

AND COMPUTER APPLICATIONS



Kumbalgodu, Bangalore - 560074

Policies and Audit Certificate

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Kumbalgodu, Bangalore - 560074

Policy Title: Policy for Waste Management

| 1. | Functional Area | Waste Management |
|----|--------------------------------|--|
| 2. | Brief discretion of the policy | Purpose: Promoting waste management measures in campus. Audience: All stakeholders of the institution. |
| 3. | Policy applied to | All academic, administrative and managerial process in the organization. |
| 4. | Effective from | 11 th July, 2022 |
| 5. | Responsible Authority | IQAC Coordinator, DBIMSCA. |
| 6. | Superseding Authority | Principal, DBIMSCA. |
| 7. | Last reviewed/ Updated | New Policy |
| 8 | Reference for the Policy | NAAC (Continuous Improvements) |

1) Introduction: Waste management policy of a college reflects its commitment to the issues related to environment. The college management, staff, and students are highly committed to it. The college is doing green activities within and outside the college campus to make environment healthy and rich. For the conservation of conventional source of energy (electricity) solar plants are installed. The green waste collected from all the lawns in the form of dead leaves and plants, and kitchen waste collected from college canteen is thrown in separate bins to be used as manure. The solid waste approx. 10kg per day is being discarded with proper norms. For the purpose of Waste Management Solar Plants and Coloured Dustbins, are being used. The college is also committed to implement the latest techniques to make campus more eco-friendly.



Z





Kumbalgodu, Bangalore - 560074

2) Policy Statement: The policy was framed with the aim of segregation of waste i.e. Solid and Liquid. The policy also aimed to inculcate eco-friendly habits among different stakeholders and to add to sanitation and beauty of the campus. The policy has been framed, finalized, communicated, executed, and improved upon through certain practices that include participation of different stake holders.

3) Objectives:

- To implement the waste management measures in campus.
- The waste collected from the campus is collected by the garbage collectors.
- > To reduce use of plastic.
- To promote mechanism that aims to practice various latest techniques to discard waste.
- To enrich the process of waste management in such a way that it creates awareness among students.
- > To involve students in cleanliness activities.
- Use of Jute and cloth bags is encouraged for the faculty as well as students.
- To minimize waste generation at source and facilitate repair, reuse and recycling over the disposal of wastes in a cost effective manner.

4) Processes:

- Creation of Policy: Policies are created to institutionalize quality, inclusion and persistent efforts for improvement. It also aims to develop correct methodology to achieve the optimum result with maximum utilization of given resources. Areas of policy making for segregation of waste are:
 - a) Academics: To aware students regarding segregation of waste and their different methods.
 - b) Administration and Governance: Solid Waste is collected by Municipal Corporation of City.







Kumbalgodu, Bangalore - 560074

- Execution of Policy: The IQAC of the college frames policy regarding it. The same is sanctioned by the apex body of the college. It has been resolved in the policy that all the waste generated by campus will be discarded as per Government norms and conditions. Various activities are conducted to make students aware of the importance of waste management and other related environment issues. The policy is communicated to all the concerned, especially the office staff. The staff members ensure the proper execution of the policy. In case of any issue, the staff members have been instructed to bring the matter in the notice of IQAC.
- 5) Future course of Policy: The College has planned to install biomedical waste management system in the near future to reduce cost and to save energy. It has been decided that some equipment would be purchased to dispose of biomedical waste. It has also been resolved that there is an urgent requirement of Installation of Effluent Treatment Plant for disposal of chemical waste water.

IQAC Coordinator

cipal rincipal

Don Bosco Institute of Management Studies & Computer Applications Kumbalagodu, Mysore Road, Bangalore - 560 074.







Kumbalgodu, Bangalore - 560074

Policy Title: Policy for Energy Conservation

| 1. | Functional Area | Energy Conservation |
|----|--------------------------------|--|
| 2. | Brief discretion of the policy | Purpose: To promote energy conservation in campus. Audience: All stakeholders of the institution with special focus on energy conservations measures. |
| 3. | Policy applied to | All academic, administrative and managerial process in the organization. |
| 4. | Effective from | 11 th July, 2022 |
| 5. | Responsible Authority | IQAC Coordinator, DBIMSCA. |
| б. | Superseding Authority | Principal, DBIMSCA. |
| 7. | Last reviewed/ Updated | New Policy |
| 8, | Reference for the Policy | NAAC (Continuous Improvements) |

 Introduction: Policy of Energy Conservation involves spreading consciousness related to environment among students. Don Bosco Institute of Management Studies and Computer Applications College has adopted Energy Conservation Policy for an "educational excellence in environment." Energy conservation involves methods of reduction in energy usage by promoting awareness about different energy saving measures and taking steps to save energy. Solar Power Plants has been installed in campus to conserve electricity. Campus is also equipped with power saving L.E.D. lights.







Kumbalgodu, Bangalore - 560074

2) Policy Statement: The Policy is aimed at environmental responsibility and optimum usage of the given resources. For this, there has been focus on a constant replacement of conventional energy with renewable energy. There have also been attempts to aware different stakeholders about the importance of energy so conservation and renewable energy. The Policy is framed, finalized, communicated, executed, and improved upon through certain practices that include participation of different stake holders.

3) Objectives:

- To reduce energy consumption by using energy saving equipment.
- To lower down electricity cost.
- To maximize use of day light and natural ventilation.
- To use solar power plants for energy saving purpose
- To promote mechanism that aims to practice various latest techniques to save energy.
- To enrich the process of Energy Conservation in such a way that it creates awareness among students.
- To Monitor Electricity bills for efficient use of solar power.
- To develop a system that helps in creation, execution and assessment of the policy.
- To take additional measures to continuously improve our energy consumptions.
- To ensure the availability of necessary resources to achieve our objectives.

4. Processes:

→ Creation of Policy: Policies are created to institutionalize quality, inclusion, and persistent efforts for improvement. It also aims to develop correct methodology to achieve the optimum result with maximum utilization of given resources. Areas of policy making for segregation of waste:





Kumbalgodu, Bangalore - 560074

- a) Academics: To aware students regarding importance of energy saving and measures to be taken to achieve the goal.
- b) Administration and Governance: To administer policy and practices, measures are taken as per Institutional Guidelines to conserve energy.
- → Execution of Policy: The IQAC of the college frames policy regarding it. The same is sanctioned by the apex body of the college. The policy is communicated to all the concerned, especially the office staff. The staff members ensure the proper execution of the policy. In case of any issue, the staff members have been instructed to bring the matter in the notice of IQAC. Slowly but surely, the college is switching over to renewable energy in the form solar power plants. There have also been constant attempts on the part of the college to adopt practices like usage of LED bulbs to conserve energy.

5. <u>Future Course of Policy</u>: The College is planning to install effective energy conservation methods in the near future to lower electricity cost and preserve energy. The college intends to install energy- efficient fans and more L.E.D. lighting.

IQAC Coordinator



Principal

Principal Don Bosco Institute of Management Studies & Computer Applications Kumbalagodu, Mysore Road, Bangalore - 560 074.





Kumbalgodu, Bangalore - 560074

Policy Title: Green campus Initiative Policy

| 1. | Functional Area | Green campus initiatives |
|----|--------------------------------|--|
| 2. | Brief discretion of the policy | Purpose: To promote clean and green environment in and around the campus. All stakeholders of the institution with the aim of making them aware about environmental issues. |
| 3, | Policy applied to | All academic, administrative and managerial process in the organization. |
| 4. | Effective from | 11 th July, 2022 |
| 5. | Responsible Authority | IQAC Coordinator, DBIMSCA. |
| 6, | Superseding Authority | Principal, DBIMSCA. |
| 7. | Last reviewed/ Updated | New Policy |
| 8. | Reference for the Policy | NAAC (Continuous Improvements) |

1. <u>Introduction</u>: This Policy of Green Campus Initiatives involves environmental consciousness and development of students. Don Bosco Institute of Management Studies and Computer Applications has adopted Green Campus Initiatives Policy for an "Educational excellence in environment." This Policy focuses on clean and green environment in and around the campus by promoting awareness and by using different sustainable initiatives for environmental protection. The policy aims that despite the relatively small campus, majority of the open areas should be covered with natural greenery. The aim of the policy is to sensitize different stakeholders towards environment in general.





DON BOSCO INSTITUTE OF MANAGEMENT STUDIES AND COMPUTER APPLICATIONS Kumbalgodu, Bangalore - 560074



 Policy Statement: Environmental issues are part and parcel of academia and the policies related to it. No educational institute can turn its back to the question of sustainable growth and global warming. The Green Campus Initiatives Policy of the college aims to frame policies and execute practices that will aware different stake holders more responsive and conscious about environment in general. The policy is framed, finalized, communicated, executed, and improved upon through certain practices that include participation of different stake holders.

2. Objectives:

- To sensitize students towards a Clean, Green, and Sustainable Environment.
- To optimize the use of water and energy.
- Proper handling of solid waste from the campus.
- Encourage the use of public transport and car-pooling for minimizing fuel consumption.
- Smoke-free and tobacco-free campus.
- To restrict single-use plastics.
- To adopt methods for water recycling and rainwater harvesting.

3. Processes:

- a) **Creation of Policy**: Policies are created to institutionalize quality, inclusion and persistent efforts for improvement. The policies also aim to develop correct methodology to achieve the optimum result with maximum utilization of given resources. Areas of policy making for greenery of the campus are:
 - Academics: To make students aware of the importance of environment conservation and measures to be taken to achieve the goal.
 - Administration and Governance: To administer policy and practices, measures are
 taken as per Government Guidelines to conserve environment, matium





Kumbalgodu, Bangalore - 560074

b) Execution of Policy: The IQAC of the college frames policy regarding it. The same is sanctioned by the apex body of the college. The cell directs different departments and cell to undertake activities that address the concerned question comprehensively. The policy is communicated to all the concerned, especially the office staff. The staff ensures the proper execution of the policy. In case of any issue, the staff members have been instructed to bring the matter in the notice of IQAC.

5. <u>Future Course of Policy</u>: The College is planning to conduct more effective green campus initiatives in the near future to avoid pollution and maintain clean campus. The college intends to planting more plants in the college premises.

IQAC Coordinator

pal Principal

Don Bosco Institute of Management Studies & Computer Applications Kumbalagodu, Mysore Road, Bangalore - 560 074.



Ref: PIES/DBIT/AUDIT/2021-22

Date: 07.03.2022

CERTIFICATE

SUB.: "GREEN AUDIT REPORT"

This is to certify that M/s. DON BOSCO INSTITUTE OF TECHNOLOGY KUMBALAGODU, MYSORE ROAD BENGALURU - 560074. has successfully undergone GREEN AUDIT.

The audit was conducted as per GRI indicators and other ISO standards as applicable with the moral support of the Principal, Teaching staff, non - teaching staff and Students.

The on-site audit was successfully conducted from 18-Jan-2022 to 06-Mar-2022 by Prakruthi Institute of Environmental Studies. Sustainability Assessor, Er.Ramesh Kumar BN, Er. Tushali Jagwani who are qualified personnel have carryout out green auditing.

Environmental GRI indicators considered in these auditing are Water, Air, Noise, Energy, Wastes, Carbon Footprint and Biodiversity. The recommendations are put forth by the audit committee wherever there is scope of improvement.

We thank the college management for taking this proactive initiative for a sustainable journey.

Thanks and Regards For Prakruthi Institute of Environmental Studies

Authorized Signatory

#93 (New No. 5), 2nd Floor 7th Cross, Lower Palace Orchards, Bengaluru-560003 Tel: 080-23464664/65 E-Mail: prakruthienv08@gmail.com



Ref: PIES/ DBIT /AUDIT/2021-22

Date: 07.03.2022

CERTIFICATE

SUB.: "ENVIRONMENTAL AUDIT REPORT"

This is to certify that M/s. DON BOSCO INSTITUTE OF TECHNOLOGY KUMBALAGODU, MYSORE ROAD BENGALURU - 560074. has successfully undergone ENVIRONMENTAL AUDIT.

The audit was conducted as per GRI indicators and other ISO standards as applicable with the moral support of the Principal, Teaching staff, non – teaching staff and Students.

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m 100V. 07/03/22

Authorized Signatory

#93 (New No. 5), 2nd Floor 7th Cross, Lower Palace Orchards, Bengaluru-560003 Tel: 080-23464664/65 E-Mail: prakruthienv08@gmail.com



Don Bosco Institute of Technology, Bangalore

(NAAC Accredited Institution) (Accredited by NBA





ENERGY AUDIT REPORT FOR THE YEAR -2020

Don Bosco Institute of Technology Bangalore

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

PREPARED BY

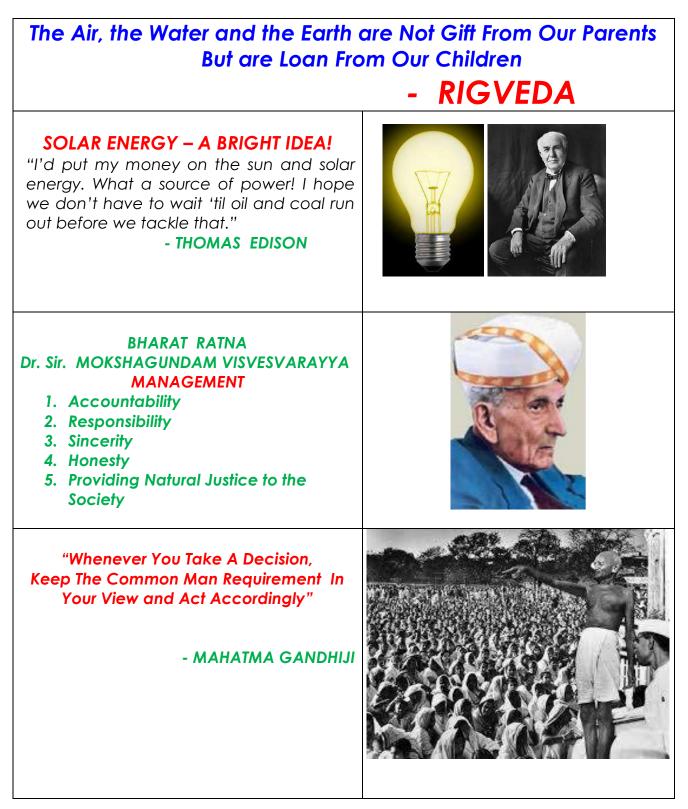
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Dr. H. Naganagouda, Former Director NTCST-KPCL, Bangalore, Karnataka State – India Chartered Engineer

DECEMBER - 2022

DRHNG NTCST

ENERGY ENVIRONMENT AND ECONOMY RENEWABLE ENERGY & ENERGY CONSERVATION FOR SUSTAINABLE DEVELOPMENT

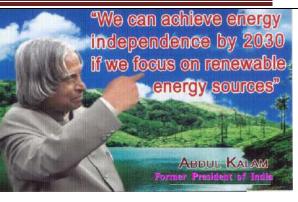


You Have To Salute Your Duty, You Need Not Salute any Body. If You Pollute Your Duty, You Have To Salute Every Body, Is It Required...

BHARAT RATNA Dr. ABDUL KALAM, FORMER PRESIDENT OF INDIA

Today, the World is Suffering Not Because of Violence of Bad People, Because of Silence of Good People

NAPOLEON BONAPARTE







We are All Accountable for Our Parents, Our Institution, Where we have Studied and We Are All Accountable for Our Country as A Citizen of Our Country, But we Are All Accountable for Whole World as A Human Being

Dr. H. NAGANAGOUDA



Dr. H. NAGANAGOUDA



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PROMOTION OF ENERGY EFFICIENT BUILDING DESIGN

1. INTRODUCTION:

Energy is one of the major inputs for economic development of any country. In the case of developing countries like us, the energy sector assumes critical importance in view of the ever-increasing energy needs, widening of supply demand gaps and also huge investments required to meet them. The availability of energy is limited and known resources of energy are exhausting fast. In order to conserve the available resources, there is need to promote the renewable energy and energy conservation.

It is necessary to make adequate energy available to the people at an affordable price to facilitate this process and enhance the quality of life of all sections of the people especially in the case of the majority of people who live in rural areas. The production and distribution of energy to the consumers have to be simultaneously supplemented with concentrated efforts to use energy efficiently as otherwise the wasteful energy consumption will defeat the very purpose of economic development and lead to serious problems in all sectors of economy - whether industry, agriculture or other social sectors. In this scenario, it is very important to focus on energy conservation aspects and take necessary steps at the earliest to ensure that energy is produced with maximum efficiency, transformed and transmitted with minimum losses and at the same time technologies to maximize end use energy efficiently are adopted. There is urgent need for conservation of energy in domestic, agriculture, commercial, transport and industrial sectors. The promotion of energy efficiency devices and technologies will not only reduce the need to create new capacities requiring mobilization of huge resources but also results in significant environmental benefits. Energy security can be enhanced by supply side as well as demand side measures. While the former aimed at increasing energy availability has limitations, the latter targets reduction in energy demand through conservation, demand restraint and fuel-switching which is more sustainable in the long term. Large-scale development of renewable energy and efficient use of available conventional energy. together, constitute Energy Security.

Buildings are major consumers of energy in their construction, operation and maintenance. About 50% of global energy demand is estimated to be due to buildings. Energy requirements in buildings are further increasing in

developing countries with rising economy. In India, buildings accounts for 30-40% of total energy consumption. ENERGY CONSCIOUS ARCHITECTURE addresses these issues.

What is Building Energy?

Building energy consists of the following:

- Energy for lighting
- Energy for comfort fanning/air circulation, cooling and heating of conditioned space
- Energy for lifts, water pumps, and
- Energy losses in the local electrical distribution network.

Key Factors

Building energy depends on factors such as:

- Ambient temperature
- Weather conditions and daylight hours
- Building design
- Inherent efficiency of equipment used, and
- Installed efficiency of equipment used.

Energy Conscious Architecture

It includes the following

- Use of solar passive concepts including daylight features in building design and operation
- Use of eco-friendly and less energy intensive building materials
- Integration of renewable energy technologies
- Use of energy efficient appliances
- Conservation of water/ waste water recycling/rain water harvesting Pioneering been done internationally and in India. However, lot more is required to be done to adopt energy conscious architecture on a widespread level in the country.

Energy Efficient Solar/ Green Buildings

- Designed to provide internal comfort with much less consumption of conventional fuel; results in savings of recurring and capital costs
- Design depends on direction & intensity of sun & wind, ambient temperature, humidity etc. Different designs for different climatic zones.
- Key features: Orientation, double glazed windows, window overhangs, thermal storage walls/ roof, roof painting, ventilation, evaporation, day lighting, construction material etc.
- Active solar thermal and photovoltaic systems can also be incorporated.
- Additional cost could be up to 10% with annual savings of energy up to 30 to 40%.

2. WAYANAMAC EDUCATION TRUST (WET):

The Wayanamac Education Trust was started following a realization that education is the foundation for a healthy and vibrant society. This initiative has now burgeoned into a chain of educational institutions ranging from preuniversity to Professional colleges. WET's vision is to become a world class center in providing globally relevant higher education in all fields blended with its mission to foster an intellectual and ethical environment in which both skills and spirit will thrive so as to impart high quality education, training and services with an international outlook in creating technocrats and business leaders.

Don Bosco Institute of Technology (DBIT):

Don Bosco Institute of Technology established in the year 2001 is situated in a 36 acres sprawling campus on Bengaluru-Mysuru State high way and is 18 KM from the heart of Bengaluru city. The Institute is an affiliated college of VTU Belgavi. The college offers quality Technical and Management Education. The college is accredited by NAAC and engineering courses are accredited by NBA*. The college offers Bachelor Degree in

- (1) Artificial Intelligence & Machine Learning,
- (2) Artificial Intelligence & Data Science
- (3) Computer Science & Engineering*
- (4) Information Science & Engineering*
- (5) Mechanical Engineering*
- (6) Electronics & Communication Engineering*
- (7) Electrical & Electronics Engineering*
- (8) Civil Engineering

The college offers Master degree in Business Administration in dual specialization. The specializations are

- (1) Marketing and Finance
- (2) Finance and HR
- (3) HR and Marketing

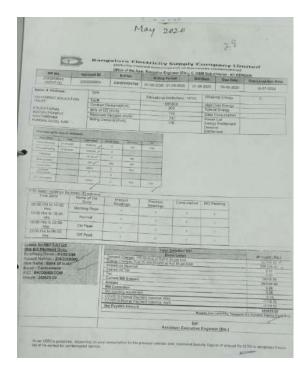
3. Institutions Existing in the DBIT Campus, Bangalore

- 1). DONBOSCO Institute Of Technology
- 2). DONBOSCO Pre University College
- 3). DONBOSCO Institute Of Management
- 4). Boys Hostel, Total -1 No.
- 5). Girls Hostel, Total 1 No.

4. Technical Details Existing in the Institution

1) Electrical Energy Details :

- 1. Total Sanctioned Load 200 kVA
- 2. RECORDED DEMAND(Average) 99.92 kVA
- 3. BESCOM Tariff Rs. 8.699/Unit



- 2) Power Transformer :
 - 1. 500 kVA



3) Diesel Generator Set



4) U P S

1. Total UPS Capacity 319 kVA (total 17 Nos)



5) Solar Roof Top Power Plant with Net Metering

1. Installed Capacity 170 kWp



6) Sewage Treatment Plant

- 1. Total 10 Motors-Pump
- 2. Total Capacity 20 kW



7) Rain Water Harvesting

1. 2 Nos. Provision for Bore well Charging

8) Water Pump (Bore well_

- 1. Near Girls Hostel 10 HP
- 2. Near Temple 10 HP
- 3. Near STP 10 HP

9) Solar Water Heaters

- 1. Girls Hostel 4600 LPD and 13 kW Heat Pump
- 2. Boys Hostel 2700 LPD and 20 kW Heat Pump



10) Air Conditioning Units

1. Total 37 Systems with a Capacity of 1.5 to 2 ton

| 11) | Table -1 Abstract of Existing L | ighting Fixtures aı | nd Fans |
|---------|---------------------------------|---------------------|----------------|
| SI. No. | Details | Total Nos. | Capacity Watts |
| 1 | Lights Existing TFL | 706 | 48 |
| 2 | Lights LED | 1635 | 20 |
| 3 | Lights Existing Sodium lamps | 5 | 150 |
| 4 | Ceiling fans | 1188 | 65 |
| 5 | Occupancy Sensors | 25 | 156 |

Pictures

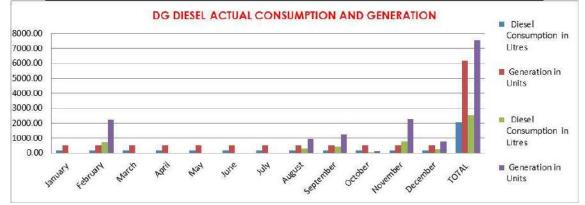




5. ENERGY CONSUMPTION AND EXISTING DETAILS IN THE INSTITUTIONS INSIDE THE DON BOSCO INSTITUTE OF TECHNOLOGY CAMPUS:

Table – 2 ENERGY CONSUMPTION AND EXISTING DETAILS IN THE INSTITUTIONS INSIDE THE DON BOSCO INSTITUTE OF TECHNOLOGY CAMPUS: DG - ACTUAL GENERATION

| D | G DIESEL ACTUA | | N AND GENERATI | ON | | |
|-----------|------------------------------------|------------------------|------------------------------------|------------------------|-----------------|----------------|
| | CAPACITY in kVA | 200 | CAPACITY in kVA | 40 | Before SPVPP | After SPVPP |
| | Diesel Consumption in Litres | Generation in Units | Diesel Consumption in Litres | Generation in Units | 240 | |
| January | 171.08 | 513.25 | 0 | 0 | 86 | 257 |
| February | 171.08 | 513.25 | 738 | 2214 | 455 | 1364 |
| March | 171.08 | 513.25 | 0 | 0 | 86 | 257 |
| April | 171.08 | 513.25 | 0 | 0 | 86 | 257 |
| Мау | 171.08 | 513.25 | 0 | 0 | 86 | 257 |
| June | 171.08 | 513.25 | 0 | 0 | 86 | 257 |
| July | 171.08 | 513.25 | 0 | 0 | 86 | 257 |
| August | 171.08 | 513.25 | 320 | 959 | 245 | 736 |
| September | 171.08 | 513.25 | 413 | 1239 | 292 | 876 |
| October | 171.08 | 513.25 | 43 | 130 | 107 | 322 |
| November | 171.08 | 513.25 | 754 | 2262 | 463 | 1388 |
| December | 171.08 | 513.25 | 254 | 762 | 213 | 638 |
| TOTAL | 2053 | 6159 | 2522 | 7566 | 2288 | 6863 |



DG DIESEL ACTUAL CONSUMPTION AND GENERATION

| | Diesel | Generator Dec | atilas | |
|------|------------------------------------|----------------------------------|------------------------------------|----------------------------|
| Year | Diesel consumption in Liters | Actual Generation in Units | Porposed Generation in Units | Generator Running Hours |
| 2018 | 3133 | 17994 | 9399 | 208 |
| 2019 | 8790 | 28987.4 | 26370 | 198 |
| 2020 | 2053 | 7566 | 6159 | 193 |

| | HEATERS | G | | JANUART | | FEBRUARY | MA | MARCH | AFKIL | | MAT | - | | L | JULY | | AUGUST | | SEPTEMBER | | OCTOBER | NOVEMBER | MBER | DECEMBER | | GRAND TOTAL |
|----------------------------------|---|-------|---------------------------------------|--|---------------------------------------|----------------|---------------------------------------|-------------------|----------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------|---------------------------------------|------------------------------|---------------------------------------|---------------------------------|--|-------------------|--|---------------------|--|-------------------|---------------------------------------|-----------------------------|--|
| | | | 3] | | 28 | | 31 | | 9 | | 3] | | 90 | | 31 | | 31 | | 30 | 3] | | 90 | | 31 | | 365 |
| | | | | Rs/ Month @ | | Rs/ Month @ | ~ | Rs/ Month @ | | Rs/ Month © | | Rs/ Manth © | 220 | Rs/ Month © | Rs/ Mo | Rs/ Month @ | <u>}</u> % | Rs/ Manth @ | 787 000 000 | Rs/ Month @ | Rs/ Month © | 6 | Rs/ Month © | | Rs/ Mont h @ | Rs/ Month © |
| AT 1. LPD/D | AT 1 Unit/100 LPD/Day | | Energy Units / Month | 8.677 | Energy Units / Month | 8.677 | Energy Units / Month | 8.557 | Energy Units / Month | 8.557 | Energy Units / Month | 8.557 L | Energy Units / Month | | Energy 8 Units / Month | 8.677 En Uni Mo | Energy 8. Units / Month | 8.677 Energy Units / Month | ~ | 17 Energy Unlits / Month | 117 8.717 / h | , Energy Units / Month | 8.989 | Energy Units / Month | 8.909 Er Un Mc | Energy 8.7 Units / Month |
| Solar Wa BOYS@ 1 LPD/Day | Solar Water Heaters - BOYS@ 1Unit/100 LPD/Day | 8600 | 2665 | 23131.55 | 2408 | 20893.01 | 2666 | # # # # # # | 2580 | 22075.77 | 2666 | 22076 | | 22385.37 | 2666 2 | 23132 2 | 2666 23 | 23132 25 | 2580 22 | 22489 2666 | 6 23238 | 3 2580 | 23192 | 2666 | 23751 31 | 31390 272306 |
| 2 Solar V GIRLS LPD | Solar Water Heaters - GIRLS © 1 Unit/100 LPD | 4600 | 1426 | 12372,69 | 1288 | 11175.33 | 3 1426 | ####### | 1380 | 11807.97 | 1426 | 11808 | 1380 | 11973.57 | 1426 1 | 12373 | 1426 12 | 12373 13 | 1380 12 | 12029 1426 | 6 12430 | 1380 | 12405 | 1426 | 12704 16 | 16790 145652 |
| | | • | 0 | 00'0 | • | 00'0 | • | 00.00 | | 00'0 | • | • | 0 | 0.0 | 0 | 0 | | 0 | | 0 | 0 | • | • | 0 | 0 | 0 |
| 4 | | 0 | 0 | 0.00 | | 0.0 | | 0.00 | | 0.00 | | 0 | 0 | 0.00 | 0 | + | _ | - | _ | + | - | • | • | 0 | 0 | _ |
| 0 9 | | | | 000 | | 000 | | 000 | | 000 | | | | 000 | | | | | | | | • • | • | | 0 | |
| | | • | 0 | 0:00 | | 0.00 | | 00.0 | | 0.00 | | 0 | + + | | | | + + | | 11 | | | | • | | | + + |
| 101 | IOTAL SAVING BY SWH | 13200 | 4092 | 35504 | 3696 | 32068 | 4092 | 35013 | 39.60 | 33884 | 4092 | 33884 | 3960 | 34359 | 4092 3 | 35504 4 | 4092 35 | 35504 35 | 3960 34 | 34517 4092 | 2 35668 | 3960 | 35596 | 4092 | 36456 48 | 48180 417958 |
| | | | JANUARY | IARY | FEBR | FEBRUARY | MA | MARCH | APRIL | RIL | MAY | X | JUNE | | JULY | | AUGUST | + | SEPTEMBER | ┢ | OCTOBER | NOVE | NOVEMBER | DECEMBER | + | GRAND TOTAL |
| | | | Energy Units / Month | Rs/ Energy Month @ Units / Month | Energy Units / Month | Rs/ Month @ | Energy Units / Month | Rs/ Month @ | Energy Units / Month | Rs/ Month ® | Energy Units / Month | Rs/ Month E | Energy N | Rs/ Month U N | Energy Units / M Month | Rs/ En Month Uni @ Mo | Energy R Units / Mo Month | Rs/ Energy Month Units / @ Month | ~ | Rs/ Energy Month Units / @ Month | × - | Rs/ Energy Month Units / @ Month | Rs/ Month ® | Energy Units / Month | Rs/ Er Mont Un h @ Mc | Energy Rs/ Units / Month Month @ |
| CAPA | TOTAL BOYS HOSTEL CAPACITY LPD | 8600 | 4092 | 35504.2 | 3696 | 5 32068.3 | 3 4092 | 35013.2 | 39.60 | 33883.7 | 4092 | 33884 | 3960 3 | 34358.9 | 4092 3 | 35504 | 4092 3 | 35504 | 3960 34 | 34517 40 | 4092 35668 | 8 3960 | 35596 | 4092 | 36456 4 | 48180 417958 |
| TOTA CAPA | TOTAL GIRLS HOSTEL CAPACITY LPD | 4600 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTA SWH I | TOTAL SAVING BY SWH LPD | 13200 | 4092 | 35504.2 | 3696 | 5 32068.3 | 3 4092 | 35013.2 | 3960 | 33883.7 | 4092 | 33884 | 3960 3 | 34358.9 | 4092 3 | 35504 | 4092 3 | 35504 | 3960 34 | 34517 4(| 4092 35668 | 8 3960 | 35596 | 4092 | 36456 4 | 48180 417958 |
| | | | | | | | | | | SOLA | 8 | VATE | SOLAR WATER HEATERS | ATE | 8 | | | | | | - | | | | - | |
| 40000 35000 25000 22000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Energy Units / N Month | | Energy Rs/ Units/ Month Month @ | | Energy Rs/ Units/ Month Month @ | | Energy Rs/ Units/ Month Month @ | Rs/ Month @ | Energy Units / Month | Energy Rs/ Units/ Month Month @ | | Energy Rs/ Units/ Month Month @ | | Energy Rs/ Units/ Month Month @ | | Energy Rs/ Units/ Month Month @ | | Energy Rs/ Units/ Month Month @ | | Energy Rs/ Units / Month Month @ | | Energy Rs/ Units / Month Month @ | | Energy Rs/ Units/ Month Month @ | Rs/ Month @ | |
| | JANUARY | - | FEBRUARY | RY | MARCH | Б | APRIL | = | MAY | 47 | Ĭ | JUNE | | JULY | < | AUGUST | S | SEPTEMBER | 65 | OCTOBER | 66 | NOVEMBER | BER | DECEMBER | IBER | |

| | | | | | in Dios | IIDI ISMO I IDIOO | | | | | | | | |
|---|-------------------|------------|---------------|-------|---------|-------------------|-------|-------|--------|-------------------|---------|--------------|----------|----------------|
| 3 Solar Power Plant | Units | JANUARY | FEBRUAR MARCH | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER OCTOBER | OCTOBER | NOVEMBE R | DECEMBER | GRAND TOTAL |
| | | 31 | 28 | 31 | 30 | 3 | 30 | 31 | 31 | 30 | 31 | 90 | 31 | 365 |
| | | Local Load | Local | Local | Local | Local | Local | Local | Local | Local | Local | Local | Local | Local |
| 2 Solar Power Plant Installed Capacity | kW | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 |
| 3 Total Solar Energy Generation | Units /Month | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 |
| 4 Solar Energy Generation | Units/ Day/k// | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 Actual Solar Puchasing Taritt,Cost | Rs/Unit | 8,68 | 8.68 | 8.56 | 8.56 | 8.56 | 8.68 | 8,68 | 8.68 | 8.72 | 8.72 | 8.99 | 8.91 | 00.0 |
| 6 BESCOM TARIFF (INCLUDING ALL CHARGES) | Rs/Unit | 8.68 | 8.68 | 8.56 | 8.56 | 8.56 | 8.68 | 8.68 | 8.68 | 8.72 | 8.72 | 8.99 | 8.91 | |
| 7 Total Generation Cost By Solar Rs/ Energy as per BESCOM Taritt Ma | Rs/ Month | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 Total Generation Cost By Solar Rs/ Energy as per PURCHASE Tariff Month | Rs/ Month | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 Total Generation Cost SAVING Rs/ By Solar Energy Ma | Rs/ Month | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Total Solar Energy Generation Units /Month | Total Generation Cost By Solar Energy as per BESCOM Tariff Rs/ Month | Total Generation Cost By Solar Energy as per PURCHASE Tariff Bs/ Month |
|---|--|--|
| Solar Power Plant | | ATO |
| Sola | | JUNE |
| | | RIL MAY |
| | | APRIL |

| SI. No. | Details | Units | TFL TUBE | LED | CFI | LED | Sodium Lamps | LED | Ceiling Fans | BLDC | Occu Ser | Occupancy Sensors | Total Saving | /ing |
|-----------------|--|---------------------|------------------------------------|--------------------------------------|------------------------------------|--------------------------------------|---------------------------------|--------------------------------------|---------------------------------|--------------------------------------|-------------|--------------------------------------|---|---|
| 1 | | | Existing | Proposed | Existing | Proposed Existing | Existing | Proposed | Existing | Proposed | Existing | Existing Proposed | | |
| | Total No, Of Fittngs | Nos. | 706 | 606 | 0 | 0 | 5 | 5 | 1188 | | 25 | 25 | | |
| 2 | Capacity | Watts | 48 | 20 | 20 | 12 | 150 | 06 | 65 | 35 | 156 | 156 | | |
| m | No. of Hours Operation | Hours /Day | ø | 8 | Ø | Ø | 12 | 12 | 4 | 4 | 12 | 4 | | |
| 4 | Total Energy Consumption/ Dav | Watts /day | 271104 | 96960 | 0 | 0 | 0006 | 5400 | 308880 | 166320 | 46800 | 15600 | | |
| | | Units/ Day | 271 | 67 | 0 | 0 | 6 | 5 | 309 | 166 | 46.80 | 15.60 | | |
| | BESCOM Ave. Tariff | Rs/Unit | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | | |
| 2 | Total Energy Cost/Year (300Days) | Rs/Unit | 707466 | 253024 | 0 | 0 | 23486 | 14092 | 806046 | 434025 | 122128 | 40709 | | |
| v | Total Cost Saving | Rs. Lakhs / Year | | 4.54 | | 0.00 | | 0.09 | | 3.72 | | 0.81 | 9.17 | |
| ~ | Total Energy Saving/Year | Units/ Year | | 52243 | | 0 | | 1080 | | 42768 | | 9360 | 105451 | |
| 00 | SOCIAL IMPACT: ENERGY, ENVIRONMENTAL AND NATURAL RESOURCES | T: ENERG | Y, ENVIRC | NMENTAL # | AND NATL | JRAL RESOL | IRCES | | | | | | | |
| | | | AT CONU MER POINT (CP) | AT Generatio n POINT (2XCP) | AT CONU MER POINT (CP) | AT Generati on POINT (2XCP) | AT CONUME R POINT (CP) | AT Generatio n POINT (2XCP) | AT CONUME R POINT (CP) | AT Generatio n POINT (2XCP) | | AT Generati on POINT (2XCP) | AT AT AT CONUME G€ R POINT 110 (CP) PC | AI Genera tion POINT (2XCP) |
| \triangleleft | A Total Coal Saving @ 1kg/Unit | Tons/ Year | 52 | 104 | 0.00 | 0.00 | 1.08 | 2.16 | 42.77 | 85.54 | 9.36 | 18.72 | 105.451 | 210.90 |
| | B Total water Saving @ 3.3 Liters/Unit | KL/ Month | 172 | 345 | 0.00 | 0.00 | 3.56 | 7.13 | 141.13 | 282.27 | 30.89 | 61.78 | 347.989 | 695.98 |
| U | C Total CO2+GHG Saving @ Ika/Unit | Tons/ Month | 52 | 104 | 0.00 | 0.00 | 1.08 | 2.16 | 42.77 | 85.54 | 9.36 | 18.72 | 105.451 | 210.90 |

| 1 0. | 10. Implemented Energy Cons | Energy (| Conseval | evation Measures | | by Replacing | | Existing Lighting Fixtures and Fans | ighting | Fixtures | and F | ans | | |
|-------------|--|---------------------|---------------------------|---|----------|--------------------------------|---------------------------|--|---------------------------|--|--------------|--------------------------------|--------------|-------------------------|
| SI. No. | Details | Units | TFL TUBE | LED | CFL | LED | Sodium Lamps | LED | Ceilin g Fans | BLDC | Occu Sen | Occupancy Sensors | Total Saving | aving |
| | | | Existing | Proposed | Existing | Proposed | Existing | Proposed | Existing | Proposed | Existing | Proposed | | |
| - | Total No, Of Fittngs | Nos. | 1635 | 1635 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 2 | Capacity | Watts | 48 | 20 | 20 | 12 | 150 | 66 | 65 | 35 | 156 | 156 | | |
| ო | No. of Hours Operation | Hours/Day | ø | Ø | Ø | 8 | 12 | 12 | 4 | 4 | 12 | 4 | | |
| 4 | Total Energy Consumption /Day | Watts/day | 627840 | 261600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | Units/ Day | 628 | 262 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 0.00 | | |
| | BESCOM Ave. Tariff | Rs/Unit | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | | |
| 5 | Total Energy Cost/Year | Rs/Unit | 1638396 | 682665 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 9 | Total Cost Saving Rs. Lakhs Year | Rs. Lakhs / Year | | 9.56 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 9.56 | |
| 2 | | Units/ Year | | 109872 | | 0 | | 0 | | 0 | | 0 | 109872 | |
| 50 | 8 SOCIAL IMPACT: ENERGY, ENVIRON | ENERGY, ENV | IRONMENTA | MENTAL AND NATURAL RESOURCES | URAL RES | OURCES | | | | | | | | |
| | | | | AT O | | AT O | AT | AI O | AI | | | AI O | | AI |
| | | | CONUME R POINT (CP) | Generatio CONU n POINT MER (2XCP) POINT | | Generati on POINT (2XCP) | CONUME R POINT (CP) | Generatio n POINT (2XCP) | CONUM ER POINT (CP) | CONUM Generation ER POINT on POINT (CP) (2XCP) | MER POINT | Generati on POINT (2XCP) | 2 ₽ | Genera tion POINT |
| | A Total Coal Saving Tons/ Year @ 1kg/Unit | Tons/ Year | 011 | 220 | 0.00 | 0.00 | 00.00 | 00.00 | 0.00 | 0.00 | 0:00 | 0.00 | 109.872 | 219.74 |
| | B Total water Saving @ 3.3 Liters/Unit | KL/ Month | 363 | 725 | 0.0 | 0.00 | 0:00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0 | 362.578 | 725.16 |
| 0 | C Total CO2+GHG Saving @ 1kg/Unit | Tons/ Month | 110 | 220 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 109.872 | 219.74 |

6. ENERGY MANAGEMENT

1). NEED FOR ENERGY CONSERVATION

- (1) Apart from saving the investment required for additional power plant capacity, energy savings achieved through energy conservation & energy efficiency, also avoids capital investment in fuel, mining, port, transport, water & land.
- (2) Energy conservation thus saves cost to the consumer, utility as well as to the total society and hence should be harnessed to the maximum

2). NEED FOR ENERGY MANAGEMENT

- (1) Energy management involves a combination of managerial and technical skills.
- (2) One way of defining energy management is that it is "the judicious and effective use of energy to maximize profits (that is, minimize costs) and enhance competitive positions".
- (3) Proper development of renewable sources for sustainable development.

3). PRINCIPLES OF ENERGY MANAGEMENT

- (1) Procure all the energy needed at the lowest possible cost.
- (2) Manage energy at the highest energy efficiency.
- (3) Reusing & Recycling Energy By Cascading.
- (4) Use the most appropriate technology.
- (5) Reduce the avoidable Losses.

4). ENERGY MANAGEMENT SKILLS

Combination of both Managerial & Technical Skills and Knowledge.

- Motivating people at all levels, Creating the awareness. Involvement of employees and general public through awareness and recognition.
- (2) Continuous training and create awareness, Promoting & Propagating Energy Awareness among all the employees. to conserve energy and natural resources. And efficient use of energy.
- (3) Changing the structure and procedures. Monitoring the energy consumption.

- (4) Energy Utilization Technology. Improvement overall capacity utilization of the plant. Effective utilization of energy resources through improved operational practices, higher capacity utilization and use of appropriate technology.
- (5) Awareness of statistical Techniques of data processing.
- (6) Applied economics and cost accountability
- (7) Identifying and Eliminating wastage of Energy
- (8) Adopting Energy Efficient and Eco friendly Technologies
- (9) Implementing Energy conservation activities
- (10) Benchmarking and best practices
- (11) Carrying out regular internal and external energy audits
- (12) Institutionalizing total energy management system

5). Some Basic Methods to SAVE Energy AND Energy Cost Reduction

- (1) Switch off fans & lights when not in use
- (2) Use Air Conditioner only when absolutely necessary
- (3) Use Energy efficient lamps like LEDS
- (4) Keep the refrigerator /coolers Door always Closed
- (5) Experience shows that the Electricity cost reduction opportunities are
 - a. Decide on appropriate energy required
 - b. Identify energy conservation equipment and technologies
 - c. Retrofits for energy conservation equipment
- (6) ENERGY SAVING MEASURES
 - a. Active or efficient in-house management of energy efficiency through maintenance and housekeeping measures involves no or only very minimal investments.
 - b. Replacement of selected equipment which may require medium-size investments can be taken up.

6). HOLISTIC APPROACH TO

- (1) Adopting cleaner and Energy Efficient and Eco friendly technologies.
- (2) Improving Energy Efficiency is need of the day a. REDUCE ENERGY CONSUMPTION

- b. Conservation & optimal utilization of natural resources by adopting reduce, reuse and recycle methods.
- c. Promote use of Energy Efficient Alternatives and use of alternative fuels.
- (3) ENERGY AUDIT AND IMPLEMENTATION OF ENERGY AUDIT RECOMMENDATIONS CONTINUOUS MONITORING

7). RENEWABLE ENERGY OPTIONS

INTEGRATED SOLAR WATER HEATER & ENERGY EFFICIENCY IN RESIDENTIAL BUILDINGS

- (1) Energy form water heating in domestic Solar thermal system to replace boilers for hot water. It is terribly wasteful to use high grade energy source for water heating, SWH is a simple device which uses Solar energy for heating water and storing it. Most important features of SWH is its convenience of use and safety features ,SWH is normally installed on the rooftop
- (2) Solar energy which is renewable, environment friendly and available in abundance can easily substitute ,Solar Photovoltaic grid connected system to maintain sufficient power
- (3) Solar water Pumps and Solar Lighting
- (4) Biogas from Food waste and Human waste Power generation through Biomass gasification and or heating
- 8). Energy Audit Covered
 - (1) Energy Forms like Electricity, UPS, D G Power, Bio Gas, SWH and SPV Energy
 - (2) Lighting, Hot Water, AC System
 - (3) Air-conditioning
 - (4) Energy Efficient Lighting Systems
 - (5) Rain Water Harvesting
 - (6) Sewage Treatment Plant Process
 - (7) Measurement and analysis of energy consumption data
 - (8) Exploring energy saving opportunities
 - (9) Setting up an energy Monitoring and reporting system
 - a) Collect, analyze & report on the organization's energy cost and consumption.
 - b) Identification of savings.
 - c) Record both historical and ongoing energy use.
 - d) Cost information from billing data.
 - e) Summary report on regular basis.
 - f) Trends analyzed and tariff reviewed.

7. TECHNICAL ANALYSIS;

The following details are considered for the Technical analysis

- (1) Energy Forms like Electricity, UPS, D G Power, Bio Gas, SWH and SPV Energy.
- (2) Lighting, Solar Hot Water, AC System
- (3) Solar PV Power Plant
- (4) Air-conditioning
- (5) Energy Efficient Lighting Systems
- (6) Un-Interruptible Power Supply (UPS)
- (7) Rain Water Harvesting
- (8) Sewage Treatment Plant Process
- (9) Exploring Energy Saving Opportunities
- (10) Energy Consumption Data, Energy Monitoring and reporting system
- (11) Collect, analyze & report on the organization's energy cost and consumption.
- (12) Identification of savings.
- (13) Record both historical and ongoing energy use.
- (14) Cost information from billing data.
- (15) Summary report on regular basis.
- (16) Trends analyzed and tariff reviewed.



| SL | Deatats | Units | ANNAL |) A | FEBRUA | RY | MARCH | APRIL | - | MAY | UNITS JANUARY FEERILARY AARCH APRIL MAY JUNE JULY AUGUST | | 1017 | AUG | 12 | SETEMBER | | OCTOSER | NOVEWBER | - | DECEMBER | GRAND TOTAL |
|-------------------------|--|--------------------------|--------------|----------------|-----------------|---------------------|-----------------------------|----------------------|-----------------------------|--------------------|--|-----------------------|-----------------|-----------------|----------------|----------------------|-----------------------------|-------------|----------------------|------------------------------|---------------------|-----------------|
| 1.1 | | | | | | | The country of | | | | | 2 | | | | - C | | | | | | |
| 1 514 | STATE ELECTRICITY SUPPLY - BESCOM | | 6 | | 38 | | 55 | 8 | | 8 | 8 | | 15 | 5 | | 8 | | 8 | 8 | | 31 | 365 |
| | | | Before SPVPP | After SPVPP | Before SPVFP | Affice B SPVPP S | Boforo After SPVPP SPVPP | Ecforo A SPVPP SP | After Before SPVPP SPVPP | 9 After P SPVPP | Before After SPVPP SPVPP | er Before PP SPVPP | Affigt SPVPP | Before SPVPP | Aftor SPVPP | Before A SPVPP SP | After Before SPVPP SPVPP | PP SPVPP | Bofore A SPVPP SP | Altigr Boforo SPVPP SPVPP | 10 Altor P SPVPP | Before SPVPP |
| 1 Toto | Total Sanctloned Load | KVA. | 200 | | 200 | | 200 | 200 | | 200 | 200 | | 200 | 200 | | 200 | | 200 | 200 | | 200 | 200 |
| 2 RECL | 2 RECORDED DEMAND | KVA | 133 | | 159 | | 157 | 0 | | 74 | 52 | | 70 | 98 | | 60 | | 95 | 53 | | 345 | 99.91666665 |
| 3 Dem | 3 Demand charges @85% of Sanctioned Load | KVA | 0/1 | | 120 | - 24 | 170 | 0/21 | | 170 | 170 | | 120 | 121 | | 0/1 | | 120 | 0/1 | | 170 | 021 |
| 4 Dem | 4 Demand charges / Rived Charges | R5./KVI | 210 | | 210 | | 210 | 210 | | 210 | 210 | | 210 | 211 | | 210 | - | 210 | 220 | | 220 | 212 |
| 5 Dem | Demand charges 385% of Sanotioned Load Fixed Charges 6 | Rs/Month | 35700 | | 35700 | | 35700 | 35700 | | 35/00 | 35/00 | m | 35700 | 33/00 | Q | 35/00 | | 35/00 | 37400 | | 37400 | 35983 |
| 6 Total 1 Before | 6 Total Energy Drawn from BECSCOM Before | Units/Month | 44634 | | 45760 | | 46750 | 21966 | | 25504 | 25052 | 4 | 23196 | 29920 | 8 | 28556 | | 27216 | 28122 | | 36016 | 31891 |
| 7 Tota | Tatal Solar Generation | Units/Month | G | | a | | 0 | a | | 0 | 0 | | 0 | C | | 0 | | 0 | 0 | | Q | 0 |
| 8 Solar | 8 solar Generation Consumed | Units/Month | 0 | | o | | o | 0 | | 0 | 0 | | 0 | 0 | | 0 | | 0 | a | | 0 | 0 |
| 9 Toto Expo | 9 Total Solar Energy Generation Exported to Grid | Units/Month | 0 | | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | | 0 | 0 | | 0 | 0 |
| 10 Tota Atten | 10 Tatal Energy Drawn from BECSCCM Atter Solar | Units/ Month | 44634 | | 45760 | 45760 | 46750 46750 | 21964 | 21966 252 | 25504 25504 | 25052 | 25052 23196 | 23196 | 02662 | 29920 | 28556 | 28556 27 | 27216 27216 | 28122 | 28122 30 | 34016 34015 | 31891 |
| 11 NEI Com | 11 NET Energy drawn from BESCOM by Consumer | Units/Month | 44634 | | 45760 | 0 | 46750 0 | 21966 | 0 25 | 25504 0 | 25052 | 0 23196 | 0 | 23920 | 0 | 28556 | 0 27 | 27216 0 | 28122 | ñ | 36016 0 | 382692 |
| 12 1010 | 12 Total Energy Consumption by | Units/Day | 1440 | | 1634 | | 1508 | 732 | 823 | | 835 | 748 | | 965 | | 952 | 8/8 | 100 | 937 | 1162 | 0 | 1048 |
| 13 Asp CON | 13 Asper BESCOM Generation / CONSUMAR cost @Rs./Unit | | 7.85 | | 7.85 | | 7.85 | 7.85 | | 7.85 | 7,85 | | 7.85 | 7.85 | | 7.85 | | 7,85 | 8,10 | - | 8.10 | 7.89 |
| AAP CON | As per BESCOM Generation / CONSUMER cost @+FAC@Rs. | | 0.12 | | 0.12 | | 0.00 | 0.00 | | 0.00 | 0.12 | | 6.12 | 0.12 | 2 | 0.16 | - | 0.16 | 91.0 | | 0.08 | 01.0 |
| Asp. CON | Asper BESCOM Generation / CONSUMER cost @FFRS - | Rs./Unit | 000 | | 000 | | 0:00 | 0100 | | 0.00 | 0.00 | | 0.00 | 0.00 | | 000 | | 00/0 | 00/0 | | 000 | 000 |
| Asp CON | As per BESCOM Generation / CONSUMER cost @TAX 9% | | 0.7065 | 5 | 0.7065 | | 0.7065 | 0.7065 | | 0.7065 | 0.7065 | 0 | 0.7065 | 0.7065 | 52 | 0.7065 | - | 0.7065 | 0.7290 | | 0.7290 | 1/20 |
| 14 BESC CHA | 14 BESCOMTARIFF (INCLUDING ALL CHARGES) | | 8.6765 | | B.6765 | L [| 8.5565 | 8.5565 | | 8.5565 | 8.6765 | | 8.6765 | 8.6765 | | 8.7165 | | 8.7145 | 8.9890 | | 8.9090 | 8.70 |
| 16 EXPE | 16 ACTUOLSOID FUGUDING LOTTING | Rs///ONTH | 387267 | 0.0 | 397037 | 0.00 | 400016 0. | 187952 | 0 218225 | 225 0.0 | 217364 | 0 201260 | 0 0 | 259.601 | 0 0 | 248908 | 0 237 | 237228 0 | 252789 | 0 32(| 320867 0 | 3326978 |
| 17 ACT | CONSUMME 17 ACTUAL BESCOM BILEXCLUDING | Rs./MONTH | 387267 | 0 | 397037 | 0 | 400016 0 | 0 187952 | 0 218225 | 225 0 | 217364 | 0 201260 | 0 | 259401 | 0 | 248908 | 0 237 | 237228 0 | 252789 | 0 32(| 320867 0 | 3328878 |
| 18 00 | Other, Rehotes Interest odi | Pe /North | Q | | 9 | + | 0 | 0 | 1 | 8 | 0 | 0 | | 000 | + | 0.00 | 575 | 5728.00 | 05315 | + | 0 | 0 |
| · · · · | Manual Energy Chares | Rs./Month | | | | - | 10 | 0 | 2 | 2179 | 1253 | 627 | | | | 0 | 12 | -53624 | 4296 | - | | |
| | Others-2LATE FEE | Rs./honth | 0 | | 0 | | 000 | 0 | | 0 | -627 | 0 | | 0 | | 0 | 2 | 3654 | -53624 | | 0 | 0 |
| | Others 3 ADD | Rs./Month | 0 | | 0 | | 0 | 0 | | 0 | 0 | 3 | | 0 | | 0.00 | | | 3654 | | 0 | 0 |
| | Total RECOMM | RS/I/IONITI Pe (Month | 787947 | G | 1070705 | c | ADDIA D | 18704.2 | 300410 U | 0.00 | | 0 701887 | 0 | SUNDER: | e | 7180/8 | 0 184 | 0 0 | 751367 | 0 20 | 847 D | 3378878 |
| 19 ACT | 19 ACTUAL BESCOM BILINCLUDING DEMAND CHARGES | Rs./Month | 422967 | r | 432737 | | 435716 | | | | 251184 | 237587 | | 295301 | | 284608 | 22 | 221378 | 268757 | | 358267 | 3364862 |
| 20 Tota Genu EXCL | 20 Total Energy Cost by using Solar Generation as per BESCOM Totth EXCLUDING: DRMAND CUARCER | Rs/Month | 387267 | Q | 397037 | 0 | 400016 0 | 187952 | 0 218225 | 225 0 | 217364 | 0 201260 | 0 | 259.601 | 0 | 248908 | 0 237 | 237228 0 | 252789 | 0 | 320867 0 | 3328613 |

| TOTAL | Arrer SPVPP | 0 | 2258 | 00 | 183000 | | | | | 6.12 | 6.12 | 49.46 | 00/0 | Total AT Generat hig Palm | | 0 | 0 | 0 | 0 |
|------------------|---------------------|------------------------|--------------------------|---------------|---|--|---------------------------------------|---|--------------------------|---------------------------------------|----------------------------------|--|---|--|---|----------------------------------|--------------------------------|--|------------------------------------|
| GRAND TOTAL | Betore SPUPP | 240 | 2288 | 80.00 | 180000 | 0 | 0 | 6862.5 | 26.67 | 277376.12 | 1 | -277349.46 | | GP=2XC Consumer General AT Point (CP) hg Point | | 0 | 0 | 0 | o |
| | Affec Spypp | 0 | 213 | 90 | 170033 | | | | | 56.54 | 120866.54 | -320839.68 | 0,00 | GP=2XC | | 6 | 0 | 0 | 0 |
| DECENDER | Before SPVPP | 240 | 213 | 80,00 | 17000.3 | 0 | 0 | 868 | 20.67 | 320866.54 | | 1.0 | | At (CF) | 0 | 0 | | ٥ | c |
| ABER | After SPVPP | | 463 | 0 | 37003.3 | | | | | 8.66 | 52788.66 | -252761.99 | 000 | GP=2XC | | 0 | 0 | 0 | 0 |
| NOVEWBER | Setore SPVPP | 240 | 463 | 80.00 | 37003.3 | 0 | 0 | 1388 | 26.67 | 252788.66 | | | | A1 (CF) | o | 0 | o | o | 0 |
| BER | Atter SPUPP | 0 | 107 | 00 | 8574.67 | | | | | 8.26 | 37228.26 | -237201.60 | 000 | GP=2XC | | Q | 0 | a | C |
| OCTOBER | Sefore SPVPP | 240 | 107 | 80.00 | 8576.67 | | | 322 | 26,67 | 237228.26 | .54 | 9 | | | Ð | 0 | 0 | 0 | 0 |
| BER | After Spypp | | 292 | | 23363.33 | | | | | 3,37 | 246908.37 | -248881.71 | 0,00 | GP=2XCP At (CP) | | 0 | 0 | 0 | C |
| SEPTEMBER | Sefore Spvpp | 240 | 292 | 80.00 | 23363.33 | 0 | 0 | 876 | 26,67 | 248908.37 | 0 | 67 | | | 0 | 0 | 0 | 0 | 0 |
| | Atter | | 245 | | 19630 | - | | | | | 9600.88 | -259574.21 | 000 | GP-ZUF AT (CP) | | 0 | 0 | 0 | d |
| AUGUST | SPVPP SP | 240 | 245 | 80.00 | 05961 | a | 0 | 736 | 26.67 | 259600.88 | 25 | -23 | - | | 0 | 0 | 0 | 0 | |
| - | - | | 36 | | | | | 22 | | | 0.09 | 3.43 | 000 | GP+2XCP A1 (CP) GP+2XCP At (CP) | × | 0 | 0 | 0 | 0 |
| ATT | re Atter | 240 | 86 | 80.00 | 6843.3 6843.333 | 0 | 0 | 20 | 26.67 | 201260.09 | 20126 | -201233.43 | - | PI CP-2 | | | | | |
| _ | r Betore P Spvpp | - | 54 | | | | | 257 | 26 | | 1.68 | 101 | 00'0 | ICP A1 (C | 0 | 0 | 0 | 0 | 0 0 |
| JUNE | Atter SPVPP | 240 | 86 | 80.00 | 6843.333 6843.333 | 0 | 0 | | 22 | 217363.68 | 217363 | -217337.01 | - | | | | | | |
| | Before SPVPP | | 86 | | 3 6843.3 | | | 257 | 26.67 | 51 | 100 | | 0 | At [CF] | 0 | 0 0 | 0 | 0 | 0 |
| MAY | SPUPP | 240 | | 90.00 | 6843.33 | 0 | 0 | | | 218224.98 | 218224.90 | -218198,31 | 0.00 | GP=2XC P | | | | | |
| 2 | Before SPVPP | 1 | 18 | 96 | 6843.33 | | | 257 | 26.67 | 215 | | | | A1 (CP) | 0 | 0 | 0 | 0 | 0 |
| APRIL | After SPVPP | 240 | 86 84 | 80,00 | 68433 | 0 | 0 | | ~ | 87952.08 | 187952.08 | -187925.41 | 00'0 | GP=2X CP | | 0 | 0 | 0 | 0 |
| 4 | Before SPVPP | | | 8 | 3 6843.33 | | | 257 | 26.67 | 187 | | | 0 | A1 (CP) | Ø | 0 | 0 | 0 | 0 0 |
| MARCH | After Spypp | 240 | 86 86 | 000 | 5 6843.33 | 0 | 0 | | | 400016,38 | 400016.3 | -399989,71 | 0070 | GP=2XC P | | - | | | |
| 100 | Before SPVPP | | | | 6843.333 | | | 257 | 26.67 | 009 | | | | At ICFI | ø | 0 | o | 0 | 0 |
| ARY | After Splupp | 0 | 455 | 00 | 36363.33 | | | | | 5.54 | 397036,64 | -397009.97 | 000 | GP=2XCP | | ð | 0 | 0 | 0 |
| FERRUARY | Betore SPUPP | 240 | 455 | 80.00 | 36363.30 | 0 | G | 1364 | 26.67 | 397036.64 | | 201 | | | c | 0 | • | a | c |
| Ĭ. | Atter SPVPP | | 86 | | 6843.333333 6843.3333 36363.33 36363.33 | | 0 | | | | 17266.90 | -387240.23 | 000 | GP=2XCP At (CP) | | Q | ø | 0 | C |
| JANUARY | | 240 | 84 | 80.00 | 33333 48 | • | | 2 | 26.67 | 387266.90 | 36 | S. | | | | | | | |
| | Betore SPVPF | | | | 6843.3 | | | 257 | L | | | | | A: (CP) | 0 | 0 | 0 | 0 | 0 |
| Units | | KVA. | Libras | Revutre | Rs/Month | Utres/ Month | Rs/Month | Units/Month | Rs,/Unit | Rs/Unit | Rs./Unit | Rs/Unit | Units/Month | - NOILIW | Efres/ Month | Units/Month | KGS//Aonth | If ers/Month | KGS/Month |
| | - | | | | | | dd/d | | - | COM | | alot | - | SEL CONSL | | | | 2.5 | |
| DIESEL GENERATOR | | TOTAL D G SET CAPACITY | Total Diesel Consumption | 3 Diesei Cost | Total Diese: Cost per Month | 5 Total Dissel Saving by Installing SPVFP | Total Cost waving by Installing SPVPP | Total Energy Generation by way of Diesel # 3Units/Utre | 8 Diesel generation Cost | 9 Taritt/ Furchase Cast as per BESCOM | 10 Actual Solar Puchasing Tailit | 11 Cast Saving using Salar Instead of Dienet Generation | 12 Total Cost Equivalent to Solar Generation | 13 SOCIAL IMPACT: BY SAVING DIESEL CONSUMPTION - DIESEL | a Total Diese Saving by hutaling SPVPP | b Solar Energy Generation SAVING | c Total Coal Saving & Ikg/Unit | d Total water saving @ 3.3 Liters/Unit | e Total CO2+GNG Savina @ Ita/IIdit |
| | - | 101 | 2 Tota | 3 Diet | 4 1014 | 5 Total E SPVFP | 6 Tate | 7 Toth | 8 Diet | 9 Tari | 10 Act | E S | 12 Tot | 13 SO | a Tot | b Sold | C IOI | d Tot | o Toto |

| | | and a second second | ų | | + | Н | t | | RAPAG | + | H | t | L. | | | | t | ił. | ÷ | + | ł | + | h |
|--|--------------------|---------------------|---|---|----------------|---------------------|-------------|-----------------|-----------|----------------|-------------------|-----------------|------------------|-----------------|----------------|-------------------|--------------------|-----------------|------------------------|------------|-----------------------------|--|----------------------------------|
| | | Before SPVPF | F Affec SPVPP | Betore SPUPP | Spupp | SPVPP SP | SPVPP SPV | SPUPP SPUPP | | dends | SPUPP SPUPP | VPP SPVPP | P SPVPP | Belore SPVPP | Atter SPUPP | Setore | After 8 SPVPP 5 | SPUPP SPUPP | p SPVPP | SPUPP S | Splore After Splop Splop | PP SPVPD | PP SPVPP |
| TOTAL D G SET CAPACITY | RVA. | 6 | 240 | 240 | 9 | 240 | | | 2.40 | t | 18 | \vdash | 240 | | 010 | 2,40 | | 240 | | | 240 | | 웊 |
| Total Diese Consumption | Libras | 41 | 54 86 | 455 | 455 | 99 | 36 | 86 86 | | 36 | 5.6 | 8 99 | 86 36 | | 245 | | 292 | | 107 463 | 463 | 213 | 213 2288 | 8 2268 |
| Diesei Cost | Rs./Utre | 80 | 000 | 80 | | 80.00 | _ | 80,00 | - E | | 80.00 | K | 80.00 | 80.00 | - 1 | | | 80.00 | - | | 80/00 | | 80.00 |
| Total Disea Cost per Month Total Disea Serving to hetaling | Itree/Month | 0141-5454 | 0041.5434343 0041.5553 3636.531 3636343 | 000000000000000000000000000000000000000 | | 604.1.55.5 604.0.13 | | 0044343 0044540 | | 6843.35 | 0843.533 0843.333 | - 1 | 014.5.2 014.5.53 | | 00000 | 23363.55 25363.55 | | 10/0/01 10/0/02 | 0.000/2_520/2_/A | 1 | 1/004.5 1/005.5 | | 0 18:000 |
| SPVPP | | 5 | | < 3 | | | | | | | 63 | | | | | 8 | | e : | 8 8 | | | | 8 |
| Tatal Cost woring by initialing SPVPP Total Energy Generation by way of | Rs/Month | 257 | 0 | 1364 | | 257 0 | 20 | 257 | 257 | | 257 0 | 257 | 0 | 736 | 0 | 876 0 | | 322 | 1388 | | 0 859 | 89 | 0 6862.5 |
| Diesel & Junits/Utre | _ | | | | | | + | | | | | | | | | | - | | | 1 | | | |
| Unesel generation Cost Tariti/ Furchase Cost as per BESCOM | A Rs./Unit | 3872 | 387266.90 | 397036.64 | 36.64 | 400016.38 | | 187952.08 | 218224.98 | 34.98 | 217363.68 | 1 | 201260.09 | 2594 | 259600.38 | 248908.37 | 137 | 237228.26 | 252788.66 | 8.66 | 320866.54 | 216 | 277376.12 |
| | | | | ŝ | | | | | 8 | | | | | | | i. | | | 8 | 5 | | | |
| Actual solar Puchasing Tarif Cast Saving using Salar Instead of | Rs/Unit Rs/Unit | | -387240.23 | | -397009.97 | -3995 | -399989,71 | -187925.41 | | 218224.95 | 217337.01 | 97.01 | 201250.05 | a 10 | 239500.88 | | 248908.57 | -237201.60 | | 252761.99 | -320839.88 | | 2/73/6.12 |
| Dienel Generation 12 Total Cost Equivalent to Solar | Units/Month | | 000 | | 000 | | 0070 | 0,00 | | 0.00 | | 000 | 000 | 0 | 000 | | 0,00 | 0 | 0.00 | 000 | | 0,00 | - |
| Generation 13 SOCIAL MPACE: BY SAVING DIESEL CONSUMPTION - | - NOILIWINSNO: | At (CP) | GP=2XCP At (CP) | 1 | | At ICPI | A1 (CP) | | A1 (CP) | | At [CP] GP+2 | GP+2XCP A1 (CP) | PI GP=ZXCP | P At (CF) | GP=Z(CF | At (CP) | GP=2XCP At (CP) | 100 | A1 (CF) | At At | At (CP) | Total At | At Total AI |
| DIESEL | | | | | GP=2KCP | | GP=2XC P | GP=2X CP | | GP=2KC P | | | | | | | | GP=2XC P | | GP=2XC | GP=2XC P | 20C Consumer Point (CP) 1 | mer Generat (CP) hig Politi |
| a Total Diese Soving by Futaling SPVPP | Litres/ Month | ٥ | | o | | 0 | 2 | 0 | ø | | 0 | ۵ | | 0 | | 0 | | 0 | 0 | | 0 | | - |
| b Solar Energy Generation SAVING | Units/Month | 0 | 0 | 0 | õ | 0 | 0 | 0 | 0 0 | 0 | 0 | 0 | | 0 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Coal Saving 6 1kg/Unit | KGS/Month | 0 | 0 | 0 | 0 | o | 0 | | 0 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | ö | 0 | 0 | 0 | 0 |
| Total water Saving @ 3.3 Liters/Unit | If ens/Month | 0 | 0 | a | 0 | ō | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total CO2+GHG Saving & Ikg/Unit | KGS/Month | 0 | 0 | G | 0 | 0 | 0 | 0 | 0 0 | a | o | 0 | | 0 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Solar Power Plant | Units | VAAUNAL | ARY | FEBRUARY | ARY | MARCH | _ | APRIL | MAY | | JUNE | 36 | JULY - | AUGUST | ST . | SEPTEMBER | | OCTOBER 0 | NOVEMBER | | DECEMBER | GRAND TOTAL | IOI M |
| | | | 31 | | 28 | 6 | - | 8 | | 31 | 8 | | 31 | | 31 | | 30 | 31 | e. | 30 | 31 | | 365 |
| | | | LOCAL LOCA | 23 | Local Local | Local | _ | 10001 | 10 | Local | 1000 | - Historia | Local | 9 | rocal Load | Local | | Local | Local | - | Local | a | 0 tood |
| Solar Power Plant Installed Capacity | - KW | 170 | Q | 170 | ~ | 0/4 | | 170 | 170 | | 0/1 | | 021 | 170 | | 170 | | 170 | 0/1 | | 170 | 0/1 | a |
| Total Solar Energy Generation | Units (%/onth | | 0 | | 0 | | 0 | 0 | | 0 | - | 0 | 0 | | 0 | _ | 0 | 0 | _ | 0 | 0 | | 0 |
| Solar Energy Ceneration | Units/ Day/kW | | 0 | | 0 | | 0 | 0 | | 0 | | 0 | 0 | 1 | 0 | + | 9 | 0 | | 0 | Q | | 0 |
| Actual Solar Puchasing Tariff, Cast | Rs/Unit | | 8.68 | | 8.68 | | 8.56 | 8,56 | | 8.56 | 8 | 88 | 8.68 | | 8.66 | | 8.72 | 8.72 | | 8.99 | 8.91 | | 0.00 |
| BESCOM TARIFF (INCLUDING ALL CHARGES) | Rs/Unit | B.48 | g | 8.43 | m. | 8.56 | | 8.53 | 828 | | 5.68 | C. | 8.48 | 8.68 | | 8.72 | | 8,72 | 8.99 | | 891 | 000 | g |
| Total Generation Cost By Solar Energy as per BESCOM Taritt | Rs/ Mordth | | 0 | | 0 | | 0 | 0 | | 0 | | 0 | 0 | | 0 | | 0 | 0 | | 0 | 0 | | 0 |
| Total Generation Cost By Solar Energy as per PURCHASE Tariff | Rs/ Month | | a. | | CI. | | 0 | 0 | | 0 | | 0 | ö | | 0 | | a | 0 | | 0 | 0 | | 0 |
| Total Ceneration Cost SAVING By Solar Energy | Rv/ Month | | 0 | | 0 | | 0 | 0 | | 0 | | 0 | 0 | | 0 | | a | 0 | | a | 0 | | |
| SOCIAL IMPACT: ENERGY, ENVIRONMENTAL AND NATURAL RESOURCES - SOLAR ENERGY | DNMENTAL AND | At (CP) | GP=2XCP AI (CP) | | CP-2KCP | ICP) GP-2XC P | At (CF) | GP-2X CP | A1 (CP) | CP-2NC A1 (CP) | CPI GP=2XCP | AI (CP) | GP=2XCP A | AI (CP) G | GP=2XCP A1 | (Ca) | GP=2XCP A1 (CP) | GP-2KC | At (CP) GP-2KC P | 2XC At ICP | GP-2XC P | Total Al Total Al Conumer Point (CPJ ing Paint | Total AT Generat ing Paint |
| a Solar Energy Generation SAVING | Units/Month | a | 0 | 0 | a | 0 | 0 | 0 | c | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | |
| b Total Coul Saving @ 1kg/Unit | KGS/Month | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | 0 | 0 | 0 | 0 0 | | 0 | 0 | 0 | Q | 0 0 | 0 | 0 | 0 0 | 0 | |
| c Total water Saving 8 3.3 Liter/Unit | liters/Month | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | 0 | 0 | 0 | | 0 | | 0 | G | 0 | 0 | 0 | - | 0 | 0 | |
| Alternin Charles Source & Load off | Ļ | | | | | | | | | | > | 1 | | | 0 | 20 | 2 | | | 2 | 2 | 2 | |

| Total UPS Capacity 2 Total UPS Energy Loss per day for 10 Hours @ 35,005 3 Total UPS Energy Loss per day for 10 Hours @ 35,005 | | KVA | 319 | | 319 | | 319 | 0 | 319 | 339 | | 319 | | 616 | | 319 | | 010 | | 010 | | 010 | 11041 | | 210 |
|--|--|---------------------------|--------------|-----------------|------------------|----------------|-------------------------|----------------|------------------|-------------|-------------|------------|----------------|-----------|----------------|------------|---------------|------------|----------------|-------------------------|---------------------|--------------|----------|--------------------|---|
| 2 Total UPS Energy Loss pe Hours @ 5% loss 3 Total UPS Energy Loss pe Hours @ 5% loss | Contraction of the second seco | | | | | | | | | | | | | | | | - | 110 | - | 410 | | 317 | 410 | | Air - |
| 3 Total UPS Energy Lass pe Hours @ 5% loss | St day for iv. | Units/day | 160 | | 160 | | 160 | 7 | 160 | 160 | | 160 | | 091 | | 160 | | 160 | | 160 | | 160 | 160 | | 1914 |
| | ar day for 10 | Units/Month | 4945 | | 44.66 | | 4945 | .u | 4785 | 49.45 | | 4785 | | 4945 | | 49.45 | | 4785 | | 4945 | | 4785 | d945 | 5 | 58218 |
| 4 Total UPS Energy Lass per day for 24 Hours @ 5% loss | sr day for 24 | Units/Month | 4964 | | 4502 | | 4984 | 4 | 4823 | 4984 | | 4823 | | 4984 | | 4984 | | 4823 | | 4984 | | 4823 | 4984 | + | 58983 |
| 5 Total cost LOSSES | | Rs/Month | 44051 | | 39785 | | 43655 | 42 | 42247 | 43655 | | 40376 | | 41722 | | 41722 | | 43534 | | 44491 | * | 42481 | 44194 | T | 511914 |
| d Total Energy, Losses can reduces by Solar for 8 Hours. | reduces by | Units/Month | 1648 | | 1489 | | 1648 | 2 | 1595 | 1648 | | 1595 | | 1648 | | 1648 | | 1595 | | 1648 | | 1395 | 1648 | 80 | 19406 |
| 7 Total Cast Saving (UPS) by Solar |) by Solar | Rs/Month | 29367 | | 26525 | | 29103 | 58 | 28165 | 29103 | | 26917 | | 27814 | | 27814 | | EZ062 | | 29660 | 104 | 28321 | 29463 | 8 | 341276 |
| 8 SOCIAL IMPACT. UPS BY SOLAR ENERGY | SOLAR ENERGY | | AI (CP) GI | GP=2XCP At (CP) | ő | -2XCP | GP=2XC | At (CP) | GP=2X | AI (CP) GP | GP=2XC P | AI (CP) GP | 20CP At | (CP) GP | 2XCF A1 (CP) | e o | 2XCP At (C | (CP) GP% | 200P A1 (0 | (CP) GP=2XC P | C At (CP) | GP=2XC P | AI (CP) | GP=2XC O | Total A1 Total AT Consumer Generat Point (CP) Ing Point |
| a Solar Energy Generation SAVING | SAVING | Units/Month | 1648 | | 487 2 | 2977 1648 | - | 1595 | 3190 | 1648 | 3296 | 1595 | 1.81 | 1648 | 12 | | 1 | 595 | 3190 1648 | - | 3296 1595 | 3190 | 1648 | 3296 | 19405.83 38811. |
| a Total Coal Saving @ 1kg/Unit a Total water Saving @ 3.3 Liters/Unit | a/Unit 3 Liters/Unit | KGS/Month Itters/Month | 5439 | 3296 1 | 4913 9 | | 1648 3296 5439 10878 | 1595 1595 | 10627 | 5439 | 3296 | 1595 | 3190 | 5439 | 3296 | 1648 | 3296 10878 | 1595 | 3190 1 | 1648 3296 5439 10878 | 96 1595 (78 5264 | 4 10527 | 1648 | 3296 | 19405.83 38811.7 64039.25 128079 |
| d Total CO2+GHG Service & Iza/Unit KGS/Menth | @ Ika/Unit | KGS/Month | 1648 | 3296 | 1489 | 2977 | 1648 3296 | 1595 | 3190 | 1648 | 3296 | 1595 | 3190 | 1648 | 3296 | 1648 | 3296 | 1595 | 3190 | 1648 32 | 3296 1595 | 3190 | 1648 | 3296 | 19405.83 28611.7 |
| SOLAR WATER HEATERS | EATERS | Total (PD | NAL | ANUARY | FEBRI | RUARY | MARCH | н | APRIL | - | AWAY | = | JUNE | JULY | x | AUGUST | | SEPTEMBER | | OCTOBER | NON | NOVEMBER | DECEMBER | 1 | GRAND TOTAL |
| | | | | Rs/ Month Ø | | Rs/ Month @ | 14 | Rs/ Month @ | Re/ Menth | 100-007 | North @ | | Rs/ Month @ | ě. | Rs/ Month a | 152 | Rs/ Month | Mor | Rs/ Month S | Rs/ Month | | Rs/ Month | - | Rs/ Month | Ry/ Month |
| AT 1.001/100.00/00/ | /Dav | | Energy Units | s 8.6765 | Energy Date / | 8.6765 | Energy 8 | | Energy 8.5565 | 65 Energy | | Energy | 8.6765 | Energy 1 | | Ervergy 8. | 12 | Energy 8.7 | 6.7165 Energy | | 5 Energy | 8.989 | Energy (| 1000 | Energy 3.699 |
| Solar Water Heatters - BOYS® Itinit/1001 (PD/Dov | BOYS® | 8600 | 2056 | 23131,549 | 200 | 20893.01 | 100 | 22811.6 2 | 2580 22076 | - | 22075,8 | - | 22305.37 | | 23131.55 2 | - | 23131.549 2 | - | 22488.57 2666 | 66 23236. | 0 | 23191.6 | - | 20751.4 31 | 31390 272306 |
| 2 Solar Water Heaters - GIRLS @ 1 Unrit/100 LPD | 5/RLS @ 1 | 4600 | 1426 | 12372.669 | 1268 | 11175,33 | 14.26 1 | 12201/6 1 | 1380 11608 | 38 1426 | 11808 | 1380 | 11973.57 | 1426 1 | 12372.69 1 | 1426 123 | 12372.689 1 | 1380 120 | 1426 | 26 12429. | 7 1380 | 12404.8 | 1426 | 2704.2 36 | 145652 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | • | 0 | 0 | 0 0 |
| 4 | | 0 | 0 | 0 | 0 | a | 0 | 0 | 0 | 0 | 0 | 0 | 0 | o | 0 | a | 0 | 0 | 0 | 0 | a | 0 | a | 0 | 0 |
| 0 | | 0 | D | 0 | 0 | ٥ | 0 | D | • | 0 | n | o | 0 | 0 | 0 | 0 | D | 0 | 0 | • | D | 0 | в | D | 0 |
| 0 | | 0 | 0 | 0 | 0 | ø | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| o | | 0 | 0 | 0 | • | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | • | ø | 0 | 0 |
| TOTAL SAVING BY | HMS | 13200 | 4092 | 35504 | 3696 | 32068 | 4092 | 35013 3 | 39.60 330344 | 14 4002 | 33584 | 39.60 | 34359 | 4092 | 35504 4 | 4092 3 | 35504 3 | 39.60 34 | 34517 4092 | 92 35668 | 39.60 | 35596 | 4092 | 36456 48 | 417958 |
| G SOCIAL IMPACT: SWH | | | At (CP) | GP=2XCP | At (CP) | CP-2XCP | At (CP) (C) | GP-2XC | At (CP) GP-2X CP | X Af (CP) | OP-2XC | At (CP) | GP=2XCP | At (CP) G | GP=2XCP At (| At (CP) GP | GP=2XCP At | ICP) GP- | GP=2XCP At (CP | CPI CP-2XC | At (CP) | OP-2XC | AI (CP) | CP-2XC Con Poin | Total A1 Total A1 Consumer General Point (C9) Ind Point |
| a Solar Energy Generation /SHW SAVING | WHS: | Units/Month | 4092 | 8134 | 4 3695 | 2662 | 4092 | 8184 3 | 39.60 79 | 2607 0262 | 8184 | 3940 | 02.62 | 4092 | 8184 | 4092 | 8184 3 | 39.60 | 7920 4092 | 92 8164 | 0965 79 | 2920 | 4092 | 8184 | 48180 96360 |
| b Total Coal Saving @ kg/Unit | Unit | KGS/Manth | 4092 | 8184 | 4 3696 | 7392 | 4092 | 8184 3 | 39.60 75 | 7920 4092 | 8184 | 3760 | 1720 | 4092 | 8184 | 4092 | 8184 3 | 39.60 | 7920 4092 | P2 8184 | 84 3760 | 026/ | 4092 | 8184 | 48180 96360 |
| c Total water Saving @ 3.3 (Hers/Unit | liters/Unit | Hes/Month | 13504 | 27007 | 26121 2 | 24394 | 13504 | 27007 13 | 13068 241 | 26136 13504 | 27007 | 7 13068 | 26136 | 13504 | 27007 12 | 13504 | 27007 13 | 13045 | 26136 13504 | 04 27007 | 07 13068 | 26136 | 13504 | 27007 | 155994 317988 |
| d Tota CO2+GHG Saving & Ikg/Unit | @ 1kg/Unit | KGS/Month | 4052 | 8184 | 4 3696 | 7392 | 4092 | 6184 3 | 39.60 79 | 7920 4092 | 8184 | 39.60 | 7920 | 4092 | 8184 | | 8184 3 | 39.60 | 7920 4092 | 92 8184 | 84 3960 | 1920 | 4092 | 8184 | 48180 96360 |

| 101AL | Rs/ Month | 3.699 | 272306 | 145652 | 0 | 0 | D | 0 | 0 | 417958 | Total AT Generat Ing Paint | 94340 | 96360 | 317988 | 96360 |
|---------------------|----------------|-------------------------|--|--|---|----|----|---|---|---------------------|---|--|--------------------------------|--------------------------------------|--------------------------------|
| GRAND TOTAL | | Energy Units / | 31390 | 16298 | 8 | 0 | 0 | 0 | 0 | 48180 | Total At Total AT Consumer Generat Point (CPI Ing Point | 48180 | 48180 | 155994 | 48180 |
| VIBER | Rs/ Marth | 8309 | \$12202 | 12704.2 | 0 | 0 | D | 0 | 0 | 36456 | OP-2xC 0 | 8184 | 8184 | 27007 | 8184 |
| DECENSER | | Energy Units / | 2666 | 1426 | 0 | o | в | 0 | ø | 4092 | At (CP) | 4092 | 4072 | 13504 | 4092 |
| MRER | Rs/ Month | 8.989 | 23191.6 | 12404.8 | 0 | 0 | 0 | 0 | 0 | 35596 | GP-2XC P | 0262 | 1920 | 26136 | 0262 |
| NOVEMBER | | Energy Units / | 2580 | 1380 | ٥ | a | D | 0 | 0 | 39.60 | At (CP) | 39.60 | 39.60 | 13068 | 3960 |
| OCTOBER | Rs/ Month | 8.7165 | 23236.2 | 12429.7 | 0 | 0 | o | 0 | 0 | 35668 | GP-2XC P | 8184 | 8184 | 27007 | 8184 |
| 0010 | | Energy Units / | 2666 | 1426 | 0 | 0 | 0 | 0 | a | 4092 | Af (CP) | 4092 | 4092 | 13504 | 4092 |
| VBER. | Rs/ Month © | 6.7165 | 22480.57 | 12028.77 | 0 | 0 | 0 | o | 0 | 34517 | GP=2KCP At (CP) | 7920 | 7920 | 26136 | 7920 |
| SEPTEMBER | | Energy Units / | 2580 | 1380 | 0 | Q. | 0 | ö | 0 | 39.60 | ti Ich | 39.60 | 3960 | 13045 | 39.60 |
| AUGUST | Rs/ Month B | 8.6765 | 23131.549 | 12372.689 | 0 | 0 | D | a | 0 | 35504 | GP=2XCP At (CP) | 8184 | 8184 | 27007 | 8184 |
| NU | | Energy Units / | 26/66 | 1426 | 0 | a | 0 | 0 | 0 | 4092 | At (CP) | 4092 | 4092 | 13504 | 4092 |
| JULY | Rs/ Month B | 8,6765 | 23131.55 | 12372.69 | 0 | 0 | 0 | 0 | 0 | 35504 | GP=2XCP At (CP) GP=2XCP At (CP) | 3184 | 6184 | 27007 | 8184 |
| 9C | CE. | Energy Units / | 2666 | 1426 | 0 | 0 | a | 0 | 0 | 4092 | At (CP) | 4092 | 4092 | 13504 | 4092 |
| 4 | Rs/ Month @ | 8.4765 | 22305.37 | 11973.57 | 0 | 0 | 0 | 0 | 0 | 34359 | GP=2XCP | 02.62 | 0264 | 26136 | 7920 |
| JUNE | | Energy Umts / | 2580 | 1380 | 0 | 0 | 0 | 0 | 0 | 39.60 | At (CP) | 39.60 | 29460 | 13068 | 39.60 |
| X. | Rs/ Month @ | 8.5565 | 22075,8 | 11808 | o | 0 | D. | 0 | • | 33884 | GP-2XC | 8184 | 8184 | 27007 | 8184 |
| MAY | Jan-00 | Energy Unlis / | 2646 | 1426 | 0 | 0 | 0 | 0 | 0 | 2604 | At (C9) | \$260 | 4092 | 13504 | 000 |
| SI. | RV Month | 8.5565 | 22076 | 11606 | 0 | a | 0 | 0 | 0 | 33(3)4 | GP-2X CP | 02.62 | 1920 | 26136 | 7920 |
| APRIL | | Energy Units / | 2580 | 1380 | | 0 | Ð | 0 | 0 | 39.60 | AF (CP) | 39.60 | 09 <i>6</i> E | 13068 | 39.60 |
| HON | Rs/ Month @ | 8.5565 | 22811.6 | 12201.6 | 0 | 0 | D | 0 | 0 | 35013 | GP=2XC P | 8184 | 8184 | 27007 | 8184 |
| MARCH | | Energy Units / | 2666 | 1426 | a | 0 | o | 0 | 0 | 4092 | At (CP) | 4092 | 4072 | 13504 | 4092 |
| IARY | Rs/ Month @ | 8.6765 | 10/06/07 | 11175,33 | 0 | a | 0 | 0 | 0 | 32068 | CP-2XCP | 7392 | 7392 | 24394 | 7392 |
| FEBRUARY | | Energy Units / | 2408 | 1288 | 0 | 0 | 0 | 0 | 0 | 3696 | | 3696 | 3696 | 12197 | 369.6 |
| ARY | Rs/ Month Ø | 8.6765 | 23131.549 | 12372,689 | 0 | 0 | D | 0 | 0 | 35504 | GP=2XCP At (CP) | 8184 | 8184 | 27007 | .8184 |
| JANUARY | | Energy Units / Month | 2056 | 1426 | 0 | 0 | D | 0 | o | 4002 | At (CP) | 4092 | 4092 | 13504 | 4092 |
| Total (PD) | | | 0098 | 4600 | 0 | 0 | D | ø | 0 | 13200 | | Units/Morth | KGS/Manth | Itery/Month | KGS/Month |
| SOLAR WATER HEATERS | | AT 1 UNIVIOU (FD/Day | Solar Water Heaters - BOYS® NUhit/100 UPD/Doy | Solar Water Heaters - GIRLS @ 1 Untit/100.LPD | 0 | 0 | 0 | 0 | 0 | TOTAL SAVING BY SWH | SOCIAL INPACT SWH | a Solar Energy Generation /SHW SAVING | b Total Coal Saving 8 (kg/Unit | c Total water Saving © 3.3 (Hen/Unit | d Tota CO+GHG Sovho & Ika/Unit |
| | - | | | e | n | * | ю | 9 | ~ | | 8 | a Sol | b 101 | c Tot | of Tot |

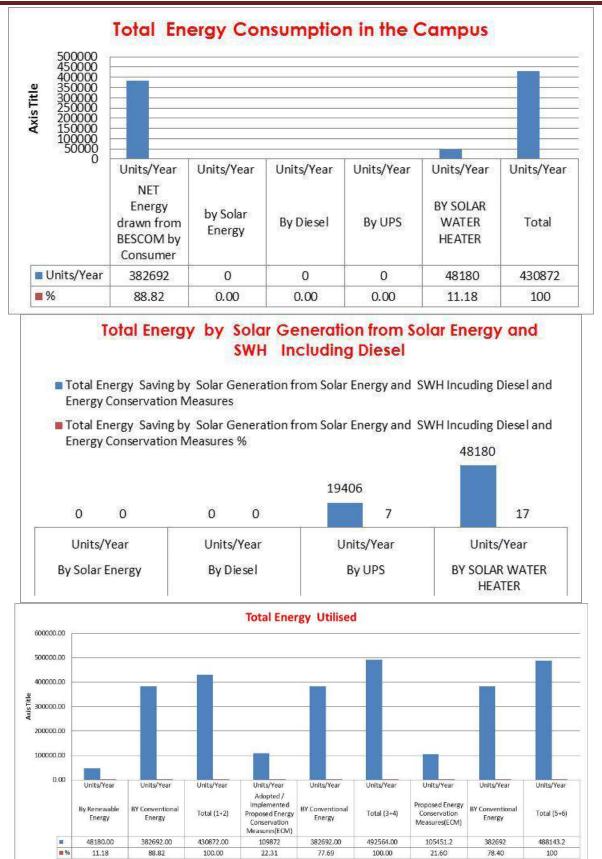
| Т | able -4 Total Energy Summary Details at | BOSCO Institute | IMPTION DETAILS e Of Technology E FOR THE YEAR | Campus |
|---|---|-----------------|--|--------------------|
| 1 | STATE ELECTRICITY SUPPLY | - BESCOM | | |
| 1 | Total Sanctioned Load | kVA | 200 | |
| 2 | RECORDED DEMAND | kVA | 99.92 | Averag |
| 3 | Demand charges @85% of Sanctioned Load | kVA | 170 | 70.08 |
| 4 | Demand charges / Fixed Charges | Rs./kW | 212 | Averag |
| 5 | Demand charges @85% of Sanctioned Load Fixed Charges @ Rs/kW | Rs. / Year | 35983 | |
| | Total Energy Drawn from BECSCOM Before | Units/Year | 382692 | |
| | Total Energy Drawn from BECSCOM Before | Units//Month | 31891 | |
| 6 | Total Energy Drawn from BECSCOM Before | Units// Day | 1048 | |
| 7 | BESCOM TARIFF (INCLUDING ALL CHARGES) | Rs./Unit | 8.699 | Averag |
| | ACTUAL BESCOM BIII EXCLUDING DEMAND CHARGES | Rs./ Year | 3328878 | |
| 8 | ACTUAL BESCOM BIII INCLUDING DEMAND CHARGES | Rs. /Year | 3364862 | |
| 9 | Saving by way of Solar Energy against BESCOM Energy | Rs. /Year | 0 | |
| 2 | DIESEL GENERATOR | 1 | Į | <u></u> |
| 1 | TOTAL D G SET CAPACITY | kVA | 240 | |
| 2 | Total Diesel Consumption | Liters/Year | 2287.5 | |
| 3 | Total Diesel Cost | Rs. /Year | 183000 | At Rs. 80/Liter |
| 4 | Total Energy Generation by way of Diesel @ 3Units/Litre | Units/ Year | 6862.5 | |
| | Actual DG Generation | Units/ Year | 0 | |
| | Difference in Generation | Units/ Year | 6862.5 | |
| | Diesel generation Cost | Rs./Unit | | At Rs. 80/Liter |
| 7 | DG Generation Loss | Rs. / Year | 183000 | No Optimum |

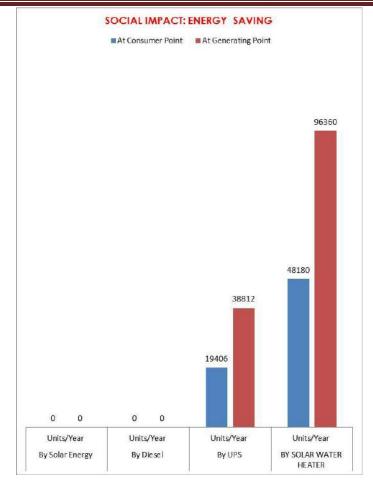
| 3 | Solar Power Plant | | | |
|---|---|---------------|--------|----------|
| 1 | Solar Power Plant Installed Capacity | kW | 170 | |
| 2 | Total Solar Energy Generation | Units/Year | 0 | 3 Months |
| 3 | Total Solar Energy Generation | Units/Month | 0 | |
| 4 | Total Solar Energy Generation | Units/Day | 0 | |
| 5 | Solar Energy Generation | Units/ Day/kW | 0 | |
| 5 | Actual Solar Puchasing Tariff,Cost | Rs/Unit | 8.6765 | |
| 6 | BESCOM TARIFF (INCLUDING ALL CHARGES) | Rs./Unit | 8.699 | Average |
| 7 | Total Generation Cost By Solar Energy as per BESCOM Tariff | Rs./ Year | 0 | |
| 8 | Total Generation Cost By Solar Energy as per PURCHASE Tariff | Rs./ Year | 0 | |
| 9 | Total Generation Cost SAVING By Solar Energy | Rs./ Year | 0 | |

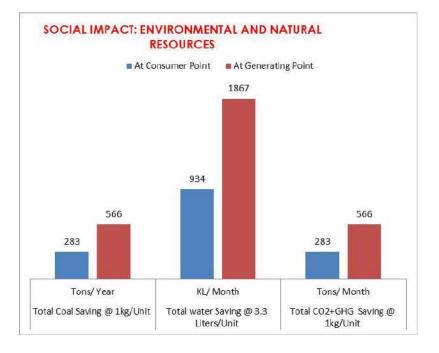
| 4 | UPS LOSSES | | | |
|---|---|------------|--------|---------------------|
| | 1 Total UPS Capacity | kVA | 319 | |
| | 2 Total UPS Energy Loss per day for 10 Hours @ 5% loss | Units/day | 159.5 | |
| | 3 Total UPS Energy Loss per day for 24 Hours @ 5% loss | Units/Year | 58683 | |
| | 4 Total cost LOSSES | Rs./ Year | 506397 | |
| | 5 Total Energy Losses can reduces by Solar for 8 Hours | Units/Year | 19406 | Needs Check with |
| | 6 Total Cost Saving (UPS) by Solar | Rs./ Year | 337598 | Inverter System |

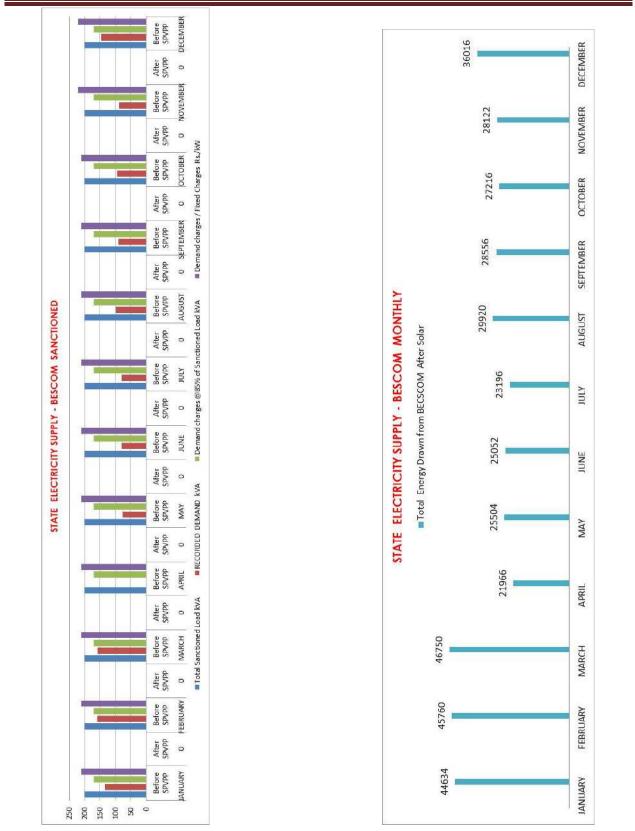
| | | TOTAL SWH CAPACITY LPD | Energy Units/ Year | Rs/ Yea |
|---|--|---------------------------|-----------------------|---------|
| | 1 BOYS HOSTEL | 8600 | 31390 | 272306 |
| | 2 GIRLS HOSTEL | 4600 | 16790 | 145652 |
| | 3 TOTAL SAVING BY SWH | 13200 | 48180 | 417958 |
| | Total Energy Consumption in | the Campus | | |
| | | | Units/Year | % |
| | 1 NET Energy drawn from BESCOM by Consumer | Units/Year | 382692 | 88.82 |
| | 2 by Solar Energy | Units/Year | 0 | 0.00 |
| | 3 By Diesel | Units/Year | 0 | 0.00 |
| | 4 By UPS | Units/Year | 0 | 0.00 |
| | 5 BY SOLAR WATER HEATER | Units/Year | 48180 | 11.18 |
| | 6 Total | Units/Year | 430872 | 100 |
| | 7 Total Ener Consumption by | Units/Month | 35906 | |
| | 8 Total Ener Consumption by | Units/day | 1180 | |
| , | Total Energy Saving by Solar Energy and SWH Incuding Die Conservation Measures | | | % |
| | 1 By Solar Energy | Units/Year | 0 | 0 |
| | | | - | |
| | 2 By Diesel | Units/Year | 0 | 0 |
| | 3 By UPS | Units/Year Units/Year | 0 19406 | 0 7 |
| | | - | | |
| | 3 By UPS | Units/Year | 19406 | 7 |
| | 3 By UPS 4 BY SOLAR WATER HEATER 5 Adopted / Implemented Proposed | Units/Year Units/Year | 19406 48180 | 7 17 |

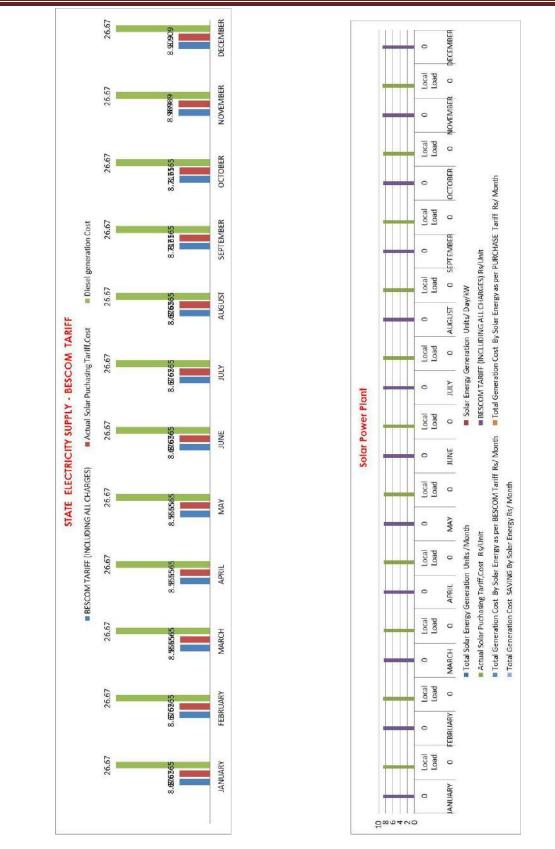
| | Total Energy Utilised by | | | % |
|---------------------------------|---|--|---|---|
| 1 | By Renewable Energy | Units/Year | 48180.00 | 11.18 |
| 2 | BY Conventional Energy | Units/Year | 382692.00 | 88.82 |
| | Total (1+2) | Units/Year | 430872.00 | 100.00 |
| 3 | Adopted / Implemented Proposed Energy Conservation Measures(ECM) | Units/Year | 109872 | 22.31 |
| 4 | BY Conventional Energy | Units/Year | 382692.00 | 77.69 |
| | Total (3+4) | Units/Year | 492564.00 | 100.00 |
| 5 | Proposed Energy Conservation Measures(ECM) | | 105451.2 | 21.60 |
| 6 | BY Conventional Energy | Units/Year | 382692 | 78.40 |
| | Total (5+6) | Units/Year | 488143.2 | 100 |
| 9 | Total Energy Cost Details inclu Renewable Energy Sources inc Energy Conservation Measures Total Energy Cost | cluding BESCO | | % |
| 2 | By Solar Energy | | 0.00 | 0.00 |
| 3 | | | 168374.71 | 6.84 |
| 4 | BY SOLAR WATER HEATER | | 419097.75 | 17.03 |
| | Adopted / Implemented Proposed Energy Conservation Measures(ECM) | Rs./Year | 955730.75 | 38.84 |
| 6 | Proposed Energy Conservation Measures(ECM) | Rs./Year | 917276.05 | 37.28 |
| | Total (2+3+4) | Rs./Year | 2460479.26 | 100 |
| 10 | Total Energy Cost | | | % |
| 1 | Total BESCOM Cost | Rs./Year | 3364861.59 | 94.84 |
| 2 | Total Renewable Energy Cost | Rs./Year | 0.00 | 0.00 |
| 3 | Total Diesel Cost | Rs./Year | 183000 | 5.16 |
| | | 13.71001 | | |
| | Total | Rs./Year | 3547861.59 | 100.00 |
| 11 | | Rs./Year | | |
| | Total SOCIAL IMPACT: ENERGY, ENV | Rs./Year | 3547861.59 At Consumer | 100.00 At Generating |
| 1 | Total SOCIAL IMPACT: ENERGY, ENV AND NATURAL RESOURCES By Solar Energy By Diesel | Rs./Year /IRONMENTAL | 3547861.59 At Consumer Point | 100.00 At Generating Point |
| 1 2 3 | Total SOCIAL IMPACT: ENERGY, ENV AND NATURAL RESOURCES By Solar Energy By Diesel By UPS | Rs./Year IRONMENTAL Units/Year | 3547861.59 At Consumer Point 0 | 100.00 At Generating Point 0 |
| 1 2 3 | Total SOCIAL IMPACT: ENERGY, ENV AND NATURAL RESOURCES By Solar Energy By Diesel | Rs./Year IRONMENTAL Units/Year Units/Year | 3547861.59 At Consumer Point 0 0 | 100.00 At Generating Point 0 |
| 1 2 3 4 5 | Total SOCIAL IMPACT: ENERGY, ENV AND NATURAL RESOURCES By Solar Energy By Diesel By UPS BY SOLAR WATER HEATER By (adapted /Implemented)Energy Conservation Measures(ECM)opted | Rs./Year IRONMENTAL Units/Year Units/Year Units/Year Units/Year Units/Year | 3547861.59 At Consumer Point 0 0 19406 48180 109872 | 100.00 At Generating Point 0 0 38812 |
| 1 2 3 4 5 | Total SOCIAL IMPACT: ENERGY, ENV AND NATURAL RESOURCES By Solar Energy By Diesel By UPS BY SOLAR WATER HEATER By (adapted /Implemented)Energy | Rs./Year (IRONMENTAL Units/Year Units/Year Units/Year Units/Year | 3547861.59 At Consumer Point 0 0 19406 48180 | 100.00 At Generating Point 0 0 38812 96360 |
| 1 2 3 4 5 | Total SOCIAL IMPACT: ENERGY, ENV AND NATURAL RESOURCES By Solar Energy By Diesel By UPS BY SOLAR WATER HEATER By (adapted /Implemented)Energy Conservation Measures(ECM)opted By Proposed Energy Conservation | Rs./Year IRONMENTAL Units/Year Units/Year Units/Year Units/Year Units/Year | 3547861.59 At Consumer Point 0 0 19406 48180 109872 | 100.00 At Generating Point 0 0 38812 96360 219744 |
| 1 2 3 4 5 6 | Total SOCIAL IMPACT: ENERGY, ENV AND NATURAL RESOURCES By Solar Energy By Diesel By UPS BY SOLAR WATER HEATER By (adapted /Implemented)Energy Conservation Measures(ECM)opted By Proposed Energy Conservation Measures(ECM) | Rs./Year IRONMENTAL Units/Year Units/Year Units/Year Units/Year Units/Year Units/Year | 3547861.59 At Consumer Point 0 0 19406 48180 109872 105451 | 100.00 At Generating Point 0 0 38812 96360 219744 210902 |
| 1 2 3 4 5 6 7 | Total SOCIAL IMPACT: ENERGY, ENV AND NATURAL RESOURCES By Solar Energy By Diesel By UPS BY SOLAR WATER HEATER By (adapted /Implemented)Energy Conservation Measures(ECM)opted By Proposed Energy Conservation Measures(ECM) | Rs./Year IRONMENTAL Units/Year Units/Year Units/Year Units/Year Units/Year Units/Year | 3547861.59 At Consumer Point 0 0 19406 48180 109872 105451 282909 At Consumer | 100.00 At Generating Point 0 0 38812 96360 219744 210902 565818 At Generating |
| 1 2 3 4 5 6 7 | Total SOCIAL IMPACT: ENERGY, ENV AND NATURAL RESOURCES By Solar Energy By Diesel By UPS BY SOLAR WATER HEATER By (adapted /Implemented)Energy Conservation Measures(ECM)opted By Proposed Energy Conservation Measures(ECM) Total | Rs./Year IRONMENTAL Units/Year Units/Year Units/Year Units/Year Units/Year Units/Year Units/Year | 3547861.59 At Consumer Point 0 0 19406 48180 109872 105451 282909 At Consumer Point | 100.00 At Generating Point 0 0 38812 96360 219744 210902 565818 At Generating Point 566 1867 |



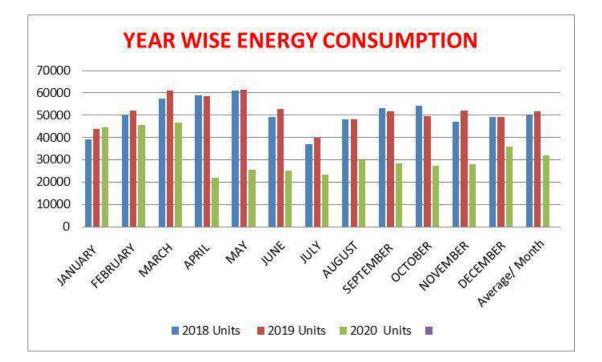








| Table | -5 YEAR WISE ENI | ERGY CONSUMPT | ION |
|----------------|------------------|---------------|------------|
| Year | 2018 Units | 2019 Units | 2020 Units |
| JANUARY | 39292 | 43998 | 44634 |
| FEBRUARY | 49954 | 52062 | 45760 |
| MARCH | 57532 | 60914 | 46750 |
| APRIL | 58974 | 58636 | 21966 |
| MAY | 61024 | 61460 | 25504 |
| JUNE | 49238 | 52714 | 25052 |
| JULY | 37002 | 39864 | 23196 |
| AUGUST | 48150 | 48062 | 29920 |
| SEPTEMBER | 53054 | 51660 | 28556 |
| OCTOBER | 54350 | 49606 | 27216 |
| NOVEMBER | 46964 | 52242 | 28122 |
| DECEMBER | 49232 | 49356 | 36016 |
| Average/ Month | 50397 | 51715 | 31891 |
| Total | 604766 | 620574 | 382692 |



DRHNG NTCST

| | Table -6 Existi | ng Lighting Fixtu | ures and Fans | |
|--------|------------------------|-------------------|---------------|-------------|
| SL.No. | Details | LED in Nos. | FAN in Nos. | FTL in Nos. |
| 1 | MBA + PUC BLOCK | | | |
| | GROUND FLOOR | 37 | 51 | 53 |
| | FIRST FLOOR | 35 | 64 | 46 |
| 2 | MBA BLOCK | | | |
| | GROUND FLOOR | 73 | 34 | 0 |
| | FIRST FLOOR | 76 | 30 | 0 |
| | SECOND FLOOR | 98 | 60 | 0 |
| | THIRD FLOOR | 110 | 56 | |
| 3 | A WING RIGHT SIDE /PRI | NĊIPAL | | |
| | GROUND FLOOR | 243 | 116 | 66 |
| | FIRST FLOOR | 134 | 128 | 125 |
| | SECOND FLOOR | 156 | 145 | 98 |
| 4 | B WING LEFT SIDE | | | |
| | GROUND FLOOR | 75 | 78 | 44 |
| | FIRST FLOOR | 7 | 79 | 107 |
| | SECOND FLOOR | 24 | 52 | 75 |
| | CELLER | 11 | 30 | 47 |
| | WASHROOMS | 144 | 0 | 0 |
| | WORK SHOP | 12 | 25 | 45 |
| 5 | MESS | 30 | 55 | 0 |
| 6 | BOYS HOSTEL | 230 | 115 | 0 |
| 7 | GIRLS HOSTEL | 140 | 70 | 0 |
| | TOTAL | 1635 | 1188 | 706 |
| 8 | STREET LIGHTS | | | |
| | | 10 | 200 | WATTS |
| | | 5 | 100 | WATTS |
| | | 3 | 15 | WATTS |
| | - | | - | |

8. Observations and Recommendations on the basis of Technical Analysis

- As per the Analysis The total generated and Consumed from Renewable energy, mainly by taping Solar Energy both Light and heat Energy For the Year 2021 is 11.18 %.
- (2) In the Boys Hostel Total 1500 LPD Solar Water Heater not Function and it requires little Maintenance
- (3) For Girls Hostel, Total 4000 LPD Solar Water Heater installed at another building, it is better to shift from existing building to Girls Hostel Building
- (4) In the both Hostels, Heat Pump Water with capacity of 13kW and 20 kW installed , it is required review in the operation time/ process.
- (5) It is proposed to 170 kWp Solar Rooftop Power Plant with Net Metering to install at Main Building.
- (6) UPS In this system lot of Energy loss in the form of Heat as well as Charging and discharging loss, it can be / possibility is there to minimize the loss with proper wiring arrangement / connection with Off Line UPS System.
- (7) Already Implemented Energy Conservation Measures by Replacing Existing Lighting Fixtures and Fans with Efficient systems. Saving of Energy about **22.31 %**.
- (8) Proposed Energy Conservation Measures by Replacing Existing Lighting Fixtures and Fans with Efficient systems. Saving of Energy about **21.60** %.
- (9) The Records of BESCOM Bills, DG Set, SWH, Solar PV Power Plant and UPS along with other details, proper recording and maintain data BANK is very much required.
- (10) Energy Consumption Data, Energy Monitoring and reporting system is very much required.
- (11) Proposed for Bio Gas Plant for Gas generation and for Heating purpose by Human waste under Sewage Treatment Plant concept.
- (12) Motivating people at all levels, Creating the awareness. Involvement of employees and general public through awareness and recognition.
- (13) Continuous training and create awareness, Promoting & Propagating Energy Awareness among all the employees. to conserve energy and natural resources. And efficient use of energy.
- (14) Switch off fans & lights when not in use, To facilitate effective control, Invite SUGGEST for IMPROVEMENTS from employees.
- (15) Display Board mentioning Switch off fans & lights when not in use at important places and issue direction in this matter to all the Staff at all level.

9. Conclusion:

1. SOCIAL IMPACT

Every country should have abundant, affordable and reliable energy. During the past few years, renewable energy sources have received greater attention and considerable inputs have been given to develop efficient energy conversion and utilization techniques. Energy Conservation is the Best Reservation for the Future Generation. Today's clean environment is tomorrow's safe environment and today's world is yesterday's creation, tomorrow's world will be today's conservation. Today's wastages is tomorrow shortage, Saving energy is simple, it needs a change in attitude, using and buying energy efficient equipment's. Large capacity addition requires capacity building of vendors, construction agencies, transportation and infrastructure. Government of India is taking steps in this regard. There are many environment related issues. Good, safe and healthy air and environment are paramount for our citizens. Climate issues are of global concern. All the stake holders need to understand the various issues in the right balance and perspective to ensure the targeted growth in GDP and removal of poverty.

Main objective of grid connected SPV system is to provide demand side management, tail end voltage support and peak shaving requirements. Grid Interactive SPV system has the following benefits / advantages

- 1. Better quality of power than utility grid as the power factor is unity.
- 2. Modular in construction and expandable.
- 3. Generation of the power at the point of consumption thus avoiding transmission losses.
- 4. Minimum maintenance
- 5. Very low running cost
- 6. No pollution

2. ENERGY

- a. Transmission and Distribution Loss Reduces
- b. UPS Energy Charging and Discharging Loss reduction

3. NATURAL RESOURCES

- a. Diesel Saving
- b. Saving / Reduces Consumption of Coal and Water

4. ENVIRONMENTAL Protection

a. Reduces the Emission of Carbon Dioxide (CO2) and Green house Gases(GHG)

b. Air Quality Improves and Temperature Reduces

5. Economics

- a. Cost of Production reduces as the time passes
- b. Life of the Battery Increases
- c. Under Net Metering Scheme revenue generates and also roof top area better utilized with roof heating reduces in turn temperature reduces inside the room/ hall.

Though, it is the responsibility of the Government to provide basic needs to society, at the same, it is also the responsibility of the society to conserve energy, energy resources and protect the environment and SAVE THE MOTHER LAND.

10.Tables

- (1) Table -1 Abstract Of Existing Lighting Fixtures And Fans
- (2) Table 2 ENERGY CONSUMPTION AND EXISTING DETAILS IN THE INSTITUTIONS INSIDE THE DON BOSCO INSTITUTE OF TECHNOLOGY CAMPUS:
- (3) Table 3 ENERGY CONSUMPTION DETAILS AT DON BOSCO Institute Of Technology Campus BANGALORE FOR THE YEAR 2021
- (4) Table 4 Total Energy Summary Details Of ENERGY CONSUMPTION AT DON BOSCO Institute Of Technology Campus BANGALORE FOR THE YEAR 2021
- (5) Table -5 YEAR WISE ENERGY CONSUMPTION
- (6) Table 6 Details Of Existing Lighting Fixtures And Fans

11. Graphs

- (1) Total Energy Consumption in the Campus
- (2) Total Energy by Solar Generation from Solar Energy and SWH Including Diesel
- (3) Total Energy Utilized
- (4) SOCIAL IMPACT: ENERGY SAVING
- (5) SOCIAL IMPACT: ENVIRONMENTAL AND NATURAL RESOURCES
- (6) STATE ELECTRICITY SUPPLY BESCOM SANCTIONED
- (7) STATE ELECTRICITY SUPPLY BESCOM MONTHLY
- (8) STATE ELECTRICITY SUPPLY BESCOM TARIFF
- (9) Solar Power Plant Details

12. Documents :

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Bangalore Electricity Supply Company Limited (Whally Owned Covernment of Kometaka Undertaking) Office of the Asst. Executive Engineer (Ek.), C, O&M Sub-cividor - K1 KENGERI

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Bangalore Electricity Supply Company Limited

(Wholly Owned Government of Karnataka Undertaking)

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Bangalore Electricity Supply Company Limited

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