



Report
Industrial Visit
to
Vikram Solar Power Plant (TTD 10MW Solar Power Plant)
Kosuvripalle, AP
Department of Electrical & Electronics Engineering
Date: 11.03.2022 & 15.03.2022

Organized in association with: ISTE Student Chapter

Submitted by: Dr Pratap Ranjan Mohanty, Associate Professor., Dept. of EEE

Attendance: 198 participants including students & faculty

The three Sections of B. Tech, II Year EEE branch were divided into two groups for the industrial visit. The visit for the students of Section A & C together was scheduled on Dt. 11.03.2022. And, the students of Section B were visited the power plant separately on Dt. 15.03.2022.

Dt. 11.03.2022 (Section A & C)

Faculty Visited:

1. Dr. M. Vijay,
2. Dr. Parth Sarathi Panigrahy,
3. Dr. Aurobinda Bag,
4. Dr. Debashish Pal,
5. Dr. Devnath Shah
6. Mr. N. Ramesh
7. Mr. S. Bharath Kumar,
8. Mr. P. Balamurali Krishna,
9. Mr. R Madhu
10. Mr. Reddy Prasad

A total of 119 number of students (from Section A & C) along with 09 faculties and 01 AAO reached Vikram Solar Power Plant, Kosuvripalle, Chittoor, Andhra Pradesh at around 10. 00 AM. Mr. Y. Dinesh, Site Engineer, Vikram Solar Power Plant and two technical staff of the power plant explained the design and function of the solar power plant initially to the faculties. Then, the total number of students were divided into nine (09) group and each student group was guided by an individual faculty during the visit.

Mr. Y. Dinesh briefly said about the background of the power plant. Tirumala Tirupati Devasthanams (TTD) has established a 10 MW Solar Power Plant at Kosuvripalli near Madanapalle, Chittoor, Andhra Pradesh on Build, Operate and Transfer (BOOT) basis through M/S. Vikram Solar Pvt. Ltd., Kolkata on payment of Rs. 4.49 per unit towards electrical energy generation for captive utilization of electrical energy to TTD 11 KV HT service connections.



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The Solar plant was put into commercial operation w.e.f. 01.04.2017. This plant produces approximately 8 MW to 10 MW power to grid (on grid only).

Each group of students along with the concerned faculty were visited the solar string & inverter section, 11 KV substation and the control room. The concerned faculty and the present technical staff of the power plant explained regarding the solar power generation, conversion & control and transportation of power to each group of students.

The visit was more interactive with effective learning and the students were made to understand the theoretical concepts involved in a solar power plant design and operation. The students returned to MITS, Madanapalle, Angallu at 01.30 PM on the same day.

Dt. 11.03.2022 (Section A & C)

Faculty Visited:

1. Dr. T. S. Balaji Damodhar,
2. Dr. V. B. Thurai Raaj,
3. Dr. Devnath Shah,
4. Mr. N. Ramesh,
5. Mr. B. Vijaya Kumar,
6. Mr. P. Balamurali Krishna,
7. Mr. Y. Ramanjaneyulu.

The Industrial visit was arranged for the students of B. Tech II-year Section B. A total of 68 number of students along with 07 faculties reached Vikram Solar Power Plant, Kosuvaripalle, Chittoor, Andhra Pradesh at around 10. 00 AM. The Plant Engineer Mr. Y. Dinesh welcomed the faculty members and all the students.

The plant engineer along with his team members elaborated the main equipment that are installed in the solar farm. Initially, the students were split in to seven groups along with the one faulty member and one technician. The explanations on the installation of solar strings employed with on-line grid tie inverter, input and output voltage levels of the solar system was explained to the students. As the next part, the students were brought near to the 480V/33KV Inverter transformer yard and described about the construction of the transformer. Finally, the descriptions about the SCADA and overall performance metrics were made by the Site Engineer Mr. Y. Dinesh. The Industrial visit was concluded and reached college by 1.20 PM.

Feedback: The participants were moreover passionate to know the working, operation of solar power plant and its future scopes.



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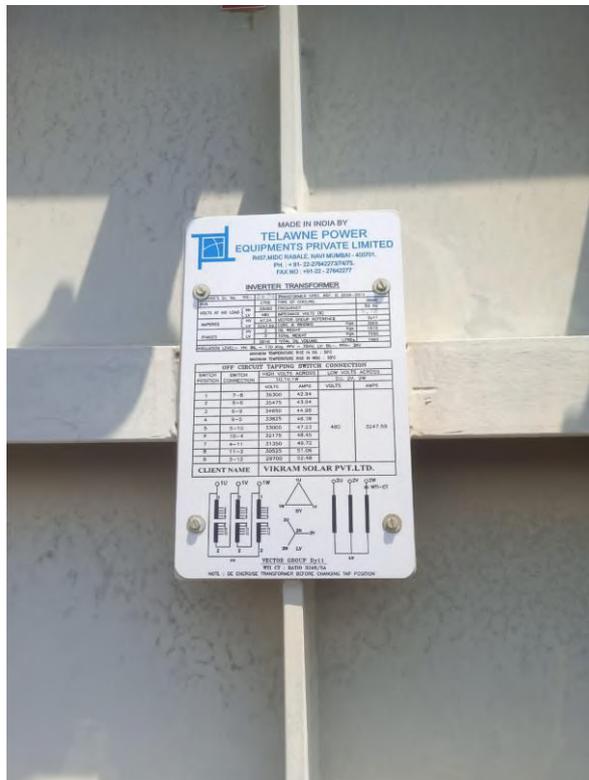
Photos:





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Feedback Analysis

Madanapalle Institute of Technology and Science,
Department of Electrical and Electronics Engineering

FEEDBACK REPORT ON INDUSTRIAL VISIT

CLASS: B.Tech II Year SEMESTER : ODD ACADEMIC YEAR : 2021-22

Name and Address of Industry Visited: Vikram Solar Power Plant, TTD, 10 MW, Kosuvaripalle, AP

Date : 11.03.2022 Duration : 9.30 AM - 1.30 PM

Beneficiary Dept. : EEE Year/Semester: II / I

Total No. of Students: 110

Industrial Visit organized by: Dr Pratap R Mohanty, Assoc. Prof. Dept. of EEE

Name of Industrial Visit in-charge and other Faculty who accompanied the students:

Site In charge: Dr. M. Vijay,

Other Faculty Names:

1. Dr. Parth Sarathi Panigrahy,
2. Dr. Aurobinda Bag,
3. Dr. Debashish Pal,
4. Dr. Devnath Shah
5. Mr. N. Ramesh
6. Mr. S. Bharath Kumar,
7. Mr. P. Balamurali Krishna,
8. Mr. R Madhu
9. Mr. Reddy Prasad

Contact Person at Industry:

y. Dineesh, Site Incharge, Vikram Solar Power Plant,
Kosuvaripalle, AP

Visit related to the subject: Electrical Power Systems, Renewable Energy

During visit the students were taken to following Departments in the Industry

1. Solar String & inverter section
2. Substation & transformer yard
3. Control Room.



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Madanapalle Institute of Technology and Science, Department of Electrical and Electronics Engineering

Names of Student who offered feedback (Feedback enclosed)

1. P Imran Basha
2. M Bhuvana
3. B. Mallikarjuna
4. C Tejaswini
5. B. Sai Hemanth
6. N. Preethi
7. T S Rahamath Ali
8. Sonam Sailaja
9. S Ahammad
10. Shaik Ayesha

Sign. of Industrial Visit in-charge with Seal:

V. Dineesh

Sign of Faculty In-charge

[Signature]
Sign of Faculty Organizer

[Signature]
Signature of HoD

Encl:

1. Industrial Visit report with photographs,
2. Permission letter



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Madanapalle Institute of Technology and Science,
Department of Electrical and Electronics Engineering

FEEDBACK REPORT ON INDUSTRIAL VISIT

CLASS: B.Tech II Year SEMESTER : ODD ACADEMIC YEAR : 2021-22

Name and Address of Industry Visited: Vikram Solar Power Plant, TTD, 10 MW, Kosuvaripalle, AP

Date : 15.03.2022 Duration : 9.30 am to 1.00 pm

Beneficiary Dept. : EEE Year/Semester: II / I

Total No. of Students: 68

Industrial Visit organized by: Dr Pratap R Mohanty, Assoc. Prof. Dept. of EEE

Name of Industrial Visit in-charge and other Faculty who accompanied the students:

Site In charge: Dr. Pratap Ranjan Mohanty,
Other Faculty Names:

1. Dr. T. S. Balaji Damodhar,
2. Dr. V. B. Thurai Raaj,
3. Dr. Devnath Shah,
4. Mr. N. Ramesh,
5. Mr. B. Vijaya Kumar,
6. Mr. P. Balamurali Krishna,
7. Mr. Y. Ramanjaneyulu.

Contact Person at Industry:

Y. Dinesh, Site Incharge, Vikram Solar Power Plant,
Kosuvaripalle, AP

Visit related to the subject: Electrical Power Systems, Renewable Energy

During visit the students were taken to following Departments in the Industry

1. Solar Farm
2. Transformer Yard
3. Master Control Room.



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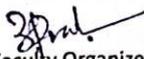
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Department of Electrical and Electronics Engineering

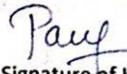
Names of Student who offered feedback (Feedback enclosed)

1. M Venkata Durga Bhavani
2. G. Sharan Sai Reddy
3. M. Srinivas
4. G. Sai Kiran
5. K Vamsi Nayak
6. K Sana

Sign. of Industrial Visit in-charge with Seal:


T.S. Parthi Ramu 15/03/22
Sign of Faculty In-charge


Sign of Faculty Organizer


Signature of HoD

Encl:

1. Industrial Visit report with photographs,
2. Permission letter



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Feedback Sample

Madanapalle Institute of Technology & Science
Department of Electrical & Electronics Engineering

INDUSTRIAL VISIT FEEDBACK FORM

Name of the Student: B. Mallikarjuna Course, Branch & Semester: B.Tech, EEE-A, 2nd S^{tr}
Name of the Industry: Vikram Solar Power Plant Date: 12/03/2022
Type of Interaction: Industrial Visit

Questions	Response of Students
Relevance of the industrial visits (or input received) w.r.t your curriculum	<input type="radio"/> Excellent <input checked="" type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
Whether any specific official was assigned for you during the training (or visits)	<input checked="" type="radio"/> Yes <input type="radio"/> No
Willingness to share information & details by the officials of the organization	<input checked="" type="radio"/> Excellent <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
Access to different facilities of interest to you - for observation, gather knowledge and get your clarifications cleared	<input checked="" type="radio"/> Excellent <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
Whether any relevant technical literature explained by the Industry person	<input checked="" type="radio"/> Yes <input type="radio"/> No
Was the whole training based on a well-defined schedule and adherence to the schedule?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Was the opportunity given for you to work on real time problem or practical problem or on the day to day activities of the organization?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Do the people in the organization encourage interaction with them or extended support in clarifying your doubts or providing information you have sought for?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Hospitality of the industry (willingness to help you for any problems faced during the period where it is agreed upon etc.)	<input type="radio"/> Excellent <input checked="" type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
Overall usefulness of the interaction with the industry	<input checked="" type="radio"/> Excellent <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
Your recommendation for considering this organization for Industrial visit (or industry institute interaction) in future	<input type="radio"/> Strong <input checked="" type="radio"/> Can be considered <input type="radio"/> Not

B. Mallikarjuna
Signature



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Department of Electrical & Electronics Engineering
INDUSTRIAL VISIT FEEDBACK FORM

Name of the Student: M. Venkata Durga Bhavani Course, Branch & Semester: EEE-B III SEM

Name of the Industry: Vikram Solar Power Plant Date: 15-3-2022

Type of Interaction: Industrial Visit

Questions	Response of Students
Relevance of the industrial visits (or input received) w.r.t your curriculum	<input type="radio"/> Excellent <input checked="" type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
Whether any specific official was assigned for you during the training (or visits)	<input checked="" type="radio"/> Yes <input type="radio"/> No
Willingness to share information & details by the officials of the organization	<input type="radio"/> Excellent <input checked="" type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
Access to different facilities of interest to you - for observation, gather knowledge and get your clarifications cleared	<input type="radio"/> Excellent <input checked="" type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
Whether any relevant technical literature explained by the Industry person	<input checked="" type="radio"/> Yes <input type="radio"/> No
Was the whole training based on a well-defined schedule and adherence to the schedule?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Was the opportunity given for you to work on real time problem or practical problem or on the day to day activities of the organization?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Do the people in the organization encourage interaction with them or extended support in clarifying your doubts or providing information you have sought for?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Hospitality of the industry (willingness to help you for any problems faced during the period where it is agreed upon etc.)	<input type="radio"/> Excellent <input checked="" type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
Overall usefulness of the interaction with the industry	<input type="radio"/> Excellent <input checked="" type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
Your recommendation for considering this organization for Industrial visit (or industry institute interaction) in future	<input type="radio"/> Strong <input checked="" type="radio"/> Can be considered <input type="radio"/> Not

M.V.D. Bhavani
Signature



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Madanapalle Institute of Technology & Science
Department of Electrical & Electronics Engineering

INDUSTRIAL VISIT FEEDBACK FORM

Name of the Student: Shaik. Ayesha Course, Branch & Semester: B.Tech, EEE, 2nd year 3rd sem

Name of the Industry: Vikram Solar Power Plant Date: 11/03/22

Type of Interaction: Industrial Visit

Questions	Response of Students			
	<input checked="" type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
Relevance of the industrial visits (or input received) w.r.t your curriculum	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Whether any specific official was assigned for you during the training (or visits)	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Willingness to share information & details by the officials of the organization	<input checked="" type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
Access to different facilities of interest to you - for observation, gather knowledge and get your clarifications cleared	<input checked="" type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
Whether any relevant technical literature explained by the Industry person	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Was the whole training based on a well-defined schedule and adherence to the schedule?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Was the opportunity given for you to work on real time problem or practical problem or on the day to day activities of the organization?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Do the people in the organization encourage interaction with them or extended support in clarifying your doubts or providing information you have sought for?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Hospitality of the industry (willingness to help you for any problems faced during the period where it is agreed upon etc.)	<input type="radio"/> Excellent	<input checked="" type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
Overall usefulness of the interaction with the industry	<input type="radio"/> Excellent	<input checked="" type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
Your recommendation for considering this organization for Industrial visit (or industry institute interaction) in future	<input type="radio"/> Strong	<input checked="" type="radio"/> Can be considered	<input type="radio"/> Not	

S. Ayesha
Signature

[Signature]

Signature of the Faculty Organizer

[Signature]

Signature of HoD