FIELD TRIP SHALIVAHANA GREEN ENERGY LTD., 6 M. W.BIO-MASS

Name of the organizer: Department of Chemistry,

GDC-BELLAMPALLY

Name of the Field Trip : Shalivahana Green Energy Ltd.,6

M.W.Bio-Mass

No. of students involved : 25

No. of teachers involved : 02

Date of the visit : 27-03-2021.

Place of the visit: Shalivahana Green Energy Ltd., Patha Mancherial.

OBJECTIVES OF THE FIELD TRIP:

The Main Objective of the field trip is to develop the knowledge, skill and character among the students. The field trips are agreat way to bring excitement and adventure to learning. Especially the activity of educational field trips which are commonly conducted for the students at higher level are one of the major source of providing knowledge to the students by giving opportunity for knowledge for self-experiences and observations and self-long-lastinglearning's.

Fuels used to Generate Power:

- 1. Husk
- 2. Forestry Crops and Residues
- 3. Agricultural Crops and Residues
- 4. Sewage
- 5. Animal Residue

Production of Power by Plant: 6 M. W. Per Hour.

Rotation of Turbine : 7500 RPM. Expenditure incurred & resources required: NIL

Problems encounter: NIL

Name of the resource person: Mr. Pradeep Kumar Manager

MR.SUDHAKARPLANTOPERATOR

OUTCOME OF THE VISITY (ASTE) INTO SPENIAL SAMENED KNOWLEDGEDGDGE ABOUT

Green Energy Limited, our students gained knowledge about, Biopower technologies convert renewable biomass fuels into heat and electricity using processes similar to those used with fossil fuels.

Most electricity generated from biomass is produced by direct combustion. Biomass is burned in a boiler to produce to high pressure steam. The rotation of the turbine 7500 rpm, drives a generator, producing electricity. Biomass can also serve as substitute for portion of Coal in an exciting power plant furnace in process called co-firing. By this student understood that the how biomass can be utilized to produce power from the waste or residual organic materials.



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LIST OF STUDENTS PARTICIPATED IN FIELD TRIP

S.No	NAME OF THE STUDENT	GROUP	SIGNATURE
0.1	B. Shirisha	BIC III Year	B. Sirisha
02.	D. Meghana	BIC III Year	D. Meglar
03.	G. Garnya	BZC II year	Gr. Growing
04.	P. Manasa	BIC I year	P. Marrosa
05.	B. Sandhya Rani	BIC III YEOVIN	B Sordlyon
06.	D. Pravalika	BZC III year T/M	o. Provatio
.FO_	E. Mahesh Wari	BZC I year TIM	Emohahu
O8.	P Anjamma	BZC II year TIM	b. Hwitamina
09	G. Niritshana	BZCS I year T/M	G. Ninitston
10	N. Lavanya	BZC I year T/M	N. Laverrya
_11	N. Spandhana	BZCS I Year T/M	N. Sparcon
12	B. Shireesha		B. Shiccesha
13.	6. Anudeepthi		1
14.	I. Saisathya	BZC Tyear E/M	1. Saisath
15.	M. Mounita	u l	M. Mouri
16.	K. Nagalaxmi	3 y J 4 4	n.pagalad
17.	J. Vidhyadhari	Are Design	J. Vidhyadh
18.	K. Sai Keerthang	,	K. Sai keest
19.	S. Vyshnavi))	
20.	N. Aishwarya	1)	P. Myshnan
21.	P. Akshaya		
<u> </u>	D. Sziveni	. "	P. Akshayo P. Borveni
23."	D. Abhilash		D. Abhivas
24.	M. Ravinder	BZC I year ElM	
		BZC I year E/M	PROVING

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

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 generatin power through process called 'Co-firing'

Conclusion

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

P. Swamy

Lecturer in Chemistry

G. D.C. Bellampally

