



Government College of Engineering, Yavatmal
(Affiliated to, Dr. Babasaheb Ambedkar Technological University)

DEPARTMENT OF ELECTRICAL ENGINEERING

A Report on
Industrial Visit for Electrical Department Third Year Students
At
Chandrapur Super Thermal Power Station & Solar Power Plant



Visit Coordinator:

Assi. Prof. P. S. Swami

(Department of Electrical Engineering)

Organized & Managed By:

Department of Electrical Engineering

Government College of Engineering, Yavatmal

Date: 24th November 2023



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Introduction:

Department of Electrical Engineering from Government College of Engineering, Yavatmal arranged one day Industrial Visit for Third Year Electrical Engineering students to “**Chandrapur Super Thermal Power Station & Solar Power Plant**” dated 24th November 2023 for better technical knowledge enhancement of students.

Visit is important especially important in the field of Engineering as the practice of engineering has an inherent (and unavoidable) impact on society. These programs can be a powerful tool to constitute a positive industrial climate. Overall, the aim of all these visit to trains the students to familiar about power generation process. After visit students can identify their own efficiency and performance which important for their career, improving work efficiency and confidence.

Purpose:

Industrial visits are an integral part of Engineering and acknowledgment of technological up-gradation. The purpose of industrial visit for students is to provide technical knowledge with the technological development in the industry and to understand the gap between the theoretical and practical knowledge that could be passed in future. This experience can help students to provided information regarding functioning of various industries and associated problems and limitations.

Interfacing with the industry also provide a chance to build networks and hone their communication skills. Moreover, the participating organizations also gain by getting refined students from the respective institute which could also help in improving their economy



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Procedural Steps for Organizing Visit:

Organizing a visit to a place like Chandrapur Super Thermal Power Station (CSTPS) involves several procedural steps which involve:

1. **Contact CSTPS Administration:** Reach out to the administration of CSTPS through their official channels. Identify the appropriate contact person or department responsible for handling visit requests.
2. **Define Purpose and Objectives:** Clearly articulate the purpose of the visit. Whether it's for educational purposes, research, or industrial exposure, make sure to communicate the objectives of the visit.
3. **Submit Formal Request Letter:** Prepare a formal letter on official letterhead from institution requesting permission for the visit. Include details such as the proposed date and time, the number of participants (students and faculty), and the purpose of the visit.
4. **Provide Participant Information:** Include a list of participants with their names, designations (if faculty), and any other relevant details. This helps CSTPS in managing and facilitating the visit.
5. **Specify Areas of Interest:** Clearly mention the specific areas or departments within CSTPS that you wish to visit. This will help CSTPS in coordinating the itinerary and ensuring that you get the most relevant and educational experience.
6. **Request Permission for Photography or Recording:** If there is a need to take photographs or record during the visit, explicitly mention this in your request. Some industrial sites may have restrictions on photography for security reasons.
7. **Inquire About Safety Regulations:** Ask CSTPS about safety regulations and requirements during the visit. Ensure that all participants are aware of and adhere to safety protocols. This might include wearing appropriate safety gear, following specific routes, and attending safety briefings.



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8. **Coordinate Logistics:** Work with CSTPS to coordinate logistics such as entry points, parking facilities, and any other specific requirements. Confirm whether CSTPS will provide any guides or if your group needs to be self-guided.
9. **Arrange Transportation:** If transportation is not provided by CSTPS, make arrangements for transportation from your institution to CSTPS and back. Ensure that the mode of transportation complies with any safety regulations.
10. **Confirm Visit Details:** Prior to the visit, confirm all details with CSTPS, including the date, time, meeting point, and any additional instructions. Ensure that all participants are well-informed.



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Company Profile:

1. Chandrapur Super Thermal Power Station

Chandrapur Super Thermal Power Station (often abbreviated as CSTPS) is a thermal power plant located in Chandrapur district in the Indian state of Maharashtra. The power plant is one of the coalbased power plants of MAHAGENCO. The coal for the power plant is sourced from Durgapur and Padmapur Collieries of Western Coalfields Limited. The plant was officially inaugurated by the then Prime Minister Indira Gandhi on 8 October 1984.

Chandrapur Thermal Power Station is an operating power station of at least 2920-megawatts (MW) in Chandrapur, Maharashtra, India with multiple units, some of which are not currently operating.



Project Details

Table 1: Project-level location details

Plant name	Location	Coordinates(WGS84)
Chandrapur Super Thermal Power Station	Chandrapur, Maharashtra, India	20.0063, 79.29 (exact)



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Table 2: Unit-level details

Unit name	Status	Fuel(s)	Capacity (MW)	Technology	Start year	Retired year
Unit 2	Retired	coal bituminous	210	subcritical	1984	2016
Unit 3	Operating	coal bituminous	210	subcritical	1985	–
Unit 9	Operating	coal bituminous	500	subcritical	2016	–
Unit 5	Operating	coal bituminous	500	subcritical	1991	–
Unit 4	Operating	coal bituminous	210	subcritical	1986	–
Unit 1	Retired	coal bituminous	210	subcritical	1983	2016
Unit 6	Operating	coal bituminous	500	subcritical	1992	–
Unit 7	Operating	coal bituminous	500	subcritical	1997	–
Unit 8	Operating	coal bituminous	500	subcritical	2015	–
Total Capacity (MW)			2,920			



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Table 3: Unit-level ownership and operator details

Unit name	Owner
Unit 2	Maharashtra State Power Generation Co Ltd (MAHAGENCO) [100.0%]
Unit 3	Maharashtra State Power Generation Co Ltd (MAHAGENCO) [100.0%]
Unit 9	Maharashtra State Power Generation Co Ltd (MAHAGENCO) [100.0%]
Unit 5	Maharashtra State Power Generation Co Ltd (MAHAGENCO) [100.0%]
Unit 4	Maharashtra State Power Generation Co Ltd (MAHAGENCO) [100.0%]
Unit 1	Maharashtra State Power Generation Co Ltd (MAHAGENCO) [100.0%]
Unit 6	Maharashtra State Power Generation Co Ltd (MAHAGENCO) [100.0%]
Unit 7	Maharashtra State Power Generation Co Ltd (MAHAGENCO) [100.0%]
Unit 8	Maharashtra State Power Generation Co Ltd (MAHAGENCO) [100.0%]

Project-level coal details

- **Permit(s):** January 30, 2009 – Environmental Clearance

Background

- The power station is owned by Maharashtra State Power Generation Company (MSPGCL), a Maharashtra government owned company.
- The original power station comprised Units 1-4 (210MW each) and units 5-7 (500MW each) Units 1-2 were retired in 2016, after units 8-9 went online Unit 8-9 Expansion.
- In 2014 a 1000MW expansion of the plant was underway with the addition of 2 x 500MW units (units 8-9). Units 8 & 9 were expected to be commissioned by June 2014 and January 2015 respectively, later pushed to November 2014 for unit 8 and March 2015 for unit 9.
- Unit 8 was synchronized in January 2015 and planned for commissioning in March 2015. Unit 8 completed a trial run in May 2015.
- According to the India Ministry of Power, Unit 9 is planned for June 2015, later pushed to January 2016. It was commissioned in March 2016.



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Coal supply

In April 2015 Western Coalfields Limited agreed to supply coal to the new Chandrapur unit 8 on a temporary basis until it gets a permanent linkage. Of the six recently commissioned units by Mahagenco, there is no permanent linkage for five of them, as Mahagenco's captive mines in Odisha - Machchhakatta and Mahanadi - have been de-allocated following the orders of Supreme Court.



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2. Ground Mounted Solar Power Station

Ground Mounted Solar Power Station located in Chandrapur district in the Indian state of Maharashtra.

Ground Mounted Solar Power Station is an operating power station of at least 2 megawatts (MW) in Chandrapur, Maharashtra, India.



Project Details

Table 1: Project-level location details

Plant name	Location
Ground Mounted Solar Power Station	Chandrapur, Maharashtra, India

Table 2: Unit-level ownership and operator details

Unit name	Owner
Unit 1 and 2	Maharashtra State Power Generation Co Ltd (MAHAGENCO) [100.0%]



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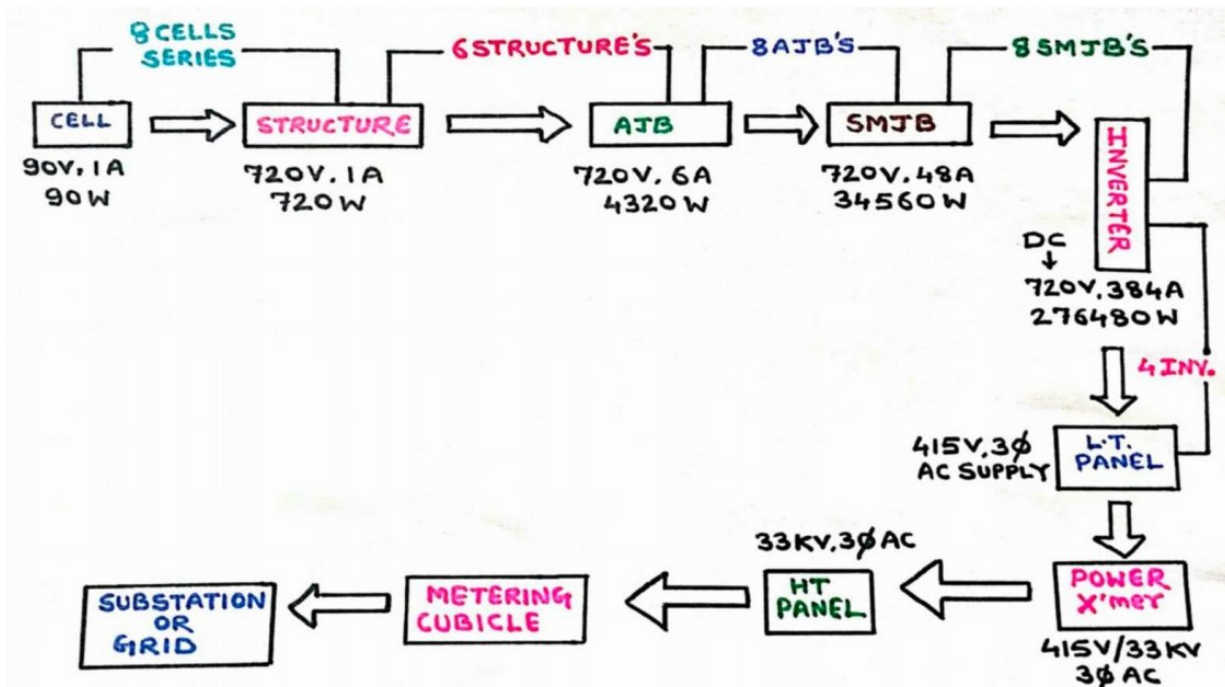
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Table 3: Unit-level details

Unit name	Status	Mounting	Capacity (MW)	Type of Solar Panel
Unit 1	Operating	Ground Mounted	1 MW	Monocrystalline
Unit 2	Operating	Ground Mounted	1 MW	Monocrystalline
Total Capacity MW			2 MW	

Flowchart

Electrical Connections of First MW Level Ground Mounted Solar Power Plant in Chandrapur District, Maharashtra State



- **Cell:**

A solar cell or photovoltaic cell (PV cell) is an electronic device that converts the energy of light directly into electricity by means of the photovoltaic effect.

$$1 \text{ Solar Cell} = 90 \text{ V, } 1 \text{ A, } 90 \text{ W}$$

In DC System, $P = V * I$



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- **Structure**

A structure is formed by combining 8 cells in series

$$1 \text{ Solar Cell} = 90 \text{ V}, 1 \text{ A}, 90 \text{ W}$$

Then, by connecting 8 cells in series $90 \times 8 = 720 \text{ V}$ (In series connection voltage is added and current as it is i.e. Constant)

$$V = 720 \text{ V}, I = 1 \text{ A}, P = 720 \text{ W}$$

- **Array Junction Box**

In Array Junction box 6 structures are connected in parallel.

Inverter Rating is 250 KW

In order to increase the power we have to increase the current by connecting the structure in parallel.

$$V = 720 \text{ V}, I = 6 \text{ A}, P = 4320 \text{ W}$$

- **String Monitoring Junction Box**

Now by connecting 8 Array junction box the power of solar power system is get increases

$$V = 720 \text{ V}, I = 48 \text{ A}, P = 34560 \text{ W}$$

- **Inverter**

Inverter rating = 250 W

$$1 \text{ MW} = 1000 \text{ KW}$$

For 1 MW, 4 inverter of 250 W rating is used in solar power station

$$250 \times 4 = 1000 \text{ KW or 1MW}$$

For 2 MW = 8 Inverters Used

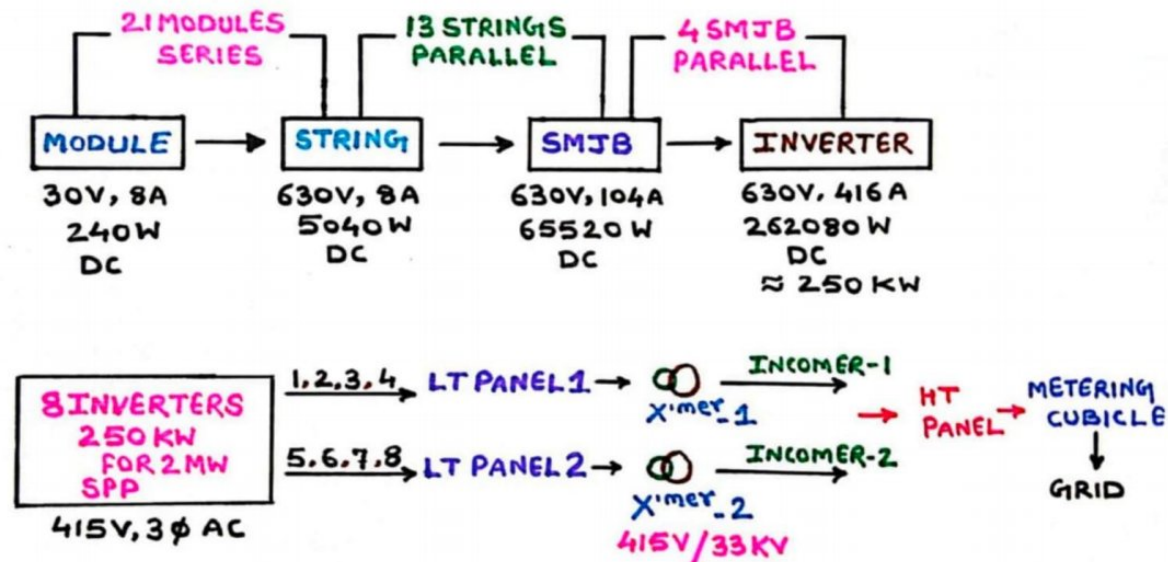


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- **LT panel**

LT Panel is an electrical distribution board that receives power from an solar panels and distributes the same to various electronic devices and distribution boards. Such panels are used in industries both for internal and external use and, therefore, they are quite rugged to withstand different climatic conditions.



Ground Mounted Solar Power Station of 2 MW Capacity



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Permission Letter: 1. College

	<p>शासकीय अभियांत्रिकी महाविद्यालय यवतमाळ (GOVERNMENT COLLEGE OF ENGINEERING YAVATMAL) पत्र पेटी क. २४, धामणागव रोड, यवतमाळ ४४५००१ फोन नं. ०७२३२ - २४३२७८ E-mail : office.gcoeyavatmal@dtmaharashtra.gov.in</p>	
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जा.क. : शासमय/EED Visit/२०२३/३९९७

दिनांक :- २०.११.२०२३

प्रति,

मा.सहसंचालक,

तंत्रशिक्षण, वि.का., अमरावती.

विषय :- धर्मल पावर स्टेशन, चंद्रपूर येथे शैक्षणिक सहली करिता जाण्याची परवानगी मिळणे बाबत.

संदर्भ :- धर्मल पावर स्टेशन, चंद्रपूर यांचे पत्र क.CE/CSTPS/TRG/02160 Dt. 16/11/2023

महोदय,

या संस्थेतील तृतीयवर्ष विद्युत अभियांत्रिकी या विभागातील विद्यार्थ्यांची दि. २४.११.२०२३ रोजी चंद्रपूर येथे धर्मल पावर स्टेशन व सोलर प्लांट करिता औद्योगिक शैक्षणिक सहल आयोजित केली आहे. यात ५९ विद्यार्थी व ०५ शिक्षकीय अधिकारी यांचा समावेश आहे. सदर सहल ही महाराष्ट्र राज्य परिवहन महामंडळ यांचे बसने जाणार आहे. तरी सदर शैक्षणिक सहलीला दि. २४.११.२०२३ रोजी जाण्याकरीता परवानगी देण्यात यावी ही विनंती.

आपला विश्वासू

प्राचार्य
शासकीय अभियांत्रिकी महाविद्यालय
यवतमाळ

सहपत्र :-



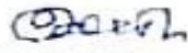
१. विद्यार्थ्यांची यादी
२. धर्मल पावर स्टेशन चंद्रपूर यांचे परवानगी पत्र

प्रत :- १. मा.आगर प्रमुख महाराष्ट्र राज्य परिवहन महामंडळ, आगर यवतमाळ यांना माहितीकरीता.



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2. Permission for In Plant Visit at CSTPS, Chandrapur

 	CHANDRAPUR SUPER THERMAL POWER STATION MAHARASHTRA STATE POWER GENERATION COMPANY LIMITED BUNGLO 2008, 1ST FLOOR, 2ND AND 3RD FLOOR & 1ST FLOOR, 2010 Office of Chief Engineer, C S T P S Chandrapur - 445001 Phone 0712-220122 to 220128 Fax 0712-220201 E-Mail: csgc@mahagenco.com		
Ref: CE/CSTPS / TRG/	No 02100	Date:	16 NOV 2023
To, THE PRINCIPAL, GOVERNMENT COLLEGE OF ENGINEERING, YAVATMAL,445001			
Sub: - Permission for In Plant Visit at CSTPS, Chandrapur.			
Ref: - 1) LETTER NO. GCOEY/Visiting/EED/2023-24/2879, Date - 16/10/2023 2) GM/HR/Trg./No.01627/Date-16.02.2017.			
In pursuance of the powers delegated to the Chief Engineer (Gen), CSTPS, Chandrapur, permission is hereby granted to the total 64 students of Electrical Engineering Dept. of GOVERNMENT COLLEGE OF ENGINEERING, YAVATMAL . Along with staff member as per letter cited above for In- Plant visit at their own risk & cost & as per the rules & regulation laid by the company, as under.			
1. Date of Visit - 24.11.2023.			
2. Students/Faculties to report first to The Dy.Commandant, CISF Unit CSTPS Chandrapur (M.S.), CSTPS & complete Security Formalities			
3. Timing of Visit will be 10.00 to 17.00 Hrs.			
4. The charges to be levied for visit to CSTPS Plant for Trainers/college students/Faculties in Batches Will be Rs.118/- (100-18% GST=118) per student/person . This has to be Deposited in CSTPS, Account Section prior two days of scheduled visit & Xerox of money Receipt should be submitted to Training Section.			
5. They will have to follow all security / safety norms stringently.			
6. They will have to follow all security instructions issued by Officer-In-Charge.			
7. No conveyance / accommodation will be provided.			
8. Photography, in any form is strictly prohibited. Mobiles or any other communication device will not be allowed inside the plant.			
9. Student should come in uniform with formal shoes & college ID card as approved by college/school during the visit.			
 DY.CHIEF ENGINEER (ADMIN) CSTPS, CHANDRAPUR.			
Copy to: 1. The AGM, F&A, CSTPS, Chandrapur 2. The Dy Commandant, CISF Unit CSTPS Chandrapur (M.S.) 3. The Safety Officer, CSTPS 4. The Sr.Security Manager			



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(GOVERNMENT COLLEGE OF ENGINEERING YAVATMAL)
धामणागव रोड यवतमाळ - ४४५००१
Phone No. website: www.gcoey.ac.in E-mail
Office: 07232 243278 office.gcoeyavatmal@vitensharastrika.gov.in
FAX No. 07232 238883 office@gcoey.ac.in

Department of Electrical Engineering
Batch -2023-24 Class Third Year B Tech Electrical

Sr. No	Staff	Remark
1	Prof.P.S. Swami	
2	Dr.K.D.Thakur	
3	Mrs.Payal Khandare	
4	Mrs.Shilpa Lingewar	
5	Shri. Manoj Chavan	
Name of Student		PRN NO
6	AJMIRE ANUSHKA AMOLRAO	PRN:2110121293001
7	CHAWARE PRATIK TAPIPRASAD	PRN:2110121293002
8	HINGVE RASHMI DEORAO	PRN:2110121293003
9	KUMBHARE ROHIT RAJESH	PRN:2110121293006
10	KUMARE DIVYANI RAJU	PRN:2110121293008
11	ISAL SHARVARI KISHOR	PRN:2110121293009
12	GORDE SUYOG DINESH	PRN:2110121293010
13	SHREYA MUKUNDRAO AJMIRE	PRN:2110121293011
14	GATHE JAY DINESH	PRN:2110121293012
15	ANUSHKA RAYAJI SURNAR	PRN:2110121293015
16	CHANDANE ARTI AMBADAS	PRN:2110121293016
17	VEDANT N KHULSINGE	PRN:2110121293017
18	BORSE DNYANESHWAR R	PRN:2110121293018
19	AKSHAY UTTAMRAO KHADSE	PRN:2110121293019
20	DHONGE HIMANSHU PRAFUL	PRN:2110121293020
21	CHEKE VAIBHAV SANJAY	PRN:2110121293023
22	KATKAR YASH NIRANJAN	PRN:2110121293025
23	MENDHE GAYATRI SACHIN	PRN:2110121293026
24	KATLE PRIYA KISHAN	PRN:2110121293028
25	PRAJWAL ATUL PINGALE	PRN:2110121293029
26	MADESHWAR SWAPNIL D	PRN:2110121293030
27	KEWAT SHRIRANT MALLURAM	PRN:2110121293031
28	SWAPAJI LILADHAR THAKARE	PRN:2110121293032
29	TURUKTANE NIKITA TRYAMBAK	PRN:2110121293038
30	LIPE GAURI RAJA	PRN:2110121293040
31	SURNAR AISHWARYA C	PRN:2110121293041
32	NIKHIL NAYAN C	PRN:2110121293042



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	Name of Student	PRN NO	
33	BHABUTKAR DAKSHANI C		
34	SAMIKSHA SUNIL ANBHORE	PRN:2110121293043	
35	PUJARI RADHESHAM JAKKAPPA	PRN:2110121293044	
36	PILLEWAN ROHIT BHAGWAN	PRN:2110121293045	
37	WANKHADE SAURABH M	PRN:2110121293047	
38	JOSHI DEVESH DHANRAJ	PRN:2110121293048	
	SAWANT RAJESH BALASAHL	PRN:2110121293050	
		2210121293501	
40	KHORGADDE OMKAR NARAYANRAO	2210121293502	
41	MAPARI VIJAY SANTOSH	2210121293503	
42	THAG SHUBHANGI GAJANAN	2210121293504	
43	THORAT VISHAKHA KAILAS	2210121293505	
44	NAPHADE CHINMAY LALIT	2210121293506	
45	AWARE VAIBHAV RANGNATH	2210121293507	
46	LANJEWAR JINA BHAGWAT	2210121293508	
47	KADUKAR DIPAK MILIND	2210121293509	
48	DAKHORE MANISHA HARIDAS	2210121293510	
49	MAHAJAN SAGAR PRAVIN	2210121293511	
50	SHEIKH AFATAB HABIB	2210121293512	
51	BARDE DEEP BHAUSAHEB	2210121293513	
52	PATIL MANISH MAHESH	2210121293514	
53	THAKARE SHREEYA SHYAM	2210121293515	
54	PAWAR REVATI NANDKISHOR	2210121293516	
55	ROHIT PRAKASH HATWAR	2210121293517	
56	RAUT ABHIJIT SUNIL	2210121293518	
57	PANDIT SANJANA RAJKUMA	2210121293519	
58	SUROSHE YUVARAJ SUDHAKAR	2210121293520	
59	KHODE KUSHAL DINESH	2210121293521	
60	CHODANTE SAPNA MAROTRAO	2210121293522	
61	WAGH PRATHMESH SHRIKRUSHN	2210121293523	
62	JODH TEJAS ABHAY	2210121293525	
63	INGOLE POONAM BHAGWAN	2210121293527	
64	THAWARE SAKSHI SUDHAKAR	2210121293528	

Head, Electrical Engineering



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Detailed Schedule:

Date	Time	
24 th November 2023	5:30 am	Gathered at College
	6:00 am – 10:30 am	Yavatmal to Chandrapur
	11:00 am	Reach to CSTPS Training centre
	11:30 am – 1:30 pm	Site Visit CSTPS
	2:00 pm	Lunch Break
	3:00 pm – 4:00 pm	Theory Class
	4:30 pm	Site Visit Solar Power Plant
	6:00 pm – 10:00 pm	Chandrapur to Yavatmal



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What we learn:

On 24th November 2023 we reached at Chandrapur by 11:00 AM. After showing Permission letter to CISF on main gate we got entry at Plant by 11:30 PM.



After wearing safety helmet, we start walk into plant There we meet communicated engineer at department he was came with us and explain detail working cycle of power generation at TPS. Then after he shown us turbine room, generator room, boiler, Economiser, air preheater, ID and FD fan.

By Visiting CSTPS we come to know about

1. Operational Processes:

- A visit to the Chandrapur Super Thermal Power Station would provide a firsthand look at the operational processes involved in power generation. This includes understanding how fuel (likely coal) is handled, burned, and converted into steam to drive turbines.

2. Power Generation Technologies:

- We also got the opportunity to see the advanced technologies employed in power generation, such as high-efficiency boilers, modern turbines, and sophisticated control systems.



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3. Scale and Capacity:

- Super thermal power stations are large-scale facilities. A visit would help you comprehend the sheer scale of the infrastructure and the significant amount of electricity they generate.

4. Environmental Controls:

- Thermal power stations, including super thermal power stations, often implement environmental controls to reduce emissions. This could include measures to capture and mitigate pollutants. Understanding these controls is crucial in the context of environmental sustainability.

5. Safety Measures:

- Safety is a top priority in power stations. During your visit, you might learn about the safety measures in place, including protocols for handling high-pressure steam, emergency shutdown procedures, and measures to protect workers.

6. Efficiency Considerations:

- Efficiency is a key aspect of power generation. You may learn about how the power station maximizes the conversion of heat into electricity and minimizes waste through concepts such as heat rate.

7. Integration with the Grid:

- Chandrapur Super Thermal Power Station, like any other major power plant, is likely integrated into the broader power grid. Understanding how it synchronizes with the grid, manages load fluctuations, and contributes to grid stability is essential.

8. Maintenance Practices:

- Power plants require regular maintenance to ensure the reliable and efficient operation of equipment. Observing maintenance practices during your visit can provide insights into the efforts involved in keeping the facility in optimal condition



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Conclusion:

From this visit, we got the information and practical knowledge about Power generation by coal fired plant. Students got the knowledge about boiler operation, working of condenser and cooling towers, different mountings and accessories used in thermal power plant. also got the idea about working of different cycles like coal and ash cycle, water and steam cycle, ash handling cycle, cooling water cycle.



About 59 students of Electrical Engineering Department, Govt. College of Engineering, Yavatmal & faculty named Prof. P. S. Swami & Dr. K. D. Thakur benefited from this visit as they got chance to discussion with In-charge officer and other engineers working at power plant. Students were eagerly to say organizing this type of industrial visit for practical exposure which is shows the success of this visit.



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Photos:





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Student Feedback:

I **Afatab Habib Sheikh** as a representative of the students from the Department of Electrical Engineering to express our heartfelt gratitude for the incredible opportunity we were given the recent industrial visit to Chandrapur Super Thermal Power Station (CSTPS). This experience has left an indelible mark on our understanding of electrical engineering, and we are immensely thankful for the support and guidance we received from the department.

First and foremost, I would like to extend our sincere appreciation to our esteemed faculty members who orchestrated this educational excursion. Your commitment to enriching our academic experience and exposing us to real-world applications has been truly invaluable. You have not only imparted theoretical knowledge within the classroom but have gone above and beyond to ensure that we witness the practical aspects of our field.

To the department staff who meticulously organized the logistics of the visit, thank you for your tireless efforts. From coordinating transportation to ensuring our safety during the trip, your attention to detail and dedication did not go unnoticed.

Our sincere gratitude also goes to the authorities at Chandrapur Super Thermal Power Station. The warm welcome and hospitality extended to us made our visit both educational and enjoyable. We are grateful for the openness with which your team shared insights into the cutting-edge technologies and operational processes at CSTPS. It was a privilege to witness firsthand the complex machinery and systems that drive power generation on such a massive scale.

The industrial visit has not only broadened our knowledge but has also inspired us to delve deeper into the intricacies of electrical engineering. Witnessing the application of theoretical concepts in a real-world setting has ignited a passion within us, motivating us to strive for excellence in our academic pursuits.

As students, we understand that such opportunities are not only a testament to the department's commitment to our education but are also instrumental in shaping our future careers. The exposure to industry practices has provided us with a unique perspective that goes beyond textbooks, and we are grateful for the investment made in our learning journey.

In conclusion, thank you, once again, to the Department of Electrical Engineering for making this industrial visit to CSTPS possible. We are truly fortunate to be part of a department that not only values academic excellence but also actively seeks avenues to bridge the gap between theory and practice.

We look forward to more such enriching experiences and are committed to applying the knowledge gained to contribute meaningfully to the field of electrical engineering.

Thank you.

Afatab H. Sheikh