



GOVERNMENT OF WEST BENGAL
OFFICE OF THE PRINCIPAL
Maulana Azad College

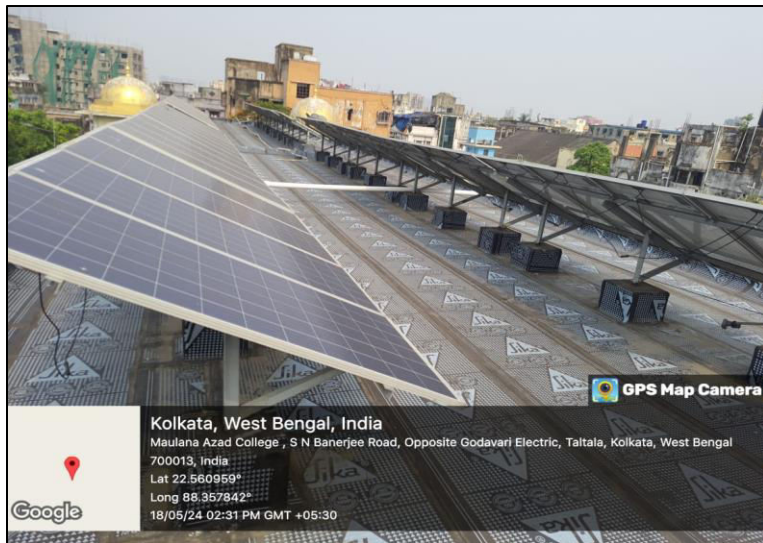


8, RAFI AHMED KIDWAI ROAD, KOLKATA 700013, INDIA
Phone: 033 2249-3737/2226-7814 e-mail: maulanaazadcollegekolkata@gmail.com
Website: <https://maulanaazadcollegekolkata.ac.in>

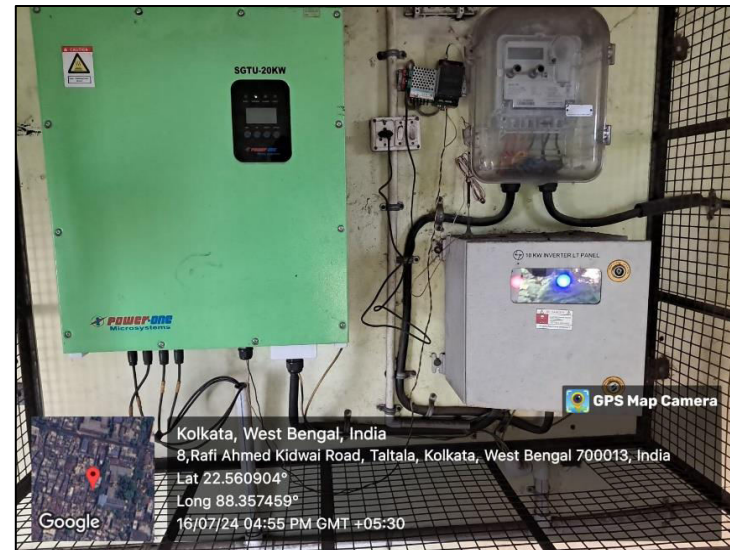
I. ALTERNATE SOURCES OF ENERGY AND ENERGY CONSERVATION MEASURES

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 & Networked Energy Services’ (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

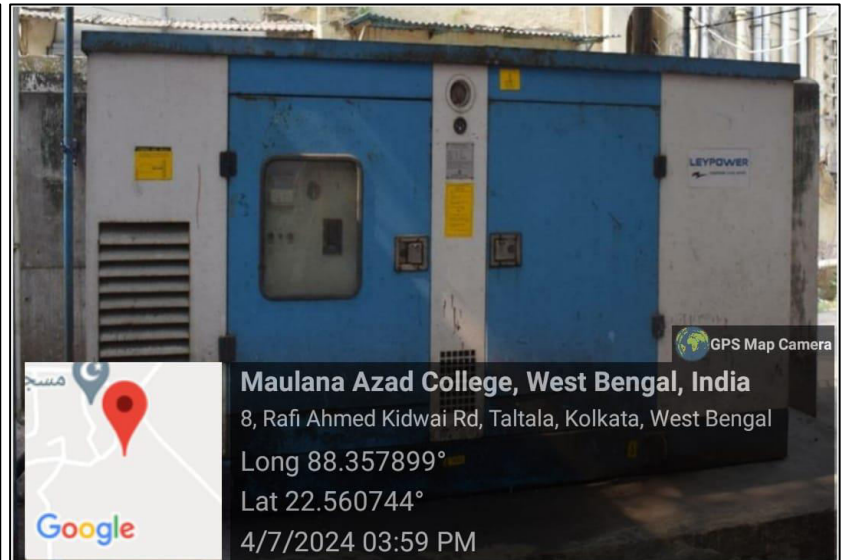
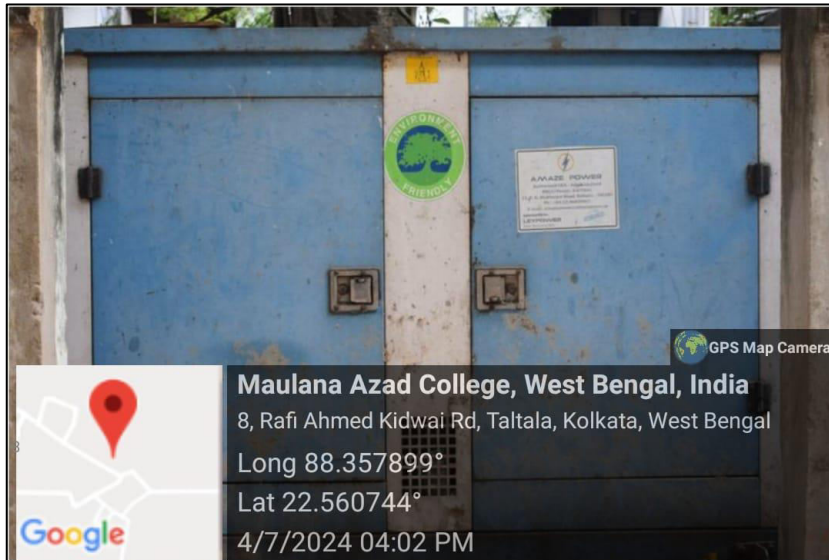


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2. Green Generator of 125 KVA capacity (Ashok Leyland make) has been installed in college campus which combines renewable source of power with conventional fuel to supply power. It is used whenever necessary to reduce carbon emission output.



Green Generator Ashok Leyland make 125 KVA capacity



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II Energy conservation measures

1. The College uses LED lights exclusively

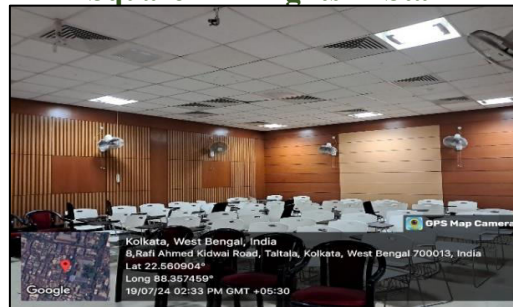
The college has switched to exclusive use of LED lights, aiming to reduce energy consumption, lower carbon emissions, and promote sustainable practices, contributing to a greener and more environmentally friendly campus.



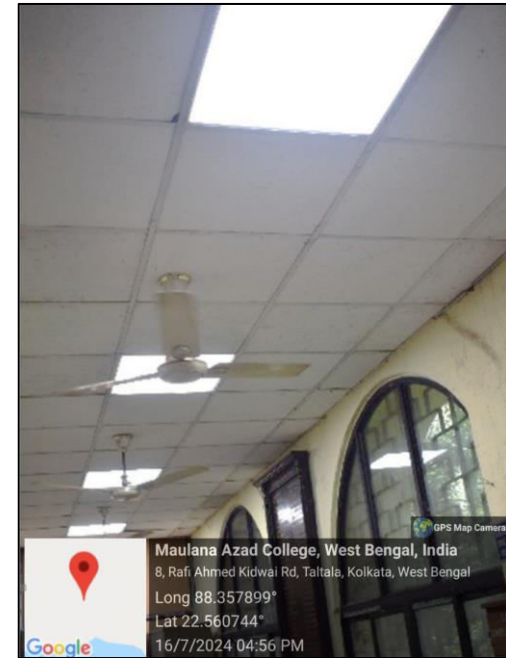
Sleek Square LED lights in Laboratory



Square LED lights in Staff



Sleek Square LED lights in Seminar hall



Sleek Square LED lights in corridor



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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



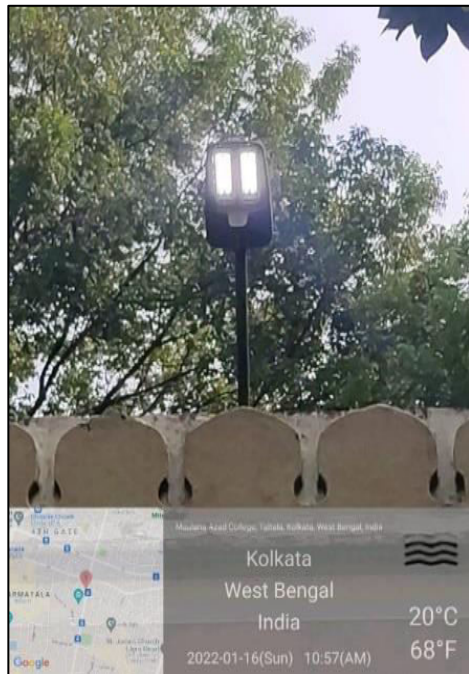
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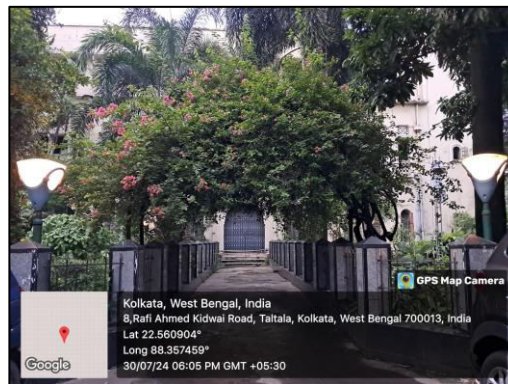
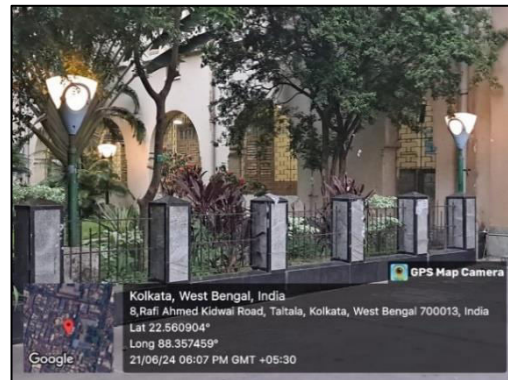
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2. Use of Timer controlled compound lights and garden lights

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



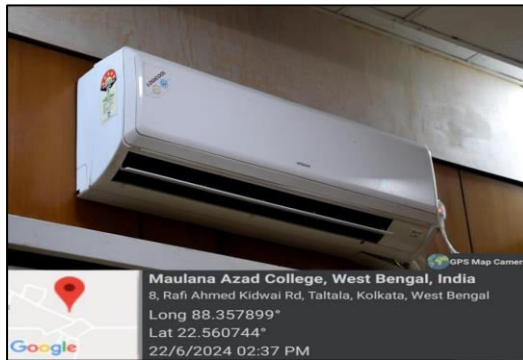
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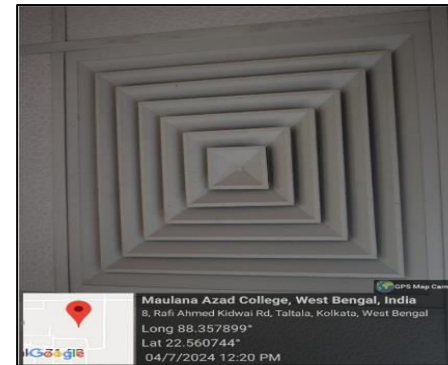
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3. Use of Power efficient equipment star-rated air-conditioners with timer in the College

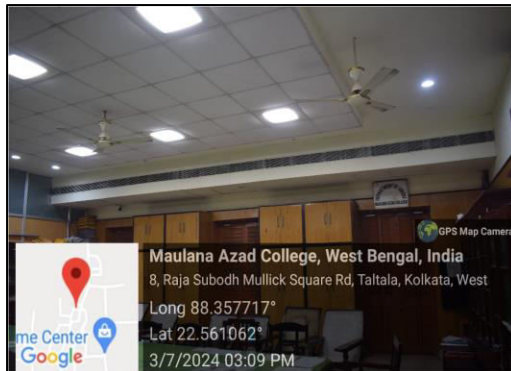
The College uses star-rated ACs with timers to optimize energy consumption, reduce waste, and lower carbon footprint, thus saving money and minimizing environmental impact.



5 star-rated AC of Principal's room



Cassette AC of Seminar hall



Concealed AC of Common staff room



Concealed AC of Chemistry laboratory



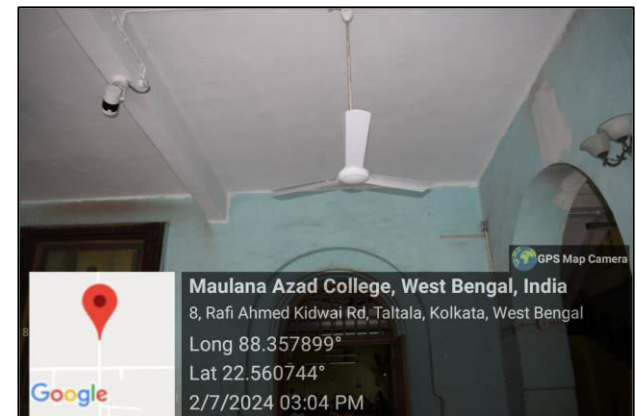
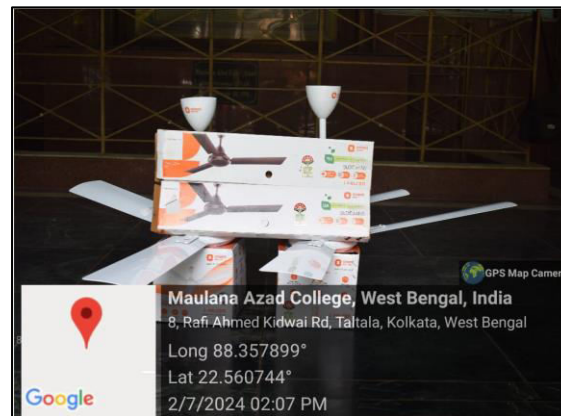
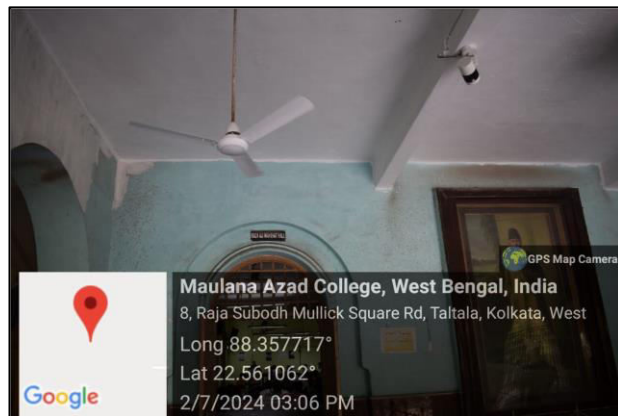
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4. BLDC fans installed at college lobby in front of portrait of Maulana Azad.

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

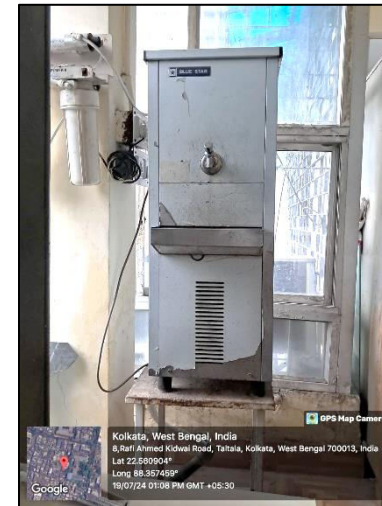
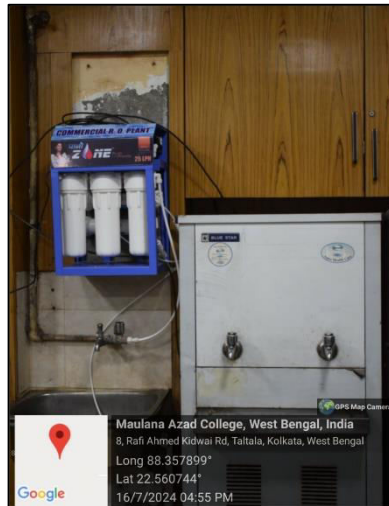


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6. Energy efficient water purifier-cum-cooler installed at different strategic places of the college building
Energy-efficient water purifier-cum-coolers were strategically installed throughout the college building to provide clean drinking water,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



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



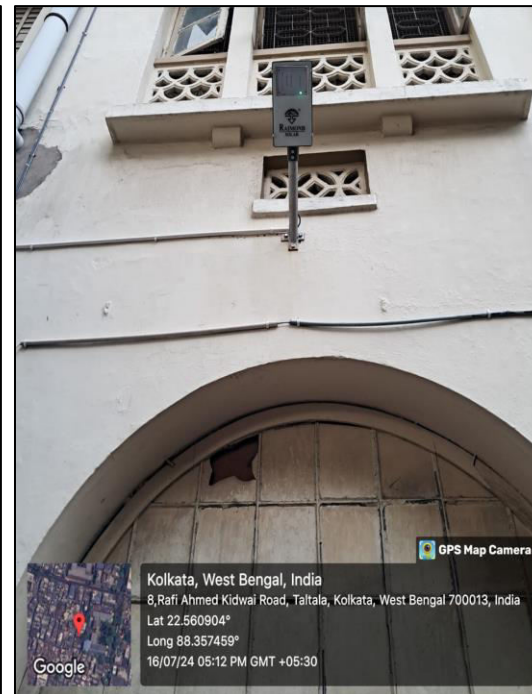
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7. Wall mounted Solar sensor based compound light installed in college backyard

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)



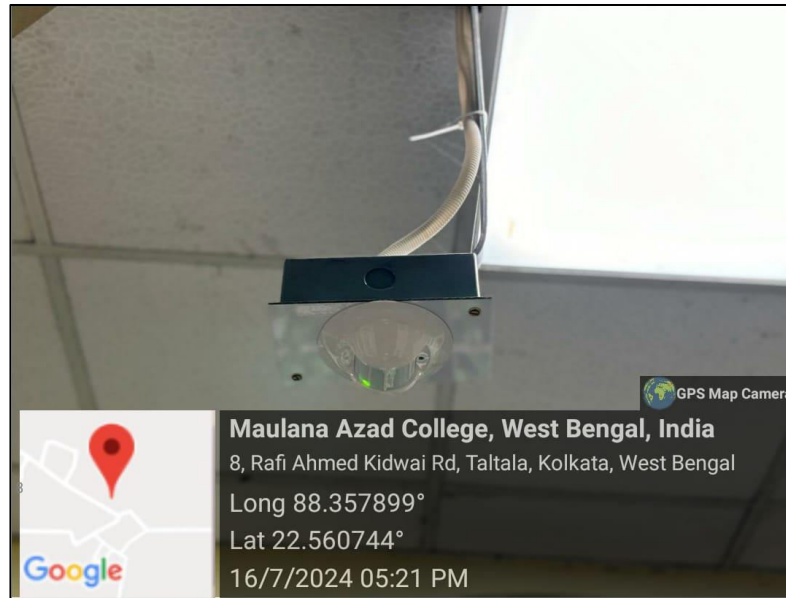
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8. Motion sensor-based lighting arrangements installed at strategic positions within the College building

College installs 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



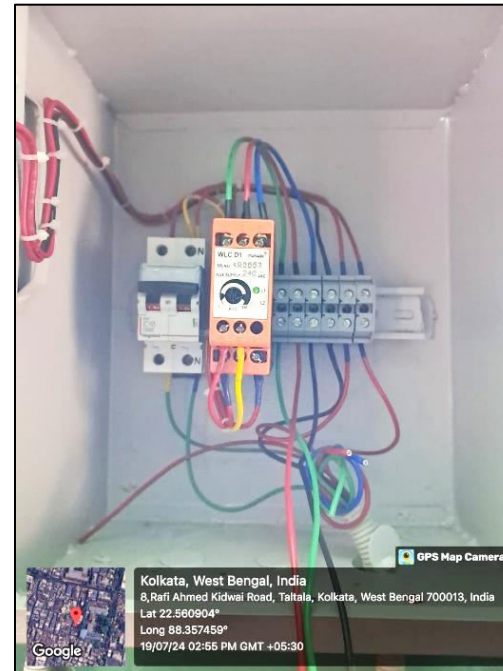
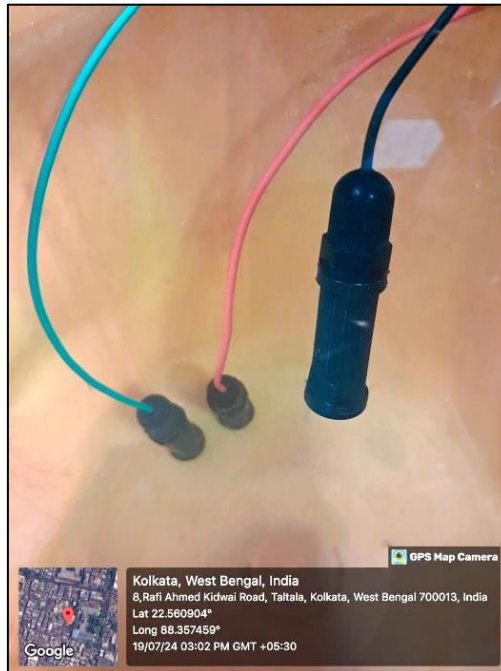
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9. Sensor based autocut pump motor set installed in water tank of College

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.



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

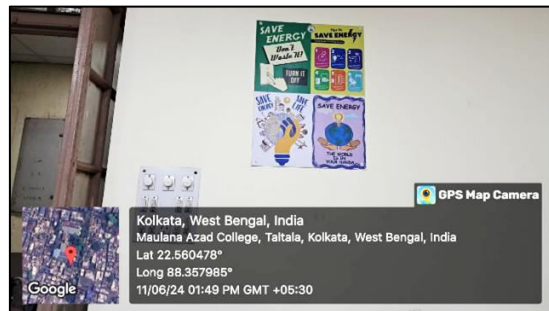
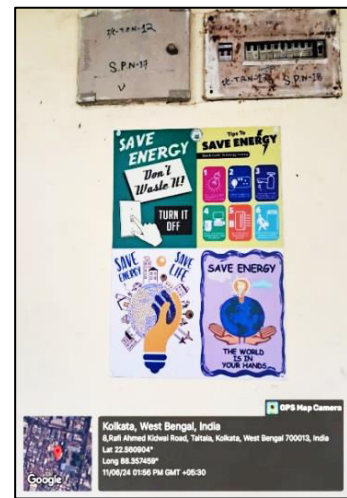


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10. Posters put up throughout college campus at strategic positions to make the students and other staffs aware about power saving
IEC (Information education and communication) posters throughout the college campus to educate and promote awareness among students, housekeeping staffs and faculties.



Representative photos of some Energy Conservation posters throughout the College building



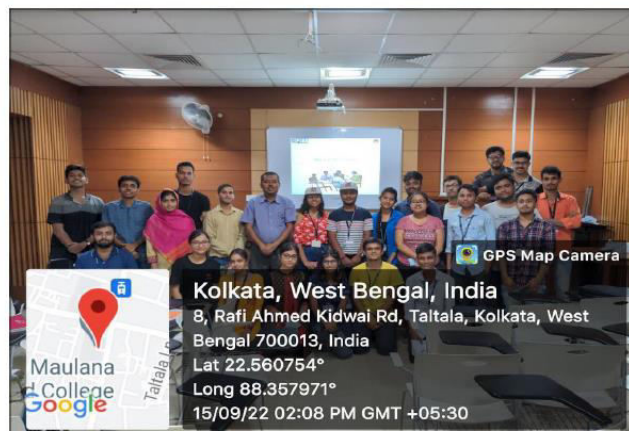
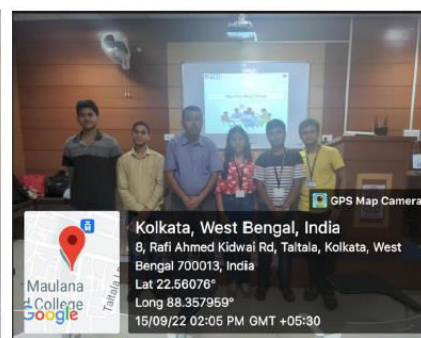
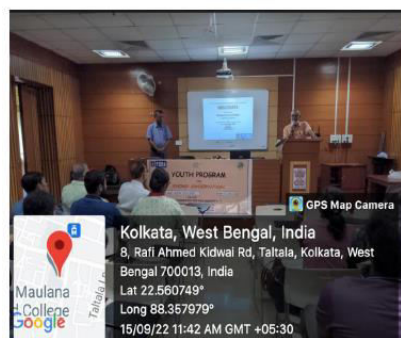
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11. The College conducts/hosts Energy conservation programs from time to time

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.



Some photos of the above mentioned event



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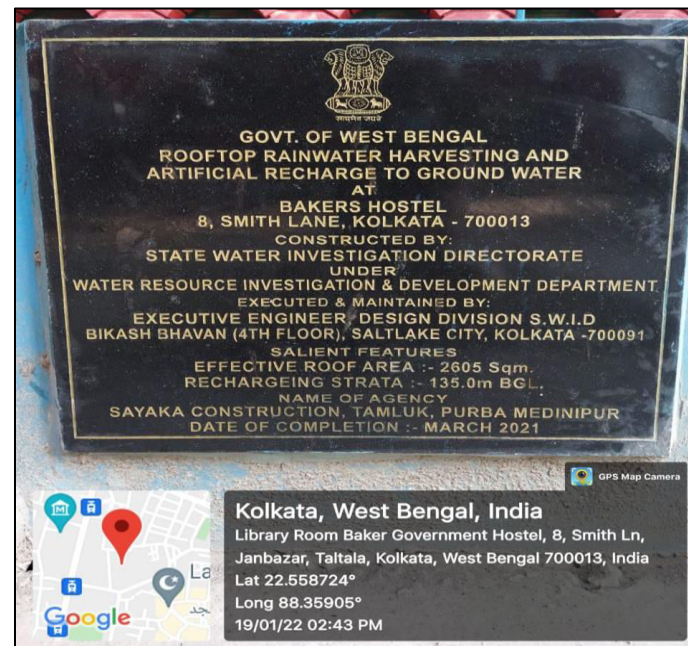
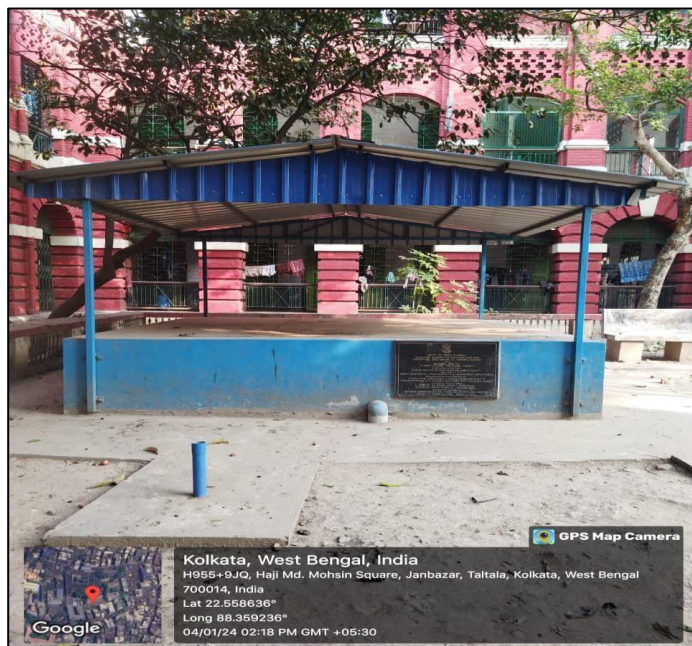


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Water conservation facilities available in the Institution

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 also installed a rainwater harvesting unit with artificial recharge to groundwater facility within the hostel premises.



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 rainwater harvesting tanks of 2000 litres capacity 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 unit 2 for rainwater storage and reuse



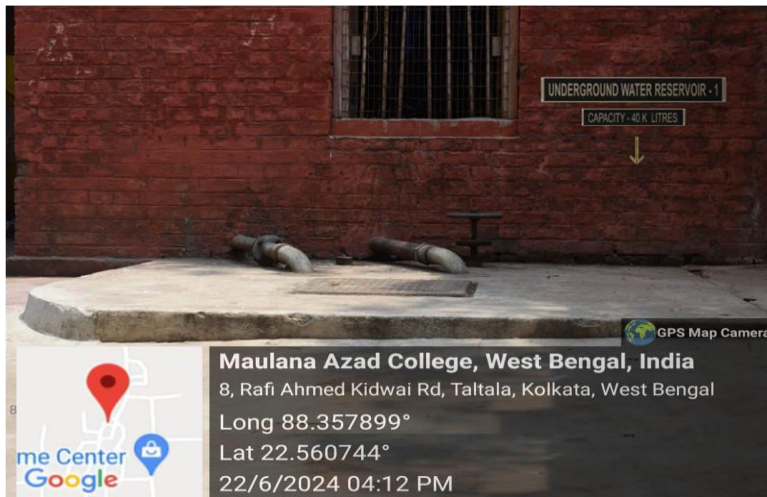
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3. Underground Water Reservoirs:

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)



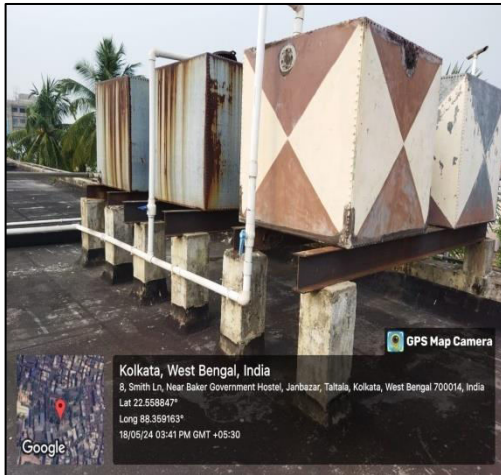
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4. Overhead Water Reservoirs:

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



Overhead water tanks in college rooftop



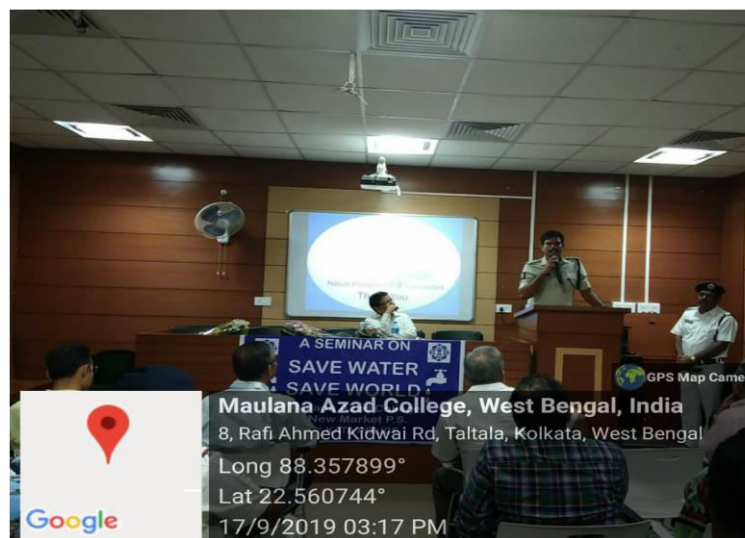
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5. College organizes seminars on water conservation awareness from time to time:

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

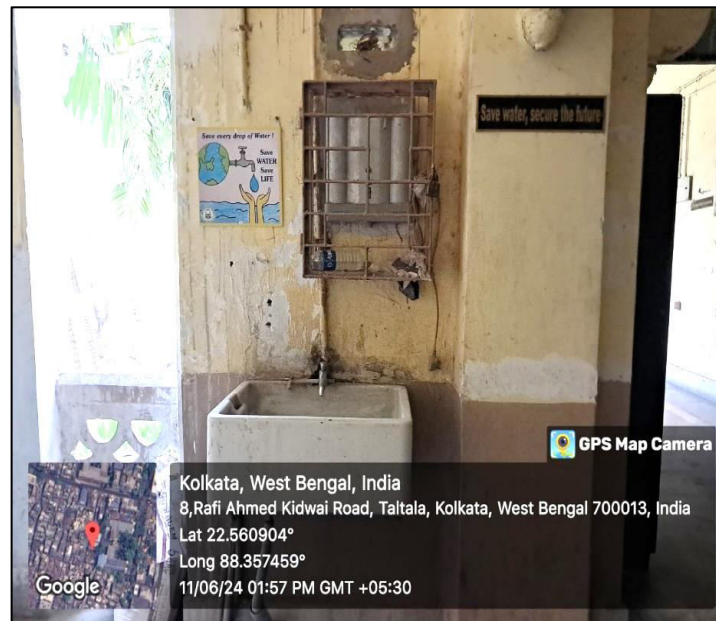
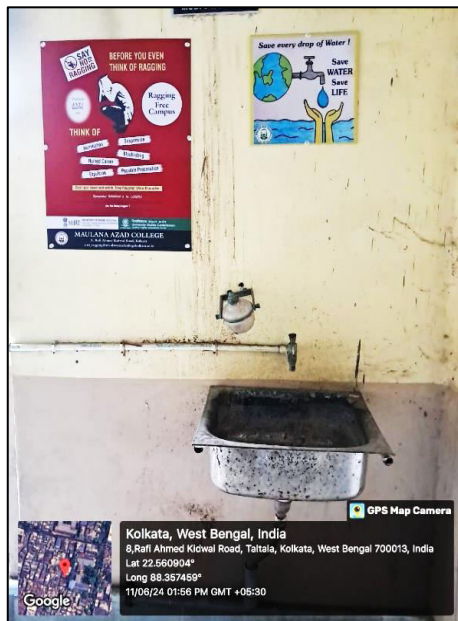


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6. Posters put up at strategic positions throughout college building to aware students about optimum water usage IEC (Information education and communication) posters throughout the college campus to educate and promote awareness among students, housekeeping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



Representative photos of the save water posters throughout college building



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7. 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.



Automatic sensor-controlled faucet within college building



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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 :

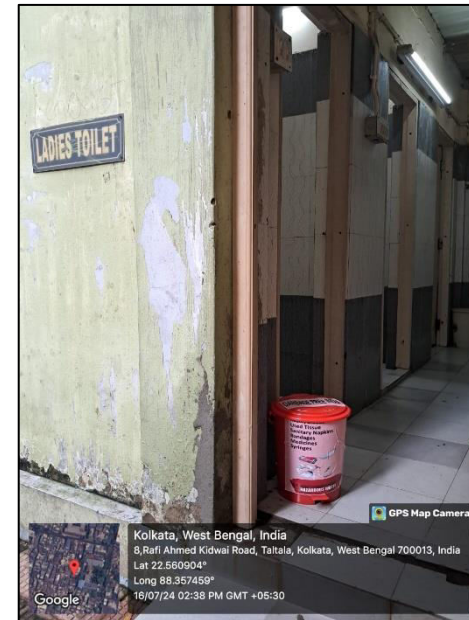
- Dry wastes(plastic, papers, e-wastes etc.) in **BLUE** bins
- Wet wastes (food, kitchen wastes, garden wastes etc.) in **GREEN** bins
- Hazardous wastes (Chemicals, medicines, toilet wastes etc.) in **RED** bins



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



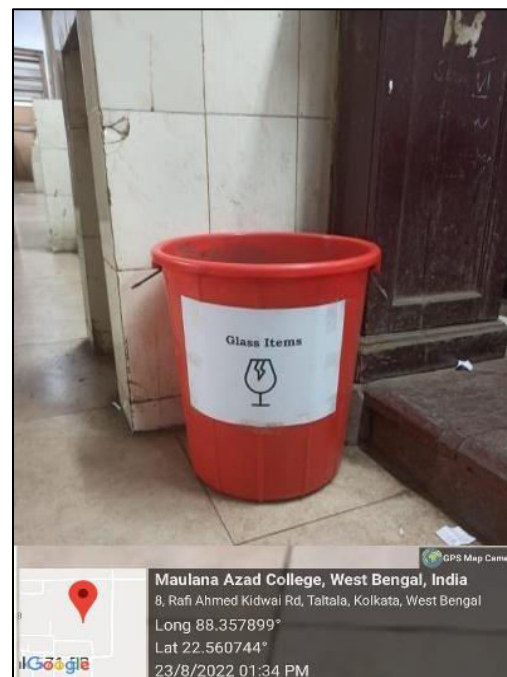
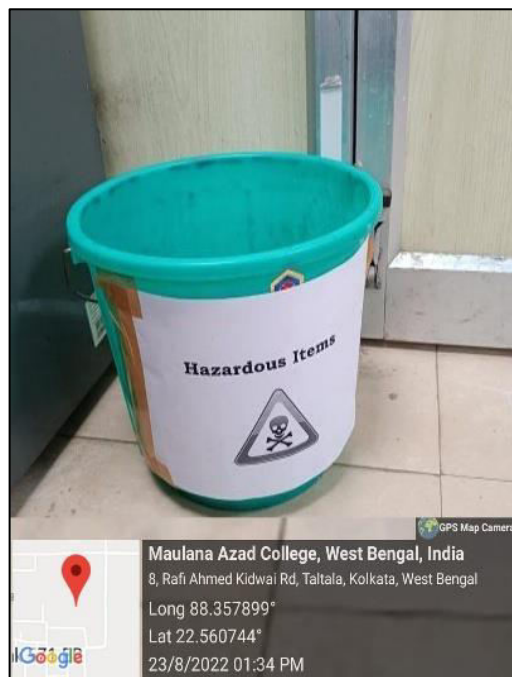
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2. Reuse and repurposing of old refurbished bins are promoted within college building

- 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

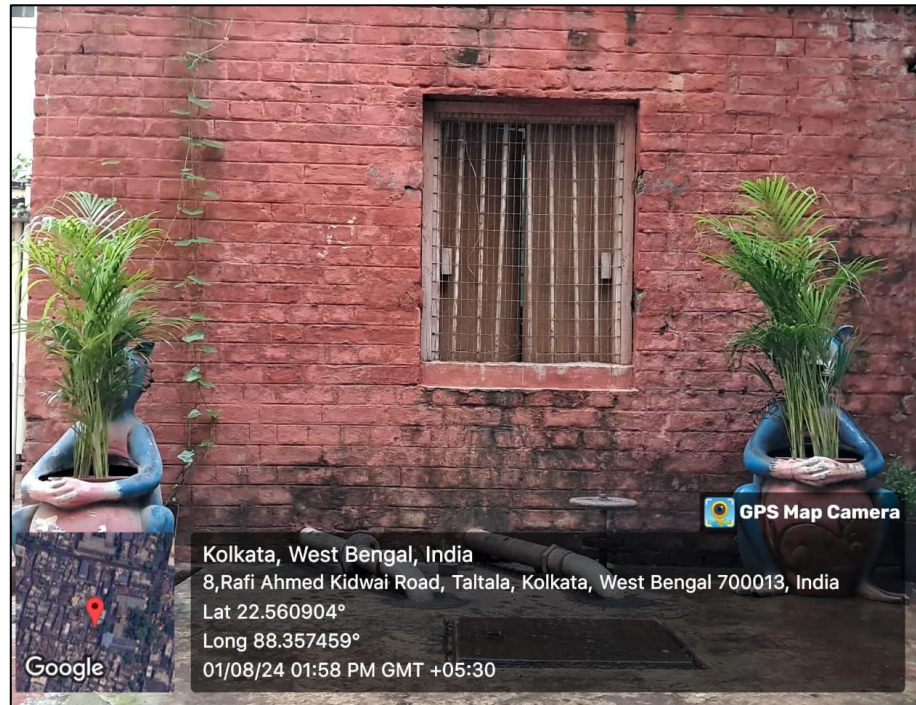


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- Refurbished bins are repurposed as planters for saplings.



Refurbished old bins are reused as planters for saplings



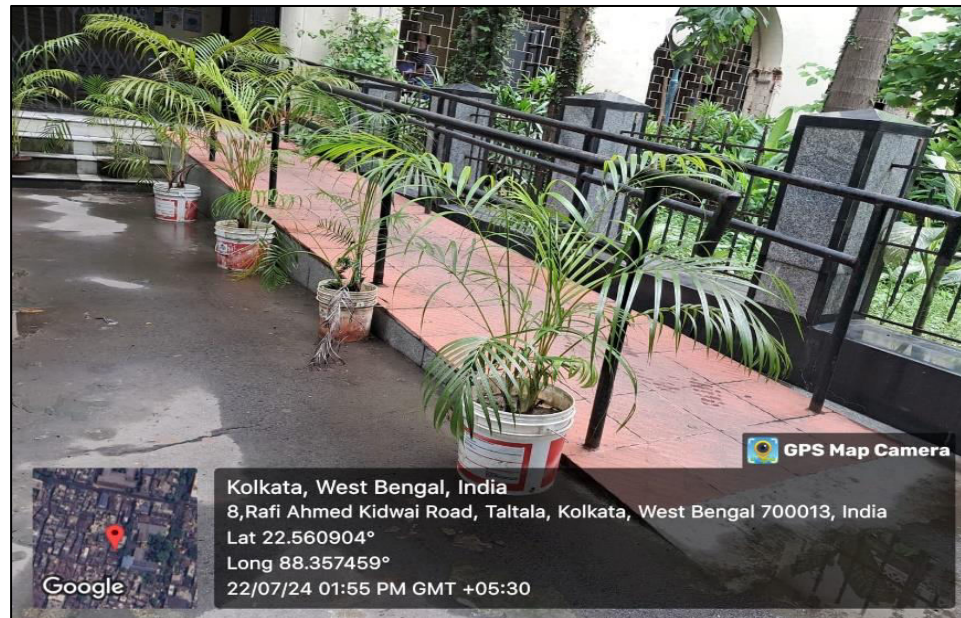
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3. The College promotes reuse of plastic buckets and containers as planters for saplings

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.



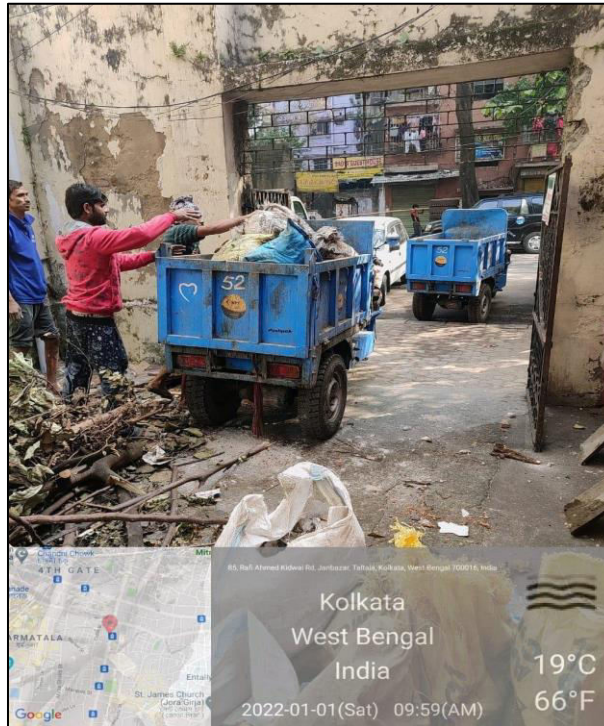
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Website: <https://maulanaazadcollegekolkata.ac.in>

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

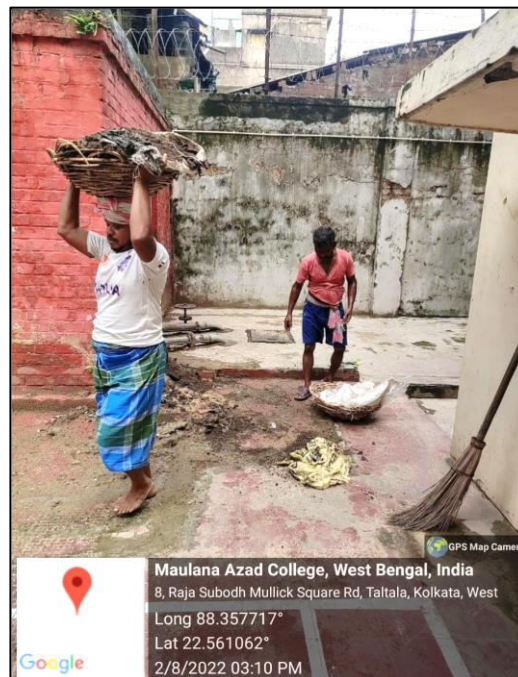


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6. Collection of construction debris done by Public Works Department (PWD) from college campus
The Public Works Department (PWD) regularly collects construction debris from the college campus to maintain a safe and clean environment for students and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



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.



Drain clearance and maintenance within College campus



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8. 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.



Organic waste composting unit procured from Daily dump

The liquid compost being collected after 21 days of processing

The collected liquid compost stored in bottles to be collected by GFI



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

The college has installed a leaf composting unit on campus in collaboration with GFI to convert organic garden waste into nutrient-rich fertilizer, promoting sustainable gardening practices and reducing waste disposal costs.



Leaf composting / Pit composting facility in the College garden



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10. 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.



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



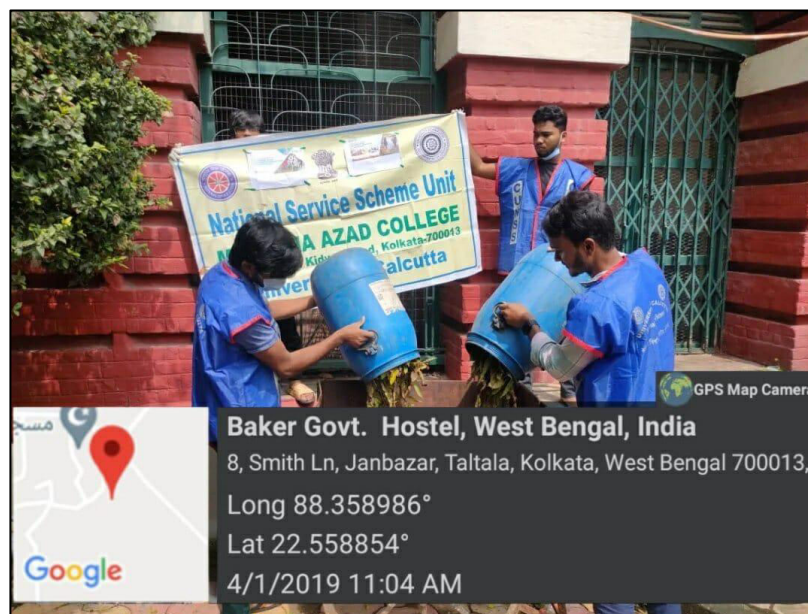
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11. College Campus Cleaning Drive under Swachh Bharat Mission

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



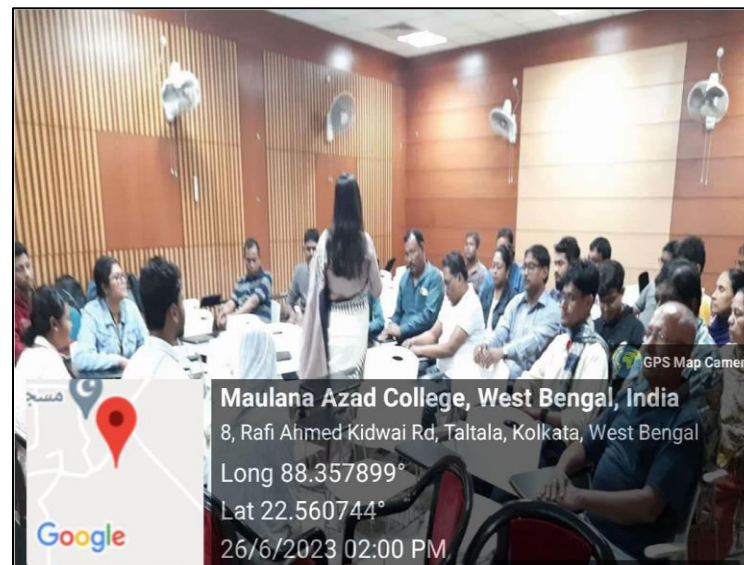
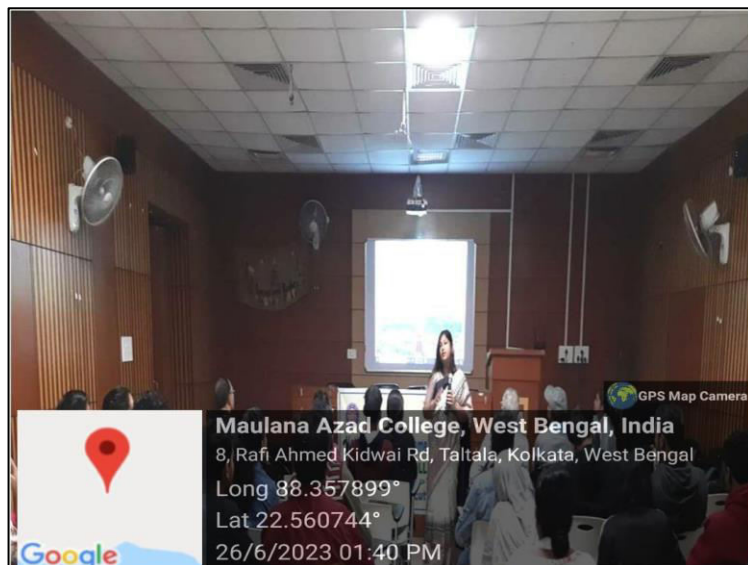
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12. Seminars and hands-on training sessions by GFI to train about proper waste management

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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11. Posters put up throughout college campus for visual awareness of different types of waste to ensure proper disposal
IEC (Information education and communication) posters throughout the college campus to educate and promote awareness among students, housekeeping staffs and faculties.

LET'S COME TOGETHER TO SEPARATE

WASTE	WASTE TYPE	RECYCLABILITY	WASTE	RECYCLABILITY	WASTE
	Paper	Recyclable		Plastic	Non-recyclable
	Glass	Recyclable		E-waste	Non-recyclable
	Metal	Recyclable		Hazardous waste	Non-recyclable
	Organic	Recyclable		Other	Non-recyclable

GPS Map Camera
Kolkata, West Bengal, India
8, Rafi Ahmed Kidwai Road, Taltala, Kolkata, West Bengal 700013, India
Lat 22.560904°
Long 88.357459°
11/06/24 01:56 PM GMT +05:30

KNOW YOUR WASTE

Keep your campus clean and green

GPS Map Camera
Kolkata, West Bengal, India
8, Rafi Ahmed Kidwai Road, Taltala, Kolkata, West Bengal 700013, India
Lat 22.560904°
Long 88.357459°
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Some sample posters in strategic positions throughout the College building to ensure proper waste disposal



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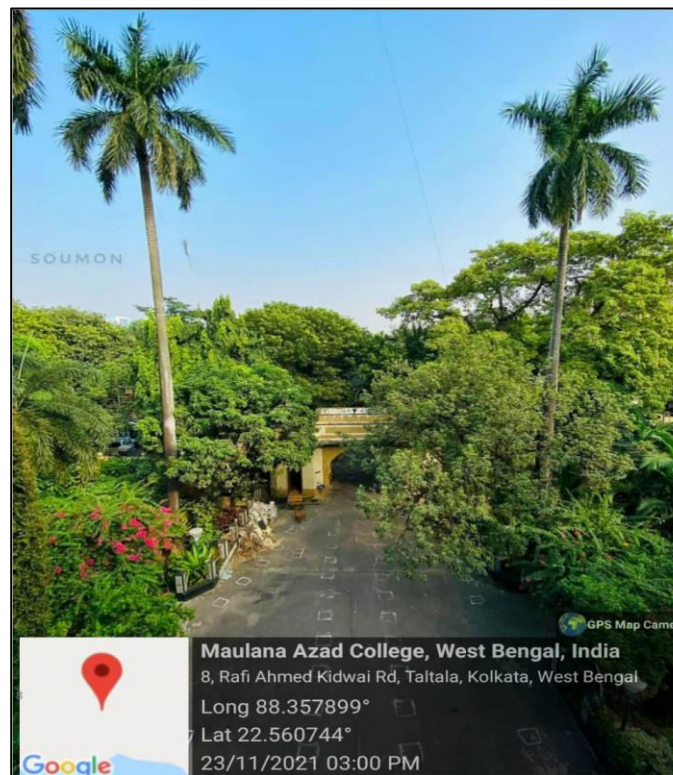
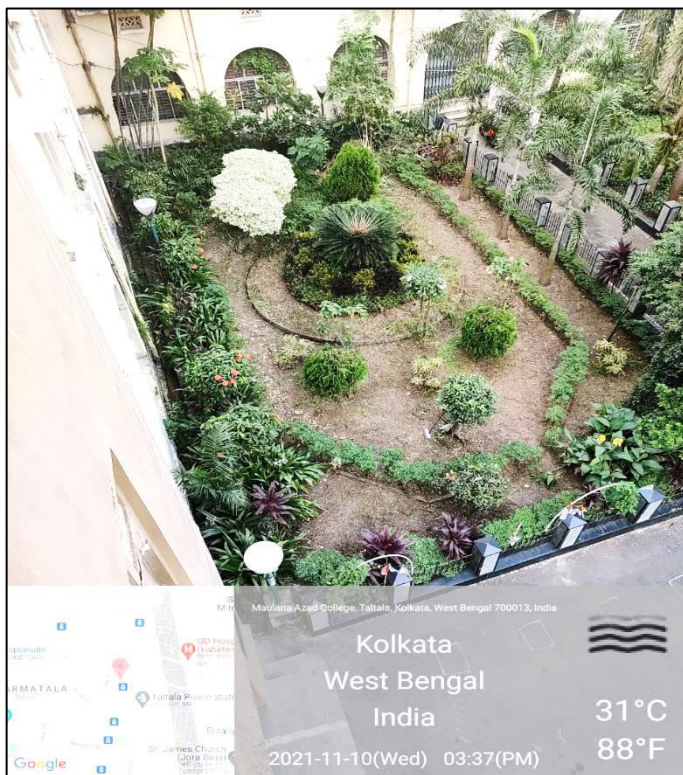


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Green Campus initiatives

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.



Greenery within college premises

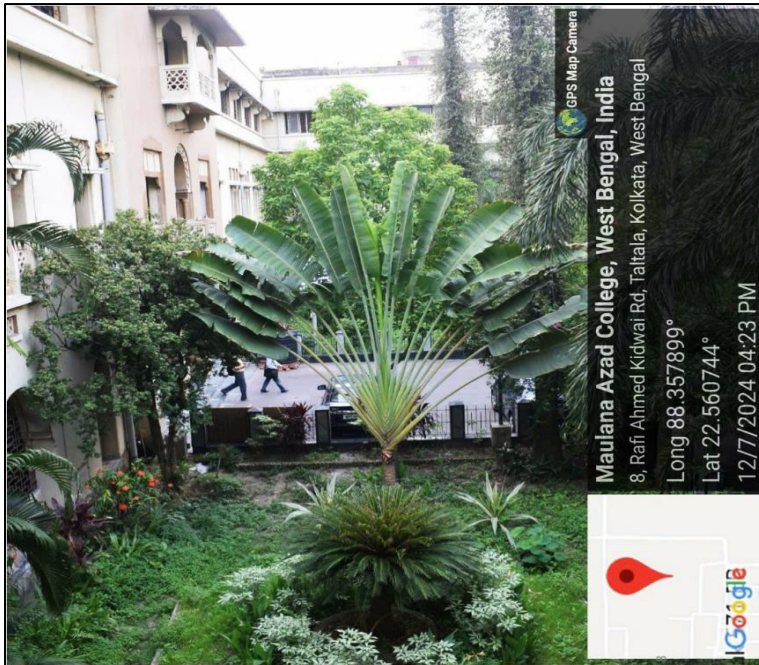


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- Some more greenery within the College premises



Greenery within college premises



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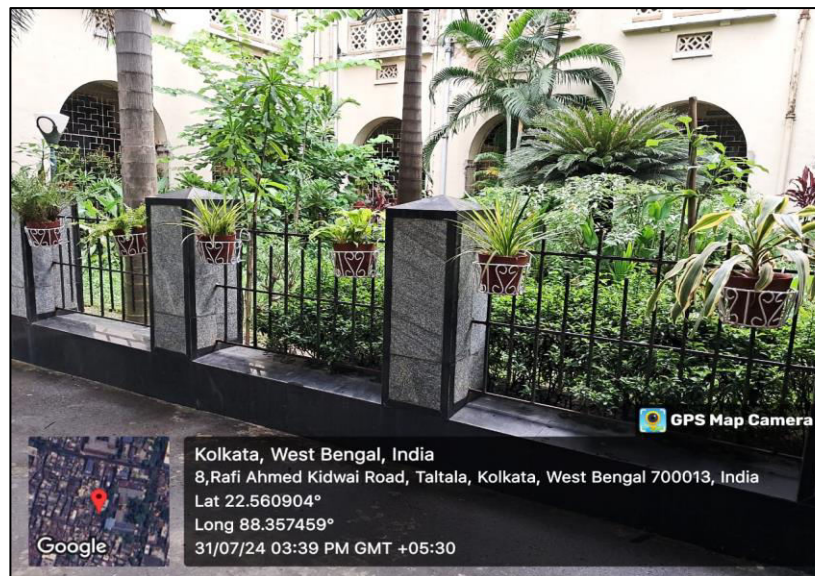
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Greenery within the College building along with raised garden and hanging garden

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



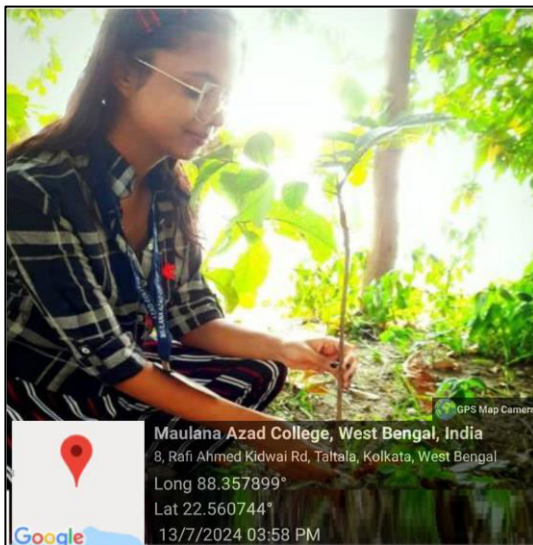
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2. Regular Tree Plantation drives taken up by the College in association with NSS unit

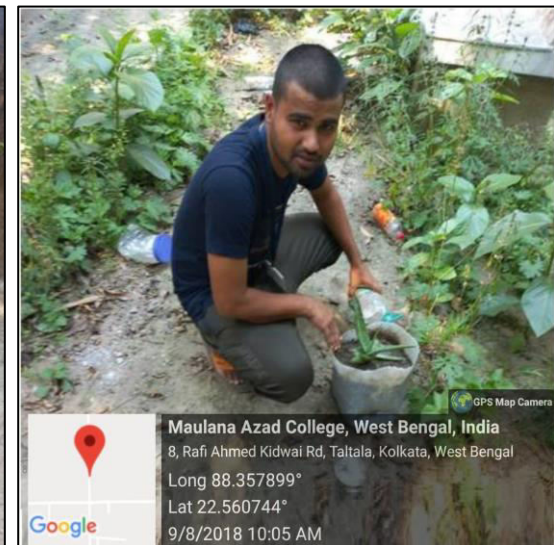
Students and teachers at Maulana Azad College come together to participate in regular tree plantation drives across the campus and hostels, fostering a sense of community and environmental responsibility, and contributing to a greener, more sustainable future.



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.



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.



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



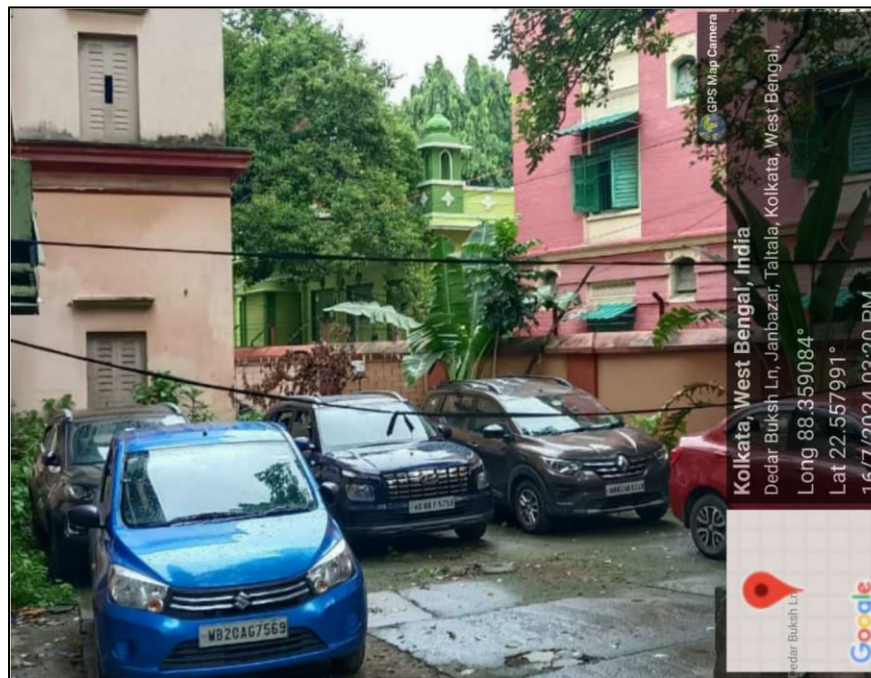
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11. The college has an alternative parking lot for chauffer vehicles to reduce campus pollution

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.



Alternative parking lot for chauffer-driven cars outside college campus

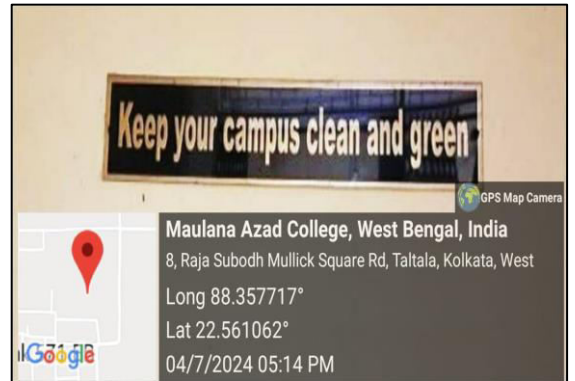


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12. Posters put up throughout college campus to spread awareness about green campus and plastic free practices
To promote environmental sustainability and encourage eco-friendly habits, posters are strategically displayed throughout the college campus, 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



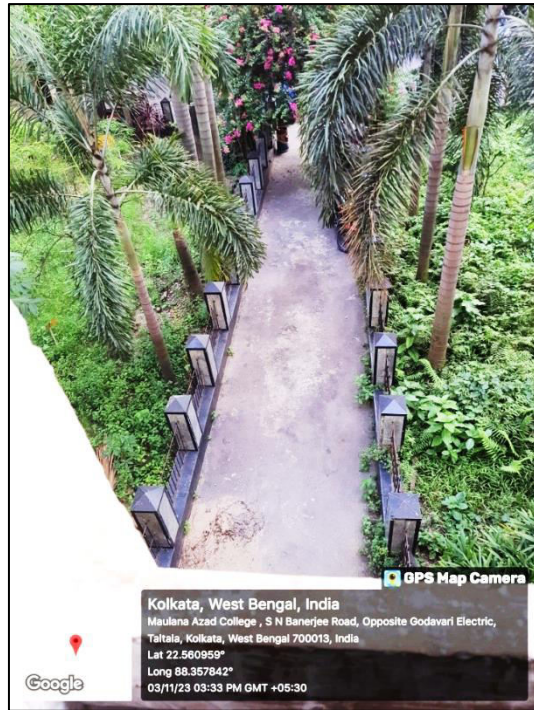
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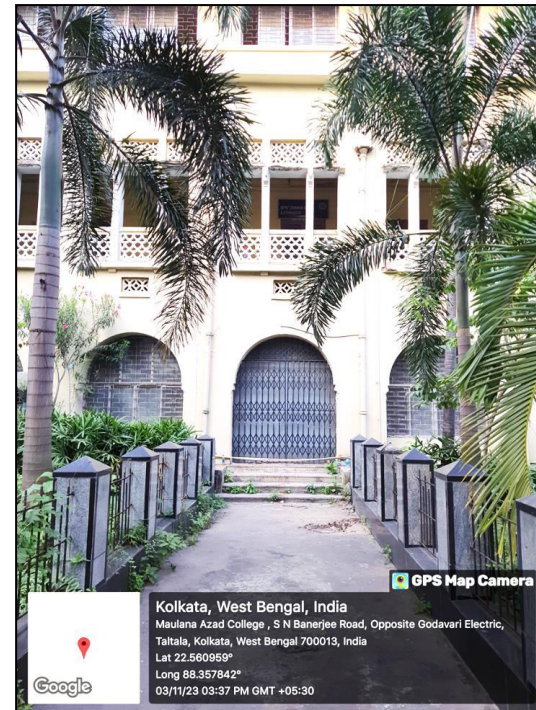
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13. The college has pedestrian-friendly paths for easy movement

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