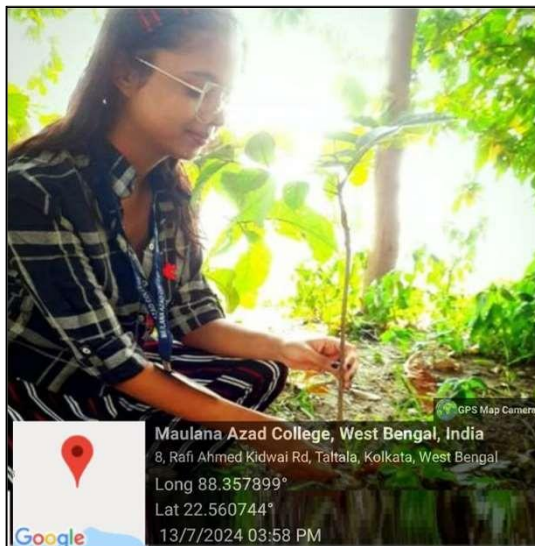
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2. Regular Tree Plantation drives taken up by the College in association with NSS unit

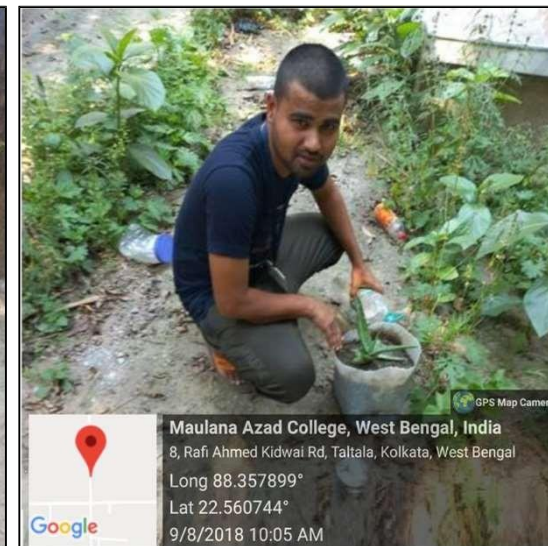
Students and teachers at Maulana Azad College come together to participate in regular tree plantation drives across the campus and hostels, fostering a sense of community and environmental responsibility, and contributing to a greener, more sustainable future.



**Sapling plantation by students
in College premises**



**Sapling plantation by students at
College Boys' Hostel**



**Sapling plantation by students
in College premises**

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3. The College has installed Advanced Air quality monitoring system within campus

Multiple Sensor Remote Sensing Air Quality and Air Noise Monitoring System (AQMS and ANMS) with LED Display Unit, installed by West Bengal Pollution control board (WBPCB) for Real-time air quality and noise level monitoring at college campus and adjacent area.



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Multiple Sensor Remote Sensing Air Quality and Air Noise Monitoring System (AQMS and ANMS) with LED Display Unit



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4. The college observes Briksharopon Utsav (Tree Plantation Festival) on 8th August every year
Maulana Azad College annually celebrates Briksharopon Utsav (Tree Plantation Festival) on August 8th, marking the occasion with a campus-wide tree plantation drive, promoting environmental stewardship and reinforcing its commitment to sustainability.



Sapling plantation by Principal Sir in College premises



Celebration of Briksharopon Utsav within College premises

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5. The college encouraged students to plant saplings at home during National Lockdown due to Covid19

Even during the National lockdown due to Covid19, Maulana Azad College continued to promote environmental sustainability by encouraging students to plant trees in their homes, fostering a sense of responsibility and community, and ensuring the pursuit of a greener future remained uninterrupted.



Students planting saplings at their residence


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6. The college meticulously maintains a medicinal plant garden

The college boasts a medicinal plant garden, meticulously maintained by the Botany Department, featuring a diverse collection of 142 plant species, of which 74 are medicinal herbs, providing a valuable resource for research, education, and promoting wellness.



Sample photos of some plants of the medicinal plant garden

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- Some more plants from the medicinal plant garden of the College



Sample photos of some plants of the medicinal plant garden

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7. The college maintains a KMC garden near its vicinity

The college demonstrates its commitment to community service through the upkeep of a community garden, owned by Kolkata Municipal Corporation (KMC) located nearby.



KMC garden near the college campus being maintained by Maulana Azad College

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8. The college observes World Environment Day to promote environmental awareness and sustainability

The college, in collaboration with its NSS unit, observes World Environment Day to promote environmental awareness and sustainability. As part of this initiative, NSS students distribute saplings to all, encouraging the adoption of eco-friendly practices, reducing carbon footprint, and fostering a culture of environmental responsibility among students, staff, and the wider community.



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World Environment Day observed by College students, faculties and NSS unit



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9. The College observes Aranya Saptaha from 14-20 July to promote environmental conservation and sustainability

The college, in collaboration with the Green Club of its NSS unit observes Aranya Saptaha (14-20 July) by planting trees and distributing saplings to promote environmental conservation, raise awareness, and inspire sustainable practices among students, staff, and the community.



Some photos of the above mentioned event

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10. The College and its NSS unit frequently organizes SPECIAL CAMPS for tree plantation in different suitable places of Kolkata

The College, in collaboration with its NSS unit, regularly organizes special tree plantation drives at various suitable locations in Kolkata, aiming to promote environmental sustainability, combat climate change, and contribute to a greener and healthier urban ecosystem for future generations.



Photos of one Special tree plantation camp at Newtown Area, Kolkata, West Bengal

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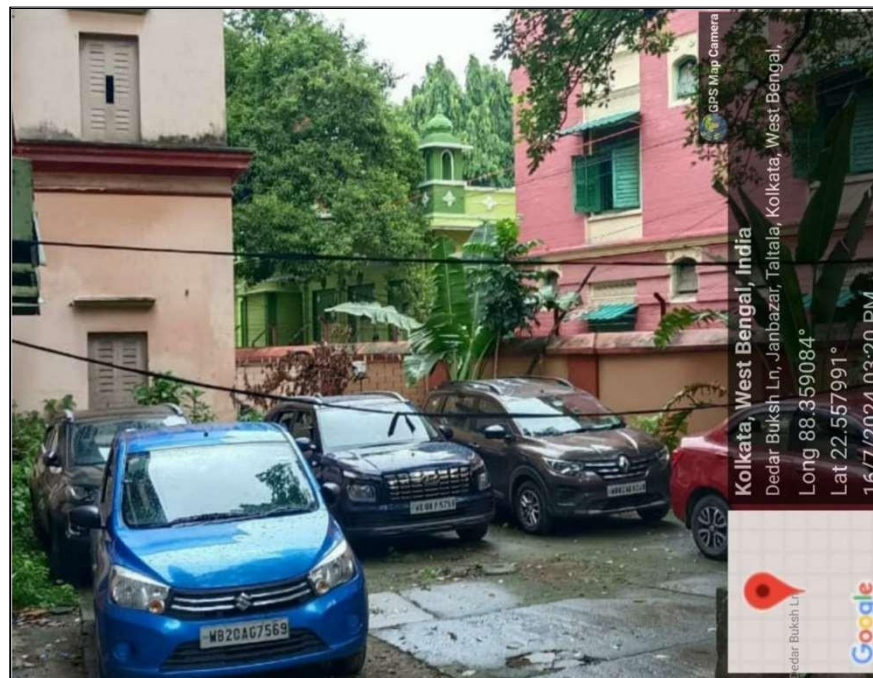
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11. The college has an alternative parking lot for chauffer vehicles to reduce campus pollution

Maulana Azad College has thoughtfully established an alternative parking lot outside its premises to reduce campus pollution and promote a cleaner environment, thereby contributing to a healthier and more sustainable educational space for its students and staff.



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Alternative parking lot for chauffer-driven cars outside college campus



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12. Posters put up throughout college campus to spread awareness about green campus and plastic free practices

To promote environmental sustainability and encourage eco-friendly habits, posters are strategically displayed throughout the college campus, raising awareness about the importance of maintaining a green campus and adopting plastic-free practices, inspiring students and staff to take action towards a more sustainable future.



Photos of some sample posters throughout the college campus to spread awareness on green campus maintenance


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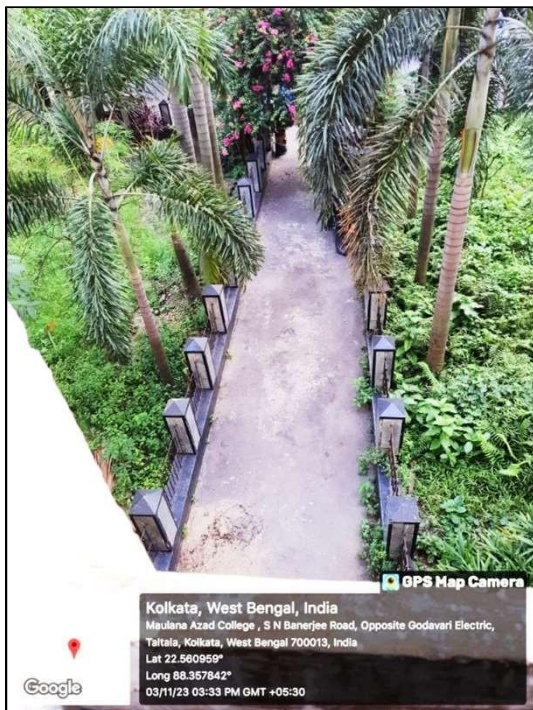
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13. The college has pedestrian-friendly paths for easy movement

The college boasts a pedestrian-friendly pathway designed to enhance ease of movement for students and faculty alike.



**Pedestrian-friendly pathway
near the car-parking area leading
to the college office and chamber
of the Principal**



**Pedestrian-friendly pathway
leading to Physics Department
from the car-parking area**

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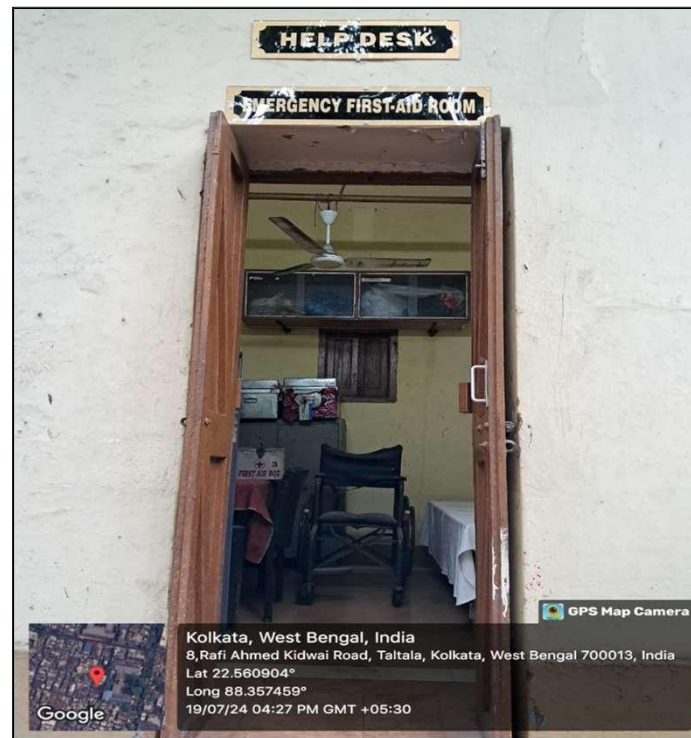


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Key Indicator - Divyangjan-friendly facilities, barrier-free environment

1. Helpdesk and emergency first aid room at college entry point

A dedicated helpdesk and emergency first aid room, equipped with a stretcher, wheelchairs, first aid box, and recliner, is strategically located at the college entry point to provide timely assistance and support to Divyangjan (persons with disabilities) and others in need, ensuring their safety, comfort, and accessibility.



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Helpdesk and emergency first aid room at college entry point



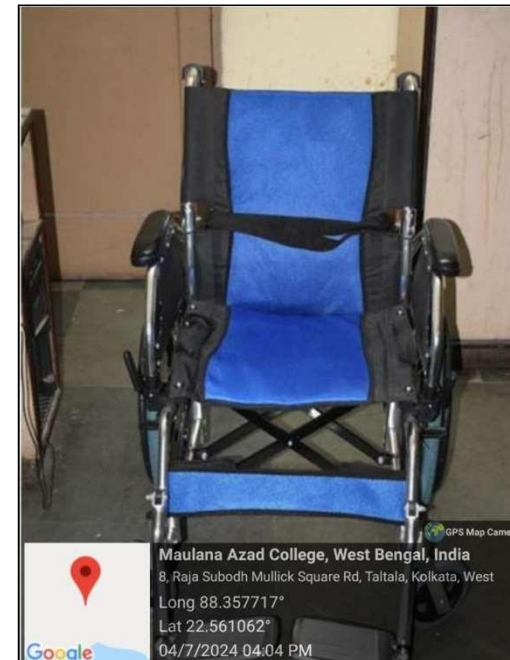
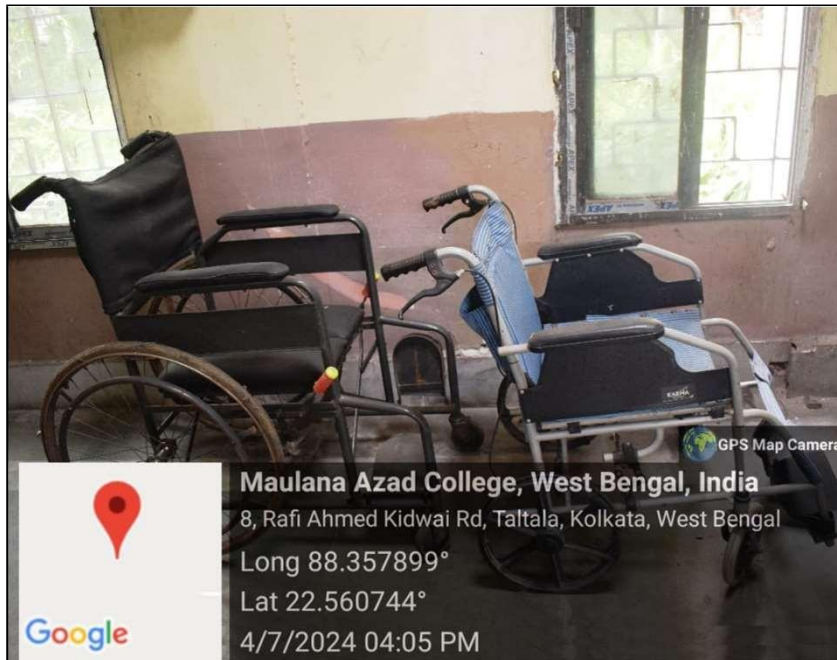
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2. Wheelchair facility is available at the college entry point.

The college provides a wheelchair facility at the entry point, ensuring easy accessibility and mobility for Divyangjan students, facilitating their seamless entry and navigation within the campus, and promoting their overall comfort and participation in academic activities.



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Wheelchair facility for Divyangjan students New wheelchair donated by Indian Bank



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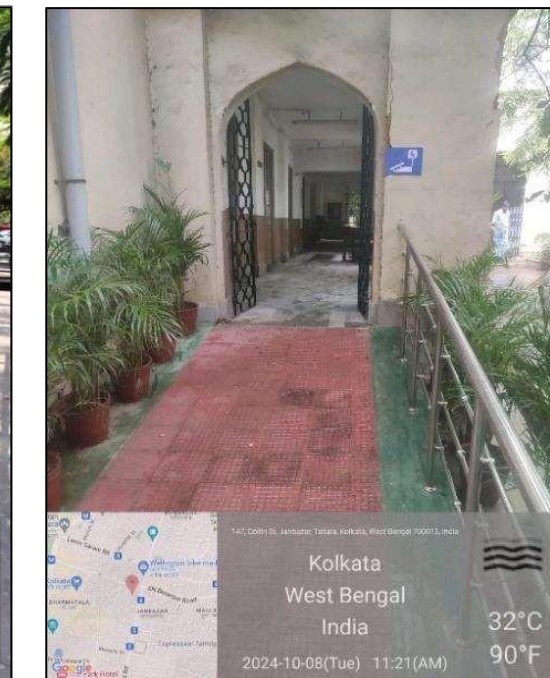
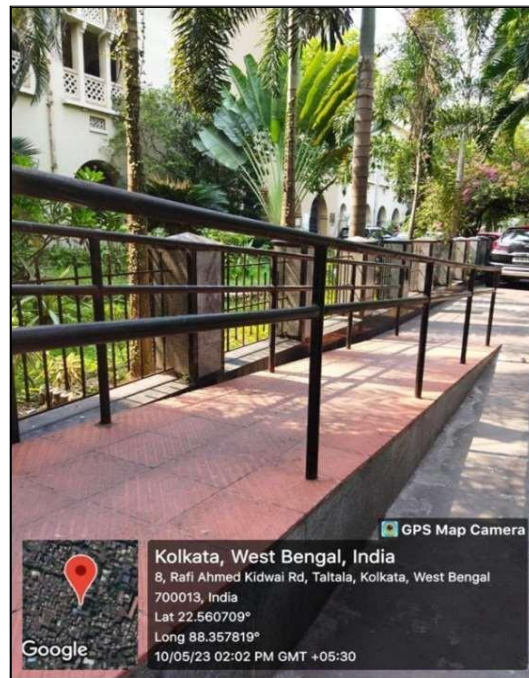
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3. Ramp and Rail facility available for easy movement of Divyangjan students

The college has installed ramps with tactile path, handrails and proper signage on the ground floor, providing a safe and accessible pathway for Divyangjan students to move around effortlessly, promoting their independence, mobility, and inclusivity in the educational environment.



Ramp 1 with tactile path and rail leading to the college office and chamber of the Principal



Ramp 2 with tactile path and rail leading to College Hall at ground floor

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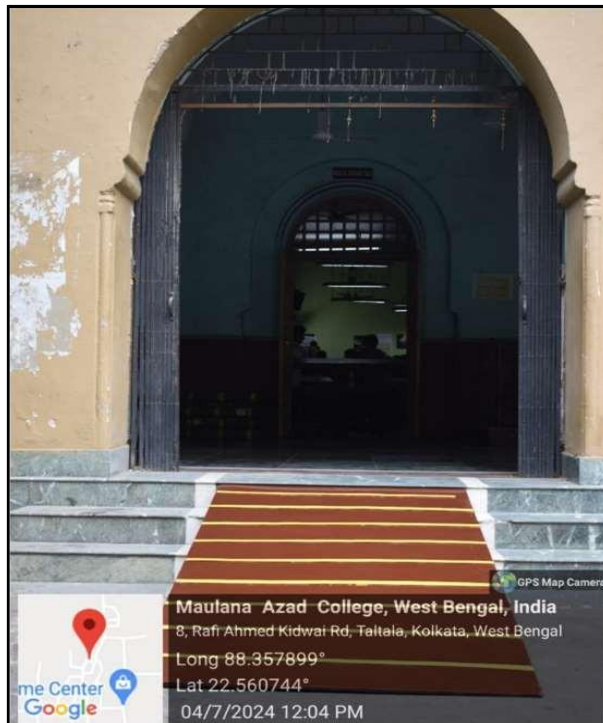
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- A **portable ramp** is available for occasional use elsewhere on campus, guaranteeing equal access to all facilities and resources for Divyangjan.
- Additionally, the college ensures accessibility and inclusivity for Divyangjan students residing in the **Women's Hostel**, providing ramps with rail facilities with proper signage for easy mobility.



Portable ramp for occasional use



**Ramp and rail at Maulana Azad College
Women Hostel**


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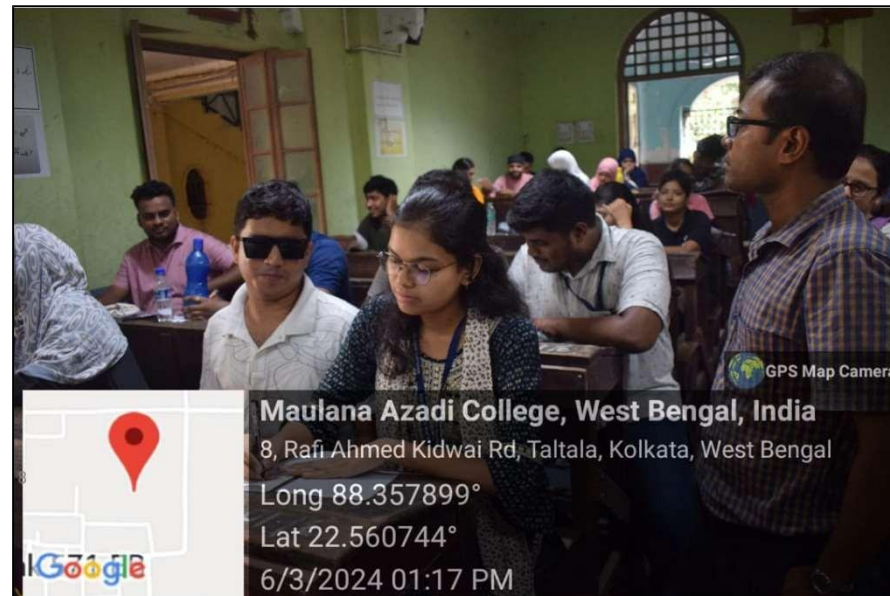
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4. The college provides Scribe assistance for visually impaired students wherever necessary

The college offers tailored support to empower Divyangjan students, providing specialized assistance such as scribe assistance for visually impaired students and personalized aid for form filling, aiming to bridge the accessibility gap and ensure their full participation and inclusion in academic activities, fostering a culture of equity and inclusivity.



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Scribe assistance for Divyangjan student in examination hall



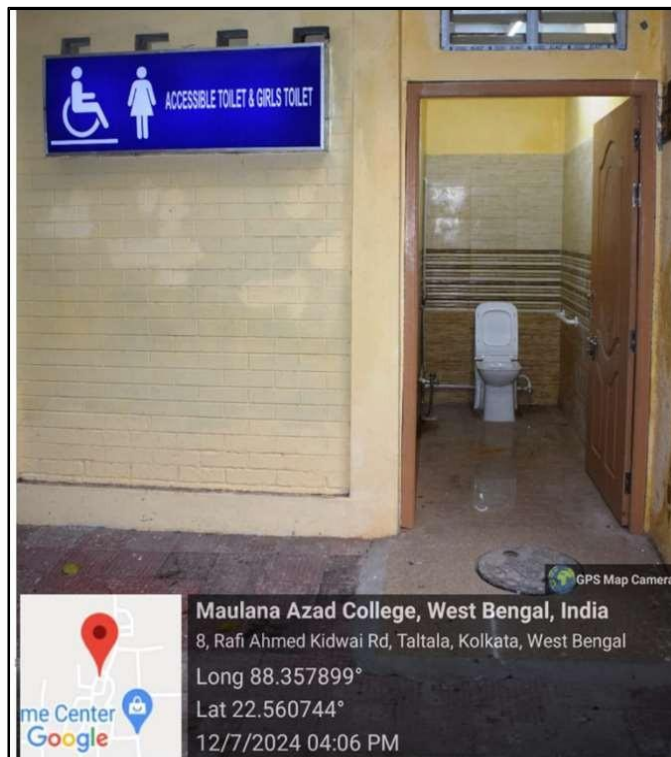
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5. The College has Accessible Toilets with prominent Signage:

The college has constructed accessible toilets with prominent signage for both male and female students with disabilities on the ground floor, ensuring equal access to hygiene facilities fostering a culture of inclusivity and dignity, and enabling students with disabilities to navigate the campus with ease and independence.



Accessible toilet for female students



Accessible toilet for male students

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6. The College has Accessible Toilets with prominent Signage and railing support:

The college has constructed accessible toilets with prominent signage for both male and female students with disabilities on the ground floor. These toilets have railings on the walls to provide support to the Divyangjan users.



Accessible toilet with railings for support

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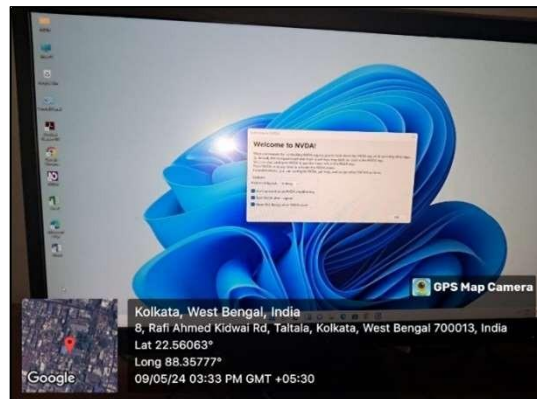
8, RAFI AHMED KIDWAI ROAD, KOLKATA 700013, INDIA
Phone: 033 2249-3737/ 2226-7814 e-mail : maulanaazadcollegekolkata@gmail.com

7. The College has a dedicated Divyangjan cubicle in the Central Library

The Central Library features a specially designed Divyangjan cubicle equipped with assistive technologies such as NVDA software and Braille software, providing a quiet, accessible, and inclusive space for students with disabilities to study and research with ease. This dedicated space enables students with visual impairments to access information and resources independently, promoting academic equality and empowerment.



**Divyangjan cubicle in Central
Library of College**



**Divyangjan Cubicle in Central Library
with screen reading software installed in the CPU**

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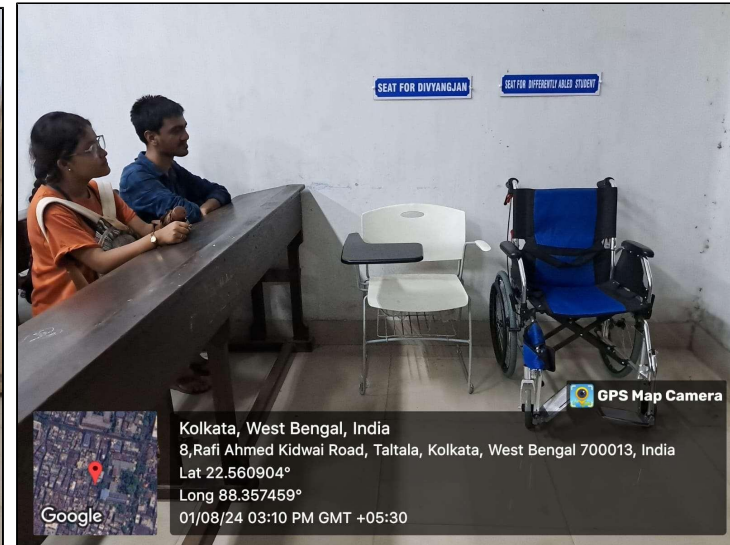


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8. The college has two dedicated classroom for Divyangjan students with accessible sitting arrangements

The college has a specialized classroom in the ground floor for Divyangjan students, designed for accessibility and inclusivity, with adapted desks and seating arrangements to ensure comfort and full participation in academic activities, promoting equal opportunities and inclusivity.



Comfortable sitting arrangement for Divyangjan students in the classrooms dedicated for them

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9. The college has proper signage for helping Divyangjan in the form of a poster at the main entrance. It has a dedicated phone number for seeking wheelchair assistance.



Principal
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Videos of facilities in the institution:

Video of accessible toilets for Divyanjan

<https://youtu.be/W2eqBfMfHys>

Video of Green Campus

<https://youtu.be/ZDFxQANpymQ>

Video of motion-sensor based LED light

<https://youtube.com/shorts/2uMolkfds5M?feature=share>

Video of motion-sensor based compound light

<https://youtube.com/shorts/Rv91Q6ZgY8A?feature=share>

Video of motion-sensor based LED light in college Seminar Room

<https://youtube.com/shorts/RMjBUUz1IZs?feature=share>

Video of motion-sensor based LED light outside Principal's Office

<https://youtube.com/shorts/XglwAsWeMBk?feature=share>

Video of timer-based garden light

<https://youtu.be/RmdCoQhpaNk>