



N.S.S.R'S

**MRS.KESHARBAI SONAJIRAO
KSHIRSAGAR ALIAS KAKU ARTS,SCIENCE
&COMMERCE COLLEGE,BEED**

DIST. BEED -431122



**GREEN AUDIT
2017-18**



Green Audit Report 2017-18

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1. INTRODUCTION :

Mrs. Kesharbai Sonajirao Kshirsagar Alias kaku Arts, Science & Commerce College Beed.(M.S.) run by Navgan Shikshan Sanstha Rajuri (N) was established in June 1971 by Honorable late Kesharbai Sonajirao Kshirsagar Alias kaku (Ex. Member of Parliament) with a noble & foresighted vision to provide higher education to rural youth. The college is affiliated to Dr. Babasaheb Ambedkar Marathwada University Aurangabad. The college is now a fully fledged Multi-Faculty institution with Strength of students about 4000. The college runs Junior Stream Arts, Science & Commerce & M.C.V.C. Under Graduate Courses like B.A. with Subjects English, Marathi, Hindi, Urdu, Sociology, Political Science, Economics, Physical Education, Geography, Home-Science, Dramatics, Music, Public administration. Under graduate faculty of Science B.Sc. offers Subject Chemistry, Physics, Zoology, Botany, Mathematics, Microbiology, and Computer Science. The college runs under graduate Commerce faculty B.Com. The college runs P.G.courses in various subjects like English, Marathi, Hindi, Political Science, Geography, Music, Home Science, Botany, Zoology, Microbiology, Computer Science and commerce. College is recredited by NAAC with 'A' Grade (3.11 CGPA) in Nov.2011. Also college is certified by ISO 9001-2015.

The College provides facilities like gym, sports, canteen , consumer store (Grahak Bhandar), pure drinking water cooler, ICT halls, well furnished teaching halls, well equipped laboratories, huge indoor games Auditorium, health care centre, girls hostel (Capacity of 100 girls), Medicinal botanical garden, Competitive examination coaching center, language laboratory for effective communication. Library is having plenty of books (approximately 75,000), research journals, magazines, E-library facility having e-sources. Separate rooms for girls & boys are made available.

Department of Home science, Microbiology, Zoology, Hindi, recognized as research centers for Ph.D. students. More than 15 research guides in various subjects doing effective research work in various fields. The College organizes tours, visits in all subjects at various places industries, museum etc. Remedial coaching for slow learners run effectively by each department. Departmental library is available to provide extra books for needy students. Two ICT halls are available for modern teaching learning process, with modern facility.

College arranges various Co-curricular & extracurricular activity like debate competition, elocution competition, essay writing competition, speech events, science exhibition. College organizes state level debating competition in the honour of Sonajirao Kshirsagar per year and winners are honoured with rotating silver trophy. Our N.S.S, N.C.C, Lifelong learning and extension department conducts society oriented programmes like blood donation camps, health awareness rallies, cleanliness camp, national integration camp, tree plantation, eco-friendly awareness programmes, literacy programmes. Student mentoring system plays an important role to solve over all problems of students. Earn and learn scheme is available for needy students.

Department of dramatics won more than 150 prizes at state level & other various competitions. Many students of our drama department play role in professional dramas, T.V. serials & in various films. Our sports department is extra- ordinary which plays an important role to provide best players for University team.

2. ENVIRONMENTAL POLICY OF THE COLLEGE :

Mrs Kesharbai Sonajirao Kshirsagar Alias kaku Arts, Science & Commerce College Beed is a quality conscious college. It protects its own environment with its green campus, kept pollution free. Environment development is its basic work with the educational policies implemented in the campus.

Well, the management and the students of the college look after the environment carefully. Every year, during rainy season, we do tree plantation and carefully look after it. It's our own responsibility to preserve the work done in the campus related to the environment.

We have decided our own environmental policy as-

- i. To create awareness regarding environmental policy of our college to our students and the management.
- ii. To maintain pollution free campus by avoiding tobacco, pan-masala etc., chewing in the campus. As per the govt. rules and regulations, the instructions are displayed in the campus.
- iii. To Use Solar Energy in College Campus by Solar Lamps & Solar water Heater in girls Hostel.
- iv. To sensitize the students and staff regarding the use of drinking water properly for which, we have provided aqua-guarded drinking water facilities in the campus.
- v. To bring into use the 'Rain Water Harvesting' in the campus. We have collected the rain water from the college roof and it is percolated in the land.
- vi. To use 'No Vehicle Day' concept and keep the campus vehicle free. It helps to save the fuel and make the people use their own natural means.
- vii. To use the ICT and use minimum paper. It will help to go towards 'Paperless Office'.
- viii. To use the garbage for recycling it in the form of fertilizers with the help of wormy compost plant
- ix. To reduce the 'sound pollution' in the campus, we have built the seating arrangements in the shade of trees in our campus..
- x. To use 'Use me' dust bin in the college campus so as to keep college campus clean
- xi. To maintain green campus, we are doing 'Green Audit' of our college

This is our environmental policy approved by our father institution, NSSR'S BEED

3. CONSTITUTION OF COMMITTEE :

The Green Audit Committee will act as per the environmental policy and should the responsibility of maintaining and protecting environment surrounding the college. 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
- ❖ Bio diversity and threatened species preservations
- ❖ 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:

Sr. No	Name of Member	Designation	Title in Committee
1.	Dr.Mrs.Deepa Bharatbhushan Kshirsagar	Principal	Chairman
2.	Dr.Hange A.S.	Vice Principal	Chief – coordinator
3.	Dr.Shelke A.N.	HOD Zoology Dept.	Coordinator
4.	Dr.Mrs Jogdand S.K.	Asst. Prof. Botany	Member
5.	Shri. Chavan A.D.	Asst. Prof. Geography	Member
6.	Shri. Sonawane R.B	Jr.lecturer Chemistry	Member

5. AIR POLLUTION MANAGEMENT

A. Periodic awareness programme for staff, students and society:

We at college continuously conducting awareness programmes 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 college students and faculty members through NSS/NCC are involved in the activities.



B. Plantation programme throughout the year:

We at Mrs Kesharbai Sonajirao Kshirsagar Alias kaku Arts,Science & Commerce College Beed are doing plantation programme through NSS unit, not only in college campus but also in Pali (Infant India),Kolharwadi village which is adopted by our college for the sake of environment awareness and planted more than 105 plants through NSS unit on 5th -11th Jan 2017. In our college campus we planted more than 41 trees from 2016-18. The tree plantation table is showed through the table mentioned below.

Sr. No	Year	No. of Plants	Total no. of plants
1.	2016-2017	20	31
2.	2017-2018	11	



C. Establishment of oxygen park, plantation of ox rich plants

Our college has a beautiful green campus. We have skillfully planted the plants like Pimpal, Neem Trees, & Tulsi so as to have oxygen and make the campus fresh full of oxygen. The greenery has remained useful in developing oxygen park in our college.

D. 'No Smoking, No Tobacco' in campus area:

Mrs Kesharbai Sonajirao Kshirsagar Alias kaku Arts, Science & Commerce College 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 college. In reference to this subject we created various eye opening posters and wallpapers through Ajivan Shikshan Vistar Seva Dept. in our college.



E. 'No Vehicle Day' in college at least twice in a month:

To avoid the pollution the vehicles are not allowed in the campus but they are parked in the parking area, reasonably away from college. Our college has separate parking area. The Second and the fourth Saturday is declared as no vehicle day in our college to avoid pollution. Every staff member and students are not allowed their vehicles on these two days and they cooperated gently.

F. Compulsory pollution check-up of 2W/4W:

To have a PUC certificate is a mandatory documents by RTO authorities, we are creating awareness and instructing students through periodic notices to go for PUC certification of their vehicles.

G. Display boards in college campus:

Various boards for the awareness on the environment control, noise control, tobacco free campus, conservation of energy, recycling of resources, tree plantation and environmental policy of college are displayed for all the stakeholders.



H. Periodic rallies and road shows for awareness:

Our college is having National Social Service (NSS/NCC/DRAMA Dept.) Unit which regularly takes part and arranges the street shows and rallies every year.

The students also took part in AIDS awareness rally, prevention of self-medication and Dengue awareness rallies. National and social outlook is inculcated in the students through programmes such as Constitution day, Swachh Bharat Abhiyan, blood donation camp, polio eradication, communal harmony, fund raising and natural calamities and other such activities through the NSS unit. We are linked with Sonajirao Kshirsagar Homeo. Medical college and arrange blood donation camp every year.



I. Eco-ventilators/Exhaust fans in laboratory and library:

All the laboratories and library are having good ventilation and exhaust fans.

J. Maintain data for flora of college campus:

Our Mrs Kesharbai Sonajirao Kshirsagar Alias kaku Arts, Science & Commerce College is having green campus, which comprises of following floras:

Sr. No.	Local Name	Botanical Name	Family	No. of Plants
1.	Gulmohar	<i>Delonix regia</i>	<i>Caesal pinaceae</i>	09
2.	Gultura	<i>Casia fistula</i>	<i>Fabaceae</i>	08
3.	Badam	<i>Terminalia fattappa</i>	<i>Combretaceae</i>	03
4.	Ashoka	<i>Polyanthia lungifolia</i>	<i>Annonaceae</i>	28
5.	Bottal Palm	<i>Hypophorbe legenicavlis</i>	<i>Palmaceae</i>	05
6.	Fan Palm	<i>Thrinax</i>	<i>Palmaceae</i>	05
7.	Jaswand	<i>Hibiscus rosasinensis</i>	<i>Malvaceae</i>	06
8.	Nilgiri	<i>Eucalgptus globulus</i>	<i>Myrtaceae</i>	03
9.	Gokarn	<i>Clitoria ternatia</i>	<i>Papilionaceae</i>	20
10.	Bugainvilia	<i>Bougainvillea spectabilis</i>	<i>Nyctanginaceae</i>	15
11.	Wad	<i>Ficus benghalensis</i>	<i>Moraceae</i>	01
12.	Amba	<i>Magnifera indica</i>	<i>Anacardaceae</i>	05
13.	Karanj	<i>Pongamia alata</i>	<i>Fabaceae</i>	09
14.	Thuja	<i>Thuja orientalis</i>	<i>Cupressaceae</i>	04
15.	Silver Oak	<i>Grevillea robusta</i>	<i>Porteaceae</i>	02
16.	Kadulimb	<i>Azadirachta indica</i>	<i>Meliaceae</i>	10
17.	Chinch	<i>Tamarindus indica</i>	<i>Caesalpinaceae</i>	03
18.	Cycus	<i>Cycas spe</i>	<i>Cycadaceae</i>	02
19.	Buch	<i>Milloingtonia hortensis</i>	<i>Prignoniaceae</i>	10
20.	Chota Gulmohar	<i>Caesalpina pulcherimma</i>	<i>Caesalpinaceae</i>	04
21.	Gulab	<i>Rosa indica</i>	<i>Rosaceae</i>	03
22.	Shishir	<i>Albizia lebbeck</i>	<i>Mimosaceae</i>	03
23.	Tulsi	<i>Ocimum sanctum</i>	<i>Labiatae</i>	22
24.	Tagar	<i>Tabemaemontana divaricata</i>	<i>Apocynaceae</i>	10
25.	Sankarty Vel	<i>Pyrostegia venusta</i>	<i>Bignoniaceae</i>	10
26.	Saptaparni	<i>Alistonia spp</i>	<i>Apocynaceae</i>	10
27.	Naral	<i>Cocos nucifera</i>	<i>Palmaceae</i>	03
28.	Duranta	<i>Durantaeecta</i>	<i>Verbenaceae</i>	20
29.	Kanchan	<i>Bavhnia racemosa</i>	<i>Cawalpinaceae</i>	03
30.	Sag	<i>Tectona grandis</i>	<i>Verneaceae</i>	01

6. NOISE POLLUTION MANAGEMENT

A. Silence zones in college like library, auditorium:

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

B. Noise control during any programme in college:

The college has one huge gate for the entry and exit of students, monitored by the security guard. The security guard and professors of sports department ensure smooth entry and exit of students without any noise and nuisance under Discipline Committee.



C. Controlling entry and exit of students monitoring.

1. Our college has the main gate & one gate in main building. The teaching learning programme and head office activities run in this building. During the annual social gatherings, we use the main gate through which the students can come and go easily. The emergency gates are used to control the rush of students.
2. We have the entry register for the people coming to our college who are not the students of the college. Most of the times, the parents visit the college, they register their names at the gate and then they are allowed to enter the college.
3. The security guard looks after the safety of the college campus.

D. No pressure horns for vehicle:

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



7. HUMAN HEALTH AND SAFETY MANAGAMENT

A. Group insurance for staff and students:

To ensure the safety of the staff members the college has adopted the group insurance. We are also going to open the insurance policy of our students.

B. Accident policy :

The staff has LIC insurance policy in relation to accident.

C. Periodic health check-up:

College organizes periodic health checkup for the students and the staff members of the college every year with the help of Sonajirao Kshirsagar Homeopathic. Medical college and other private medical teams.

D. HB, Blood group for Students:

Our college organizes blood donation camps with the help of Civil Hospital, Beed. It has helped us in getting the blood group of our students. The HB Checkup also takes place

which helped our students in looking after their diet. The college, time to time organizes health care camps through the 'Health care Centre' in College.

E. Awareness campaign on human health:

Various lectures and programmes are arranged for creating health awareness and developing good habits among students and staff members. Road shows are presented through NSS unit for health awareness. Every year NSS unit organizes a camp in nearby villages and plans to clean the village campus and various lectures are organized to create awareness in villagers. In 2016 NSS unit held the camp in Pali (Infant India) village and in the present year the camp was held in Pali (Infant India) village.



F. Sanitary napkins vending machines in ladies room:

It is available in girl's Hostel & Girls common room. The use of sanitary napkins is very important for girl students and ladies staff for maintaining their fit health.

G. Yoga / Meditation for staff at least once in a week

Health is wealth, is understood by our students and staff. Our college campus provides the facilities of indoor and outdoor stadium for the students, staff and the citizens of Beed. Our sports faculty provides proper guidance and we are motivated to do the daily exercise of Yoga / Meditation in the college.



H. Awareness campaign for Society for vector born diseases like Polio, Dengue etc. and City Roads :

Our college's NSS, NCC & Drama Dept. units regularly arrange street shows and rallies for creating awareness in society on Dengue and other diseases. Also done awareness campaigns for Aids, Cancer, TB with coordination with Beed Municipal Corporation.

H. Awareness campaign for aids, cancer and TB with coordination of Civil Hospital

Our college NSS activities, NCC activities are visible in doing the awareness regarding Aids, Cancer and TB. Time to time, the other activities of the college also creates awareness by organizing poster competitions, wallpapers etc.

I. Arranging Blood donation camps:

The NCC unit of Mrs. Kesharbai Sonajirao Kshirsagar Alias kaku Arts, Science & Commerce College Beed organizes blood donation camps in association with Civil Hospital Beed every year..& Collaboration with Homeopathic Medical College, Beed

Sr. No	Year	No. of students who donated blood	Total
1	2014-2015	45	124
2.	2016-2017	75	
3	2017-2018	04	



J. Bus passes for students:

Our college having the students from the neighborhood of the rural area. Our college helps these students in getting the bus passes. We have developed linkage with the office of bus depot. so as to help the students smoothly in getting the facility. It has helped the college to increase the strength which doesn't use vehicles due to which the reduction of air pollution takes place .

K. Fire safety:

Mrs. Kesharbai Sonajirao Kshirsagar Alias kaku Arts, Science & Commerce College Beed is having awareness & safety facility. we have about 26 fire extinguisher all across College Buildings. Fire extinguishers are fixed in the main building, library building, Auditorium, Canteen, and all Dept. of the college for safety purpose.

L. SOP's on safety in laboratory and first aid box:

All the laboratories are equipped with SOP's, Do's Don't' 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 college.

M. 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.	Office of the College	02442-222641
1.	Hospital	09765147753 02442-225458
2.	Police Station	02442-233056 100
3.	Women Helpline	103
4.	Fire Brigade	02442-222226
5.	Ambulance	108

N. Controlled area for storage of hazardous chemicals:

- **Safety work instruction when using hazardous chemicals**
 - While using hazardous chemicals, Don't eat, drink, food beverages & wait until your work is done. You need wash your hands clean & Neat.
 - Make sure you know where the nearest fire fighting equipment is located.
 - The Hazardous substances should always be in accordance with the M.S.P.S. specification.
 - Only use the product for it's intended purpose never misuse the product for anything other than its intended purpose.
 - **Personal chemical safety rules :**
 - Wear gloves & glasses where appropriate while handling chemicals.
 - Follow instructors directions.
 - Disposal of waste properly.
 - Lab coat to be wear all the time in lab.
 - Wear shoes.
- 8.** Safety goggles must be wear all the time while working in the lab.

SOIL POLLUTION MANAGEMENT:

A. Wormy compost plant in college (use of bio-fertilizers):

Our college has Planned wormy compost plant in future, For collection of our college garbage in it. It is biocompatible and of natural origin.

B. Rain water harvesting:

Our college is having rain water harvesting system to conserve the rain water. The earth water level is increased which helped to have water to our college hand pump /boar. It increases natural storage of water, and helps the college in getting water for various purposes.we have 210 running meter pipeline use for this purpose.the total 12391 sq. meter are roof water is collected through this system.

Rain Water 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 college campus also substantially increased. Therefore college has installed three rooftop rain water harvesting systems in the college 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 college.

System-1: Area of the rooftop of hall number 55, 56, 57 = 3872 sq. ft.

System-2: Area of the rooftop of hall number 58, 59, 60, 61, 62 = 5075 sq. ft.

System-3: Area of the rooftop of girls hostel = 3444 sq. ft.

Total area of proposed catchment = 12391 sq. ft.

➤ Design of transportation system:

For transporting the rain water 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 2.5 - 3 inches diameter. A care has been taken that the first spell of rain is flushed out and does not enter the system. This is done since the first spell of rain carries a relatively larger amount 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 boys parking slot. In case of system-2, filtered water is transferred into the bore well in the staff

parking slot and in case of system-3 rain water from girl's hostel rooftop is transferred into specifically designed dug well near the bore well of girls hostel.

➤ **Approximate amount of water percolated under the ground per year:**

The average monsoon rainfall in the area is approximately 666 mm per year. From average rainfall and the total surface of rooftop catchment area for each system, we have calculated the amount of water percolated under the ground per year which is given as below.

- ❖ System-1= 2,32,000 litres of water
- ❖ System-2= 3,04,000 litres of water
- ❖ System-3= 2,06,000 litres of water

C. Plastic free environment:

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

9. OTHER SECTORS FOR ENVIRONMENT MANAGEMENT:

The college has constituted the 'Environmental committee' to look after the solid, liquid and e-waste management and other environmental issues. The committee sets out to identify the types of wastes, category of waste generators, how to collect, handle and dispose wastes; and who will be responsible for what kind of waste. First step of the process is 'Waste Survey' and a common reference-point to start a practice in waste management. Few steps outlined below are identified for the waste management process.

10. Waste Management:

The college has constituted the 'Green Audit committee' to look after the solid, liquid and e-waste management and other environmental issues. The committee sets out to identify the types of wastes, category of waste generators, how to collect, handle and dispose wastes. Few steps outlined below are identified for the waste management process.

Steps of Waste Management:

1. Survey of waste:

Primarily we identify sources of wastes and types of wastes generated in the college campus. Therefore, first step for waste management system is Waste Survey.

2. Sources of Wastes from where waste generates:

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

1. Principal office
2. Administrative Office
3. Library building
4. Seminar Halls and Students Classrooms
5. Indoor sports hall cum Auditorium
6. College Canteen
7. Girls Hostel
8. Dining Halls
9. Hostel Kitchen
10. Hostel Grocery Stores Room / Crockery Store Room
11. Health Centre
12. Play Ground
13. Various Departments
14. Laboratories.

3. Types of Wastes and existing practice of waste disposal

After finding the places from where waste is generated, the next step is to dispose the different types of wastes (wet, dry and hazardous waste) as per the plan mentioned in the table below.

Type of waste	Disposed at common waste bins Municipality use it for composting	Dumped in road side, and street corners / vacant plots	Send to Waste Pickers for recycling
Wet Waste			
Vegetable peels	✓		
Fruit peels	✓		
Rotten fruits and vegetables	✓		
Leftover food	✓		
Used tea / tea bags	✓		
Used coffee ground	✓		
Egg shells	✓		
Expired other food items	✓		
Mango kernel & any seed		✓	
Coconut fibre	✓		
Used flowers / dry flowers	✓		
Spoiled spices	✓		

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Floor sweeping dust	✓		
Garden shrubs	✓		
Dry Waste			
Soap covers / pockets / sachets	✓		
Empty shampoo bottles, Empty perfume bottles / containers of deodorants / shaving creams	✓		✓
Empty Chemical Bottles			✓
Milk covers	✓		✓
Used door mats/door mats			✓
Used tooth brush			
Chocolate wrappers	✓		
Butter wrappers	✓		
Used mop cloth	✓		
Ghee / oil pockets / cans			✓
Package / polythene covers / Plastic covers			✓
Newspapers / card boards			✓
cosmetics containers			✓
Styrofoam			
Broken stationery like used pens, pencil sharpener			✓
Empty cans of floor cleaners			✓
Kurkure / Lays packets	✓		
Sachets (of shampoo, creams etc.)	✓		
Bisleri kind of water bottles			✓
Used tooth paste tubes etc.	✓		
Metal tins, and cans (e.g Pepsi Coke cans)			✓
Small tubs like the ones used for yogurt, cheese, jam			✓
Hazardous Waste			
Mosquito repellent refill bottles/ Mosquito repellent mats			✓
Expired medicines		✓	
Tablet covers / Syrups bottles			✓
Any medical discard		✓	
Sanitary napkins	✓		
Children's diapers	✓		
Used razor / razor blades	✓		
Old batteries			✓
Fused bulbs / tubes / electrical items	✓		✓
Broken glasses / ceramics	✓		✓

Empty cans of toilet cleaners			✓
Expired cosmetics		✓	
Cockroach killers / spray cans			✓
Old printer cartridge / CDs	✓		✓
Waste generated at Laboratories after proper treatment		✓	
Old Electronic items / parts			✓
Pieces of wires, old chargers, old pen drives	✓		✓

4. List of e-waste:

1. CD/DVDs
2. Pen drives
3. Cables / Wires
4. External drives
5. Modems
6. GPS units
7. Thermostat flasks
8. Calculators
9. Dry cell batteries
10. Electronic scrap parts
11. Mouse / Key board such items
12. Speakers
13. PCs
14. Laptops
15. Printers
16. Air-conditioners
17. Freezers
18. Digital Thermostats
19. Fluorescent Lamps and tubes
20. Incandescent Light bulbs.

A. Solid Waste Management:

Wet Waste especially from kitchen & girls hostel such as vegetable refuses, food scraps etc. are collected & Transported to Municipal Corporation Beed for composting.

Basic principles of Dry Waste Management are 4Rs: Refuse, Reduce, Reuse & Recycle:

Refuse: Do not buy anything which we do not really need.

Reduce - Reduce the amount of garbage generated. Alter our lifestyle so that minimum garbage is generated.

Reuse - Reuse everything to its maximum after properly cleaning it. Make secondary use of different articles.

Recycle – Keep things which can be recycled to be given to rag pickers or waste pickers for recycling.

Segregation at source: Store biodegradable and non biodegradable solid waste in different bins. Recycle of all the components with minimum labor and cost. 3) Different treatments for different types of solid wastes: One must apply the techniques which are suitable to the given type of waste. 4) Treatment at nearest possible point: The solid waste should be treated in a decentralized manner as possible. The waste generated should be treated preferably at the site of generation. Dry waste must undergo shifting for picking out the recyclable to be passed on to the recyclers. The residual reject are sent for incineration in & eco friendly in incinerator.

B. Liquid waste Method:

Liquid waste is appropriately treated for minimizing its toxicity before being discharged into the sewer systems or dumped into land pit or burn it. Liquid waste is treated with chemical disinfectants, neutralized with appropriate reagents then flushed into the sewage system. Thus, liquid waste management includes procedures and practices that prevent discharge of untreated pollutants to the drainage system or to water bodies as a result of the creation, collection, and disposal of non-hazardous liquid wastes.

C. E-waste Management:

Designate a room in the Campus which may be called ‘Material Recovery Centre’ (MRC). The discarded e-wastes from all the office blocks in the campus shall be sent to the MRC, and stored there until it is sent to e-waste recyclers. Electronic-waste from office can be discarded in two ways. One way is Extended Producer Responsibility (EPR). Under EPR manufacturers of computers, and other electronic items should take back end-of-life products. If some Producers / manufacturers want to appoint a ‘Producer Responsibility Organisation’, which - on behalf of manufacturers - collect, dismantle and recycle end-of-life products can do so. Institution is used such facility for the disposal of e-waste. The idea is demanding the producers to take back e-waste through the same channel they used for placing a products in customers hands. This can be something like an exchange offer. It is estimated that 75% of

electronic items are stored due to uncertainty of how to manage it. These electronic junks lie unattended in houses, offices, warehouses etc. and normally mixed with household wastes, which are finally disposed off at landfills. This necessitates implementable management measures.

A. Use of LED bulbs in college:

Principle's Office, Office of IQAC, Administrative Office, Library, Guest Rooms, Indoor Stadium, Ladies Common Room, Virtual Classrooms, Language Lab, Computer Labs, Science Lab, Departmental Offices, and all classrooms have LED bulbs to save energy.

Total lightning Requirements	Percentage(%)lightning through LED bulbs	Percentage Lightning through other sources
12190 kilowatt	1138 kilowatt	9.33

B. Conducting energy audit :

In near future, we are about to conduct energy audit of our college. It will help us in maintaining our energy use in the college campus.

Alternate energy initiatives

Such as

Percentage of annual Power

Requirment of institution met by the renewable Energy sources

Power requirement met by renewable energy sources	Total power requirement	renewable energy source	renewable energy generated & use	Energy supplied t o the Grid
10585 kilowatt	45904 kilowatt	Solar Flood Light	10585 Kilowatt	Nil
		Solar water Heater		

C. Dustbins in the premises:

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

D. Observation (e.g. staff dispose of waste appropriately and follow good practices – ie wash hands after handling waste; staff responsible for removing waste from food areas and cleaning containers carry out their duties appropriately). This includes observations with regard to Pest Control as well..

E. No uses of plastic in canteen :

Our canteen uses paper plates, newspapers, utensils so as to control the uses of plastic in the college 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. Minimum use of Potocopy/printing:

In our college minimum data is converted into soft copies and procedures are digitalized which minimizes the use of printing papers. We also put warning stickers on each Photocopy/ Printing machine to use. The maximum working procedures are paperless. We take the already one sided Photocopy papers in use to avoid the maximum use of papers.