



**Madan Mohan Malaviya University of  
Technology, Gorakhpur, Uttar Pradesh,  
273010, India**

**GREEN AUDIT 2019-20**

## Green Audit Report 2019-20

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### 1. INTRODUCTION:

Madan Mohan Malaviya University of Technology, Gorakhpur has been established in year 2013 by the Government of Uttar Pradesh in the form of a non-affiliating, teaching, and research University after reconstituting the Madan Mohan Malaviya Engineering College, Gorakhpur which was established in 1962. Fifty-Four batches of students have entered its portals to emerge after four years of rigorous education under the tutelage of some of the most venerable teachers, engineers ready to face the world and create new worlds. The University is in the Gorakhpur-Deoria Road about 9 Km away from Gorakhpur Railway Station. In addition to UG in Civil Engineering, Chemical Engineering, Computer Science & Engineering, Mechanical Engineering, Electrical Engineering and Electronics & Communication Engineering, Information Technology, University also offers MCA, BBA, MBA, M. Tech, M.Sc., and Ph.D. courses in various specializations. Madan Mohan Malaviya University of Technology, Gorakhpur has been established in year 2013 by the Government of Uttar Pradesh in the form of a non-affiliating, teaching, and research University after reconstituting the Madan Mohan Malaviya Engineering College, Gorakhpur which was established in 1962. The University offers various programs at undergraduate, postgraduate, and doctoral level.

#### **UNDERGRADUATE PROGRAMS**

The University offers the following undergraduate programs leading to B.Tech. and B.B.A. degrees, which are of 4-and 3-years duration, respectively.

➤ Bachelor of Technology (B.Tech.)

The university offers four-year B.Tech. degree programs in following seven disciplines-

1. Chemical Engineering
2. Civil Engineering
3. Computer Science & Engineering
4. Electrical Engineering
5. Electronics and Communication Engineering
6. Information Technology
7. Mechanical Engineering

➤ Bachelor of Business Administration (B.B.A.)

The university offers 3-year BBA. degree program to prepare graduates to manage and administrate the business organizations.

#### **POSTGRADUATE PROGRAMS**

The University offers the following undergraduate programs leading to MTech., M.B.A., M.C.A. and M.Sc. degrees.

➤ Master of Technology (MTech.)

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The university offers twelve full time MTech. programs in Civil, Electrical, Electronics & Communication, Mechanical, Information Technology & Computer Application and Computer Science & Engineering Departments. The various specialization of MTech. programs are-

1. Structuring Engineering
2. Environmental Engineering
3. Seismic Design and Earthquake Engineering
4. Hill Area Development Engineering
5. Power Electronics and Drives
6. Control and instrumentation
7. Energy Technology and Management
8. Computer Integrated Manufacturing
9. Digital System
10. Communication Engineering
11. Computer Science and Engineering
12. Information Technology

➤ **MASTER OF COMPUTER APPLICATION (M.C.A.)**

A three-year M.C.A. Program is being offered from the session 1987-88. The course aims at training manpower for information system leading to a professional cadre that will develop, install, and maintain computer systems for management in industries in addition to application of software development.

➤ **MASTER OF BUSINESS ADMINISTRATION (M.B.A.)**

A two-year M.B.A. Program is being offered from the session 2001-2002 under self -finance scheme.

➤ **Master of Science (M.Sc.)**

The university offers two-year full-time M.Sc. programs in following disciplines-

1. Physics
2. Chemistry
3. Mathematics

### **DOCTORAL PROGRAMS**

The university offers doctoral program (full-time and part-time both) in following disciplines-

1. Civil Engineering
2. Computer Science and Engineering
3. Information Technology
4. Electrical Engineering
5. Electronics and Communication Engineering
6. Mechanical Engineering
7. Chemical Engineering
8. Physics

9. Chemistry

10. Mathematics

11. Economics

12. English

This is possible only due to the unconditional support of the management that makes the uphill task of running the institution smoothly seem simple. University building accommodates well-equipped laboratories, dissection lobby, spacious demonstration halls, museums, classrooms, and library with internet facility.

Our institute consists of senior faculties, who are proficient in their own subjects. In the classrooms our research-oriented faculty goes student oriented. The University library has ample space. The Central library operates on open access system. Students and staff members are given free access from 9:15 am to 8:30 pm (Mon-Fri), 9:15 am to 4:30 pm (Saturday & Sunday) to the books and journals, which are kept on open shelves. It contains enough books and periodicals on scientific, technical, and other subjects. Total number of books including bound journals and ISI Code is 1,16,516 (One Lakh Sixteen thousand five hundred and sixteen). The library is fully Wi-Fi and has E-Books and E-Journal facilities. The students are encouraged to make good use of library and reading halls.

The University provides facilities like gym, sports, canteen, storeroom, pure drinking water cooler, well-furnished teaching halls, well equipped laboratories, indoor games Auditorium, girls and boy's hostel. More than 30 research guides in various subjects doing effective research work in various fields. The University organizes tours, visits in all subjects at various places like Industrial tour etc. Departmental library is available to provide extra books for needy students. University arranges various Co-curricular & extracurricular activity like debate competition, elocution competition, essay writing competition, speech events, science exhibition. Our N.S.S, and extension department conducts society-oriented programs like blood donation camps, health awareness rallies, cleanliness camp, organ donation rally, and tree plantation every year. Student mentoring system plays an important role to solve over all problems of students. Earn and learn scheme is available for needy students.

### **2. SCOPE AND GOALS OF GREEN AUDITING**

Green audits serve to identify opportunities to sustainable development practices, enhance environmental quality, improve health, hygiene, and safety, reduce liabilities, and save money and achieve values of virtue. Environmental audits can be a highly valuable tool for college in a wide range of ways to improve their environmental and economic performance and reputation -- while reducing wastages and operating costs. Once a baseline data is prepared after the auditing process, the data can serve as a point of departure for further action in campus greening. It will also help the University to compare its programs and activities with other peer institutions, identify areas for improvement and prioritize the implementation of future projects. The data will also provide a basis for calculating the economic benefits of resource conservation projects by establishing the current rates of resource use and their associated costs. Simple but effective system was devised and applied to prepare a baseline data and monitor the environmental performance of MMMUT. The aim of green auditing is to help the institution to apply sustainable development practices and to set examples before the community and young learners.

#### **2.1 GENERAL AND SPECIFIC OBJECTIVES OF GREEN AUDITING**

The general objective of green audit is to prepare a baseline report on biodiversity and other resources, measures to mitigate resource wastage and improve resource quality and sustainable practices. The specific objectives are:

1. To prepare a checklist of flora and fauna diversity in and around the college campus.
2. To assess the quantity of water usage within the college campus.
3. To suggest sustainable energy usage and water conservation practices.
4. To find out various sources of organic and solid waste generation and mitigation possibilities.
5. To inculcate values of sustainable development practices through green audit mechanism

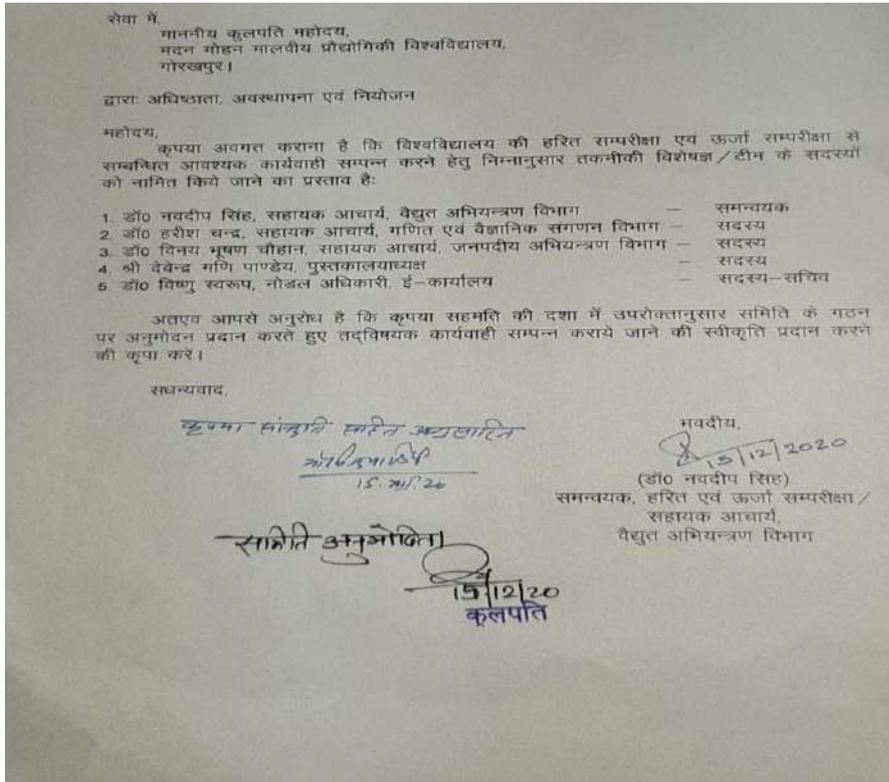
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### 3. CONSTITUTION OF GREEN AUDIT:

The Green Audit Committee will act as per the environmental policy and should the responsibility of maintaining and protecting environment surrounding the University. The aim of the committee is to provide advice for the development of environmental policy and practice in the areas of.

- ❖ Waste Management
- ❖ Soil Management
- ❖ Waste management
- ❖ Energy use and conservations
- ❖ Eco-friendly techniques
- ❖ Noise Pollution
- ❖ Air Pollution
- ❖ Paper less operating procedure
- ❖ Green environment and clean campus

### 4. COMMITTEE FOR GREEN AUDIT:



### 5. AIR POLLUTION MANAGEMENT

#### A. PERIODIC AWARENESS PROGRAM FOR STAFF, STUDENTS, AND SOCIETY:

We at University continuously conducting awareness program for staff, students, and society for protecting and maintaining environment. The awareness is also done by arranging road shows, rallies on various issues related to environment and health. The University students and faculty members through NSS/NCC are involved in the activities.

#### I. The Various Activities performed by NSS Cell, MMMUT Gorakhpur since July- 2019 July-2020

➤ NSS volunteers successfully guiding nearby village students at Malaviya Shiksha Niketan, MMMUT campus. 20 NSS volunteers giving free tuition to these students and their family members also. Total 100 students are participating in this free service to improve their lifestyle, social awareness, understanding of human rights, safeguards their basic rights.



➤ Women's club of MMMUT campus guiding free coaching to poor students and their family members. Contractual mess workers such as ward boy, Ward lady and other poor workers are participating in this free coaching, tuitions, improvement in lifestyle, to read and write basic language etc are giving to needy poor persons.

➤ Women's club of MMMUT distributes clothes to poor peoples of Gorakhpur district. Also, gives help to flood disaster peoples of Gorakhpur. This club also makes social awareness for their life betterment, cultural activities, sports participation and in university events such as Independence Day, Republic Day, Convocation ceremony, etc.

#### II. MMMUT FACULTY AND STAFF DONATED ONE DAY SALARY FOR CORONA EPIDEMIC CAUSE.

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### CLOTHES DISTRIBUTION

Every year during the onset of winter season, Malaviyan students come up to contribute clothes and money to distribute blankets and other woolen clothes to the needy in the nearby region in Gorakhpur.

- III. NSS cell successfully participated in Inaugural function of Swachhata Abhiyan rally *by Hon'ble CM of UP on 01/12/2018 at DDU Gorakhpur.*



- IV. NSS CELL organized Swacch Bharat Abiyan at MMMUT campus on 02/10/2018.



- V. NSS students organized Academic awareness Program on 27/12/2018 to 15/09/2019 at Navels national Academy School Phulwariya, Rustampur, Khorabar.
- VI. NSS students organized Poster presentation competition (Theme Nation unity) on 31/10/2019 at MPH of MMMUT.
- VII. NSS CELL organized Computer & IT awareness program for the students at Govt. School Dumri Khurd Chauri Chaura Gorakhpur on 06/01/2019 at ITRC MMMUT

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### B. PLANTATION PROGRAM THROUGHOUT THE YEAR:

We at Madan Mohan Malaviya University of Technology, Gorakhpur, Uttar Pradesh, 273010, India is doing plantation program through CDC department. The tree plantation table is showed through the table mentioned below.

#### A. Plantation program throughout the year (2019-2020):

Sr. No	Year	Date	No. of Plants	Total no. of plants	Notice (enclosed)
1.	2019-2020	30 April 2019	105	105	Attached
		30 August 2019	250	250	Attached
		24 June 2020	500	500	Attached

Signature & Name with Stamp seal  
Member Secretary of CDC  
Dr. Hrishabh Chandra  
27-07-2021





### C. ESTABLISHMENT OF OXYGEN PARK, PLANTATION OF OXY RICH PLANTS

Our university has a beautiful green campus. We have skillfully planted the plants like *Pimpal*, *Vad*, *Neem* Trees. University has special area only for Tulsi pots so as to develop oxygen park and make the campus fresh full of oxygen. The greenery has remained useful in developing Oxygen Park in our University.

### D. 'NO SMOKING, NO TOBACCO' IN CAMPUS AREA:

Madan Mohan Malaviya University of Technology, Gorakhpur, Uttar Pradesh, 273010, India, is completely smoking and tobacco free campus and use of these are a punishable offence. The instructions regarding this are already given to the students and the staff members. The display boards are displayed at various places in the University. In reference to this subject, we created various eye-opening posters and slogans through our green audit committee.



### E. 'COMPULSORY POLLUTION CHECK-UP OF 2 W/ 4 W:

For air pollution due to vehicle, we also collect fitness certificate from all staff members and university vehicle. We also arrange lectures on it for creating awareness among staff and students.

GOVERNMENT OF UTTAR PRADESH  
Transport Department  
Gorakhpur RTO  
FORM 38  
[See Rule 62(1)]  
CERTIFICATE OF FITNESS  
(Applicable in the case of transport vehicles only)

Vehicle No: UP53AG0384 (Bus) is certified as complying with the provisions of the Motor vehicles Act, 1988 and the rules made there under.

Certificate will expire on : 02-Aug-2020  
Next inspection Due Date : 27-Jul-2020  
Inspection Fee Receipt No : UP53R18070000334  
Application No : UP190730V5611630  
Receipt Date : 02-Jul-2019  
Chassis No : MAT412059A1H28637  
Engine No : BETA4130HP01H62915310  
Seating Capacity : 52 (including Driver)  
Type of Body : BUS  
Registration No : UP53AG0334  
Category of Vehicle : HPV  
Printed on : 04-Oct-2019 16:02:05

Manufacturing Year : 2010  
Inspected on : 03-Aug-2019

Inspected by (LAXMIKANT)

कर/पंजीयन अधिकारी  
Signature of the Authority  
Gorakhpur RTO  
गोरखपुर

### F. DISPLAY BOARDS IN UNIVERSITY CAMPUS:

Various boards for the awareness on the environment control, noise control, tobacco free campus, conservation of energy, recycling of resources, are displayed for all the stakeholders.





### G. PERIODIC RALLIES AND ROAD SHOWS FOR AWARENESS:

Our university is having National Social Service (NSS Dept.) and NCC Unit which regularly takes part and arranges the street shows and rallies every year. The students also took part in Swachh Bharat Abhiyan Rally etc.



### H. ECO-VENTILATORS IN LABORATORY AND LIBRARY:

All the laboratories and library are having good ventilation.

### I. MAINTAIN DATA FOR FLORA OF UNIVERSITY CAMPUS:

Our Madan Mohan Malaviya University of Technology, Gorakhpur, Uttar Pradesh, 273010, India having green campus, in which we have following trees and plants species.

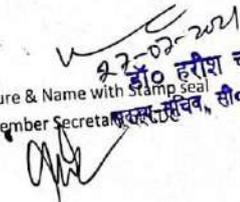
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### A. Maintain data for flora of university campus:

Our Madan Mohan Malaviya University of Technology, Gorakhpur, Uttar Pradesh, 273010, India having green campus, in which we have following trees and plants species.

Sr. No.	Local Name	Botanical Name	Family	No. of Plants
1.	Gulmohar	<i>Delonix regia</i>	Caesalpinaceae	3 Approximate
2.	Aragvadh	<i>Casia fistula</i>	Fabaceae	22 Approximate
3.	Badam	<i>Terminalia coccinea</i>	Combretaceae	
4.	Ashoka	<i>Polyalthialungifolia</i>	Annonaceae	250 Approximate
5.	Vijayasar			
6.	Fan palm	<i>Thrinax</i>	Palmaceae	1 Approximate
7.	Jaswand	<i>Hibiscus rosasinensis</i>	Malvaceae	15 Approximate
8.	Ailgin	<i>Eucalyptus globulus</i>	Myrtaceae	
9.	Subabhul			
10.	Bruganvilla	<i>Bruganvillaspe</i>	Nyctaginaceae	10 Approximate
11.	Wad	<i>Ficus baganvillia</i>	Moraceae	10 Approximate
12.	Amba	<i>Magnifera indica</i>	Anacardaceae	
13.	Karanj	<i>Pongamia alata</i>	Fabaceae	
14.	Jambhul	<i>Eugenia jambolina</i>	Myrtaceae	12 Approximate
15.	Silver oak	<i>Grevillea robusta</i>	Porteaceae	20 Approximate
16.	Kadulimb	<i>Azadirachta indica</i>	Meliaceae	20 Approximate
17.	Chinch	<i>Tamarindus indica</i>	Caesalpinaceae	1 Approximate
18.	Cycus	<i>Cycaspe</i>	Cycadaceae	20 Approximate
19.	Buch	<i>Milloingtonia hortensis</i>	Prignoniaceae	
20.	Chotagulmohar	<i>Caesalpinia pulcherima</i>	Caesalpinaceae	
21.	Gulab	<i>Rosa indica</i>	Rosaceae	200 Approximate
22.	Shishir	<i>Albizia lebeck</i>	Mimosaceae	
23.	Tulsi	<i>Ocimum sanctum</i>	Labiatae	10 Approximate
24.	Tagarchandani	<i>Tabernaemontana divaricata</i>	Apocynaceae	
25.	Umbar			20 Approximate
26.	Saptaparni	<i>Alistonia spp</i>	Apocynaceae	2 Approximate
27.	Naral	<i>Cocos nucifera</i>	Palmaceae	
28.	Duranta	<i>Duranta erecta</i>	Verbenaceae	
29.	Kanchan	<i>Bauhinia racemosa</i>	Caesalpinaceae	10 Approximate
30.	Sag	<i>Tectonagrandis</i>	Verbenaceae	10,000 Approximate
31.	Chandan	<i>Santalum album</i>	Santalaceae	1 Approximate
32.	GREEN WORLD Eucalyptus			10,000 Approximate
33.	Mango			600 Approximate

34.	Guava			20 Approximate
35.	Jack Fruit			20 Approximate
36.	Fayicus			10 Approximate
37.				8 Approximate
	<b>AEGLE MARMELOS</b>			
38.				30 Approximate
	<b>ROSEWOOD</b>			
39.	Desi lilac			15 Approximate
40.	Pipal			10 Approximate
41.	Botal Palm			35 Approximate
42.	Fackstel Palm			5 Approximate
43.	Botal Brush			10 Approximate
44.	Earocarica			5 Approximate
45.	Litchi			20 Approximate
46.	Awala			10 Approximate

  
 27-02-2021  
 Dr. Hrish Chandra  
 Member Secretary  
 (Stamp Seal)  
 (Official Seal)  
 (Official Seal)

### 6. NOISE POLLUTION MANAGEMENT

#### A. SILENCE ZONES IN UNIVERSITY LIKE LIBRARY, AUDITORIUM:

Various display boards are present in library, in hospital area, auditorium and other places for awareness to maintain silence in the University.

#### B. NOISE CONTROL DURING ANY PROGRAM IN UNIVERSITY:

The University has one huge gate for the entry and exit of students, monitored by the security guard. The security guard and Discipline committee of program ensure smooth entry and exit of students without any noise and nuisance. We have display boards for awareness of noise everywhere.



#### C. CONTROLLING DISCIPLINE AND SMOOTH ENTRY AND EXIT OF STUDENT AND STAFF.

1. We have the entry register for the people coming to our university who are not the students at the University. Most of the times, the parents visit the University, they register their names at the gate and then they are allowed to enter the University.
2. The security guard looks after the safety of the University campus.



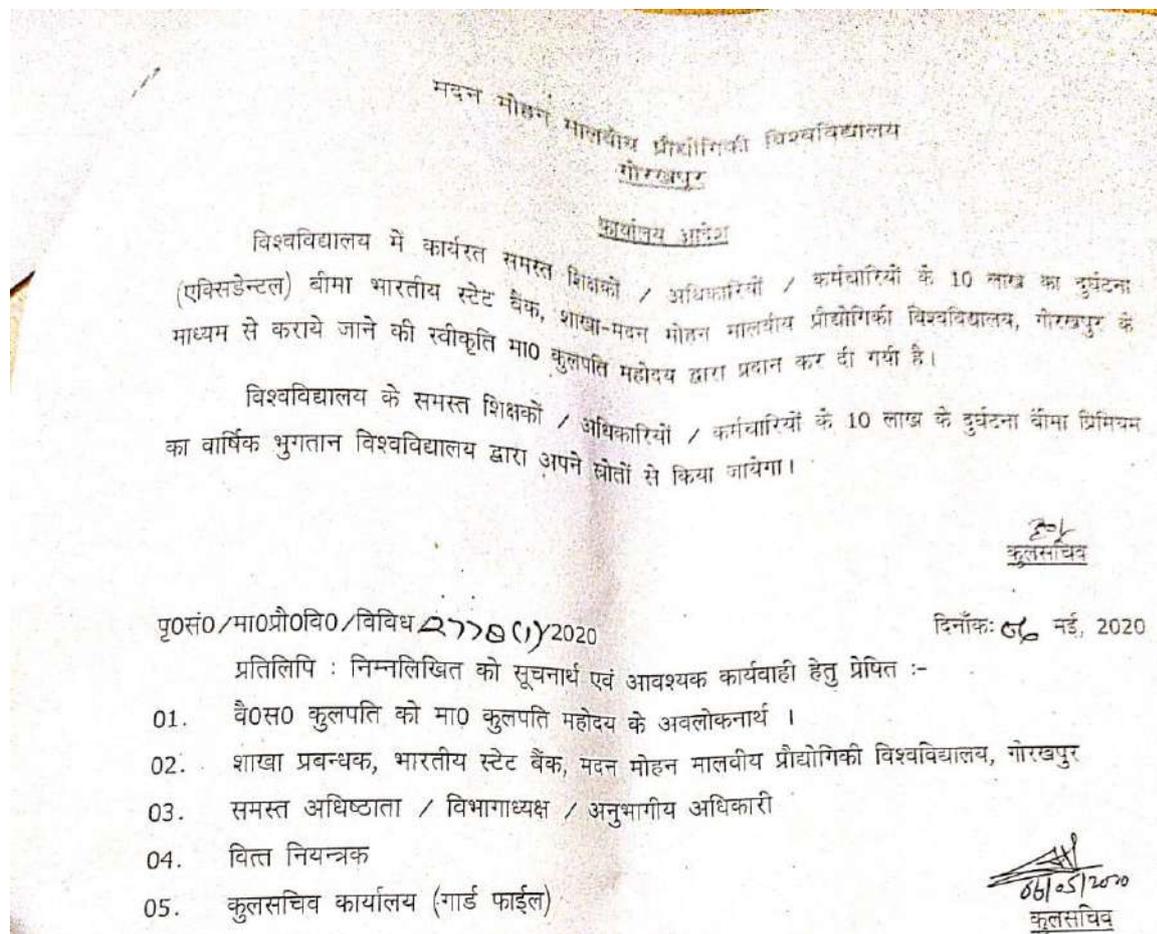
#### D. NO PRESSURE HORNS FOR VEHICLE:

Our university staff members and students does not use pressure horns and is not permissible for the students studying in the University.

### 7. HUMAN HEALTH AND SAFETY MANAGEMENT

#### A. ACCIDENT POLICY:

University management has staff accidental policy.



#### B. PERIODIC HEALTH CHECK-UP:

The University has a full-fledged Health center with two Medical Officers. The Medical Officers and dispensary staff are available round the clock. The timings of the dispensary are notified from time to time. Students are advised to get themselves treated in the University health center. Serious cases are referred to the Medical College / District Hospital / Local Hospitals. Cases of serious illness and infectious disease must be immediately reported to the warden and Medical Officer. Homeopath services are also available in the University campus. Students applying for medical leave must have a reference from University Medical officers. Ambulance facility is also available in the University and



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Our University's *NSS and NCC*, regularly arrange, Online Awareness campaign program, street shows and rallies for creating awareness about cleanness of premises in society. Medical Hospital Office of our University organizes blood donation camps during 30 Dec 2019.



Blood Bank Shri Gorakhnath Chikatslayaya Department arranges blood donation program in 5<sup>th</sup> March 2020, to get awareness about Blood donation.

**BloodConnect Foundation**  
H-19, 1<sup>st</sup> Floor, Lajpat Nagar-2, New Delhi-110024  
contact@bloodconnect.org | M: 9882982982

Ref: BC\_BB\_2020\_014 Date: 07.03.2020

To: HOD Blood Bank  
Gurukul Shri Gorakhnath Chikatslayaya  
Gorakhpur, U.P.

Subject: Assistance for blood donation camp at Madan Mohan Malaviya University of Technology, Gorakhpur.

Respected Ma'am/Sir,

**BloodConnect Foundation** has been regularly organizing camps with various blood banks in different places across India. BloodConnect would like to organize a blood donation camp at **M.M.M.U.T, Gorakhpur** in collaboration with the Board of Engineers' Board of the university.

The camp details are as follows:  
Date: 5th March, 2020 (Thursday) - 2.03.20  
Time: 10 AM to 5 PM  
Venue: University dispensary, M.M.M.U.T Campus, Deoria road, Gorakhpur - 221010.

Please let us know whether some incentives can also be arranged for the donors. Please provides donor certificates to the donors as it ensures donor satisfaction.

Hoping for your assistance in the camp.

Thanking You  
Yours Sincerely,

Aachran Jain  
VP Consulting  
BloodConnect  
M: +91-9072126997 | E: consulting@bloodconnect.org

For more information, visit: www.facebook.com/bloodconnect | www.bloodconnect.org

07 MAR 2020

कुलपति

### D. YOGA /MEDITATION FOR STAFF

Health is wealth, is understood by our students and staff. Our university campus provides the facilities of indoor and outdoor stadium for the students, staff. Our Yoga faculty in charge provides proper guidance, and we are motivated to do the daily exercise of Yoga/Meditation in the University. Yoga and meditation are a part of curriculum of this subject. One yoga teacher is appointed by university for students and faculty member. Yoga class is arranging by CSA for students and faculty member. University also celebrates world yoga day on 21 June of each year.



**In 2020: Yoga Day**

### E. FIRE SAFETY:

Our Madan Mohan Malaviya University of Technology, Gorakhpur, Uttar Pradesh, 273010, India is having safety facility. We have 450 + established fire extinguisher across university, hospital and hostel buildings.

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### F. SOPS ON SAFETY IN LABORATORY AND FIRST AID BOX:

All the laboratories are equipped with SOP's, Do's and Don'ts for the laboratory safety. The students are also trained for first aid and emergency treatment in various situations. First aid boxes are fixed in administrative office and indoor stadium & All laboratories are having first aid box of the University.

S. N.	Department Name	SOP Information (Yes/No)	Fire extinguisher	First Aid Box
1.	CESD	Yes	12	01
2.	EED	Yes	33	---
3.	MED	Yes	39	Nil
4.	ECED	---	25	---
5	MSED	----	Nil	Nil

### G. EMERGENCY PHONE NUMBERS:

All the emergency phone numbers are displayed at the entrance and copy is also available in administrative office.

Sr. No.	Office	Contact No.
1.	Vice Chancellor (Office)	8765783730
2.	Registrar Office of the University	8765783734
3.	Dean Student Office	8765783742
4.	Exam Section office	8765783741
5.	Dean (Academic) (O)	8765783744
6.	O/C Vehicle (O)	8765783746
7.	Power station	8765783754
8.	Hospital	8765783749
9.	University Gate	8765783759
10.	Library	8765783793
11.	Admission Cell	8765783798
12.	Police Station	100
13.	Women Helpline	1091
14.	Fire Brigade	101

### H. CONTROLLED AREA FOR STORAGE OF HAZARDOUS CHEMICALS:

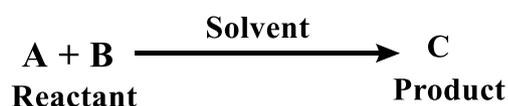
University, like other entities that generate and manage hazardous wastes, is faced with a range of problems. Most of the departments do not generate hazardous waste. Hazardous chemical or biochemical including contagious disease pathogen, patient blood, and radioactive substances are not used in the university campus yet. All stakeholders, especially from Academic Departments and laboratories are responsible for disseminating information on hazardous materials being used in the facility. As the amount of hazardous waste is nil or very negligible amount, there is not facility developed to transport and manage it in proper place.

#### CHEMICAL ENGINEERING DEPARTMENT:

Chemicals such as, volatile materials, Calcium hydroxide, glycerin are needed in the department to run the B.Tech. labs. These chemicals are reused/recycled after experiment by applying purification process.

This is for your kind information.

**Rearrangement of chemical: Suppose, we are using A and B chemicals along with various solvents (Dichloromethane, Chloroform, Ethyl acetate, Acetonitrile etc.).**



The product C was prepared by using various solvents as mentioned above. After the completion of reaction, the excess solvents were received by rotary evaporation. The as- received solvents were further reuse in chemical reactions.

- **Personal chemical safety rules:**

- Wear gloves & glasses where appropriate while handling chemicals.
- Follow instructor's directions.
- Disposal of waste properly.
- Lab coat to be wear all the time in lab.
- Wear shoes.
- Safety goggles must be worn all the time while working in the lab.

### 8. SOIL POLLUTION MANAGEMENT:

#### A. RAINWATER HARVESTING:

Our university is having rainwater harvesting system to conserve the rainwater. The earth water level is increased which helped to have water to our university hand pump /boar. It increases natural storage of water and helps the University in getting water for various purposes. We have 30 running meter pipeline use for this purpose. The total 2889.40 sq. Meter of roof water is collected through this system.

#### RAINWATER HARVESTING: STRUCTURE AND UTILITY:

##### ➤ INTRODUCTION

As the scarcity of water is rapidly increasing everyday particularly during the summer season, the demand for water in the University campus also substantially increased. Therefore, university has installed three rooftops rainwater harvesting systems in the university campus.

##### ➤ DESIGN OF PROPOSED CATCHMENT AREA:

The catchment of water harvesting system is the rooftop that receives rainfall directly and drains the water system. The existing roof is made use of to collect rainwater. Therefore, the rooftop is swept and cleaned regularly for collecting the water to its maximum purity.

**From the design of the terrace floor, we calculated total rooftop area of our university.**

**System-1: Area of rooftop of the Extension Of library = 429.58 sq Meter**

**System-2: Area of the rooftop of Extension of Computer Science Department = 573.82 sq Meter**

**System-3: Area of the rooftop of Ramanujan Bhawan Hostel = 1886.00 sq Meter**

**Total Area of roof water is 2889.40 sq. Meter**

#### TOTAL AREA OF PROPOSED CATCHMENT

##### ➤ DESIGN OF TRANSPORTATION SYSTEM:

For transporting the rainwater from the catchment area in this project we have used Polyvinyl chloride (PVC) pipes and fittings. For the collection purpose, **we are using pipes ranging 4” and 6” inches diameter**. A care has been taken that the first spell of rain is flushed out and does not enter the system.

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This is done since the first spell of rain carries a relatively larger number of pollutants from the air and catchment surface. The water is transferred to the special kind of filters which removes the leaves, dust, small twigs and other organic matter.

**In case of system 1, filtered water is then allowed to flow into the bore well near Ramanujan Bhawan Hostel**

**In case of system 2, filtered water is transferred into the bore well in the in front of Extension of Computer Science Department and**

**In case of system-3 rainwater from rooftop is transferred into bore which is in front of Extension Of library.**



### **B. PLASTIC FREE ENVIRONMENT:**

Our university is plastic free environment and creating awareness amongst the students and staff members regarding the same by display boards and other programs.

**BAN ON USE  
OF PLASTIC**

### **C. PERIODIC AWARENESS PROGRAM FOR STAFF, STUDENTS, AND SOCIETY:**

We at University continuously conducting awareness program for staff, students, and society for protecting and maintaining environment. The awareness is also done by arranging road shows, rallies

## Green Audit Report 2019-20

on various issues related to environment and health. The University students and faculty members through NSS/NCC are involved in the activities.

1. NSS cell organized Jal Shakti Abhiyan of GOI and Celebration of Jal Diwas on 22nd July 2019 at MMMUT campus in the auspicious presence of Honorable Vice-chancellor, faculty and staff.

### जल संचयन का लिया संकल्प

जासं, गोरखपुर : मदन मोहन मालवीय प्रौद्योगिकी विश्वविद्यालय में बीते एक सप्ताह से जल शक्ति अभियान और जल दिवस कार्यक्रम का सोमवार को समाह्वयपूर्वक समापन हुआ। विश्वविद्यालय के एनएसएस प्रकोष्ठ की ओर से आयोजित कार्यक्रम को संबोधित करते हुए कुलपति प्रो. एसएन सिंह ने उपस्थित जनसमूह को जल संचयन का संकल्प दिया और उसे लेकर विभिन्न प्रसंगों से जागरूक किया। कार्यक्रम के दौरान बीते एक सप्ताह में जन संरक्षण को लेकर आयोजित विभिन्न प्रतियोगिताओं के विजेताओं को पुरस्कृत भी किया गया। एनएसएस समन्वयक डॉ. राजेश कुमार वर्मा ने कहा कि सप्ताह पर चलने वाला सिलसिला पूरे वर्ष किसी न किसी रूप में जारी रहेगा। एनएसएस छात्र सचिव आशुतोष दत्त त्रिपाठी ने जल संचय को लेकर किए जाने वाले प्रयासों पर प्रकाश डाला। आभार ज्ञापन कार्यक्रम अधिकारी डॉ. ज्योति ने किया। सिविल इंजीनियरिंग विभाग के अध्यक्ष प्रो. गोविंद पांडेय की मौजूदगी महत्वपूर्ण रही।



2. NSS students organized plastic pollution awareness and water conservation program on 01/09/2019 to 15/09/2019 as per instruction of MHRD Govt. of India



### **8. OTHER SECTORS FOR ENVIRONMENT MANAGEMENT:**

#### **A. WASTE CONTROL CHEMICALS AND E-WASTE:**

We have different methods and Eco-friendly methods for experimentation.

#### **WASTE TREATMENT AND DISPOSAL**

##### **WASTE STREAMS**

Primarily segregated waste from Office Blocks, Hostel Blocks, Residential areas travel in their respective streams and reach the segregation shed for appropriate treatment and disposal.

##### **SOURCES OF WASTES:**

The committee has prepared a list of places from where the wastes are generated in the campus.

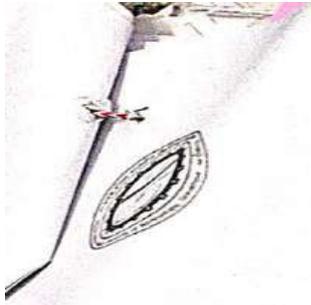
- A. Administrative Office
- B. Library building
- C. Seminar Halls and Students Classrooms
- D. Indoor sports hall cum Auditorium
- E. College Canteen
- F. Girls Hostel
- G. Dining Halls
- H. Hostel Kitchen
- I. Hostel Grocery Stores Room / Crockery Storeroom
- J. Health Centre
- K. Playground
- L. Various Departments
- M. Laboratories.
- N. Residential

There are different technologies used for treatment of various types of wastes. They are illustrated below.

# Green Audit Report 2019-20

## 1. WET WASTE

Waste especially from kitchen, such as vegetable refuses, food scraps etc. are called wet waste. Each department of University as well as administrative offices create some waste and dumped in small waste bin located in the department. Each building several dust bins are placed from where housekeeping staffs take the wastes. From the small bin wastes are dumped in big bin by the housekeeping staffs regularly. The wastes are properly stacked in designated place and later disposed through vendors for proper waste management.



मदन मोहन मालवीय प्रौद्योगिकी विश्वविद्यालय  
गोरखपुर-273010 (उ०प्र०) भारत  
(पूर्ववर्ती मदन मोहन मालवीय इंजीनियरिंग कालेज, गोरखपुर)  
उ० प्र० सरकार के अधिनियम संख्या 22/2013 द्वारा स्थापित  
Madan Mohan Malaviya University of Technology  
Gorakhpur - 273010 (U.P.) India  
(Formerly : Madan Mohan Malaviya Engineering College, Gorakhpur)  
Established by Act no. 22 of 2013 of U.P. Govt.

Telephone No.: 0551-2273958  
Fax No.: 0551-2270011  
Website: www.mmmut.ac.in

### कार्य-आदेश

दिनांक: 13, फरवरी, 2020

पत्रांक/मा०प्रौ०वि०/सी०डी०सी०/145/2020  
सेवा में,

मेसर्स अटलॉटा इन्टरप्राइजेज,  
कार्पोरेट आफिस- 08, अयूतलीव अपार्टमेंट केम्पस मिर्जा अली खान,  
हुसैनाबाद चौक, लखनऊ -

**विषय:** विश्वविद्यालय के खण्ड-'ब': परिसर में गेट सं०- 02 से गेट सं०- 01 एवं कुलपति आवास तक सड़क की सफाई, कुलपति आवास से सब स्टेशन तक सड़क की सफाई, वर्कशाप से मेनगेट तक सड़क की सफाई, महिला छात्रावास तिराहे से स्टेडियम तक सड़क की सफाई, एकेडमिक ब्लॉक के समस्त संकाय एवं वर्कशाप की साफ-सफाई, समस्त आवासीय कालोनी की साफ-सफाई एवं झाड़ू, एम० पी० एच० के बाहर एवं अन्दर साफ-सफाई तथा कैफेटेरिया की साफ-सफाई, अस्पताल की साफ-सफाई, स्टेडियम के बाहर एवं अन्दर (आऊट डोर एवं इन डोर), कूड़ा कलेक्शन एवं अन्य क्षेत्रों की साफ-सफाई, विश्वविद्यालय अतिथि गृह एवं एल्युमनाई भवन की साफ-सफाई के सम्बन्ध में।

महोदय,

आपको अवगत कराना है कि निविदा सं० MMMUT/CDC/129 द्वारा आपकी एजेन्सी को अई पाया गया है। उक्त के क्रम में आपको आदेशित किया जाता है कि दिनांक 16.02.2020 से विश्वविद्यालय परिसर के खण्ड- 'ब' में गेट सं०- 02 से गेट सं०- 01 एवं कुलपति आवास तक सड़क की सफाई, कुलपति आवास से सब स्टेशन तक सड़क की सफाई, वर्कशाप से मेनगेट तक सड़क की सफाई, महिला छात्रावास तिराहे से स्टेडियम तक सड़क की सफाई, एकेडमिक ब्लॉक के समस्त संकाय एवं वर्कशाप की साफ-सफाई, समस्त आवासीय कालोनी की साफ-सफाई एवं झाड़ू, एम० पी० एच० के बाहर एवं अन्दर साफ-सफाई तथा कैफेटेरिया की साफ-सफाई, अस्पताल की साफ-सफाई, स्टेडियम के बाहर एवं अन्दर (आऊट डोर एवं इन डोर), कूड़ा कलेक्शन एवं अन्य क्षेत्रों की साफ-सफाई, विश्वविद्यालय अतिथि गृह एवं एल्युमनाई भवन की साफ-सफाई का कार्य निविदा में दिये गये नियम एवं शर्तों के अनुरूप प्रारम्भ करें। अनुबन्ध पत्र पृथक से जारी किया जायेगा।

भवदीय

(अमर सिंह)  
वित्त नियन्त्रक

13/02/2020

पत्रांक व दिनांक उपरोक्त।

प्रतिलिपि निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित :-

01. वे०स० कुलपति, मा० कुलपति महोदय के अवलोकनार्थ।
02. वित्त नियन्त्रक
03. अध्यक्ष, परिसर विकास परामर्शदात्री समिति
04. उप-कुलसचिव/प्रभारी उद्यान
05. मेसर्स एम०एस० सर्विसेज, आगरा को इस आशय के साथ प्रेषित की समस्त प्रकार के सफाई कार्य हेतु आपकी सेवा दिनांक 15.02.2020 के अपराह्न से समाप्त की जाती है तथा खण्ड-'ब' के अनुसार समस्त कार्यभार मेसर्स अटलॉटा इन्टरप्राइजेज को देने का कट्ट करे।

(अमर सिंह)  
वित्त नियन्त्रक

13/02/2020

(461)

**मदन मोहन मालवीय प्रौद्योगिकी विश्वविद्यालय**  
**गोरखपुर – 273010 (उ०प्र०) भारत**  
(पूर्ववर्ती मदन मोहन मालवीय इंजीनियरिंग कालेज, गोरखपुर)  
उत्तर प्रदेश सरकार के अधिनियम सं० 22/2013 द्वारा स्थापित  
**Madan Mohan Malaviya University of Technology**  
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**कार्य-आदेश**

पत्रांक / मा०प्रौ०वि० / CDC / ६१ / 2018 दिनांक 22 जनवरी 2018

सेवा में,  
मेसर्स एम०एस० सर्विसेज,  
सरयू धाम, कमला नगर,  
अगरा – 282005

विषय- विश्वविद्यालय परिसर में डोर टू डोर कूड़ा संग्रह एवं स्वीपिंग कार्य, छात्रावासों की साफ-सफाई का कार्य कराने के साथ-साथ समस्त विभागों/अनुभागों के आस-पास की साफ-सफाई,आडियों की कटाई/सफाई के सम्बन्ध में।

महोदय,  
आपको अवगत कराना है कि ई-निविदा सं० MMMUT / CDC / 2017-18 / 01 द्वारा आपकी एजेंसी को अई पाया गया है। उक्त के क्रम में आपको आदेशित किया जाता है कि दिनांक 01.22.2018 को विश्वविद्यालय परिसर की डोर टू डोर कूड़ा संग्रह एवं स्वीपिंग कार्य, छात्रावासों की साफ-सफाई का कार्य कराने के साथ-साथ समस्त विभागों/अनुभागों के आस-पास की साफ-सफाई,आडियों की कटाई/सफाई इत्यादि का कार्य निविदा में दिये गये नियम एवम् शर्तों के अनुरूप प्रारम्भ करें। अनुबन्ध पत्र पृथक से जारी किया जायेगा।

भवदीय  
*Dringh*  
(दयाशंकर सिंह)  
वित्त नियन्त्रक  
०९ २०२०५५  
22/1/18

पत्रांक व दिनांक उपरोक्त।  
प्रतिलिपि:  
1. वै०स० कुलपति, माननीय कुलपति महोदय के अवलोकनार्थ।  
2. वित्त नियन्त्रक।  
3. अध्यक्ष, परिसर विकास प्रकोष्ठ  
4. प्रभारी उद्यान।  
5. मेसर्स जय भारत एसोसिएट, इलाहाबाद को इस आशय के साथ प्रेषित की समस्त प्रकार के सफाई कार्य हेतु आपकी सेवा दिनांक 31.01.2018 के अपराहन से समाप्त की जाती है।

*Dringh*  
(दयाशंकर सिंह)  
वित्त नियन्त्रक  
०९ २०२०५५  
22/1/18

## 2. E-WASTE

We discarded e-wastes from all the office blocks in the campus. Electronic waste from office can be discarded through auction process. The e-waste includes out of order equipment's or obsolete items like lab instruments, circuits, desktops, laptops and accessories, printer, charging and network cables, Wi-fi devices, cartridges, sound systems, display units, UPS, Biometric Machine, scientific instruments etc. All these wastes are put to optimal use. All such equipment's which cannot be reused

# Green Audit Report 2019-20

or recycled is being disposed off through authorized vendors. The idea is demanding the producers to take back e-waste through the same channel they used for placing a product in customers hands.

**RECEIPT**

मदन मोहन मालवीय प्रौद्योगिकी विश्वविद्यालय  
गोरखपुर

पत्रांक/माओपीओ/VII/मिसी-875/468/2020  
नीलामी-आदेश

दिनांक 24 सितम्बर, 2020

श्री अरविंद कुमार अग्रहरी  
कुलघाट गोरखपुर-20090

कृपया, विश्वविद्यालय के निष्प्रेषण सामग्री से संबंधित टैप्पर सं-माओपीओ/875/409/2020 दिनांक 20.07.2020 के क्रम में आपकी पत्र में निम्नलिखित शिद्दयुक्त से संबंधित निष्प्रेषण कबाड़ को निम्नीय मूल्य मिल निव्यक्त कार्यालय में जमा करने एवं उचित भुगतान रसीदों को भण्डार अनुभाग में प्रस्तुत करने के उपरान्त गेट-पास जारी करवाने के उपरान्त आपके व्यय पर "अडॉ" है, जैसा है" के आधार पर अपने मन्तव्य स्थान से जाने पर रकम हस्त से अनुमोदन प्रदान कर दिया गया है।

तदनुसार में आपकी अपेक्षा की जाती है, कि उपरोक्तानुसार नीलामी-मूल्य जमा करते हुए गेट पास निर्गत करना कर संबंधित संलग्न निम्नलिखित शिद्दयुक्त के निष्प्रेषण कबाड़ों को विभागों को प्राप्त करके ले जाने की व्यवस्था दिनांक 30.09.2020 तक सुनिश्चित कर लेंगे।

क्र. संख्या	विभाग का नाम	शिद्दयुक्त सं.	टैप्पर नीलामी मूल्य (Rs)	अपेक्षित बिडर का नाम व पता
01	विद्युतकल एवं संचार औद्योगिक विभाग	शिद्दयुक्त सं-1	Rs.5,100/-	श्री अरविंद कुमार अग्रहरी, कुलघाट गोरखपुर, 20090 (आपने टैप्पर के साथ रसीद सं-673/13798 दिनांक 05.08.2020 द्वारा टैप्पर मूल्य Rs.2,000/- तथा रसीद सं-673/13903 दिनांक 05.08.2020 द्वारा Rs.10,000/-बिडर बनवाये गिरे अनुभाग में जमा किया है।)
02	विद्युत अभियंत्रण विभाग	शिद्दयुक्त सं-3	Rs.11,151/-	श्री अरविंद कुमार अग्रहरी, कुलघाट गोरखपुर, 20090 (आपने टैप्पर के साथ रसीद सं-673/13798 दिनांक 05.08.2020 द्वारा टैप्पर मूल्य Rs.2,000/- तथा रसीद सं-673/13904 दिनांक 05.08.2020 द्वारा Rs.10,000/-बिडर बनवाये गिरे अनुभाग में जमा किया है।)
03	जनपदीय अभियंत्रण विभाग	शिद्दयुक्त सं-4	Rs.38,108/-	श्री अरविंद कुमार अग्रहरी, कुलघाट गोरखपुर, 20090 (आपने टैप्पर के साथ रसीद सं-673/13797 दिनांक 05.08.2020 द्वारा टैप्पर मूल्य Rs.2,000/- तथा रसीद सं-673/13905 दिनांक 05.08.2020 द्वारा Rs.10,000/-बिडर बनवाये गिरे अनुभाग में जमा किया है।)
04	सांख्यिक अभियंत्रण विभाग	शिद्दयुक्त सं-5	Rs.35,151/-	श्री अरविंद कुमार अग्रहरी, कुलघाट गोरखपुर, 20090 (आपने टैप्पर के साथ रसीद सं-673/13799 दिनांक 05.08.2020 द्वारा टैप्पर मूल्य Rs.2,000/- तथा रसीद सं-673/13906 दिनांक 05.08.2020 द्वारा Rs.10,000/-बिडर बनवाये गिरे अनुभाग में जमा किया है।)
05	आईटी/टीसी/एओ	शिद्दयुक्त सं-6	Rs.1,100/-	श्री अरविंद कुमार अग्रहरी, कुलघाट गोरखपुर, 20090 (आपने टैप्पर के साथ रसीद सं-673/13799 दिनांक 05.08.2020 द्वारा टैप्पर मूल्य Rs.2,000/- तथा रसीद सं-673/13907 दिनांक 05.08.2020 द्वारा Rs.10,000/-बिडर बनवाये गिरे अनुभाग में जमा किया है।)
06	छात्र क्रिया कलाप परिषद	शिद्दयुक्त सं-9	Rs.2,100/-	श्री अरविंद कुमार अग्रहरी, कुलघाट गोरखपुर, 20090 (आपने टैप्पर के साथ रसीद सं-673/13800 दिनांक 05.08.2020 द्वारा टैप्पर मूल्य Rs.2,000/- तथा रसीद सं-673/13908 दिनांक 05.08.2020 द्वारा Rs.10,000/-बिडर बनवाये गिरे अनुभाग में जमा किया है।)
07	कार्यशाळा अधीक्षक	शिद्दयुक्त सं-11	Rs.3,051/-	श्री अरविंद कुमार अग्रहरी, कुलघाट गोरखपुर, 20090 (आपने टैप्पर के साथ रसीद सं-673/13801 दिनांक 05.08.2020 द्वारा टैप्पर मूल्य Rs.2,000/- तथा रसीद सं-673/13909 दिनांक 05.08.2020 द्वारा Rs.10,000/-बिडर बनवाये गिरे अनुभाग में जमा किया है।)

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क्र. संख्या	विभाग का नाम	शिद्दयुक्त सं.	टैप्पर नीलामी मूल्य (Rs)	अपेक्षित बिडर का नाम व पता
08	परीक्षा अनुभाग	शिद्दयुक्त सं-12	Rs.3,500/-	श्री अरविंद कुमार अग्रहरी, कुलघाट गोरखपुर, 20090 (आपने टैप्पर के साथ रसीद सं-673/13802 दिनांक 05.08.2020 द्वारा टैप्पर मूल्य Rs.2,000/- तथा रसीद सं-673/13910 दिनांक 05.08.2020 द्वारा Rs.10,000/-बिडर बनवाये गिरे अनुभाग में जमा किया है।)

संलग्नक - उपरोक्त शिद्दयुक्त के निष्प्रेषण कबाड़ की सूची।

पुर्वोक्त व दिनांक-उपरोक्त।  
प्रतिलिपि-

- विभागाध्यक्ष, विद्युतकल एवं संचार अभियंत्रण विभाग को सूचनाएं व इस अनुरोध सहित प्रेषित कि, गेट-पास के निर्गमन के उपरान्त संलग्न शिद्दयुक्त-01 को सूची का निष्प्रेषण कबाड़ उपरोक्त बिडर को उपलब्ध करवाने का कष्ट करें।
- विभागाध्यक्ष, विद्युत अभियंत्रण विभाग को सूचनाएं व इस अनुरोध सहित प्रेषित कि, गेट-पास के निर्गमन के उपरान्त संलग्न शिद्दयुक्त-03 को सूची का निष्प्रेषण कबाड़ को उपरोक्त बिडर को उपलब्ध करवाने का कष्ट करें।
- विभागाध्यक्ष, जनपदीय अभियंत्रण विभाग को सूचनाएं व इस अनुरोध सहित प्रेषित कि, गेट-पास के निर्गमन के उपरान्त संलग्न शिद्दयुक्त-04 को सूची का निष्प्रेषण कबाड़ को उपरोक्त बिडर को उपलब्ध करवाने का कष्ट करें।
- विभागाध्यक्ष, सांख्यिक अभियंत्रण विभाग को सूचनाएं व इस अनुरोध सहित प्रेषित कि, गेट-पास के निर्गमन के उपरान्त संलग्न शिद्दयुक्त-05 को सूची का निष्प्रेषण कबाड़ को उपरोक्त बिडर को उपलब्ध करवाने का कष्ट करें।
- विभागाध्यक्ष, आईटी/टीसी/एओ को सूचनाएं व इस अनुरोध सहित प्रेषित कि, गेट-पास के निर्गमन के उपरान्त संलग्न शिद्दयुक्त-06 को सूची का निष्प्रेषण कबाड़ को उपरोक्त बिडर को उपलब्ध करवाने का कष्ट करें।
- अध्यक्ष, छात्र क्रिया कलाप परिषद को सूचनाएं व इस अनुरोध सहित प्रेषित कि, गेट-पास के निर्गमन के उपरान्त संलग्न शिद्दयुक्त-09 को सूची का निष्प्रेषण कबाड़ को उपरोक्त बिडर को उपलब्ध करवाने का कष्ट करें।
- कार्यशाळा अधीक्षक को सूचनाएं व इस अनुरोध सहित प्रेषित कि, गेट-पास के निर्गमन के उपरान्त संलग्न शिद्दयुक्त-11 को सूची का निष्प्रेषण कबाड़ को उपरोक्त बिडर को उपलब्ध करवाने का कष्ट करें।
- परीक्षा नियंत्रक को सूचनाएं व इस अनुरोध सहित प्रेषित कि, गेट-पास के निर्गमन के उपरान्त संलग्न शिद्दयुक्त-12 को सूची का निष्प्रेषण कबाड़ को उपरोक्त बिडर को उपलब्ध करवाने का कष्ट करें।
- कुलसचिव महोदय को सूचनाएं व आवश्यक कार्यवाही हेतु प्रेषित।
- भण्डार अधिकारी को सूचनाएं व उपरोक्त कार्यवाही हेतु प्रेषित।
- श्री जगदीश सिंह, स्टीरकीप को इस निर्देश सहित कि, उपरोक्तानुसार नीलामी-मूल्य घनराशि की जमा रसीदों के प्रस्तुत करने के उपरान्त संबंधित गेट-पास दरख्तासार्थ प्रस्तुत करना सुनिश्चित करें।
- कैशियर को तदनुसार आदेशित नीलामी-मूल्य जमा करने हेतु प्रेषित।

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## Green Audit Report 2019-20

### B. SOLAR ENERGY PLANT

The University has installed Solar PV Plant of capacity 550 kW and connected to back supply to state electricity board.



### C. USE OF LED LIGHTS

The energy audit recommends avoiding the use of more energy consuming electrical appliances and to replace with more environment friendly and energy efficient appliances (for example five stars rated Air conditioner) in the University. The potential of renewable energy sources must be explored. As the University has a very large roof area for installing solar panels so that it can be effectively used for generating power. The University has started steps in installing the solar panels for office.

Session	Total Lightning requirement	% Lightning through Led Lights	% Other Resource
2019-2020	7.01 Lac kW	56.01 %	43.99 %
2020-2021	5.41 Lac kW	64.01 %	36.00 %

### D. DUSTBINS IN THE PREMISES:

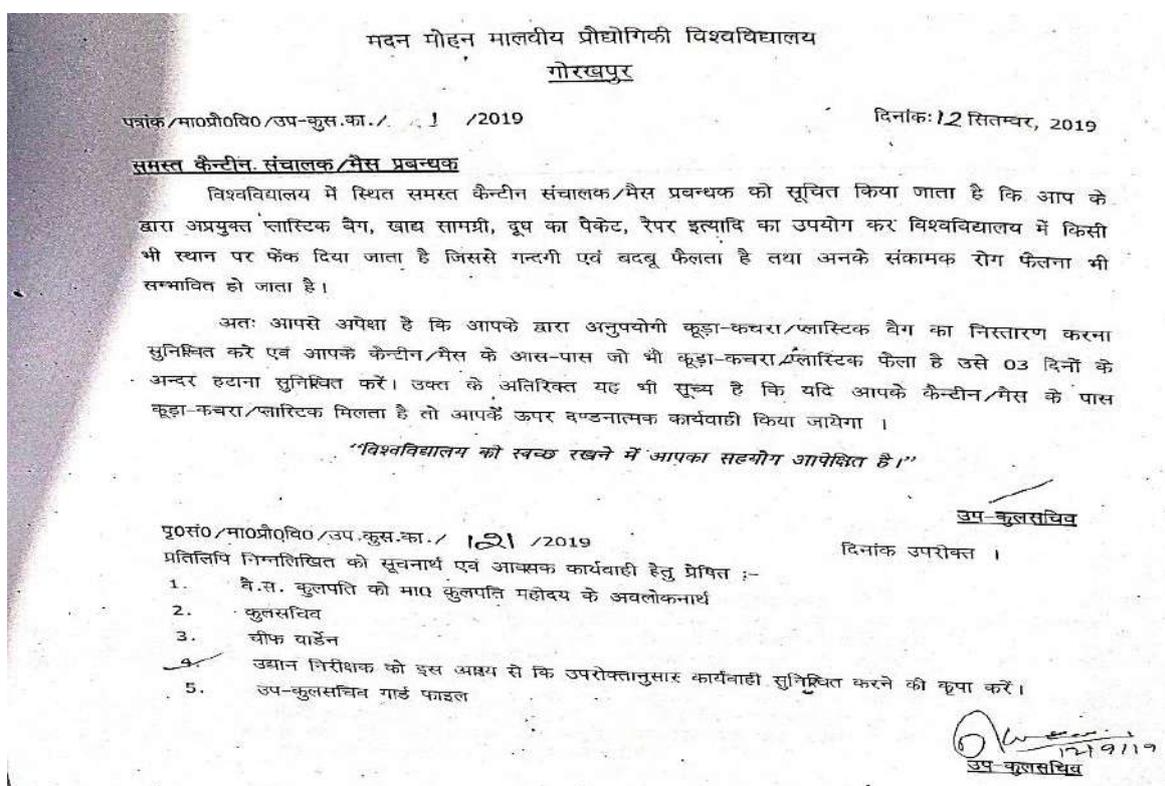
In our university campus all the laboratories, cabin and corridor are having dustbins. Laboratories are having separate dustbins for dry and wet wastage. The use of dustbins maintains garbage free campus.

## Green Audit Report 2019-20



### E. NO USES OF PLASTIC IN CANTEEN:

Our canteen uses paper plates, newspapers, utensils to control the uses of plastic in the University campus. It has helped in keeping the campus plastic free.



### F. USE OF DUST PROOF CHALKS:

All the classrooms and laboratories are fitted with white and green boards with dust free chalks and marker pens.

### G. FUTURE PLANES

1. To fit solar system on our roof of our university building for producing electricity.
2. To fit solar lamps on internal roads of the University.
3. To aware all staff member for paperless work in our institute.