

## **Industrial Visit Report: GCET Mechatronics Semester 2 Visit to Urja Strot Pvt. Ltd.**

Date of Visit: April 01, 2025

Venue: Urja Strot Pvt. Ltd., Bedva, Anand, Gujarat

Organized by: Department of Mechatronics Engineering, GCET

### **1. Introduction**

The Mechatronics Engineering Department of GCET had arranged an industrial visit for Semester 2 students to Urja Strot Pvt. Ltd., a well-known solar panel manufacturer situated at Bedva, Anand. The primary purpose of the visit was to equip students with hands-on experience of renewable energy technologies and narrow the gap between classroom learning and industrial practices.

### **2. About Urja Strot Pvt. Ltd.**

Urja Strot Pvt. Ltd. is one of the leading manufacturers of solar photovoltaic (PV) panels in Gujarat. The company specializes in polycrystalline and monocrystalline solar panel production and has a robust manufacturing setup with modern equipment. They also provide Engineering, Procurement, and Construction (EPC) services for solar energy systems, including both on-grid and off-grid installations.

### **3. Manufacturing Process Insights**

During the visit, we were given a guided tour of the entire manufacturing process. We observed the step-by-step production of solar panels, which included the soldering of PV cells, lamination of solar modules, framing, and final quality checks. Technicians explained each process in detail, emphasizing safety standards and automation technologies used in the plant.

### **4. Technological Advancements**

We were introduced to the latest advancements in solar technology implemented at Urja Strot. These included the use of anti-reflective coatings on panels to enhance energy absorption, as well as the incorporation of half-cut cell technology to improve performance in partial shading. The company also demonstrated their quality assurance methods and stress testing procedures to ensure durability.

### **5. Learning Outcomes**

This visit provided us real-world insight into how theoretical concepts in energy systems, electronics, and automation are applied in industry. It also highlighted the importance of renewable energy in today's world and the role of engineers in contributing to sustainable

development. The interaction with professionals and observation of industry-standard equipment broadened their technical perspective.

## 6. Glimpses from the Visit

Below are some pictures captured during the industrial visit to Urja Strot Pvt. Ltd. These photographs highlight key moments of the visit, including the tour of the manufacturing facility, student interactions with company professionals, and group activities that enriched the learning experience.



## 7. Conclusion

The industrial visit to Urja Strot Pvt. Ltd. was an enriching and informative experience for all of us. It not only enhanced our technical knowledge but also allow us to explore careers in renewable energy. The Department of Mechatronics Engineering expresses sincere gratitude to the management and staff of Urja Strot for their hospitality and support in making this visit a success.

### Prepared By:

Devansh Shah (12402100501005)

Department Of Mechatronics Engineering

G H Patel College Of Engineering and Technology (GCET)

**G H PATEL COLLEGE OF ENGINEERING & TECHNOLOGY**  
 (Constitute College of CVM University)  
 VALLABH VIDYANAGAR  
**MECHATRONICS DEPARTMENT**

Industrial visit at Urjastrot Private limited, Anand -388320.

Date: 01/04/2025

| Sr. No. | Enrollment No. | Name                   | Sign             |
|---------|----------------|------------------------|------------------|
| 1       | 12402100501001 | Ashish Spolia          | <i>Spolia</i>    |
| 2       | 12402100501002 | Axat appal             | <i>Axat</i>      |
| 3       | 12402100501003 | Dalush Shah            | <i>Dalush</i>    |
| 4       | 1004           | Bhargava DEEP          | <i>as</i>        |
| 5       | 12402100501005 | Shah Devansh           | <i>D.K. Shah</i> |
| 6       | 12402100501006 | DHIRAJ RASIV           | <i>Dhiraj</i>    |
| 7       | 12402100501007 | Pudhijar Dhruv         | <i>Dhruv</i>     |
| 8       | 12402100501008 | Dhruva                 | <i>Dhruva</i>    |
| 9       | 12402100501009 | Gurpreet Singh         | <i>Gurpreet</i>  |
| 10      | 12402100501012 | Hriday Patnalk (12)    | <i>Hriday</i>    |
| 11      | 12402100501011 | Hanshang Dighu         | <i>Hanshang</i>  |
| 12      | 12402100501010 | Havit chhatraliya (10) | <i>Havit</i>     |
| 13      | 12402100501013 | Jameel Pandya          | <i>Jameel</i>    |
| 14      | 12402100501014 | Jaydeep Singh          | <i>Jaydeep</i>   |
| 15      | 12402100501015 | Pranipati Jagdish      | <i>Pranipati</i> |
| 16      | 12402100501016 | Kartavya Kishordev     | <i>Kartavya</i>  |
| 17      | 12402100501017 | Kanishk Agrawat        | <i>Kanishk</i>   |
| 18      | 12402100501018 | Mansav Hirdya          | <i>Mansav</i>    |
| 19      | 12402100501019 | Mansav Patel           | <i>Mansav</i>    |
| 20      | 12402100501020 | Marmuk Shah            | <i>Marmuk</i>    |
| 21      |                |                        |                  |
| 22      | 12402100501022 | Nihal Khan. S. Pathan  | <i>Nihal</i>     |
| 23      | 12402100501023 | Lokesh Patil           | <i>Lokesh</i>    |
| 24      | 12402100501024 | Patel Pratham          | <i>Patel</i>     |
| 25      |                |                        |                  |
| 26      | 12402100501026 | Rajat T. Patel         | <i>Rajat</i>     |
| 27      | 12402100501027 | Rishit A. christi      | <i>Rishit</i>    |
| 28      | 12402100501028 | Rishit Tailor          | <i>Rishit</i>    |
| 29      | 12402100501029 | Slor. Preet.           | <i>Slor</i>      |
| 30      |                |                        |                  |
| 31      | 12402100501031 | Vidit Patel            | <i>V. Patel</i>  |
| 32      |                |                        |                  |
| 33      | 12402100501033 | Pardhiv Dholavira      | <i>P.</i>        |