

# FIELD TRIP 2020-21

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Organized by: Dept of Chemistry G D C Bellampally  
Place of Visit : Shalivahana Green Energy Ltd 6.M.W Bio Mass  
No of Student Participants: 25  
No of Teachers Participants: 02  
Date of Visit : 27-12-2021

## Objectives of the Field Trip

The main objectives of the field trip

To

- Develop knowledge
- Skill and
- Research Aptitude
- Excitement and adventure in learning
- Opportunity for self-experience and observation

Fuels used to generate power

- 1) Husk
- 2) Forestry Crops and Residue
- 3) Agriculture Crops and Residue
- 4) Sewages
- 5) Animal Residue



| S.No. | NAME OF THE STUDENT | GROUP            | SIGNATURE        |
|-------|---------------------|------------------|------------------|
| 0.1   | B. Shirisha         | BZC III Year     | B. Shirisha      |
| 02.   | D. Meghana          | BZC III Year     | D. Meghana       |
| 03.   | G. Ganya            | BZC III Year     | G. Ganya         |
| 04.   | P. Manasa           | BZC III year T/M | P. Manasa        |
| 05.   | B. Sandhya Rani     | BZC III year T/M | B. Sandhya Rani  |
| 06.   | D. Pravalika        | BZC III year T/M | D. Pravalika     |
| 07.   | F. Maheshwari       | BZC III year T/M | F. Maheshwari    |
| 08.   | P. Anjamma          | BZCS II year T/M | P. Anjamma       |
| 09.   | G. Nirikshana       | BZC II year T/M  | G. Nirikshana    |
| 10.   | N. Lavanya          | BZCS II year T/M | N. Lavanya       |
| 11.   | N. Spandhana        | BZC I year E/M   | N. Spandhana     |
| 12.   | B. Shireesha        | BZC I year E/M   | B. Shireesha     |
| 13.   | G. Anudeepthi       | "                | G. Anudeepthi    |
| 14.   | T. Saisathya        | "                | T. Saisathya     |
| 15.   | M. Mounika          | "                | M. Mounika       |
| 16.   | K. Nagalaxmi        | "                | K. Nagalaxmi     |
| 17.   | J. Vidhyadhari      | "                | J. Vidhyadhari   |
| 18.   | K. Sai Keerthana    | "                | K. Sai Keerthana |
| 19.   | S. Vyshnavi         | "                | S. Vyshnavi      |
| 20.   | N. Aishwarya        | "                | N. Aishwarya     |
| 21.   | P. Akshaya          | "                | P. Akshaya       |
| 22.   | D. Sriveni          | "                | D. Sriveni       |
| 23.   | D. Abhilash         | BZC II year E/M  | D. Abhilash      |
| 24.   | M. Ravinder         | BZC I year E/M   | M. Ravinder      |



Production of power by plant: 6.W.M

Rotation of Turbine : 7500 rpm

Problems encountered : Nil

Name of the Resource Person : Mr. Pradeep Kumar, Manager

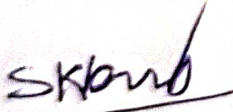
## Outcome of the Visit

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- Exposure to outside world of technology and power-generation
- Experiential knowledge of conversion of renewable biomass fuels to heat and electricity
- Understanding the conversion process of fossil fuels
- Process of direct combustion
- Practical knowledge about turbines, power generation etc.,
- To realize how biomass can serve as a substitute for coal in generating power through process called 'Co-firing'


## Conclusion

The field trip provided students an insight into how biomass can be utilized for power generation from waste organic materials by recycling.

  
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Lecturer in Chemistry

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