



GREEN CAMPUS INITIATIVES

PRINCIPAL
KHAMMAM INSTITUTE OF TECHNOLOGY & SCIENCES
Ponnkala (V), Khammam (R)-507117
Khammam (Dist.) T.S.

Estd: 2008



Sri Kavitha Educational Society's

KHAMMAM INSTITUTE OF TECHNOLOGY & SCIENCES

(Affiliated to JNTUH & Approved by AICTE, New Delhi)

Ponnekal (Village), Khammam (Rural), Khammam (Dist) -507170

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CHAPTER -1: PREAMBLE

A Green Campus is a place where environmental friendly practices and education combine to promote sustainable and eco-friendly practices in the campus. The green campus concept offers an institution the opportunity to take the lead in redefining its environmental culture and developing new paradigms by creating sustainable solutions to environmental, social and economic needs of the mankind.

Greening the campus is all about sweeping away wasteful inefficiencies and using conventional sources of energies for its daily power needs, correct disposal handling, purchase of environment friendly supplies and effective recycling program. Institute has to work out the time bound strategies to implement green campus initiatives. These strategies need to be incorporated into the institutional planning and budgeting processes with the aim of developing a clean and green campus.

Major Green campus Initiatives in KHAMMAM INSTITUTE OF TECHNOLOGY AND SCIENCES (KITS) campus:

- Electric powered vehicle for campus ride
- Rain water Harvesting
- Institute community Garden
- Recycling bin for e-waste
- Use of LED
- Digital Library/ e-learning centre
- Restricted entry of vehicles
- Restricted Parking
- Sewage treatment Plant
- Usage of bicycles and public transport
- Pedestrian friendly Road
- Paperless office
- Plastic free campus
- Plantation of exotic fruits


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CHAPTER -2: INTRODUCTION TO THE CRITERION

A Green Campus is a place where environmental-friendly practices and education combine to promote sustainable and eco-friendly practices in the campus. The green campus concept offers an institution the opportunity to take the lead in redefining its environmental culture and developing new paradigms by creating sustainable solutions to environmental, social and economic needs of the mankind. In KHAMMAM INSTITUTE OF TECHNOLOGY AND SCIENCES (KITS), we practice and maintain the following criteria and policies to make it a pollution free, energy saving green campus.

GREEN CAMPUS POLICY

1. Restricted entry of vehicles

- All the vehicles of college staff/ faculty members should be getting the emission certification before entering the vehicle in college campus.
- The college encourages the employees and students to frequently use public transport, bicycles, etc. to limit the emissions.

2. Use of Bicycle/ battery powered vehicles

- College uses the Battery-powered vehicles for in- house transport.
- All electricity use within a new building space maximizes the use of renewable energy.

3. Pedestrian-friendly pathways

- KHAMMAM INSTITUTE OF TECHNOLOGY AND SCIENCES (KITS) campus follows the Pedestrian-friendly pathways in all the buildings.
- Pedestrian-friendly pathways are properly marked with suitable logo/sign.

4. Ban on use of Plastic

- The college continuously committed to work towards plastic-free campus.
- In the KHAMMAM INSTITUTE OF TECHNOLOGY AND SCIENCES (KITS) campus there is complete ban on single-use plastics in class room, labscanteens in the institution's premises and hostels.

5. Landscaping with trees and plants

- As per the green practices in the campus KHAMMAM INSTITUTE OF TECHNOLOGY AND SCIENCES (KITS) is moving in the direction of a Green Institution in Khammam, Telangana planting more trees within and outside the campus.
- Medication plants and more fruit plants and trees have been planted to clean the atmosphere

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BENEFITS OF THE GREEN-CAMPUS

Benefits to the Environment	Benefits to Institute
<ul style="list-style-type: none"> • Environmental impacts of the Campus are quantified so targets and performance indicators can be set • Improves overall environmental performance • Improves waste management • Decreases resource use • Improves management of environmental aspects 	<ul style="list-style-type: none"> • Forum for university management, academic staff and students to meet • Creates a more balanced campus community • Empowers students and staff • Encourages innovation and change • Prevents and reduces environmental impacts • Reduces associated costs • Good publicity
Benefits to Students and Learning	Benefits to Local and Wider Community
<ul style="list-style-type: none"> • Improves learning outcomes • Research skills (developing an action plan, investigation, setting targets, monitoring progress and reporting progress) • Transferable skills to workplace: communication, facilitation, teamwork, committee servicing • Introduction to new topics • Curriculum links: using data currently generated, investigative research, problem based research 	<ul style="list-style-type: none"> • Sets an example in the locality • Involves local groups and representatives • Shares experience and best practice • Links to other An Taisce programmes <ul style="list-style-type: none"> - Clean Coasts - Green Home - Green Schools - National Spring Clean - Greening Communities • Reduces waste generated, travel impacts etc. • in community • Institute becomes a better neighbor



BATTERY POWERED VEHICLES IN THE KHAMMAM INSTITUTE OF TECHNOLOGY AND SCIENCES (KITS) CAMPUS

A battery operated vehicle photo type service in the campus of KHAMMAM INSTITUTE OF TECHNOLOGY AND SCIENCES (KITS) was started in 2016. With this initiative, KHAMMAM INSTITUTE OF TECHNOLOGY AND SCIENCES (KITS) adopted a green culture and also promotes a greener ecosystem along with providing a pollution-free atmosphere to the residents inside the campus.

KHAMMAM INSTITUTE OF TECHNOLOGY AND SCIENCES (KITS) is committed towards building a green campus. It has achieved a fairly good amount of success in this endeavor through massive plantation drives, cycling culture, rain-water harvesting, and the same will continue. With the installation of electric vehicles inside the campus, KHAMMAM INSTITUTE OF TECHNOLOGY AND SCIENCES (KITS) is looking forward to going one step ahead on lines with the Govt of India which has been working aggressively on promoting new and renewable sources. The KHAMMAM INSTITUTE OF TECHNOLOGY AND SCIENCES (KITS) members can avail this as a means of transportation and it is helpful to all the residents in the campus.

Benefits:

1. Better for the environment

Less pollution: By choosing to drive an EV we are helping to reduce harmful air pollution from exhaust emissions. An EV has zero exhaust emissions.

Renewable energy: If we use renewable energy to recharge the EV, we can reduce the greenhouse gas emissions even further. We could recharge the EV from the batteries PV system during the day instead of from the grid.

Eco-friendly materials: There is also a trend towards more eco-friendly production and materials for EVs. This Electric is made up of recycled materials and the padding is made out of bio based materials.

2. Health benefits

Reduced harmful exhaust emissions is good news for our health. Better air quality will lead to less health problems and costs caused by air pollution. EVs are also quieter than petrol/diesel vehicles, which mean less noise pollution.

3. Safety improvements

Recent findings have shown that several EV features can improve safety. EVs tend to have a lower centre of gravity that makes them less likely to roll over. They can also have a lower risk for major fires or explosions and the body construction and durability of EVs may make them safer in a collision




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4. Our energy security

On a national level, EVs can help with India's energy security. At present, India is highly dependent on other countries for petroleum imports. EVs are easy to power from local and renewable energy sources, reducing our dependence on foreign oil.



Fig. 1 : E-vehicle

Lush Green Institute Garden

Green Landscaping with Trees and Plants – the campus is beautifully landscaped and has received appreciation in form of many awards and certificates. Plantation of around 1000 plants has been done including a number of exotic plants. An active ECO club ensures the organization of tree plantation on World Environment Day, College level Green Festival HARITIMA and various awareness programs & events every year. A rich variety of flora and fauna predominates the natural landscape of the campus. Exotic fruit trees are also planted in the campus.

KHAMMAM INSTITUTE OF TECHNOLOGY AND SCIENCES(KITS) is also participating in Telangana Harithaharam by Mr.Pasha,NSS Coordinator, which is an initiative to students in plantation of the plants in the campus.



Fig. 2: Green Landscaping in campus

RAIN WATER HARVESTING

Water scarcity is a serious problem throughout the world for both urban & rural communities. Urbanization, industrial development & increase in agricultural fields & production has resulted in overexploitation of groundwater & surface water resources and resultant deterioration in water quality. The conventional water sources, namely wells, rivers and reservoirs, etc. are inadequate to fulfill water demand due to unbalanced rainfall. While the rainwater harvesting system investigates a new water source.

In KHAMMAM INSTITUTE OF TECHNOLOGY AND SCIENCES (KITS) campus a rainwater harvesting system is implemented. The runoff from the terrace of the college building is channelled into a recharge well located near the southern end of the academic block. The runoff from the unpaved area is intercepted at a collection trench. From here the runoff eventually drains into an abandoned open well, which facilitates groundwater recharge.

Fig 3: Rainwater Harvesting Recharge Tank





Fig 4: Pipeline for Rainwater Harvesting



DIGITAL LIBRARY/ E-LEARNING CENTRE

College of Engineering ,Roorkee is equipped with a digital library. The user can get his/ her information on his own computer screen by using the Internet. Actually it is a network of multimedia system, which provides fingertip access. A brief summary of e-learning resources is listed below

Online Journals (Engineering)	AVAILABLE
Online Journals (Management)	AVAILABLE
e-Books	AVAILABLE

Outcomes of e- learning centre are :

- 1. No physical boundary:** The user of a digital library need not to go to the library physically, people from all over the world could gain access to the same information, as long as an Internet connection is available.
- 2. Round the clock availability:** Digital libraries can be accessed at any time. 24 hours a day and 365 days of the year
- 3. Multiple accesses:** The same resources can be used at the same time by a number of users.
- 4. Structured approach:** Digital library provides access to much richer content in a more structured manner i.e. we can easily move from the catalog to the particular book then to a particular chapter and so on.
- 5. Information retrieval:** The user is able to use any search term bellowing to the word or phrase of the entire collection. Digital library will provide very user friendly interfaces, giving click able access to its resources.
- 6. Preservation and conservation:** An exact copy of the original can be made any number of times without any degradation in quality.
- 7. Space:** Whereas traditional libraries are limited by storage space. digital libraries have the potential to store much more information, simply because digital information requires very little physical space to contain them. When the library had no space for extension digitization is the only solution.
- 8. Networking:** A particular digital library can provide the link to any other resources of other digital library very easily thus a seamlessly integrated resource sharing can be achieved.

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9. Cost: The cost of maintaining a digital library is much lower than that of a traditional library. A traditional library must spend large sums of money paying for staff, book maintains, rent, and additional books. Digital libraries do away with these fees.



Fig : KHAMMAM INSTITUTE OF
TECHNOLOGY AND SCIENCES(KITS)
Library

RESTRICTED ENTRY OF VEHICLES AND PARKING

In KHAMMAM INSTITUTE OF TECHNOLOGY AND SCIENCES(KITS) campus, entry of vehicles is restricted. At the main gate of college, visitors' entry register is maintained that records the vehicle license number of all visitors. In its endeavour to reduce the pollution in campus, authorities at College of Engineering Roorkee (KHAMMAM INSTITUTE OF TECHNOLOGY AND SCIENCES(KITS)) have issued vehicle security passes to the KHAMMAM INSTITUTE OF TECHNOLOGY AND SCIENCES(KITS) employees for their vehicles.

RECYCLING BIN FOR E-WASTE

Recycling bins are kept at different locations of KHAMMAM INSTITUTE OF TECHNOLOGY AND SCIENCES(KITS) Academic block, lab block, computer centre and at hostels with a view to conserve energy, help the environment, reduce pollution, slow global warming and lower waste products in landfills. By recycling, people can have something to do with the earth's overall health and keep the air, water and land clean. Through recycling, less materials are placed in the landfills, and there is more room in the landfills for non-biodegradable garbage materials.

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USE OF LED

As a step towards energy saving, total lightings of class rooms, labs and hostel are replaced with LED panels.

The outcomes of LED lights are as given below:-

- Long life. The components of an LED and the way that they generate light significantly extend the lifespan of these bulbs. ...
- Energy efficiency. ...
- High brightness and intensity. ...
- Exceptional colour range. ...
- Low radiated heat. ...
- Reliability. ...
- Instantaneous illumination. ...
- Directional lighting.



Fig : LED lights



28-09-2020

CIRCULAR

It is here by informed that there will be an awareness program on **“Banon use of plastic “**on 1/10/2020 Attend without fail


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2. Dr. KV. Ramana Rao, Principal, KMDC, Khammam, Academician / Industrialist
3. Mr. N. Naveen Kumar, DE, QC, Panchayitiraj
4. Dr. V. Devendar, Vice Principal, convenor
5. Mr. V. Sudarsan, HOD, CSE
6. Mr. K.Rajesh, HOD, ECE
7. Mr. J.Bala Krishna,I/C HOD, ME
8. Mr. CH. Krishna Prasad, HOD, EEE
9. Mr. G.Venkanna, HOD, Civil
10. Mr. J.V. Brahmam, HOD, H&S
11. Mr. Sd. K. Pasha, i/c Examination Branch



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7.1.5 Green campus initiatives include:

The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this background it becomes essential to adopt the system of the Green Campus for the institute which will lead for sustainable development.

KITS works on the several facets of 'Green Campus' including Water Conservation, Tree Plantation, Waste Management, Paperless Work, Alternative Energy and Mapping of Biodiversity. On visiting the Campus, one can experience the aesthetic and elegant buildings, splendid lawns; spacious sports ground and lush green environment conducive for teaching- learning process.

I. Restricted entry of automobiles

Automobiles are not permitted inside the campus



Two wheeler parking



Four wheeler parking



1. **Use of Bicycles/ Battery powered vehicles**

The approach road from the main road and the roads within the campus are laid with taru road 30feet width and separate markings are made for waking of pedestrians. The path from the main gate to the academic buildings has Pedestrian friendly foot paths.

Use of Bicycle



Use of Battery powered vehicles



2. Pedestrian Friendly pathways

PEDESTRIAN FRIENDLY ROAD

The approach road from the main road and the roads within the campus are laid with taru road 30 feet width and separate markings are made for waking of pedestrians. The path from the main gate to the academic buildings has Pedestrian friendly foot paths.



Friendly pathways in the campus



3. Ban on use of Plastic

KITS is a Plastic Free Campus, with an aim to measurably reduce plastic pollution, with a special focus on the reduction and ultimately the elimination of plastic bottles, plastic straws and utensils, and plastic food packaging to promote the use of eco-friendly cloth and jute bags.

Plastic cups and Paper cups lined with plastic/wax are banned in the canteen. The hot beverages are served in steel mugs/glass. Students and staff are motivated to use their own mugs/cups instead of paper cups.

Ban of use of plastic in the campus




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3. Landscaping With Trees and Plants

Good number of trees are planted and grown in and around the KITS campus. Campus is located in the vicinity of rich biodiversity. KITS is parkland components of rolling grassland, individual and clumped trees. The college is surrounded by good plantation which helps in preventing the soil erosion and air pollution to contribute to the environment. Plants not only beautify the campus, but also reduce the amount of carbon dioxide and carbon monoxide. The college has the very beautiful green campus. There are many ornamental plants and vegetation, plants in and around the college campus.

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KITS Engineering College has established a concept under the title of **“KITS ECO Concept”** with the slogan of GO GREEN to generate awareness among the students for protection and conservation of nature and natural resources and to greeneries where ever possible within the campus.



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USAGE OF PUBLIC TRANSPORT

BUSSES ROOTS AND TIMINGS

BUS ROOTS AND TIMINGS, KITS								
BUS NO.	NAME OF THE DRIVER	TIME FROM AM I TRIP	TIME TO AM II TRIP	TIME FROM AM II TRIP	ROOT FROM PM I TRIP	ROOT FROM PM II TRIP	CELL NUMBER	SIGNATURE OF THE DRIVER
1	K. RAMARAO	8:00 NKDM, PALAIR	8:50 KITS	9:15 NKDM	4:00 KITS	5:00 KITS	9849588088	
2	SATEESH	8:00 BALLEPALLY	8:50 KITS	9:00 BALLEPALLY	4:00 KITS	5:00 KITS	9881325063	
3	SURESH	7:30 AGRAHARAM	8:50 KITS	9:00 AGRAHARAM	4:00 KITS	5:00 KITS	7730908700	
4	P. RAMESH	7:30 VALLABH	8:50 KITS	NO	4:00 KITS	5:00 KITS	9705476112	
5	MALLESHAM	7:40 MANILLAGUDEM	8:50 KITS	NO	4:00 KITS	5:00 KITS	6300376456	
6	B. SWAMY DAS	7:40 WYRA	8:50 KITS	NO	4:00 KITS	5:00 KITS	8908065174	
7	D. NAGESH	7:50 BENDLOW	8:50 KITS	NO	4:00 KITS	5:00 KITS	8701213272	
8	M. UPENDAR	8:00 ROTARY NAGAR	8:50 KITS	9:00 ROTARY NAGAR	4:00 KITS	5:00 KITS	9000326794	
9	SRIKANTH	8:00 KMDC	8:50 KITS	9:20 AGRAHARAM	4:00 KITS	5:00 KITS	9182409488	
11	N. VENKATESWARLU	7:30 GUVVALAGUDEM	8:50 KITS	NO	4:00 KITS	5:00 KITS	9963831178	
12	K. SATYANARAYANA (JAGAN 6293024313)	8:00 KMDC	8:50 KITS	9:00 KAMAN BAZAR	4:00 KITS	5:00 KITS	9885567671	
13	SK. MOULANA	8:00 KMDC	8:50 KITS	9:00 SAREETHA CLINIC	4:00 KITS	5:00 KITS	8959134143	
14	K. SRINIVASA RAO	8:00 KMDC	8:50 KITS	9:00 GURRALAPADI	4:00 KITS	5:00 KITS	9705438891	
15	SANDEEP	8:00 KMDC	8:50 KITS	9:00 BALLEPALLY	4:00 KITS	5:00 KITS	9018194955	


 DRIVER
 BUS INCHARGE


 P. UPENDAR
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Pedestrian Friendly pathways

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Ban on use of Plastic

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Landscaping With Trees and Plants:

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KITS Engineering College has established a concept under the title of “KITS ECO Concept” with the slogan of GO GREEN to generate awareness among the students for protection and conservation of nature and natural resources and to greeneries where ever possible within the campus.



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POLICY DOCUMENT TOWARDS GREEN CAMPUS INITIATIVES

Khammam Institute of Technology and Sciences (KITS) is established 15 km away from town surrounded by farming fields. The institution is field with trees and beautiful garden.

The initiatives towards the establishment of high-quality environmental conditions are the prime motto of the institution.

The institution ambience is so arranged in such a way that hygienic environmental conditions for congenial teaching learning process must be provided for the students registered in this institution. A Green Campus is where natural cordial practices and instruction consolidate to advance maintainable and eco-accommodating practices in the grounds. The green grounds idea offers an organization the chance to lead the pack in reclassifying its natural culture and growing new ideal models by making practical answers for ecological, social and monetary needs of the humanity. Cleanliness in and around the campus and waste minimization

Water conservation and management including rain water harvesting, etc Using Energy Efficient Light Bulbs. Planting trees for preserving environment in campus. Complete Ban on polythene at Campus.

Digital Library.

Institute Community Garden. College Automation P


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Greening the grounds is about clearing endlessly inefficient wasteful aspects and utilizing traditional wellsprings of energies for its day by day power needs, right removal dealing with, acquisition of condition well disposed supplies and compelling reusing program. Establishment needs to work out the time bound techniques to actualize green grounds activities. These techniques should be fused into the institutional arranging and planning forms with the point of building up a clean what's more, green grounds.

- Energy conservation Plantation
- Waste management
- Water management and other related issues.

Energy conservation: As and when a failure of an electrical equipment occurs the institution made it as a policy to go for either fire stalled equipment or led lamps and bulbs are that equipment which are of less power consuming in this thing. Every faculty member, student must be given awareness to switch off the fans, led lights. As and when they are not in use.No electrical appliances are used when the students are not in the class room. The electric motor starter for the bore well is fitted with an auto turn off device whenever the water is filled up.


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The solar electric lights for the street lighting in for the during night hours are connected with led sensors so as to operate it as per the light requirements without any manual interaction.

Water management: the water is very precious. Out of the water of the universe only 2%of the water is only usable. The water must be used at an very optimistic way. All the usable water that is coming into campus through the bore well. Water conservation: in Rain water harvesting pits are arranged both the campuses where the water that is falling on the surface of the top floor are collected at a point and diverted to the soaking pit in such a way that the water is recharged.

The ground water recharging techniques are ensured. There are 4 water recharging pits that are available inside the campus. However the 14acers of land is completely a open place where the water falling in this pits. That is because of black soil the water will automatically wooed into the ground itself. This is an additional the water conservation normally that is adopted.

Plantation: The continuous green card covering techniques are adopted and the students are encouraged to participate in the plantation program at regular intervals and the total campus is containing of so many trees of over ten years of age.


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The water coming cutoff the over-head tanks can be collected at a point in a tank and from there it is used for watering the plants. And we regularly go for plantation through different processes out of the HARITHAHARAM program like that. Waste management: e- waste management, solid waste management, liquid waste management.

Liquid waste management: hazardous liquid waste management. The liquids from the chemistry laboratory and also from the environmental engineering laboratory are collected to the soak pits in a proper way. While managing the waste try to please consider that the liquid is in a proper managed. Do not use excessive liquids which are not contribute to the environment.

Solid waste management: the waste must be collected to the store room at regular intervals. Do not use un-necessarily at stationary papers must be used in a proper way. Please use one side papers where they are available. Let us contribute environment by using thewaste in a proper way by using the stationary in a proper way. Library stationary and other e- waste can be collected that is disposed through a proper waste management methodology. The vendors may be called or otherwise may be given to the people who are in need so as to contribute to the environmental conditions.


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E-waste management: the computers and other electronic equipment that are not in use are collected and must be given to the vendors of the e-waste. Do not through away the equipment any ware around the campus. Because they may contribute hazardous environmental pollution.

All these initiatives are towards contributing to the healthy and hygienic environmental conditions inside the campus. The institution is committed towards establishment of hygienically atmospheric conditions for the students and the teaching learning process. And this is also educating the students to do same at their houses also. So as to make this as policy for the students rather than a policy for the institution.


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SAVE ENERGY TIPS:

- Activate power management features on your computer and monitor so that it will go into a low power “sleep” mode when you are not working on it.
- Turn off your monitor when you leave your Table.
- Activate power management features on your laser printer. Whenever possible, shutdown rather than logging off.
- Turn off unnecessary lights and use
- Use LED or compact fluorescent bulbs daylight instead. Avoid the use of decorative lighting.
- Keep lights off in conference rooms, classrooms, lecture halls when they are not in use.
- Use the fans only when they are needed.


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Prof.P.Krishna Murthy
B.Tech,M.Tech,Ph.D,
PRINCIPAL

Date: 21-09-2020

CIRCULAR
(STAFF & STUDENTS)

All the faculty members, Students are hereby informed to follow strictly the code of conduct rules of the institution without fail. HODs are requested to guide the students regarding the following:

Rules are regulations of the institution, Affiliating University, AICTE etc.,

- ✓ To follow meticulously the dress code so as to create oneness among the student community.
- ✓ Students are warned to not to indulge in any anti-social activities viz., Ragging, Eve-teasing.
- ✓ Use of plastic is Banned in side the college premises. Students are advised to follow strictly not only in the campus but also outside the campus – i.e. at Home. Students are also advised to educate their neighborhood in this regard.
- ✓ Vehicles are not permitted inside the campus. Students and staff are advised to park the vehicles in the parking slots.

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PRINCIPAL

Copy to:
CC: All Faculty & Students Management for info.



POLICY DOCUMENT TOWARDS ON ENERGY CONSERVATION

Khammam Institute of Technology and Sciences (KITS) is established 15 km away from town surrounded by farming fields. The institution is field with trees and beautiful garden. The initiatives towards the establishment of high quality environmental conditions are the prime motto of the institution.

The institution ambience is so arranged in such a way that uses all available renewable resources for teaching learning process must be provided for the students registered in this institution. A Campus is where natural cordial practices and instruction consolidate to advance maintainable and eco-accommodating practices in the grounds. The green grounds idea offers an organization the chance to lead the pack in reclassifying its natural culture and growing new ideal models by making practical answers for ecological, social and monetary needs of the humanity.

- Using Energy Efficient Light Bulbs.
- Digital Library
- Use of LED bulbs/ power efficient equipment
- Solar based energy systems
- Energy conservation

Purpose

To realistically and comprehensively reduce energy consumption, assure acceptable indoor air quality, and improve energy efficiency on campus through methods that are consistent with a safe, secure, and inviting campus community. As outlined in this policy, energy conservation will be accomplished by developing a proactive and progressive approach to providing energy efficient, responsible, and cost effective operations on campus. This policy will be reviewed and updated periodically as public awareness, management techniques, and technologies change.



The strategies listed below are used to conserve energy and are not inclusive of all energy conservation actions; additional energy conservation actions can be found in the [Energy Conservation Standards](#).

Thermostat Set-points: The temperature set-points shall fall within the range suggested by ASHRAE (formerly the American Society of Heating, Refrigeration, and Air Conditioning

Facility Scheduling: Operations shall schedule academic and administrative buildings for night and weekend temperature setbacks during unoccupied hours in order to reduce building energy consumption during low-demand periods.

Holidays: During University recognized holidays, Operations shall schedule temperature setbacks in academic and administrative buildings in order to reduce building energy consumption.

Energy conservation: As and when a failure of electrical equipment occurs the institution made it as a policy to go for either fire stalled equipment or led lamps and bulbs are those equipment which are of less power consuming in this thing. Every faculty member, student are must be given awareness to switch off the fans, led lights. As and when they are not in use.. No electrical appliances are used when the students are not in the class ROOM.

The electric motor starter for the bore well is fitted with an auto turn off device whenever the water is filled up. The solar electric lights for the street lighting in for the during night hours are connected with led sensors so as to operate it as per the light requirements without any manual interaction.

Save Energy TIPS:

1. Activate power management features on your computer and monitor so that it will go into a low power “sleep” mode when you are not working on it.
2. Turn off your monitor when you leave your Table.
3. Activate power management features on your laser printer.
4. Whenever possible, shut down rather than logging off.
5. Turn off unnecessary lights and use

Estd: 2008



Sri Kavitha Educational Society's

KHAMMAM INSTITUTE OF TECHNOLOGY & SCIENCES

(Affiliated to JNTUH & Approved by AICTE, New Delhi)

Ponnekal (Village), Khammam (Rural), Khammam (Dist) -507170

Phone: 08742 – 285399, 9908567792

7. Use LED or compact fluorescent bulbs daylight instead.
6. Avoid the use of decorative lighting..
8. Keep lights off in conference rooms, classrooms, lecture halls when they are not in use.
9. Use the fans only when they are needed.

Institute will make all the necessary efforts to involve the students, faculty and staff in “Green campus initiatives”.




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Ponnekal (V), Khammam (R) -507170
Khammam (Dist.) T.S.

Environmental Consciousness and Sustainability (10)

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

Power requirement met by renewable energy sources	Total power requirement	Renewable energy source	Energy supplied to the grid
720KWh	8417KWh	solar	Nil

SOLAR ENERGY

The institute focuses on harnessing renewable energies through Solar, Wind and Biomass Conversion. In this regard , the institute has installed 1 KVA solar power plant before the main buildings. Students are encouraged to carry out UG projects on different types of renewable energies.





Date: 29 January 2018

MEMORANDUM OF UNDERSTANDING

BETWEEN

Green Energy Solutions Hyderabad

Hyderabad

AND

Khamma Institute of Technology and Sciences

(Electrical and Electronics Engineering final year students of total 65 students only)

This Memorandum of Understanding will enable:

- A) Student of the college avail to have the opportunity to undertake industry training / industry practices (project) etc with the above company.
- B) The agreement shall commence from the date assignment gets started and shall be in force for a period of 15 days.
- C) The appendix to the memorandum of understanding is attached.

maruthi

(Signature)

Kalpaguri.Maruthi

Head-Operations GES Hyderabad



(Signature)

HOD Electrical and Electronics Engineering
Khammam Institute of Technonogy and science

APPENDIX 1: SCHEDULE OF RESPONSIBILITIES

The Company agrees to be responsible for:

1. Initially the company engages the 65 students in 'Academic Projects ' that help the students to gain insight in to practical aspects of the markets and industry, and also helps the students in improving their technical aspects.
2. Providing the Project Assistance and Full course training to the student provided by the Company on respective technologies at nominal fee.
3. List of total 65 students is enclosed below.
4. The Company provides all the above facilities for the tenure of 15 Days.

4. MODE OF PAYMENT:

Term-1: 50% Advance for purchase order for Solar 512V/500Wp system 40% of the fee after receiving Materials as given proposal on 29 January 2018 Ref No: **MKT/QUT/KITS-KHAM/007/2018-19**


Term-2: 10% need to be pay than only student can receive, the thesis and code.

5. Company agrees to replace the training faculty if the faculty is not up to the expectation of the students and the same quality of the training assured from beginning to the end of training. Mention resource person's names at the beginning of the project.
6. Program Duration: For a period of 10 days.

B) The college agrees to be responsible for:

1. Providing Class Rooms, Projector, Labs and Systems in lab for conducting Training,




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Chaitanya Institute of Technology & Science
POLICE STATION, KHAMMAM (Ry-4017 17)

About us

Green Energy Solutions India, Established in 2012 in Hyderabad India. We are focusing on developing in Renewable Energy sector in India. Our GES is workable both in the near term and over the longer term providing greatest energy as well as financial incentives for our customers.

GES strongly believes in the sun's potential to appreciably address the problems associated with power obtained from non-renewable sources of energy. It is with this passion that we aim to work and offer solar solutions to our customers. Quality has always been of utmost priority to GES, and with this drive we challenge ourselves to give the same in the most cost-effective way.

GES takes on charge and commitment towards development of eco-friendly technologies with innovative and futuristic energy solution. We, at GES, recognize the important on every step taken towards to building a greener and safer future. By accumulating the inexhaustible energy of the sun, GES offers efficient and advanced solutions to energy requirements for today and tomorrow.

Date: 29 January 2018

Ref No: MKT/QUT/KITS-KHAM/007/2018-19

To			
CH. KRISHNA PRASAD			
EEE, HOD			
KHAMMAM INSTITUTE OF TECHNOLOGY AND SCIENCE			
S.No	Item Description	Quantity	Total Price
1	SOLAR MODULES 125 WATT	4	110,000.00
2	Solar Inverter 850 VA/12V	1	
3	Solar Battery 12V/150 AH	1	
4	Solar Battery 12V/40 AH	2	
5	Solar Mechanical Structure and Cable	1	
6	No of students under Training	65	
In words: One Lakhs and Ten Thousand Rupees Only		Grand Total	110,000.00
		Authorize signature	
		<i>manthi</i>	



manthi

PRINCIPAL
Khammam Institute of Technology & Science
Khammam (M) Khammam (R)-507 17

Date: 29 January 2018

To

CH. KRISHNA PRASAD

Electrical and Electronic Engineering,

HOD

KHAMMAM INSTITUTE OF TECHNOLOGY AND SCIENCE

CASH BILL

S.No	Item Description	Quantity	Total Price
1	Total project Cost is	1	110,000.00
GRAND TOTAL			110,000.00



PRINCIPAL
Khammam Institute of Technology & Science
PRINCIPAL (E) Khammam (RJ-017-17)

Estd: 2008



Sri Kavitha Educational Society's

KHAMMAM INSTITUTE OF TECHNOLOGY & SCIENCES

(Affiliated to JNTUH & Approved by AICTE, New Delhi)

Ponnekal (Village), Khammam (Rural), Khammam (Dist) -507170

Phone: 08742 - 285399, 9908567792

APGST No. WGL/08/1/1094 Phone : Shop 28100 Resi. 23043
 No. **110** **CASH BILL** Date.....
 నటి లైట్ హౌస్, స్టేషన్ రోడ్, ఖమ్మం.

CITY LIGHT HOUSE

Electrical Contractors & General Supplier
 Station Road, KHAMMAM-507 001.

Sri Khammam Institute of Technology & Sciences

1	విపొల వ లెడ్ బ్లబ్స్	260.	130 each
E & O.E		total	33,800.00

[Signature]



[Signature]

PRINCIPAL
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PONNEKAL (V) Khammam (R) -507 170

भारतीय गैर न्यायिक



INDIA NON JUDICIAL

தமிழ்நாடு தமில்நாடு TAMILNADU 02 MAR 2021

Minsolar Pvt Ltd
Chennai

 BB 127794

R. RAGURATHI
STAMP VENDOR, L/No. C3/4839/83
No. 37, VILLAGE ROAD, NOW KNOWN AS
No. 79/91, VALLUVARKOTTAM HIGH ROAD
NUNGAMBAKKAM, CHENNAI-600 034
MOBILE: 9445114347


SOLAR EQUIPMENT LEASE AGREEMENT

LEASEE		LEASOR	
NAME & ADDRESS	M/S.KHAMMAM INSTITUTE OF TECHNOLOGY & SCIENCES PONNEKAL ,KHAMMAM (RURAL), KHAMMAM-507 170 TELANGANA	NAME & ADDRESS	M/s. MinSolar Private Limited 7C 7 th floor, Gee Gee Emerald, 312 Valluvar Kottam High Road, Nungambakkam, Chennai – Tamil Nadu – 600034
PHONE	9618080801	PHONE	044-28254500, +91-9884069100
FAX	-	FAX	-
EMAIL	kits.kmm@gmail.com appireddy_kota@yahoo.com	EMAIL	krishna.m@minsolar.com , aravinda.v@minsolar.com
PREMISES OWNERSHIP	OWN	ADDL. INFORMATION	-

For MINSOLAR PRIVATE LIMITED



Director


Secretary & Correspondent
Khammam Institute of Technology & Sciences
PONNEKAL, (Village),
Khammam Rural (Dist), Khammam (Dist)

This Agreement sets forth the terms and conditions of the Solar Equipment Lease Agreement described in Exhibit 2 (the "System") and installed at the Leasee's Facility described in Exhibit 2A (the "Facility").

The exhibits listed below are incorporated by reference and made part of this Agreement.

Exhibit 1 Basic Terms and Conditions

Exhibit 2 System Description

Exhibit 3 Credit Information

Exhibit 4 General Terms and Conditions

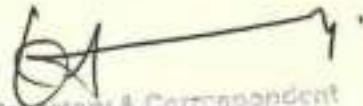
LEASEE: M/S.KHAMMAM INSTITUTE OF TECHNOLOGY & SCIENCES	LEASOR: MinSolar Private Limited
Signature: 	Signature: 
Company Seal: 	Company Seal: 
Designation : Secretary & Correspondent	Designation :Managing Director
Date :05/03/2021	Date : 05/03/2021

EXHIBIT-1

Basic terms and conditions

Sl. No.	Terminology	Description or Definition
1	Agreement	This agreement titled "Solar Equipment Lease Agreement" in its total form along with Exhibits, Annexures and Appendices.
2	System	The Solar Power Generating unit as described in Exhibit-2
3	Facility	The location at which the System along with its accessories are installed by the Lessor. This is described in Exhibit - 2A
4	Premise(s)	The entire area under the Lessee's ownership or control where the Facility is located in.
5	Solar Capacity	80 kWp (this is the DC capacity estimated at the time of pre-bid offer, as-built may vary based on on-site conditions).
6	Value of the System	The Total value of money in Indian Rupees (exclusive of GST) of the System is INR 32,40,000/- (Indian Rupees Thirty-Two Lakhs Forty Thousand Only)
7	Down-payment Amount	The value of money in Indian Rupees which the Lessee will pay to the Lessor at the time of contract signing. INR 3,24,000/- (Indian Rupees Three Lakhs Twenty-Four Thousand Only)
8	Monthly Lease Amount	The value of money in Indian Rupees which the Lessee will pay to the Lessor on monthly basis as per Table 1. INR 63,401/- (Indian Rupees Sixty-Three Thousand Four Hundred and One Only)
9	Tenure	The period during which the Lessee will pay the Monthly Lease Amount to the Lessor (refer Table 1) 5 years, commencing on 1 st July 2021 or the Commissioning Date (whichever is earlier)
10	Payment Security	Annually Renewable, Unconditional, Irrevocable, Assignable Clause Bank Guarantee for 1 year's Monthly Lease Amount, INR 7,60,811/- (Indian Rupees Seven Lakhs Sixty Thousand Eight Hundred and Eleven Only) for the entire period of the Tenure.
11	Operation & Maintenance (O&M) Cost	Operation and Maintenance of the System will be done by the Lessor payable by the Lessee for the period of the Tenure at INR 680 per kWp.
12	Insurance	The Lessor will take an All Risk Erection Cover during the period of construction of the System at its own cost. The Lessor will take an All Risk Operation Cover during the period of the Tenure payable by the Lessee.
13	Total Lease Amount	The total Amount of the Monthly Lease Amount as per Table 1 is called as Total Lease Amount.
14	Service Charge	The Lessee agrees to pay INR 63,401/- (Indian Rupees Sixty-Three Thousand Four Hundred and One Only) as Service Charge along with the Down-payment Amount at the time of signing this Agreement.

FOR MINSOLAR PRIVATE LIMITED


Secretary & Correspondent
Khammam Institute of Technology & Sciences
PONNEKAL (Village),
Khammam Rural (Md), Khammam Dist


Director