



Shri G.S. Institute of Technology and Science, Indore

Department of Mechanical Engineering

Date: 30-01-2020

Industrial Visit Report: Shakti Pumps (India) Limited, Pithampur (M.P.)

Date of Visit: January 25, 2020

Participants: 43 Mechanical Engineering Students

Introduction: On January 25, 2020, a group of 43 mechanical engineering students embarked on an industrial visit to Shakti Pumps in Pithampur. This visit aimed to provide students with valuable insights into various aspects of pump manufacturing, from raw material management to the final packaging and dispatch procedures.

Based on the industrial visit to Shakti Pumps (India) Limited, the following are the learning outcomes for the 43 mechanical engineering students:

1. Store Management and Material Handling:

- Understanding of effective store management systems, including color coding techniques for efficient material identification and retrieval.
- Appreciation for the importance of organized material handling in enhancing operational efficiency.

2. Pump Design Principles and Procedures:

- Comprehensive knowledge of the foundational principles and procedures involved in pump design.
- Familiarity with the role of System Analysis and Program (SAP) in optimizing pump systems for efficiency, reliability, and cost-effectiveness.

3. Manufacturing Practices and Automation:

- Exposure to various manufacturing techniques, including CNC machining and robotic welding systems.
- Understanding of how automation and precision are integrated into the manufacturing process to ensure product quality and consistency.

4. Material Selection and Component Quality Assurance:

- Knowledge of the materials used in pump construction, such as stainless steel for impellers and cast iron for casings.
- Understanding of the significance of rigorous quality checks at each stage of production to maintain component integrity and adherence to industry standards.

5. Pump Assembly and Integration:

- Insight into the systematic assembly of pump components and how individual parts come together to create a functional pump.

6. Testing and Quality Assurance:

- Familiarity with the rigorous testing procedures, including performance testing and quality checks, conducted on pumps to ensure compliance with specified standards.



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7. Packaging and Dispatch Procedures:

- Understanding of the procedures involved in safely packaging and dispatching pumps to customers.

8. Practical Application of Classroom Knowledge:

- Application of theoretical knowledge gained in the classroom to real-world engineering practices in the pump manufacturing industry.

9. Industry Exposure and Preparedness for Future Roles:

- Enhanced understanding of mechanical engineering concepts through direct exposure to industry practices.
- Better preparedness for future roles in the field of mechanical engineering, with insights into the entire lifecycle of pump manufacturing.

Overall, the industrial visit to Shakti Pumps provided the students with valuable hands-on experience and a deeper appreciation for the complexities of pump engineering. This exposure will undoubtedly contribute to their professional development and readiness for careers in the field of mechanical engineering.

Conclusion: The industrial visit to Shakti Pumps proved to be an enriching and educational experience for the 43 mechanical engineering students. They gained practical knowledge about the entire lifecycle of pump manufacturing, from raw material management and design to manufacturing, assembly, testing, and packaging. This first hand exposure to industry practices will undoubtedly enhance their understanding of mechanical engineering concepts and prepare them for future roles in the field.

We extend our gratitude to Shakti Pumps for generously hosting the visit and providing valuable insights into their operations.



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Department of Mechanical Engineering
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Attendance Sheet

S. No.	En. No.	Name of Student	mob. no.	Sign.
1	0801ME161014	Chandini Jawal	95891149037	
2	0801ME183D08	Hitendra Ku. Patta	9174574609	
3	0801ME183D05	Ashish Kumar Anwar	834944486	
4	0801ME183D10	Poojati Kuthil	7873220562	
5	0801ME173D06	Jayanti Silakay	9583082165	
6	0801ME183D11	SAPNA ARSIYA	7089187149	
7	0801ME171027	KAPIL JAIN	8959893620	
8	0801ME171052	SHREYANSH SHARMA	9340106548	
9	0801ME183D01	ADITI NAMDEO	7415494794	
10	0801ME171062	VINAYAK SINGH	9340687482	
11	0801ME171063	VINOD BAGESHWAR	9131659213	
12	0801ME171061	VIKASH MEENA	9752532524	
13	0801ME171064	JOGESH TUMDAM	8435179131	
14	0801ME171043	PRIYANSH JAIN	7000144550	
15	0801ME171042	PRATHMESH TIWARI	9669401930	
16	0801ME171039	PRADHYUM	9617379876	
17	0801ME171011	APURV GADRE	9826763119	
18	0801ME171002	ADITYA AGRAWAL	8776919884	
19	0801IP171052	SHOBHIT MAHAJAN	8966949601	
20	0801IP171060	YASH BAVISHAR	9479967254	
21	0801ME183D07	GAURAV TIWARI	9893573539	
22	0801ME171005	AMAY VERMA	9584208528	
23	0801ME171057	TEJAS ADANA	911286046	
24	0801ME171044	RAVI KHUYANI	8013048091	
25	0801ME171035	MOHD SAAD SIDDIQUI	8959610993	
26	0801ME171050	SHIVAM SHAH	7470619551	
27	0801ME171013	AVANI AGRWAL	9826200964	
28	0801ME171033	MITANSHU PAL	8962847654	
29	0801ME171028	KASHISH NEARVA	9131326799	
30	0801ME171036	NEKITA TEJWA	9425146450	
31	0801ME171020	DEVANSH MANOJAL	7999716299	
32	0801ME171032	Mogank Teretiya	8365993829	



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(33)	0801ME171048	SAURABH SONI	7869693393	Tab
(34)	0801ME171007	ANKIT SHRIVASTAVA	7509696153	Tab
(35)	0801ME171053	SUBODH DWIVEDI	9424565983	Tab
(36)	0801ME171047	SARAS TRIVALE	8085029818	Tab
37)	0801ME183D04	ASHISH JADIYA	8965027447	Tab
38)	0801ME183D09	INDRANOHAN LAL	7869852329	Tab
39)	0801ME183D06	AVINASH RAJAT	9794522609	Tab
40)	0801ME183D12	SHUBHAM SHAN	7109756882	Tab
41)	0801ME171059	VAIBHAV SIHARE	7771001087	Tab
42)	0801ME183D03	ANKIT CHOUHAN	7928973444	Tab
43)	0801ME18ME13	Samath Mishra	7000987606	Tab



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NOTE SHEET

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MECHANICAL ENGINEERING DEPARTMENT

30th January 2020

Subject:- Reimbursement of the expenditure for Industrial Visit to Shakti Pumps (India) Limited Sector-3, Pithampur, Dist. Dhar-454774 (M.P.) India on 25th January, 2020 (Saturday)

Through: Proper Channel

An Industrial visit was organized for student of our Institute to Shakti Pumps (India) Limited Sector-3, Pithampur on 25th January 2020 after permission and approval of Rs. 4500/- towards expenses. The details of actual expenses are as follows:-

S. No.	Description	Amount
1	Refreshment @ 60/- x 52 + GST+ Drinking water	3200/-
	Total	3200/-

It is requested to reimburse Rs. 3200/- (Rs. Three thousand two hundred only) paid towards the expenditure incurred.

*forwarded
Rajkumar
01/02/2020*

Anil Mulewa
Anil Mulewa
Ass. Prof. Mech. Engg. Dept.

Submitted to: - Director for approval pls.

- Encl. (1) Original Approval
(2) Reimbursement form
(3) Original receipt
(4) Student Attendance sheet



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MECHANICAL ENGINEERING DEPARTMENT

09th January 2020

Subject:- Institute Vehicle to Visit Shakti Pumps (India) Limited Sector-3, Pithampur, Dist. Dhar-454774 (M.P.) India on 25th January, 2020 (Saturday)

Through: HMED

A Technical visit is proposed for around 40-45 U.G. students of Mechanical Engineering on 25th January, 2020 (Saturday) at Shakti Pumps (India Limited) Sector-3, Pithampur, Dist. Dhar-454774 (M.P.) India. Shakti pumps is an India's leading manufacturer of stainless steel energy efficient submersible pumps in various sectors including agricultural, industrial, domestic and horticultural. Around 4-5 Faculty members shall also accompany to impart technical information to student and maintain the discipline.

It is requested to provide institute bus along with driver on 25th January, 2020 (Saturday) at the Shakti Pumps (India) Limited Sector-3, Pithampur.

Apart from the bus, it is also requested to approve an Rs. 100 / Person to meet the working expenses towards breakfast, lunch etc. for the student and faculty member going for the visit.

Through: TERIP Co-ordinator

26
21-2-2020

Forwarded & Recommended
Rajkumar
09/01/2020

Anil Mulewa
Ass. Prof. Mech. Engg. Dept.

Submitted to: - Director for approval pls.

Encl. (1) Mail Copy of Approval from Shakti Pumps

1. Bus to be hired from Institute Transport I/c.
 2. Rs. 4500/- may be approved on reimbursement basis.
- submitted for approval

Recd on
10/1/2020

Director

Approved as above

APB
10/1/2020

To
Head (Mechanical Engg)

U/D: Mr. Chakraborty, Mr. P. Gami, Prof. A. Atulker, Prof. Anil Mulewa, Prof. A. Mishra and Mr. Divyendra Joshi are permitted to accompany 14/1/2020
The student individual visit as per above schedule Rajkumar.