A

MAJOR PROJECT REPORT

ON

"ENERGY AUDIT, GREEN AND ENVIRONMENT SURVEY OF KHARGONE GOVT. COLLEGE"



Submitted in the partial fulfillment of the award of Degree of

MASTER OF TECHNOLOGY

IN

ENERGY MANAGEMENT

2020-2022

SUBMITTED BY

ABHISHEK MONDAL (20EN7A436)

Guided by

Dr. R.N. Singh

Professor and HOD

Department of SEES

DAVV, Indore (M.P)

Co - Guided By

Mr. Rambabu Raghuwanshi

Technical Director

SABS Energy Enviro Pvt. Ltd.

90/2 Abhinav Nagar, Teen Emali Square,

Behind Vishesh Hospital, Indore, M.P.

SCHOOL OF ENERGY & ENVIRONMENTAL STUDIES DEVI AHILYA VISHWAVIDYALAYA, INODRE (M.P)-452001

JUNE 2020-22

CERTIFICATE

This is to certify that the Work in this thesis entitled "ENERGY AUDIT, GREEN AND ENVIRONMENT SURVEY OF KHARGONE GOVT. COLLEGE" submitted by Abhishek Mondal in the partial fulfillment of the award of the degreeof Master of Technology (Energy Management), session (2020-2022), from Devi Ahilya Vishwavidyalaya, Indore. He has completed this thesis successfully and full filled all requirements.

Place-Indore

Date-

Dr. R.N. Singh

Professor and HOD

Department of SEES

DAVV, Indore (M.P)

GST No: 23ABDCS0344N1ZD

Date- 25/06/2022

TO WHOM IT MAY CONCERN

This is to certify that Mr. Abhishek Mondal, a student of School of Energy & Environmental Studies, Indore (DAVV) has successfully completed 5 months (From the date of 31st Jan 2022 to 20th June 2022) of internship program at SABS Energy Enviro Pvt. Ltd.

He has successfully completed internship on the topic "Energy Audit, Green and Environment Audit Survey" under the guidance of Mr. Rambabu Raghuwanshi- Technical Director. During the period of his internship program with us, he was found punctual, hardworking and inquisitive.

We hereby certify his work satisfactory to the best of our knowledge.

We wish him every success in career & life.

For- SABS Energy Enviro Pvt. Ltd.

MR. SANJAY SINCH

EA-1462 Director

Certified Energy Auditor

BEE

SABS ENERGY ENVIRO PVT. LTD. www.sabs-india.com

A MAJOR PROJECT ON

"On-grid roof top solar photovoltaic Power plant at Jaipur"



Submitted in partial fulfilment of requirement for award of the degree of

MASTERS OF TECHNOLOGY IN ENERGY MANAGEMENT

SUBMITTED BY

ABHISHEK NAMDEO (20EN7A452)

GUIDED BY

DR. R.N. SINGH (Professor and Head, SEES) CO-GUIDED BY

HARSHIT RAJPUROHIT (Head, S.R. Sunpower Pvt. Ltd.)

SCHOOL OF ENERGY & ENVIRONMENTAL STUDIES
DEVI AHILYA VISHWA VIDYALAYA,
INDORE - 452001 (M.P.), INDIA
(2020-2022)

1 | Page

CERTIFICATE

I hereby declare that the project work entitled "On-grid roof top solar photovoltaic Power plant at Jaipur" submitted to the SEES, DAVV, is a record of an original work done by me under the guidance of Dr. R.N. Singh, Professor & Head, School of Energy and Environmental Studies, DAVV, Indore, co-guidance of Harshit Rajpurohit, Director, S.R. Sunpower Pvt Ltd, Jaipur, Rajasthan. This project work is submitted in the partial fulfilment of the requirements for the award of the degree of Master of Technology in Energy Management. The results reported by Abhishek Namdeo (20EN7A452) is genuine and the script of this thesis has been written by the candidate. The thesis is therefore being recommended for acceptance.

Date:	_	_	_							
			_	_	_	_	-	_	_	

ABHISHEK NAMDEO

(20EN7A452)

S.R. Sunpower Pvt Ltd



Letter No.: SR/JP/2022/06-1

Date:20/06/2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Abhishek Namdeo, student of Master of Technology (Energy Management) (20EN7A452) of SEES DAVV, Indore, Madhya Pradesh has undergone "Internship Training" in the S.R. Sunpower Private Limited, Jaipur for a period from 10th January 2022 to 20th June 2022 and has developed Project Design Document on "4Kw On-Grid Solar PV plant in Jaipur (Rajasthan)".

During his internship tenure, we found him to be sincere and hardworking. We wish him for an exquisite career and future eminence.

Siyag Rajpurohit Sunpower Pyt-Ltd.

Address: 504, Bigbenn Okey Plus, Swej Farm Circle Jaipur Rajasthan-302019

Website: www.srsunpowerpvtltd.com

Email:srsunsolar@gmail.com

Phone: 7300101600, 9166668991

Major Project Report On

Developing HYDRO-METEOROLOGICAL RESILIENCE ACTION PLANS (HMRAP) in Selected Urban Areas in India



Submitted in the partial fulfillment for the award of degree of

MASTER OF TECHNOLOGY

IN

ENERGY MANAGEMENT

2020-2022

SUBMITTED BY

AADITYA SHARMA

Guided By:

Dr. Rubina Chaudhary

Professor

School of Energy and Environmental

Studies

Devi Ahiliya Vishwavidyalaya

Indore

Co-Guided By:

Mr Raman Kumar

Director Projects waters

Royal Haskoning DHV

Noida

JUNE 2022

SCHOOL OF ENERGY AND ENVIRONMENTAL STUDIES **DEVI AHILIYA VISHWAVIDYALAYA** INDORE (M.P)-452017



This is to Certify that the work in this project entitled "Developing HYDRO-METEOROLOGICAL RESILIENCE ACTION PLANS in Selected Urban Areas in India" is a bonafide work carried out by Aaditya Sharma (20EN7A437) in partial fulfillment of the requirements of the prescribed curriculum for Masters of Technology in Energy Management, session 2020-2022, in School of Energy and Environmental Studies, DAVV, Indore. It is an authentic work carried out by his under my supervision and guidance to the best of my knowledge.

Dr. Rubina Chaudhary
Professor 27.06.22



Date: June 13, 2022

HASKONINGDHY CONSULTING PYT. LTD.

Green Boulevard, Tower - B Fourth floor, Plot No. B - 9A, Sector - 62

Noida 201301, India

+91 (0) 120 4016100 Telephone

+91 (0) 120 4260165 Fax

info.india@rhdhv.com E-mail

www.royalhaskoningdhy.com Internet

To Whomsoever It May Concern

This is to certify that Mr. Aaditya Sharma student of M. Tech. - School of Energy and Environmental studies (DAVV), Indore has undergone an internship with HaskoningDHV Consulting Pvt Ltd, In our Advisory Group - Water Technology & Resilience, India from Jan 10, 2022 to June 13, 2022.

During his internship period, he got working exposure for submission of technical deliverables for the consultancy contract on the Project "Consultancy Services for Developing Hydrometeorological Resilient Action Plans (HmRAP) in Selected Urban Areas in India" between Project Management Unit, NDMA of the National Cyclone Risk Mitigation Project II (NCRMP-II) and Haskoning DHV Consulting Pvt. Ltd.

Objective of the project is to develop Hydro-meteorological Resilient Action Plans (HmRAP) both for existing challenges and arising from future change in urban scenario and climate, based on an internationally recommended and nationally adaptable framework for understanding and improving urban resilience, for six selected coastal cities.

During his internship period, we found him to be hardworking and sincere. We wish him success for his future.

For HaskoningDHV Consulting Private Limited A Company of Royal HaskoningDHV

Saloni Sharma

Country Manager-HR, India

HaskoningDHV Consulting Pvt. Ltd.

Registered office: Office No. 204, 2nd Floor, RS Tower, Plot No. B 358A,

New No. 1267, New Ashok Nagar, Delhi - 110096

CIN: U93000DL1997PTC089958



SCHOOL OF ENERGY & ENVIRONMENTAL STUDIES DEVI AHILYA VISHWAVIDYALAYA INDORE (M.P)-452001



A MAJOR PROJECT

ON

"Greenhouse gas reduction from improved agricultural land management"

Submitted in the Partial Fulfilment of the award of Degree of

MASTER OF TECHNOLOGY

IN

ENERGY MANAGEMENT

2020-22 SUBMITTED BY Apoorva Singh (20EN7A438)

Supervisor

Dr. R.N. Sigh (Professor and Head) SEES, DAVV, Indore Co-Supervisor

Dr. Mohammad Moonis (Senior Manager Operations) EKI Energy Services Ltd.

SCHOOL OF ENERGY & ENVIRONMENTAL STUDIES DAVV, INDORE



CERTIFICATE

This is to certify that Major Project "Greenhouse gas reduction from improved agricultural land management" is being submitted by Ms. Apoorva Singh for the partial fulfilment of the Award of the Degree of Master of Technology (Energy Management), Devi Ahilya Vishwavidyalaya Indore. She has completed this Major Project successfully under my guidance and fulfilled all requirements.

Dr. R.N. SINGH

(Professor & Head)

SEES, DAVV

Indore

Date:



EXI Energy Services Limited 4 +91 (0) 731 42 89 086

businessidenkingint.org

businessidenkingint.org

Ref: EKI_SI/April/2022

Date: 20/04/2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Apoorva Singh student of Mtech (Energy Management), in DAVV Indore, has successfully completed 3 Months (from 20 January 2022 to 20 April 2022) internship in Operation NBS Department at EKI Energy Services Limited, Indore.

She has worked on a project titled "Sustainable Agriculture Land Management by Amiha Agro Pvt. Ltd.(VCS Verra Project)". During her internship, she has demonstrated her skills with self-motivation to learn new skills also her conduct was good. Her performance exceeded our expectations and she was able to complete the project on time.

We wish her all the best for future Endeavors!! For EKI Energy Services Limited

Authorized Signatory Sonali Shaikh, Director & CFO (HR & Admin)

Regd. Office - Enking Embassy.
Plot 48, Scheme 78 Part 2, Vijay Nagar,
Indore-452010, Madhya Pradesh, India
Corp. Office - 903, B-1 9th Floor, NRK Business Park,
Scheme 54, Indore - 452010, Madhya Pradesh, India

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SCHOOL OF ENERGY & ENVIRONMENTAL STUDIES DEVI AHILYA VISHWAVIDYALAYA INDORE (M.P)-452001



A MAJOR PROJECT ON

"Designing, installation, technical analysis & performance evaluation of solar PV power plant"

Submitted in the Partial Fulfillment of the award of Degree of

MASTER OF TECHNOLOGY IN ENERGY MANAGEMENT

> 2020-22 SUBMITTED BY Ashish Kumar Choubey (20EN7A439)

Supervisor

Dr. Rubina Chaudhary

Professor

SEES, DAVV Indore

Co-Supervisor

Mr. Piyush Patidar

Assistant General Manager

Shakti Pump India Ltd., Pithampur

SCHOOL OF ENERGY AND ENVIRONMENTAL STUDIES

Devi Ahilya Vishwavidyalaya, Indore (M.P.) – 452017



CERTIFICATE

This is to certify that the work in this thesis entitled "Designing, Installation, Technical analysis & Performance Evaluation of Solar PV Power Plant" submitted by Ashish Kumar Choubey (20EN7A439) in the partial fulfillment of the requirements of the prescribed urriculum for the Master of Technology in Energy Management, Session 2020-2022, in School of Energy and Environmental Studies, DAVV, Indore. The work was carried out by andidate under our guidance.

Dr. Rubina Chaudhary

Supervisor

Professor

SEES, DAVV, Indore

Date:

Place: Indore



SPIL/HR/30130008/E2/1567

Date-15.06.2022

MAJOR PROJECT COMPLETION CERTIFICATE

TO WHOM IT MAY CONCERN

This is to certify that Mr. Ashish Choubey student of M.Tech. (Energy Management), School of Energy and Environmental Studies, DAVV Indore (MP) has successfully completed major Project on "Designing, Installation, Technical Analysis & Performance Evaluation of solar PV Power Plant".

This internship/ Major project work was scheduled from 04.01.2022 to 06.05.2022. During this period, he was assigned the study of various aspects of solar Photovoltaic system design, analysis.

We wish him all the success in his future endeavours.

For Shakti pumps (India) Ltd

Mr. Pratik Dhirendrakumar Patel

DGM - HR & Admin Department

15/06/2022

Mr. Piyush Patidar

AGM Solar (Training Mentor)

SHAKTI PUMPS (INDIA) LIMITED

MAJOR PROJECT REPORT

ON



THE ENVIROMENTAL AUDIT IN INDUSTRIAL AREA /ESTATE MUZAFFARPUR BIHAR

Submitted in the partial fulfillment of the award of Degree of

MASTER OF TECHNOLOGY

IN

ENERGY MANAGEMENT

2020-22

SUBMITTED BY AVINASH KUMAR

Supervisor

Dr. Rubina Choudhary

Professor

EES, DAVV, Indore

Co-Supervisor
Mr. K. K. Sinha
Director
ENVIRONMENTAL ENGINEERING
& CONSULTANCY SERVICES
GHAZIABAD-201012 (U.P.)

SCHOOL OF ENERGY & ENVIRONMENTAL STUDIES

(FACULTY OF ENGINEERING SCIENCES)

DEVI AHILYA VISHWAVIDYALAYA, INDORE (M.P.)-452017

SCHOOL OF ENERGY AND ENVIRONMENTAL STUDIES

Devi Ahilya Vishwavidyalaya, Indore (M.P.) - 452017



CERTIFICATE

This is to certify that the work in this thesis entitled THE ENVIROMENTAL AUDIT IN INDUSTRIAL AREA /ESTATE MUZAFFARPUR BIHAR submitted by Avinash Kumar (20EN7A440) in the partial fulfillment of the requirements of the prescribed curriculum for Master of Technology in Energy Management, Session 2020-2022, in School of Energy and Environmental Studies, DAVV, Indore. The work carried out by candidate under our guidance's.

Dr. Rubina Choudhary

Professor

SEES, DAVV, Indore

Date:

Place: Indore

Environmental Engineering & Consultancy Services

Date: June 27th, 2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Avinash Kumar student of M.Tech. (Energy Management) during the session 2020–22 from School of Energy & Environmental Studies (Faculty of Engineering Sciences), Devi Ahilya Vishwavidyalaya, Indore (MP)-452017 has undergone an internship with Environmental Engineering & Consultancy Services from January 10th, 2022 to June 25th, 2022.

During his internship period, he worked with the expert team for conduction of Environmental Audit work in the Industrial Area/Estate of Bela Muzaffarpur, Bihar under the GIZ project for the capacity development of officials of Bihar State Pollution Control Board.

The objective of the project is to minimization of solid & liquid wastes as well as reduction in energy consumption and to meet the Environmental Compliances stipulated by the Bihar State Pollution Control Board.

During his internship period, we found him to be hardworking and sincere. He developed good relationship with the member units of the industrial area and able to get the data & information. He developed skill in conducting process study, quantification & characterization of wastes, development of measures to prevent & control of the pollution.

We wish him success for his bright career.

Krishma Humar Sinho.

(Dr Krishna Kumar Sinha) Director.

> Office Address: 17-B/515, Vasundhara, Ghaziabad, U.P. 201 012 Mob.: 9910993075, 9868946075, E-mail: kks.eecs@gmail.com

BUILDING DAYLIGHT PERFORMANCE SIMULATION AND FEASIBILITY STUDY FOR GREEN BUILDING COMPLIANCE

A MAJOR PROJECT REPORT

Submitted by
ALI ASGAR AKKADWALA
(20EN7A450)

Under the guidance of Dr. R N SINGH

of

MASTER OF TECHNOLOGY
IN
ENERGY MANAGEMENT



A

SCHOOL OF ENERGY & ENVIRONMENTAL STUDIES, DEVIAHILYA VISHWAVIDYALAYA, INODRE (M.P)-452001

JUNE 2022



SCHOOL OF ENERGY & ENVIRONMENTAL STUDIES, DEVIAHILYA VISHWAVIDYALAYA, INODRE (M.P)-452001

JUNE 2022

I hereby declare that this Major Project report entitled "BUILIDNG DAYLIGHT PERFORMANCE SIMULATION AND FEASIBILITY STUDY FOR GREEN BUILDING COMPLIANCE" is compilation of Major Project report under the overall guidance of Dr. R N SINGH (Professor & Head) Department of Energy and Environmental Studies, DAVV, Indore (M.P.).

I further declare that this is my own work, which is framed with the help of journals, research papers, books, and mentor's experience and cognizance.

ALI ASGAR AKKADWALA

M.Tech-(Energy Management),

Semester - IV

20E7A450

SEES, DAVV

CERTIFICATE



SCHOOL OF ENERGY & ENVIRONMENTAL STUDIES DEVI AHILYAVISHWAVIDYALAYA, INODRE (M.P)-452001

JUNE 2022

This is to certify that the project entitled "BUILIDNG DAYLIGHT PERFORMANCE SIMULATION AND FEASIILITY STUDY FOR GREEN BUILDING COMPLIANCE" is being submitted by ALI ASGAR AKKADWALA for the partial fulfilment of the award of the degree of Master of Technology (Energy Management) from Devi Ahilya Vishwavidyalaya, Indore. He has completed this project successfully under my guidance and full filled all requirements.

Place-

Indore Date-

20/06/2022

Dr. R N SINGH

Professor & Head

Department of

SEES, DAVV,

Indore (M.P)

A MAJOR PROJECT REPORT

ON

DESIGNING, INSTALLATION AND TECHNICAL ANALYSIS OF GRID-CONNECTED 140KWP SOLAR ROOF-TOP SOLAR PHOTOVOLTAIC SYSTEM



Submitted in the partial fulfillment of the award of Degree of

MASTER OF TECHNOLOGY

IN

ENERGY MANAGEMENT

2020-2022

SUBMITTED BY

DARSHAN KUMAR SHARMA

Guided by
Dr. R. N. Singh
Professor & Head
SEES, DAVV, Indore

Co-Guided by
Mr. Piyush Patidar
Asst. General Manager-Solar
Shakti Pumps India Ltd.

SCHOOL OF ENERGY & ENVIRONMENTAL STUDIES

DEVI AHILYA VISHWAVIDYALAYA, INDORE (M.P.)-452001

JUNE 2022

1

SCHOOL OF ENERGY & ENVIRONMENTAL STUDIES DEVI AHILYA VISHWAVIDYALAYA, INDORE (M.P.)-452001 JUNE 2022



CERTIFICATE

This is to certify that the work in this thesis entitled "Designing, Installation and Technical Analysis of Grid-Connected 140.0kWp Solar Roof Top" submitted by Darshan Kumar Sharma (20EN7A441) in the partial fulfillment of the requirements of the prescribed curriculum for Master of Technology in Energy Management, Session 2020-2022, in School of Energy and Environmental Studies, DAVV, Indore. The work carried out by candidate under our guidance's.

Place-Indore

Date-

Dr. R. N. SINGH 6-22

Professor & Head

SEES, DAVV, Indore (M.P.)

3



SPIL/HR/30130007/E2/1566

Date-15.06.2022

MAJOR PROJECT COMPLETION CERTIFICATE

TO WHOM IT MAY CONCERN

This is to certify that Mr. Darshan Kumar Sharma student of M.Tech. (Energy Management), School of Energy and Environmental Studies, DAVV Indore (MP) has successfully completed major Project on "Designing, Installation, Technical Analysis & Performance Evaluation of solar PV Power Plant".

This internship/ Major project work was scheduled from **04.01.2022** to **07.06.2022**. During this period, he was assigned the study of various aspects of solar Photovoltaic system design, analysis. He has also contributed to Shadow analysis work for various under-development SPV Module Mounting Structures including fixed as well as Auto-tracker based.

We wish him all the success in his future endeavours.

For, Shakti pumps (India) Ltd

Mr. Pratik Dhirendrakumar Patel

DGM - HR & Admin Department

15/6/2022

Mr. Piyush Patidar

AGM –Solar (Training Mentor)

SHAKTI PUMPS (INDIA) LIMITED

A MAJOR PROJECT REPORT ON

"TO DESIGN AND INSTALLATION OF INDUSTRIAL STP & ETP"



Submitted in the partial fulfillment of the award of Degree of

IN
ENERGY MANAGEMENT
2020-2022
SUBMITTED BY
DEEPANKR SINGH

Guided By
Dr. Rubina Chaudhary
Professor
Department of SEE
DAVV, Indore (M.P)

Co – Guided By
Mr. Pradeep Nimonkar
Chief Operating Officer
Pristine Environmental Associates
Pvt. Ltd.
Indore, M.P.

SCHOOL OF ENERGY & ENVIRONMENTAL STUDIES

DEVI AHILYA VISHWAVIDYALAYA, INODRE (M.P)-452001

JUNE 2022

SCHOOL OF ENERGY & ENVIRONMENTAL STUDIES DEVI AHILYA VISHWAVIDYALAYA, INODRE (M.P)-452001 JUNE 2022



CERTIFICATE

This is to certify that the Work in this thesis entitled "To Design and Installation of Industrial STP & ETP" submitted by Deepanker Singh in the partial fulfillment of the award of the degree of Master of Technology (Energy Management), session (2020-2022), from Devi Ahilya Vishwavidyalaya, Indore. He has completed this thesis successfully and full filled all requirements.

Place- Indore
Date- 27/6/2022

Dr. RUBINA CHAUDHARY

Professor

Department of SEES

DAVV, Indore (M.P)



Office:

57-A, Sanchar Nagar Ext., Alok Nagar Road, Opposite SBI Bank, Indore - 452 016 (M.P.) D: +91-7999539958

Regd. Add.: 64-B, Shrikant Palace, Kanadia Road, Indore - 452 016 (M.P.)

E-mall:

Info@ehsconsultantsgroup.org

Date:-22.06.2022

TO WHOM IT MAY CONCERN

This is to certify that Mr. Deepanker Singh, a Student of School of Energy & Environmental Studies Indore(DAVV)has successfully completed 5 Month (From the date of 14th Jan 2022 to 14th June 2022) of internship program at Pristine Environmental Associates Pvt Ltd.

He has successfully completed internship on the topic "Compliance Management & Waste Water Management (Design & Installation)" under the guidance of Mr Pradeep Nimonkar- COO. During the period of his internship program with us, he was found punctual, hardworking and inquisitive.

We hereby certify his work satisfactory to the best of our knowledge.

We wish him every success in Career & life.

HR Department

ne Environmental Associates Pvt Ltd

"CONDITION BASED MONITORING & MANTAINANCE OF POWER SUPPLY INSTALLATION OF INDIAN RAILWAY"

MAJOR PROJECT

SUBMITTED TO SCHOOL OF ENERGY & ENVIRONMENTAL STUDIES TOWARDS PARTIAL FULFILMENT OF THE DEGREE OF

MASTER OF TECHNOLOGY

(ENERGY MANAGEMENT) 2020-22



SUBMITTED TO DR. R. N. SINGH

SUBMITTED BY
HEMANT PAREEK(20EN7A 444)

SUPERVISED BY
MR. MAHENDRA SAMOTA
(PROJECT MANAGER AT EN. EN. ELECTRICALS PVT LTD)

School of Energy & Environmental Studies

Devi Ahilya Vishwavidyalaya, Takshashila Campus, Khandwa

Road, Indore-452 001(M.P)

Session 2020-22

CERTIFICATE



This is to certify that Major Project "Condition Based Monitoring & Maintenance Of Power Supply Installation Of Indian Railway" is being submitted by Mr. Hemant Pareek for the partial fulfilment of the Award of the Degree of Master of Technology in Energy Management, School of Energy and environmental studies, Devi Ahilya Vishwa Vidyalaya, Indore. He has completed this Major Project successfully under my guidance and full filled all requirements.

Dr. R. N. Singh

School of Energy and Environmental Studies,

Devi Ahilya Vishwa Vidyalaya, Indore

Date: 24/06/2022



EN EN ELECTRICAL ENGINEERS (P) Ltd.

(ELECTRICAL & CIVILCONTRACTORS CIN: U31100AP1997PTC026106

REF: NN/ATP/2022-23/108

Date: 15.06.2022

TO WHOMSOEVRR IT MAY CONCERN

INTERNSHIP COMPLETION CERTIFICATE

IT IS TO CERTIFY THAT MR. HEMANT PAREEK, HAS SUCCESSFULLY COMPLETED HIS INTERNSHIP FROM EN EN ELECTRICAL ENGINEERS PVT LTD (ANANTPUR) FROM 07/01/2022 TO 15/06/2022.

WE FOUND HIM SINCERE, HARDWORKING & OBEIDENT. HE WORKED AS **TESTING ENGINEER** DURING HIS TENURE. WE WISH HIM BEST FOR HIS FUTURE ENDUVERE.

FOR EN EN ELECTRICAL ENGINEERS (P) LTD.,

ANANTAPUR S

MANAGING DIRECTOR.

11-1-474-1, ARAVIND NAGAR, ANANTHAPURAMU - 515001 Mail: enenelectricalbhopal@gmail.com.

MAJOR PROJECT REPORT

ON



Project Management of Energy Efficiency Intervention in Bihar Cluster by SIDBI

Submitted in the partial fulfillment of the award of Degree of

MASTER OF TECHNOLOGY

IN

ENERGY MANAGEMENT

2020-22

SUBMITTED BY

HRISHABH MISHRA

Supervisor

Dr. R.N. Singh

Head of Department

ol of Energy & Environmental Studies

DAVV, Indore

Co-Supervisor

Mr. Rajiv Kumar

General Manager

Green Climate and Energy Efficiency Centre

Small Industries Development Bank of India., Delhi

SCHOOL OF ENERGY & ENVIRONMENTAL STUDIES (FACULTY OF ENGINEERING SCIENCES)

DEVI AHILYA VISHWAVIDYALAYA, INDORE (M.P.)-452017

SCHOOL OF ENERGY AND ENVIRONMENTAL STUDIES

Devi Ahilya Vishwavidyalaya, Indore (M.P.) – 452017



CERTIFICATE

This is to certify that the work in this thesis entitled "Project Management of Project Management of Energy Efficiency Intervention in Bihar Cluster by SIDBI" submitted by Hrishabh Mishra (20EN7A445) in the partial fulfilment of the requirements of the prescribed curriculum for Master of Technology in Energy Management, Session 2020-2022, in School of Energy and Environmental Studies, DAVV, Indore. The work carried out by candidate under our guidance's.

ate:

lace: Indore

Dr. R.N. Singfi

Head of Department

SEES, DAVV, Indore



Reference No - L00226 9823

Date: June 27th, 2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Hrishabh Mishra, student of M.Tech (Energy Management) during the session 2020-22 from School of Energy & Environmental Studies (Faculty of Engineering Sciences), Devi Ahilya Vishwavidyalaya, Indore (MP)-452017 has undergone an internship with Green Climate & Energy Efficiency Centre, SIDBI from February 22, 2022 to June 30, 2022 and will continue till August 20, 2022.

During his internship period, he is working on some of the SIDBI's projects including Energy Efficiency intervention in Bihar clusters, End to End Energy Efficiency (4E) Scheme, Green Financing Scheme and some other projects. The candidate is working on technical and administrative aspects of these projects.

During his internship period, we found him to be hardworking and sincere, he developed good relationship with the team. We wish him success for his bright career.

Yours Faithfully,

Dajiohum (Rajiv Kumar)

General Manger



बैंक हिन्दी में पत्राचार का स्वागत करता है। भारतीय लघ उद्योग विकास बैंक

नई दिल्ली कार्यालय, दसवाँ तल, आत्मा राम हाउस, 1 टॉलस्टॉय मार्ग, नई दिल्ली-110 001. दूरभाष: 011 23448300

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Osidbiofficial

A MAJOR PROJECT ON

"Sustainable Agricultural Improvement Practices and Carbon Credit Development"



Submitted in partial fulfilment of requirement for award of the degree of

MASTERS OF TECHNOLOGY IN ENERGY MANAGEMENT

SUBMITTED BY HIMANSHU SACHAN (20EN7A453)

GUIDED BY DR. R.N. SINGH (Professor and Head, SEES) CO-GUIDED BY ABHISHEK KUMAR SHRIVASTAVA (Head, ENEN Green Pvt. Ltd.)

SCHOOL OF ENERGY & ENVIRONMENTAL STUDIES

DEVI AHILYA VISHWA VIDYALAYA,

INDORE - 452001 (M.P.), INDIA

(2020-2022)

CERTIFICATE

I hereby declare that the project work entitled "Sustainable Agricultural Improvement Practices and Carbon Credit Development" submitted to the SEES, DAVV, is a record of an original work done by HIMANSHU SACHAN under the guidance of Dr. R.N. Singh, Professor & Head, School of Energy and Environmental Studies, DAVV, Indore, co-guidance of Abhishek Kumar, Head, ENEN Green Services Pvt Ltd, Faridabad, Haryana. This project work is submitted in the partial fulfilment of the requirements for the award of the degree of Master of Technology in Energy Management. The results reported by Himanshu Sachan (20EN7A453) is genuine and the script of this thesis has been written by the candidate. The thesis is therefore being recommended for acceptance.

Date: -----

Dr. R. N. Singh 29, 6, 22

HOD & Professor

(Advisor)

School of Energy & Environmental Studies



ENEN Green Services Private Limited

Letter No.: ENEN/LT/2022/06-1

Date: 20/06/2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Himanshu Sachan, student of Master of Technology (Energy Management) (20EN7A453) of SEES DAVV, Indore, Madhya Pradesh has undergone "Internship Training" in the ENEN Green Service Private Limited, New Delhi for a period from 10th January 2022 to 20th June 2022 and has developed Project Design Document on "Sustainable Agricultural Improvement Practices in Punjab".

During his internship tenure, we found him to be sincere and hardworking.

We wish him for an exquisite career and future eminence.

Pulak Mishra

Head of Operations

Address: B1/H3, Mohan Co-Operative, Mathura Rd, Industrial Area, Block B, New Delhi – 110044
Website: www.enengspl.com Email: Info@enengspl.com Phone: +91-9711348300

A Major Project Report On

Detailed Analysis of 50 kW (AC) Solar PV Power Plant for J College of Pharmacy and Research, Palgarh At Maharashtra



Submitted in the partial fulfillment of the Award of Degree of

Master of Technology

In

Energy Management

Batch 2020-2022

Submitted By

Priyanka Panda

Guided By
Dr. Rubina Chaudhary
Professor
SEES DAVV Indore

Co-Guided By Er. Shraddha Chauhan Senior Technical Engineer Solar Secure Solutions Limited Kanpur, U.P.

School of Energy & Environmental Studies

Devi Ahilya Vishwavidyalaya, Indore

(M.P.) – 452017 June - 2022

SCHOOL OF ENERGY AND ENVIRONMENTAL STUDIES DEVI AHILYA VISHWAVIDYALAYA, INDORE (M.P.)-452017



CERTIFICATE

This is to certify that the work in this project entitled "Detailed Analysis of 50 kW (AC) Solar PV Power Plant for J College of Pharmacy and Research, Palgarh at Maharashtra" submitted by PRIYANKA PANDA (20EN7A447) in partial fulfilment of the requirements of the prescribed curriculum for Master of Technology in Energy Management, Session 2020 -2022, in School of Energy and Environmental Studies, DAVV, Indore. The work was carried out by candidate under our guidance.

Date 27.06.22

Place: Indore

Dr. Rubina Chaudhary Professor

SEES, D.A.V.V. Indore

27.06.2022



Certified Solar Solutions

WORK FROM HOME SOLAR INTERNSHIP CERTIFICATE OF COMPLETION

This is to certify that

Priyanka Panda

candidate has successfully completed all the tasks given to him/her. His/Her performance has has completed his/her internship of 06 Months from Dec 27th ,2021 to June 17th,2022. The been marked satisfactory during the internship perigg

Ayeng

Authorised signatory
Ashish Singh
Proprietor (SelarSecure),
Certified assessof SEGJ(Govt. of India)

SOLAR-SECURE
MSME (Govt of India)
Registration No.
UAN: UDYAM-UP-43-0012205

Major Project Report On Market Based Climate Change Mitigation: Renewable Energy



Submitted in the partial fulfillment for the award of degree of

MASTER OF TECHNOLOGY

IN

ENERGY MANAGEMENT

2020-2022

SUBMITTED BY

VIBHA RAMESH

Guided By: Dr. Rubina Chaudhary Professor School of Energy and Environmental Studies Devi Ahiliya Vishwavidyalaya Indore

Co-Guided By: Mr. Saroj Sahoo Deputy General Manager Operations, Climate Change EKI Energy Services Ltd. Indore

SCHOOL OF ENERGY AND ENVIRONMENTAL STUDIES

(FACULTY OF ENGINEERING SCIENCES)

DEVI AHILIYA VISHWAVIDYALAYA, INDORE (M.P)

JUNE 2022

SCHOOL OF ENERGY AND ENVIRONMENTAL STUDIES DEVI AHILIYA VISHWAVIDYALAYA INDORE (M.P)-452017



CERTIFICATE

This is to Certify that the work in this project entitled "Market Based Climate Change Mitigation Through Renewable Energy Projects" is a bonafide work carried out by Vibha Ramesh(20EN7A448)in partial fulfilment of the requirements of the prescribed curriculum for Masters of Technology in Energy Management, session 2020-2022, in School of Energy and Environmental Studies, DAVV, Indore. It is an authentic work carried out by her under my supervision and guidance to the best of my knowledge.

Dr. Rubina Chaudhary
Professor 27.06.22



EKI Energy Services Limited

1. 191 (0) 731 42 89 086

2. business@enkingint.org

3. www.enkingint.org

Ref: EKI_SI/June/2022

Date: 10/06/2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Vibha Ramesh student of MTech (Energy Management), School of Energy And Environmental Studies Indore, has successfully completed 5 Months (from 10 Jan 2022 to 10 June 2022) internship in Operation Climate Change at EKI Energy Services Limited, Indore.

She has worked on a project titled "Basic Understanding & Implementation on Market Based Climate Change Mitigation through Renewable Energy Projects". During her internship, she has demonstrated her skills with self-motivation to learn new skills also her conduct was good. Her performance exceeded our expectations and she was able to complete the project on time.

We wish her all the best for future Endeavours!!

For EKLEmergy Services Limited

Director & CFO (HR & Admin)

Regd. Office - Enking Embassy,
Plot 48, Scheme 78 Part 2, Vijay Nagar,
Indore-452010, Madhya Pradesh, India
Corp. Office - 903, B-1 9th Floor, NRK Business Park,
Scheme 54, Indare - 452010, Madhya Pradesh, India

An ISO 9001: 2015 certified organisation CIN - L74200MP2011PLC025904 GSTIN - 23AACCE6986E1ZL UAM (MoMSME) - MP-23-0014187

Enking International (A carbon neutral company

A Major Project Report On

"Detailed Energy Audit at Chemical Industry"



Submitted in the partial fulfillment for the award of the degree of

MASTER OF TECHNOLOGY IN ENERGY MANAGEMENT (2020-2022)

SUBMITTED BY
VRITTANSH SRIVASTAVA

Guided By, Dr. Rubina Chaudhary, Professor, SEES DAVV, Indore, M.P.

Co-Guided By,
Paraman Radhakrishnan,
Director,
Devki Energy Consultancy Pvt. Ltd.,
Vadodara, Gujarat

SCHOOL OF ENERGY & ENVIRONMENTAL STUDIES
(FACULTY OF ENGINEERING SCIENCE)
DEVI AHILYA VISHWAVIDYALAYA,
INDORE (M.P.) – 452017
June - 2022

SCHOOL OF ENERGY AND ENVIRONMENTAL STUDIES (FACULTY OF ENGINEERING SCIENCE) DEVI AHILYA VISHWAVIDYALAYA, INDORE (M.P.)-452017



This is to certify that the work in this thesis entitled "Detailed Energy Audit of Chemical Industry, Gujarat" submitted by VRITTANSH SRIVASTAVA (20EN7A449) in partial fulfillment of the requirements of the prescribed curriculum for Master of Technology in Energy Management, Session 2020-2022, in School of Energy and Environmental Studies, DAVV, Indore, is an authentic work carried out by the candidate under my supervision and guidance. To the best of my knowledge, the matter embodied in the thesis is his bona fide work.

Date: June 2021 Place: Indore Dr. Rubina Chaudhary

27.06.22 Professor

SEES, D.A.V.V. Indore



DEVKI ENERGY CONSULTANCY PVT. LTD.

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: projects@devkienergy.com

: www.devkienergy.com

To Whomsoever It May Concern

This is to certify that Mr. Vrittansh Srivastava, student of M. tech (Energy Management) from "School of Energy and Environmental Studies", Devi Ahilya Vishwavidyalaya, Indore (MP) has successfully completed his project work for his M. tech thesis at Devki Energy Consultancy Pvt. Ltd., Vadodara, Gujarat, during the period from 10th January 2022 to 16th June 2022.

He has been given good exposure to the subject of Industrial Energy Audits and has developed a good grasp of the subject matter.

He possesses good analytical skills and is diligent in his work.

We wish him success in his future endeavor.

Place: Vadodara Date: 16 June 2022

R. Paraman Director

