



तेजपुर विश्वविद्यालय / TEZPUR UNIVERSITY

(केंद्रीय विश्वविद्यालय / A Central University)

ऊर्जा विभाग / DEPARTMENT OF ENERGY

तेजपुर-784028 :: असम / TEZPUR-784028 :: ASSAM

Office of the

Controller of Examinations

Recd. 10/2/21

Received Date 1/2/21

कुलायुक्त का सर्वोत्तम विश्वविद्यालय पुरस्कार, 2016, एनआईआरएफ भारत रैंकिंग 05 :2016 और नाक द्वारा ए ग्रेड प्राप्त
Visitor's Best University Award, 2016, NIRF India Rankings 2016: 05 and accredited with NAAC 'A' grade

F.TU/ENE/17-04/2020/1/295

Date: 29/01/2021

To,

The Controller of Examinations,
Tezpur University

Sub. : Submission of Project Report (Project Part I) and Grades {Autumn, 2020}

Sir,

Please find enclosed herewith the Project Reports and Grade Submission Forms of the following 3rd Semester, M.Tech students(2019-2021)

Sl No	Name	Roll No	Project Guide
1	Rahul Das Baruah	ENE19001	Dr. S Mahapatra
2	Rahul Sarma	ENE19004	Dr. B K Kakati
3	Avik Ghosh	ENE19005	Dr N Sarmah
4	Arup Chandra Saha	ENE19006	Dr. V Verma
5	Sudipta Saikia	ENE19008	Dr. V Verma
6	Jitumoni Swargiary	ENE19009	Dr. P K Choudhury
7	Gouranga Nath	ENE19010	Dr. P K Choudhury
8	Pranita Devi	ENE19011	Prof R Kataki
9	Sudarsana Hazarika	ENE19012	Prof R Kataki
10	Mej Licha	ENE19013	Dr. B K Kakati
11	Chandan Kumar Sah	ENE19014	Dr. S Mahapatra
12	Uddipan Nath	ENE19015	Prof. D C Baruah
13	Bikram Chakraborty	ENE19016	Prof. D Deka
14	Nadarajah Pravin Diliban	ENE19020	Dr. S Mahapatra
15	Reinfrida Kokushubila Michael Basheke	ENE19021	Prof. D C Baruah
16	Abhinova Tamuly	ENE19022	Dr. B K Kakati
17	Isfakur Rasul	ENE19023	Prof. D Deka
18	Rabina Ahmed	ENE19024	Dr N Sarmah
19	Khaleda Begum Gia	ENE19025	Prof. D Deka
20	Tarunodoy Dutta	ENE19026	Prof. D C Baruah
21	Bhargav Gogoi	ENE19027	Dr. V Verma
22	Ghritimanjari Deka	ENE19028	Dr. P K Choudhury
23	Anol Gogoi	ENE18002	Dr N Sarmah

HOD, Energy
M-Tech project
reports are
returned
for safe record
in the department
Bak
2/2/21

Head
Department of Energy
Tezpur University

SOLAR ENERGY DRIVEN/ASSISTED PYROLYSIS

PROGRESS REPORT-(PART 1) SUBMITTED IN PARTIAL FULFILLMENT
OF THE REQUIREMENT FOR THE DEGREE OF

**MASTER OF TECHNOLOGY
IN
ENERGY TECHNOLOGY**

IN THE SCHOOL OF ENGINEERING
TEZPUR UNIVERSITY

By

PRANITA DEVI, B.Tech (ME)

ENE19011



Pranita Devi
29/01/2024

**DEPARTMENT OF ENERGY
TEZPUR UNIVERSITY
TEZPUR, INDIA, January
2020**

W
Head
Department of Energy
Tezpur University

Department of Energy
Tezpur University
Tezpur, India

EN539: Project (Part – I)



Project Report on the topic:

**DESIGN AND SIMULATION OF GRID CONNECTED
INVERTERS FOR SOLAR PHOTOVOLTAIC SYSTEMS.**


Prepared By

Name: Jitumoni Swargiary

Roll No: ENE19009

Semester: M.Tech, 3rd Semester

Swargiary
Jy
28/1/2021


Head
Department of Energy
Tezpur University

**EXPERIMENTAL INVESTIGATION OF PHOTOVOLTAIC
THERMAL SYSTEM THROUGH DESICCANT
MATERIALS**

PROGRESS REPORT SUBMITTED IN PARTIAL FULFILLMENT OF THE
REQUIREMENT FOR THE DEGREE OF

**MASTER OF TECHNOLOGY
IN
ENERGY TECHNOLOGY**

IN THE SCHOOL OF ENGINEERING
TEZPUR UNIVERSITY

By

BHARGAV GOGOI (ENE19027)



**UNDER SUPERVISION OF
Dr. VIKAS VERMA**

[Handwritten signature]
29/1/2021

**DEPARTMENT OF ENERGY
TEZPUR UNIVERSITY TEZPUR,
INDIA**

[Handwritten signature]

Head
Department of Energy
Tezpur University

JANUARY 2021

PROGRESS REPORT (Autumn Semester, 2020)

**ON
MASTER OF TECHNOLOGY
IN
ENERGY ENGINEERING**

**PROJECT TITLE :ANTIOXIDANTS FOR ENHANCEMENT OF
BIODIESEL STORAGE STABILITY**



**Submitted By
Khaleda Begum Gia ,M. TECH (ENE19025)
3rd Semester**

**Under the Guidance of
Professor Dhanapati Deka**

**DEPARTMENT OF ENERGY
SCHOOL OF ENGINEERING
TEZPUR UNIVERSITY
TEZPUR, INDIA**

*Forwarded
29/1/2021
Supurn*

[Signature]
Head
Department of Energy
Tezpur University

M.TECH PROGRESS REPORT

ON

**Production of biochar from different kinds of feedstock and their
characterisation (Part-I)**

MASTER OF TECHNOLOGY

IN

ENERGY TECHNOLOGY

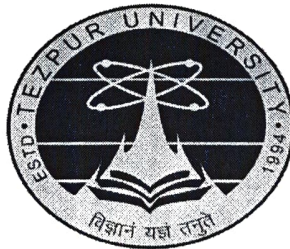
IN SCHOOL OF ENGINEERING

TEZPUR UNIVERSITY

BY

**SUDARSANA HAZARIKA, B.E POWER ELECTRONICS AND
INSTRUMENTATION ENGINEERING)**

REGISTRATION NO-ENE19012



*Supervised
29/01/2024*

DEPARTMENT OF ENERGY

TEZPUR UNIVERSITY

TEZPUR, INDIA

January 2020

41

Head
Department of Energy
Tezpur University

DESIGN AND SIMULATION OF MICRO HYDRO POWER GENERATOR

A Project Progress Report Submitted in Partial Fulfilment of the Requirements for the 3rd Semester of

MASTER OF TECHNOLOGY

IN

ENERGY TECHNOLOGY

IN THE SCHOOL OF ENGINEERING
TEZPUR UNIVERSITY

by

Gouranga Nath, B.Tech (Electrical Engineering)



DEPARTMENT OF ENERGY
TEZPUR UNIVERSITY
TEZPUR, INDIA

JANUARY 2021

Forwarded,
JGK
28/1/2021


Department of Energy
Tezpur University

**PERFORMANCE ANALYSES AND EVALUATION OF GRID
CONNECTED SOLAR PV SYTEM**

A PROGRESS REPORT SUBMITTED IN PARTIAL FULFILLMENT OF
THE REQUIREMENT FOR THE DEGREE OF

**MASTER OF TECHNOLOGY
IN
ENERGY TECHNOLOGY**

IN THE SCHOOL OF ENGINEERING
TEZPUR UNIVERSITY

By

ANOL GOGOI, B.E (Instrumentation Engineering)

ENE18002



NSA 29/1/2021

**UNDER SUPERVISION OF
DR. NABIN SARMAH**

**DEPARTMENT OF ENERGY
TEZPUR UNIVERSITY
TEZPUR, INDIA**

JANUARY 2021

**PHOTOVOLTAIC BASED ~~HYBRID~~ ELECTRIC VEHICLE
CHARGING STATION**

MASTER OF TECHNOLOGY

IN

ENERGY TECHNOLOGY

IN THE SCHOOL OF ENGINEERING

TEZPUR UNIVERSITY

Submitted by

RAHUL DAS BARUAH, BTECH (ELECTRICAL ENGINEERING)

UNDER THE GUIDANCE

OF

SADHAN MAHAPATRA, ASSOCIATE PROFESSOR, TEZPUR UNIVERSITY



*Forwarded
Jmaha
29-1-21*

DEPARTMENT OF ENERGY

TEZPUR UNIVERSITY

TEZPUR, ASSAM

JANUARY 2021

[Signature]
**Head
Department of Energy
Tezpur University**

**Department of Energy
Tezpur University
Project Progress Report**



Project Title


Development of control system for energy management of PV-Hydro hybrid renewable energy system through optimisation study

Submitted to

Dr. Nabin Sarmah
Assistant Professor
Department of Energy
Tezpur University
Assam-784028

Submitted by

Avik Ghosh
ENE19005
M.Tech Energy Technology
Department of Energy
Tezpur University
Assam-784028


29/1/24


**Head
Department of Energy
Tezpur University**

**DESIGN & DEVELOPMENT OF A DAIRY CATTLE EXCRETA FUELED
MICROBIAL FUEL CELL**

PROGRESS REPORT (PART -1) SUBMITTED IN THE PARTIAL
FULFILLMENT OF THE REQUIREMENT FOR THE DEGREE OF

MASTER OF TECHNOLOGY

IN

ENERGY TECHNOLOGY

IN THE SCHOOL OF ENGINEERING

TEZPUR UNIVERSITY

By

Rahul Sarma

ENE19004



**DEPARTMENT OF ENERGY
TEZPUR UNIVERSITY
TEZPUR, INDIA**

28th January, 2021

For approval
Rahul Sarma
28-01-2021

2/1

Head
Department of Energy
Tezpur University

**ON SITE ASSESSMENT OF SOLAR POTENTIAL IN RURAL
AREA**

MASTER OF TECHNOLOGY

IN

ENERGY TECHNOLOGY

IN THE SCHOOL OF ENGINEERING

TEZPUR UNIVERSITY

Submitted By

REINFRIDA M. BASHEKE, M. TECH (ENE19021)

UNDER THE GUIDANCE OF

PROFESSOR D.C. BARUAH, TEZPUR UNIVERSITY



DEPARTMENT OF ENERGY

TEZPUR UNIVERSITY

TEZPUR, INDIA

JANUARY 2021

Handwritten signature and date: 29/1/21

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**Head
Department of Energy
Tezpur University**

BIO-CLIMATIC CLASSIFICATION OF SRI LANKA

THESIS SUBMITTED IN THE PARTIAL FULFILLMENT OF THE
REQUIREMENT FOR THE DEGREE OF

MASTER OF TECHNOLOGY

IN

ENERGY TECHNOLOGY

IN THE SCHOOL OF ENGINEERING

TEZPUR UNIVERSITY

By

N Pravin Diliban

ENE19020



*Forwarded
Jmhep2
29-1-21*

**DEPARTMENT OF ENERGY
TEZPUR UNIVERSITY
TEZPUR, INDIA**

JANUARY 2021

[Signature]
Head
Department of Energy
Tezpur University

PROGRESS REPORT

On

Radiant Cooling System with Nano-fluid as Heat Transfer Medium

EN539: Project part – I

**MASTER OF TECHNOLOGY
IN
ENERGY TECHNOLOGY**

IN THE SCHOOL OF ENGINEERING
TEZPUR UNIVERSITY



Department of Energy

Tezpur University

Tezpur, India

Submitted by,
Arup Chandra Saha
ENE19006
M.Tech. (3rd semester)
Department of Energy
Tezpur University

Project Supervisor:
Dr. Vikas Verma
Assistant Professor
Department of Energy
Tezpur University

fw
Nabin Sankh

L/A
Head
Department of Energy
Tezpur University

**“OPTIMIZATION OF SOLAR INTEGRATED ELECTROLYZER SYSTEM FOR
HYDROGEN PRODUCTION USING TAGUCHI METHOD”**

PROGRESS REPORT SUBMITTED IN THE PARTIAL FULFILLMENT OF THE REQUIREMENT FOR
THE DEGREE OF

**MASTER OF TECHNOLOGY
IN
ENERGY TECHNOLOGY**

**IN THE SCHOOL OF ENGINEERING
TEZPUR UNIVERSITY**

By
**Sudipta Saikia
ENE19008**

(Under the able guidance of Dr. Vikas Verma, Assistant Professor, Department of Energy)



**DEPARTMENT OF ENERGY
TEZPUR UNIVERSITY
TEZPUR, INDIA**

29th JANUARY, 2021

For me
29/1/2021
(Nabin Sarmah)
Project Supervisor (i/c)
(For Dr. Vikas Verma)

U

Head
Department of Energy
Tezpur University

**Progress Report
On
Organic Nitrogen Application on Algal Growth for Biodiesel
Production**

**MASTER OF TECHNOLOGY
IN
ENERGY TECHNOLOGY
IN THE SCHOOL OF ENGINEERING
TEZPUR UNIVERSITY**

Submitted By

BIKRAM CHAKRABORTY, M. TECH (ENE19016)

UNDER THE GUIDANCE OF

DHANAPATI DEKA, PROFESSOR, TEZPUR UNIVERSITY



**DEPARTMENT OF ENERGY
TEZPUR UNIVERSITY
TEZPUR, INDIA
JANUARY 2021**

*Fanindra
29/1/2021
Supervisor*

[Signature]
Head
Department of Energy
Tezpur University



DEPARTMENT OF ENERGY, TEZPUR UNIVERSITY, NAPAAM-784028

PROGRESS REPORT

TOPIC: Battery-Supercapacitor Hybrid energy storage systems (HESS)
(UNDER THE ABLE GUIDANCE OF DR. Biraj Kumar Kakati)

EN 539 PROJECT (PART-I)

ForWARDED
Kakati
29-01-2021

NAME- Licha Mej

ROLL NO.-ENE19013

M.TECH 3RD SEMESTER, 2019-21

DEPARTMENT OF ENERGY

TEZPUR UNIVERSITY, NAPAAM, TEZPUR

SUBMISSION DATE: 29-01-2021

Head
Department of Energy
Tezpur University

**SIMULATION STUDY OF GRID CONNECTED
HYBRID ENERGY SYSTEM**

SUBMITTED IN PARTIAL FULFILLMENT OF THE
REQUIREMENT FOR THE DEGREE OF

**MASTER OF TECHNOLOGY
IN
ENERGY TECHNOLOGY**

IN THE SCHOOL OF ENGINEERING

TEZPUR UNIVERSITY

By

Ghritimanjari Deka, B.Tech (ECE)



DEPARTMENT OF ENERGY

TEZPUR UNIVERSITY

TEZPUR, INDIA

24
Head
Department of Energy
Tezpur University

*Forwarded.
Plus
27/11/2021*

PROGRESS REPORT

On

EFFECT OF ATMOSPHERIC PARAMETERS ON SOILING LOSS OF PV MODULES

EN539: Project (Part- I)

MASTER OF TECHNOLOGY IN ENERGY TECHNOLOGY

IN THE SCHOOL OF ENGINEERING
TEZPUR UNIVERSITY



DEPARTMENT OF ENERGY
TEZPUR UNIVERSITY
TEZPUR, INDIA

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29/1/2021

Submitted by:
Rabina Ahmed,
ENE19024,
3rd Semester, M.Tech,
Department of Energy,
Tezpur University

Project Supervisor:
Dr. Nabin Sarmah,
Assistant Professor,
Department of Energy,
Tezpur University

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Head
Department of Energy
Tezpur University

**Progress Report
On
Growth of *Chlorella vulgaris* & *Scenedesmus obliquus* on
waste water for treatment and biofuel production**

MASTER OF TECHNOLOGY

IN

ENERGY TECHNOLOGY

IN THE SCHOOL OF ENGINEERING

TEZPUR UNIVERSITY

Submitted By

ISFAKUR RASUL, M. TECH (ENE19023)

UNDER THE GUIDANCE OF

DHANAPATI DEKA, PROFESSOR, TEZPUR UNIVERSITY



DEPARTMENT OF ENERGY

TEZPUR UNIVERSITY

TEZPUR, INDIA

JANUARY 2021

*Forwarded
29/1/2021
Supervisor*

[Handwritten signature]

Head
Department of Energy
Tezpur University

**DESIGN AND DEVELOPMENT OF A SOLAR DRYER
BASED ON USER'S SURVEY**

MASTER OF TECHNOLOGY

IN

ENERGY TECHNOLOGY

IN THE SCHOOL OF ENGINEERING

TEZPUR UNIVERSITY

Submitted By

TARUNODOY DUTTA, M. TECH (ENE19026)

UNDER THE GUIDANCE OF

PROFESSOR D.C. BARUAH, TEZPUR UNIVERSITY



DEPARTMENT OF ENERGY

TEZPUR UNIVERSITY

TEZPUR, INDIA

JANUARY 2021

LLA
29/1/21

Head
Department of Energy
Tezpur University

PROJECT PROGRESS REPORT (AUG-JAN)
ON
**PERFORMANCE ENHANCEMENT OF PV SYSTEM UNDER
PARTIAL SHADING CONDITION USING AN IMPROVED
MPPT ALGORITHM**

SUBMITTED IN PARTIAL FULFILLMENT OF THE
REQUIREMENT FOR THE DEGREE OF

MASTER OF TECHNOLOGY

IN

ENERGY TECHNOLOGY

IN THE SCHOOL OF ENGINEERING

TEZPUR UNIVERSITY

By

Chandan Kumar Sah, B.Tech (ECE)



DEPARTMENT OF ENERGY

TEZPUR UNIVERSITY

TEZPUR, INDIA

Forwarded
J. Mukherjee
29-01-21

Head
Department of Energy
Tezpur University

**SYNTHESIS OF HETERO ATOM DOPED CATALYST FOR LOW
TEMPERATURE FUEL CELLS**

PROGRESS REPORT (PART -1) SUBMITTED IN THE PARTIAL FULFILLMENT OF THE
REQUIREMENT FOR THE DEGREE OF

MASTER OF TECHNOLOGY

IN

ENERGY TECHNOLOGY

IN THE SCHOOL OF ENGINEERING TEZPUR UNIVERSITY

BY

ABHINOVA TAMULY

ENE19022



DEPARTMENT OF ENERGY

TEZPUR UNIVERSITY TEZPUR

INDIA

29th January, 2021

Abhinova Tamuly
29-01-2021