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Shiv Chhatrapati Shikshan Sanstha's  
**Rajarshi Shahu Mahavidyalaya, Latur**  
**(Empowered Autonomous)**  
**Department of Physics and Electronics**  
**A) A Summary Report of the Activity**

1) Title of Programme:	One-Day Field Visit to Parli Thermal Power Plant			
2) Name of Organizing Department/Unit:	Department of Physics and Electronics, Rajarshi Shahu Mahavidyalaya, Latur (Empowered Autonomous)			
3) Name of the Coordinator(s)/ Convener(s)/ Organizer(s) of the Programme:	Organizer: Dr Abhijit Yadav Coordinator: Miss Harshada Nalge			
4) Date(s) of the Programme:	30.03.2026			
5) Venue:	Parli Thermal Power Station (PTPS), Parli Vaijnath			
6) Target Group:	UG and PG Students and Teachers			
7) Number of Participants:	Male	Female	Total	
A separate list with signatures be maintained in the department/Unit)	Teaching	01	03	04
	Non-Teaching	02	-	02
	Students	05	13	18
8) Total Expenditure for the Programme:	₹ 7214			
9) Source of Funding:	Self-funded by Students and Teachers			

## B) Report

### i. Title: One-Day Field Visit to Parli Thermal Power Plant

### ii. Introduction

The Parli Thermal Power Station (PTPS) is a major coal-based power plant located in Parli Vaijnath, Beed District, Maharashtra. Operated by MAHAGENCO, it serves as a critical industrial hub in the Marathwada region with an installed capacity exceeding 1,100 MW. It acts as a key energy source for the state grid.

### iii. Objectives

- To study the comprehensive functioning of a coal-based steam power plant.
- To understand the complete "Coal-to-Electricity" lifecycle.
- To observe best practices in sustainable industrial operations.
- To provide UG and PG Physics and Electronics students with practical exposure to thermal power plant components and working principles.

### iv. Details of Participants

A total of 24 participants (08 Male and 16 Female), including students and staff, visited the plant.

### v. Brief Summary of Events/ Sessions

On March 30, 2026, the Department of Physics and Electronics organized a field visit to the Parli Thermal Power Plant. Prior to departure, HoD Dr Abhijit Yadav provided essential guidelines to ensure a successful visit. Principal Dr Mahadev Ghavane facilitated all necessary arrangements for the tour. Upon arrival, the team visited the management office, where technician Miss Summaiya Shaikh verified documentation and provided a briefing on the plant's unit overview. During the field tour, technicians Mr. Atul Sonvane and Mr. Kapil Tate guided the students through the power generation process.

#### Key Components Explored:

**Boiler:** Students witnessed the combustion process and high-pressure steam generation.

**Turbine:** Participants learned how steam energy is converted into mechanical energy.

**Generator:** The session covered the conversion of mechanical energy into electricity and its subsequent transmission.

Students actively engaged with plant technicians to discuss the operational roles, equipment maintenance, and the challenges faced in large-scale power generation.

**vi. Conclusion, with Feedback**

The field visit was highly educational, effectively bridging the gap between theoretical physics concepts and practical engineering applications. The hands-on experience demystified complex industrial processes for the students. The Department expresses its sincere gratitude to the Parli Thermal Power Plant authorities for their cooperation and for sharing their technical expertise.

**VII. Any Appendix If Necessary: List of participants**





Date: 04/04/2026

  
HOD  
**HEAD**

Department of Physics & Electronics  
Rajarshi Shahu Mahavidyalaya, Latur  
(Autonomous)

  
Principal  
**PRINCIPAL**  
Rajarshi Shahu Mahavidyalaya, Latur  
(Autonomous)

**C) Photograph**

	
<p><b>Setting the Journey in Motion:</b> Dr Abhijit Yadav (HoD), faculty members, and students gather at the college premises before departing for the Parli Thermal Power Plant field visit.</p>	<p>The visiting team posing at the Parli Thermal Power Plant Management Office before the technical sessions commenced.</p>
	
<p>Students and faculty, equipped with safety gear, conducting a final walkthrough of the power plant site to observe the boiler, turbine, and generator operations in real-time</p>	<p>Plant technician Ms. Summaiya Shaikh delivering a detailed technical briefing on the 250 MW unit overview and the coal-to-electricity generation process</p>

**D) Flyer**



**D) List of Participants**

Shiv Chhatrapati Shikshan Sanstha's  
**Rajarshi Shahu Mahavidyalaya, Latur**  
 (Empowered Autonomous Institute)  
**Physics & Electronics Department**  
 One Day Educational Tour (Field Visit)

Sr. No	Name Of the Student/Staff	Class /Desi	Sign	Remark
01	Miss. Hawaldar Mayuri	Assi. Prof.	<i>Mayuri</i>	
02	Miss. Patil Vishakha	Assi. Prof.	<i>Vishakha</i>	
03	Miss. Nalge Harshada	Assi. Prof.	<i>Harshada</i>	
04	Mr. Dalve Harshad	Assi. Prof.	<i>Harshad</i>	
05	Mr. Bhoiwad Amar	Lab. Assi	<i>Amar</i>	
06	Miss. Ghuge Mrunmai	B.Sc. I	<i>Mrunmai</i>	
07	Miss. Gangapure Priya	B.Sc. I	<i>Priya</i>	
08	Miss. Makne Rutuja	B.Sc. I	<i>Rutuja</i>	
09	Miss. Momin Ayesha	B.Sc. II	<i>Ayesha</i>	
10	Miss. Birle Aditi	B.Sc. II	<i>Aditi</i>	
11	Mr. Dalve Sachin	B.Sc. II	<i>Sachin</i>	
12	Miss. Dhanve Sakshi	B.Sc. II		
13	Shri Jadhav Tanmay	B.Sc. III	<i>Tanmay</i>	
14	Shri Markole Amardeep	B.Sc. III	<i>Markole</i>	
15	Miss. Kapse Prajka	B.Sc. III	<i>Prajka</i>	
16	Miss. Sontakke Samiksha	B.Sc. III	<i>Samiksha</i>	
17	Miss. Ronge Saroja	B.Sc. III	<i>Saroja</i>	
18	Shri Hallale Aditya	B.Sc. III	<i>Aditya</i>	
19	Miss. Sarge Bhagyashree	M.Sc. I	<i>Bhagyashree</i>	
20	Miss. Birajdar Sneha	M.Sc. I	<i>Sneha</i>	
21	Miss. Deshmukh Suhani	M.Sc. I	<i>Suhani</i>	
22	Miss. Kalam Charushila	M.Sc. I	<i>Charushila</i>	
23	Mr. Modi Prajwal	M.Sc. II	<i>Prajwal</i>	
24	Beste Maheshwari	B.Sc. II	<i>Beste</i>	

Date: 04/04/2026

*[Signature]*  
 HOD  
**HEAD**  
 Department of Physics & Electronics  
 Rajarshi Shahu Mahavidyalaya, Latur  
 (Autonomous)

*[Signature]*  
 Principal  
**PRINCIPAL**  
 Rajarshi Shahu Mahavidyalaya, Latur  
 (Autonomous)



Shiv Chhatrapati Shikshan Sanstha's  
**Rajarshi Shahu Mahavidyalaya, Latur.**  
(Autonomous)

Kaku Sheth Ukka Marg, Chandra Nagar, Latur - 413512 (Maharashtra)  
Affiliated To Swami Ramanand Teerth Marathwada University, Nanded  
Arts, Commerce, Science, Comp.Sci. & I.T., Biotechnology and B. Voc.  
NAAC A<sup>+</sup>Grade (4<sup>th</sup> Cycle) With 3.49 CGPA, UGC-CPE (Phase-III)& DST-FIST Status

**Dr. Gopalrao Patil**  
President

**B. B. Thombare**  
Secretary

**Dr. Mahadev Gavhane**  
Principal

Ref.: RSML/Auto/2025-26/ 3634

Date:23-03-2026

To,  
**The Chief Engineer (O&M),**  
Thermal Power Station,  
Parli-Vaijnath.

**Sub.:** Request for permission to conduct a one-day educational field visit.

Sir,

With reference to the subject mentioned above, I am writing to you on behalf of the **Physics & Electronics Department of Rajarshi Shahu Mahavidyalaya, Latur (Empowered Autonomous Institute).**

As a part of our academic curriculum, we aim to provide our students with practical exposure to large-scale power generation and the operational dynamics of a thermal power plant. We believe that a visit to the **Parli Thermal Power Plant** would be an invaluable learning experience for our undergraduate and postgraduate students.

We would like to request permission to visit your esteemed plant on a **tentative date between April 1 and April 5, 2026.** The visiting group will consist of **20 members,** including faculty and students. The detailed list is as follows:

Sr. No.	Name of the Student/ Staff	Class / Designation
01	Miss. Hawaldar Mayuri	Assistant Professor
02	Miss. Patil Vishakha	Assistant Professor
03	Miss. Nalge Harshada	Assistant Professor
04	Shri Bhoiwad Amar	Lab Assistant
05	Shri Shyam Chochande	Peon
06	Beste Maheshwari	B.Sc. II
07	Momin Ayesha	B.Sc. II
08	Birle Aditi	B.Sc. II

09	Dalve Sachin	B.Sc. II
10	Jadhav Tanmay	B.Sc. III
11	Markole Amardeep	B.Sc. III
12	Kapse Prajka	B.Sc. III
13	Sontakke Samiksha	B.Sc. III
14	Ronge Saroja	B.Sc. III
15	Hallale Aditya	B.Sc. III
16	Sarge Bhagyshree	M.Sc. I
17	Birajdar Sneha	M.Sc. I
18	Deshmukh Suhani	M.Sc. I
19	Kalam Charushila	M.Sc. I
20	Modi Prajwal	M.Sc. II

We assure you that our students will strictly adhere to all safety protocols and discipline required during the visit. We look forward to your positive response and the specific date/time allotted for our visit.

Thanking you,

Sincerely yours,

Dr. Mahadev Gavhane

**PEDONAS**  
 Pimpri Chinchwad Education Trust  
 (Autonomous)