



Kalyani Charitable Trust's
Late G. N. Sapkal College of Engineering

Kalyani Hills, Anjaneri, Trimbakeshwar Road,
Nashik – 422 213

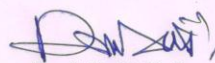


Department of Electrical Engineering

List of Industrial Visit (Academic Year 2023-24)

Academic Year	Class	Details of Organization Visited	Date	Ref. File No. (Original Report)
2023-24	SE, TE, BE	Shivananda Electronics, Gate No. 226, Deepak Mahal Lam Road, Deolali Camp, Nashik 422401	22 Sept 2023	File No. 3.5.1
	SE, TE, BE	Visionary Technologies, Nice MIDC, Satpur, Nashik	28 Oct 2023	File No. 3.5.1
	SE, TE, BE	M/S SETU ELECTRICALS, Gate no 293, A/P Dhakambe , Dindori Road Nashik	24 April 2024	File No. 3.5.1




Prof. R. N. Baji

Head of Electrical Department



Kalyanji Charitable Trust's

LATE G. N. SAPKAL COLLEGE OF ENGINEERING

(Accredited with Grade 'B' by NAAC)

Affiliated to > Savitribai Phule Pune University (ID. No. PU/NA/Engg./152/2009 Ref.No.-C/A/6501 Dated- 18/11/2009)

Approved by > A.I.C.T.E., New Delhi (F.N: 06/07/MS-Engg/2008/O-17, Dated- 11th June 2009)

> Govt. of Maharashtra (No. GEC-2009/(67/09)/T.E.- 4, Dated- 15th June 2009)

> D.T.E., M.S., Mumbai (No.2/NGC/Engg./Approval/2009/535, Dated - 23rd July 2009)

> AISHE CODE : C-42196

Dr. Sahebrao B. Bagal
M.E. (E & TC), Ph.D. (E & TC)
Principal



Dr. Ravindra G. Sapkal
Chairman & Managing Director
Kalyanji Charitable Trust

Date-22/04/2024

To,
Setu Electrical & Transformer.
At post Dhakambe, Industrial Area, Dindori road,
Nashik, Maharashtra 422004.

Sub- Requesting Permission for Industrial visit to your Industry.

Dear Sir,

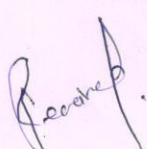
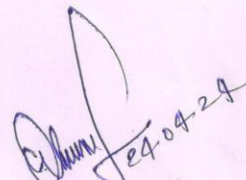
This is a request letter to seek your kind permission for an industrial visit to Setu Electrical & Transformer. As per our university norms, engineering students are expected to visit prominent industries and companies for an exposure to the latest trends. Consequently, the **Second Year, Third Year** students of **Electrical Engineering Department** of our college, desire to visit your organization.

At this juncture, it is a pleasure for me to introduce to you, our college and department on behalf of the students and faculty. Late G N Sapkal College of Engineering started in 2009 as one of the institutes of Sapkal Knowledge Hub affiliated to Savitribai Phule Pune University and approved by DTE, Mumbai & AICTE, New Delhi with NAAC B grade.

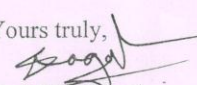
In the above background, we would like to send a batch of about **60 students** accompanied by **02 staff members** to visit at SETU Electricals & Transformer, on **24th April 2024**. The list of student and staff is attached to letter for your kind information. I request you, to kindly accord the necessary permission for the above visit and arrangement for guiding the students. We assure you that our students will observe the rules & regulations that are prescribed by Substation.

We shall be grateful for a favorable response.

Thanking You.



M/S. SETU ELECTRICAL
Govt. Electrical Contractor
Licence No.: 35566

Yours truly,


Prof. (Dr.) S.B. Bagal
Principal

- **CAMPUS** : Sapkal Knowledge Hub, Kalyanji Hills, Anjaneri-Wadholi, Trimbakeshwar Road, Nashik - 422 213. (India)
Tel.: + 91- 2594 - 220168/69/70 | Mob.: +91 9922252699 | Toll Free No.: 1800 233 2999 | **E-mail** : gns_engineering@sapkalknowledgehub.org
- **CORPORATE OFFICE** : Sapkal Knowledge Hub, 'Parag' 46, Ashwin Sector, Opp. Hotel Sai Palace, Mumbai-Agra Highway, Nashik - 422 009.
Tel.: +91 - 253 - 2392450 / 51 | **E-mail** : head.marketing@sapkalknowledgehub.org | **Website** : www.sapkalknowledgehub.org
- **MUMBAI OFFICE** : Sapkal Knowledge Hub, Unit No. 22, 1st Floor, Shubhada Tower Shopping Centre, Sir Pochkhanwala Road, Near R.T.O. Office, Worli, Mumbai - 400 030. Tel.: + 91 - 22 - 24938914 / 15 | **E-mail** : cmd@sapkalknowledgehub.org, ravi.sapkal@gmail.com



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Nashik - 422 212, Maharashtra State, India
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Website: www.sapkalknowledgehub.org;
E-mail: gns_engineering@sapkalknowled



ELECTRICAL ENGINEERING DEPARTMENT

Date: 22-04-2024

NOTICE

All **Second & Third** Students are hereby informed that your Industrial visit will be scheduled on **24 April 2024** at **Setu Electrical & Transformer**.

At post Dhakambe, Industrial Area, Dindori road, Nashik.

So all students should remain present 10:00 am at Collage campus.

Note:-1) All student should present with college uniform with I-card, shoes

2) It is mandatory for all students.



Prof. R. N. Baji
Head, Electrical Department



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ELECTRICAL ENGINEERING DEPARTMENT

-: A Report on Industrial visit: -

Title-

Industrial visit at Setu Electricals Transformers, At post Dhakambe, Industrial area, Dindori road, Nashik, Dist.-Nashik.

❖ Objectives of Visit-

- i) To understand knowledge of transformer working.
- ii) To Understand installation of transformer, parts of transformer, design of transformer, testing of transformer, etc

❖ Overview of visit-

Subject- Computer Aided Design of Electrical machines & Electrical Machine-I

Class & Division- SE & TE Electrical Engg.

No of students- 36

Day & Date- Wednesday, 24th April 2024

❖ Name & Address of Industry -

Setu Electricals & Transformers, At post Dhakambe, Industrial area, Dindori road, Nashik, Dist-Nashik

❖ Industry Information-

This Setu Electricals situated at Setu Electricals & Transformers, At post Dhakambe, Industrial area, Dindori road, Nashik, Dist.-Nashik.

About the Visit:

- ❖ This visit was arranged as per the university syllabus for the S.E. & T.E. Electrical under the subject of Electrical Machine-I & Computer Aided Design of Electrical machines. This visit was very helpful to the students for the understanding the construction, working & design of Electrical transformer, Current transformer & Potential transform.



❖ Points Studied in details-

GENERAL FABRICATION STRUCTURE

Meeting the ever increasing demand of Steel structure, we, at Setu Electricals & Transformers Industries are pleased to offer an exclusive gamut of Hot Dip Galvanized and fabricated steel structures for electrical and other infrastructures. We offer structures from standard to customized specification requirements in all shapes, sizes and dimensions.

- High load bearing capacity
- Long life and reliability

We are the leading Supplier and Manufacturer of Transformer Fabrication Services such as MS Transformer Tank Fabrication, Transformer Surface Treatment and Transformer Surface Coating from Nashik. Owing to the expertise of our professionals, we are betrothed in offering Transformer Fabrication Service. Our proficient professionals offer these services by using advanced technology in line with industry norms. Furthermore, we render these services to our clients as per their demands in different specifications. Customers can avail these services from us at industry leading prices.

TRANSFOMER MAINTENANCE

Nashik Transformer Industries performs interventions of maintenance and electrical repair on transformers, from the replacement of damaged parts to the renovation of the electrical component. Furthermore, Nashik Transformer Industries provide on-site maintenance on transformers in medium and high voltage. Maintenance can be counted on to maintain the performance quality, reliability and life of the transformers throughout your electric power system by providing complete transformer service solutions.

TRANSFOMER INSTALLATIONS

With a complete understanding of the domain, we are involved in providing Power Transformer & Distribution Transformer Installation Services. These services are rendered by our prestigious clients using the latest technologies and optimum quality transformers that are procured from the most reliable vendors of the market. on In Installation transformers of medium and large coreform design, from the smallest Padmount, to the largest Generator Step-Up with full security, quality and caution.



TRANSFORMER REPAIRS

Transformers are among the expensive assets used by industries in an electrical system. Usually replacement of transformer costs more than transformers repairing services. To compensate the cost, manufacturers bring the option of remanufacturing or restoring the transformers. Repair consists of Portable Fault Gas Detector provides a sensitive and effective means for detecting faults in electrical transformers having gas space above the insulating oil.

POWER TRANSFORMER

A power transformer is characterized by inner and outer low voltage winding sections and a high voltage winding section disposed there between. The low voltage windings are comprised of a plurality of pancake coils, and the high voltage winding are comprised of a plurality of conductor strands spirally wound for a plurality of coil layers. A Power transformer is an electrical device that transfers energy between two or more circuits through electromagnetic induction. The low and high voltage winding sections are laterally spaced with the low voltage windings disposed in side-by-side positions and adjacent to the high voltage windings. The high voltage windings have a smaller turn height than the low voltage windings and have conductor strands of smaller gauge than the pancake coils of the low voltage windings.

PRODUCT RANGE:

25KVA to 2000KVA (11,22,&33/0.433KV)

Our all range of various products are tested and approved by ERDA Baroda (NABL APPROVED LABORATORY

APPLICATIONS:

Chemical, Pharmaceuticals, Steel, Textile, Engineering, Plastic, Cement, Refineries, Mining, Captive Power Projects, Hydro Power Projects, Wind Mill Farms, Construction Houses, Pharma, Electrical, Electronics, Renewable Energy, Automobile. A Power transformer is an electrical device that transfers energy between two or more circuits through electromagnetic induction.

FEATURES:

- Power Transformer gives Better distribution of power
- Better distribution of power
- Health & safety engineered into products
- Integrated monitoring & control solutions including smart cooling
- High fire point environmental fluid if beneficial
- Less maintenance



DISTRIBUTION TRANSFORMER

A distribution transformer is a transformer that provides the final voltage transformation in the electric power distribution system, stepping down the voltage used in the distribution lines to the level used by the customer. If mounted on a utility pole, they are called pole-mount transformers. If the distribution lines are located at ground level or underground, distribution transformers are mounted on concrete pads and locked in steel cases, thus known as pad-mount transformers. Distribution transformers normally have ratings up to 200 kVA, although some national standards can describe units up to 5000 kVA as distribution transformers. Since distribution transformers are energized for 24 hours a day (even when they don't carry any load), reducing iron losses has an important role in their design. As they usually don't operate at full load, they are designed to have maximum efficiency at lower loads. To have a better efficiency, voltage regulation in these transformers should be kept to a minimum. Hence they are designed to have small leakage reactance.

PRODUCT RANGE:

25KVA to 2000KVA (11, 22, & 33/0.433KV)

Our all range of various products are tested and approved by ERDA Baroda (NABL APPROVED LABORATORY).

APPLICATIONS:

Chemical, Pharmaceuticals, Steel, Textile, Engineering, Plastic, Cement, Refineries, Mining, Captive Power Projects, Hydro Power Projects, Wind Mill Farms, Construction Houses, Pharma, Electrical, Electronics, Renewable Energy, Automobile. A Power transformer is an electrical device that transfers energy between two or more circuits through electromagnetic induction.

FEATURES:

- Primary and secondary terminals or studs
- Steps down the high voltage to low voltage
- Tin-plated high and low voltage bushing terminals to accommodate aluminum or copper conductors.
- Robust construction having excellent short circuit and thermal withstand capabilities.
- Proven technology, effectively improving the quality and reliability of the electrical distribution system.
- Reduced Life cycle costs



❖ Photo of Visit



Photo 1: Industrial visit at Setu Electricals & Transformers Industries



Photo 2: Students understanding theory vs Practical knowledge about transformer in Industry



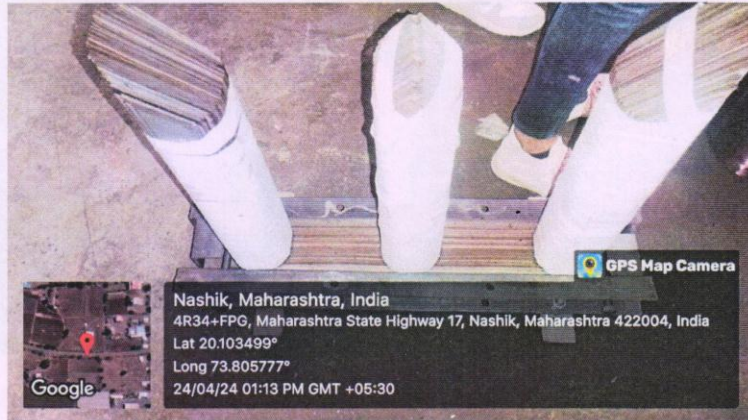


Photo 3: Types of Core Assembly

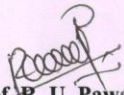


Photo 4: Transformer winding Filling

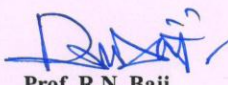





Photo 5: Explanation of Transformer types


Prof. R. U. Pawar
 Industrial Visit Coordinator



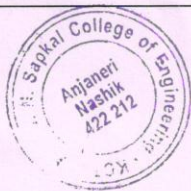

Prof. R.N. Baji
 Head of Electrical Department



Prof. (Dr.) S. B. Bagal
 Principal

Date:-

Department of Electrical Engineering
Industrial Visit-Setu Electricals & Transformers

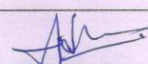
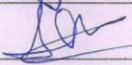
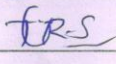


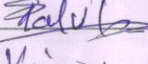
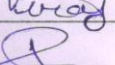

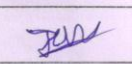


Sr.No	Name of Student	Class	Sign
1	Lagad Shubham Vishwanath	SE	
2	Gamne Shweta Balu	SE	
3	Nandker Shweta Atul	SE	
4	Ashwini Bapu Borse	TE	
5	Sagar Ram Singh Girase	SE	
6	Punam Manohar Bhamare	SE	
7	Neha Vinod Rayate	SE	
8	Anushka Dadasaheb Madke	SE	
9	Raundal Darshoni Dinesh	SE	
10	Ahire Krushali Kiran	SE	
11	Pandeyi Sejal Vinayak	SE	
12	Patwar Pragati Shashikant	SE	
13	Sakshi Bhausaheb Wagh	SE	
14	Shewale Rutuja Pravin	SE	
15	Kheirnar Rohit Manohar	SE	
16	Bhanu Manas	SE	
17	Katkar Shubham Bharsat	SE	
18	Kotkar Sujal Subish	SE	
19	Dondhaye Bhushan madhukar	SE	



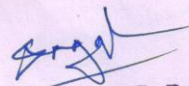

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Anjaneri, Nashik-422 213.

Date:-

Department of Electrical Engineering
Industrial Visit-Setu Electricals & Transformers

Sr.No	Name of Student	Class	Sign
1	Aditya A. Jadhav	S.E	
2	Devang Mehetre	S.E	
3	Tanmay Janer	SE	
4	Nikhil Rajendra Akole	SE	
5	Mayur Bhurtt Sathpute	SE	
6	Saurabh D. Palvi	T.E	
7	Vinay Bhambar	T.G	
8	Pranjal Ramnath Gada	T.G	
9	Ganesh K. Bhavsarkar	SE	
10	Jayesh S. Chavan	SE	
11	Yash K. Pawar	SE	
12			
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Website: www.sapkalknowledgehub.org E-mail: gns_engineering@sapkalknowledgehub.com



Department of Electrical Engineering

VISIT FEEDBACK FORM

We would appreciate if you could take a few minutes to share your opinion with us for further improvement in conduction of visit.

Title / Aim: Lagad Shubham Vishwanth

Place of Visit: Setu Transformer, Dindori

Class: - SE

Date: - 24/04/2024 Time: - 1:30

- | | | | | |
|---|-----|-------------------------------------|----|--------------------------|
| 1. Is the Visit applicable to relevant field | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| 2. Is visit programme well placed within time | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| 3. The Instructor was familiar to topic | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| 4. Is time allotted for visit sufficient? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| 5. Did the visit add any value in your knowledge? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |

Any suggestion: —



Name of Student: Lagad Shubham

Sign: - SV Lagad



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Department of Electrical Engineering

VISIT FEEDBACK FORM

We would appreciate if you could take a few minutes to share your opinion with us for further improvement in conduction of visit.

Title / Aim: Industrial Visit

Place of Visit: Setu Transformer

Class: - SE

Date: - 24-April-2024 Time: - 2:00

- | | | | | |
|--|-----|-------------------------------------|----|--------------------------|
| 1. Is the Visit applicable to relevant field | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| 2. Is visit programme well placed within time | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| 3. The Instructor was familiar to topic | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| 4. Is time allotted for visit sufficient? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| Did the visit add any value in your knowledge? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |

Any suggestion: NO



Name of Student: Shubha Balu Gamre

Sign: - Shubha



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Department of Electrical Engineering

VISIT FEEDBACK FORM

We would appreciate if you could take a few minutes to share your opinion with us for further improvement in conduction of visit.

Title / Aim: Pawat Pragati Shashikant

Place of Visit: Setu Electrical, Dindori

Class: - SE

Date: - 24/04/2024 Time:- 1:35

- | | | | | |
|--|-----|-------------------------------------|----|--------------------------|
| 1. Is the Visit applicable to relevant field | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| 2. Is visit programme well placed within time | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| 3. The Instructor was familiar to topic | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| 4. Is time allotted for visit sufficient? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| Did the visit add any value in your knowledge? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |

Any suggestion: _____



Name of Student: Pawat Pragati S

Sign:-

Pragati



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Department of Electrical Engineering

VISIT FEEDBACK FORM

We would appreciate if you could take a few minutes to share your opinion with us for further improvement in conduction of visit.

Title / Aim: Industrial Visit

Place of Visit: Setu transformers

Class: -

Date: -

Time:-

- | | | | | |
|--|-----|-------------------------------------|----|--------------------------|
| 1. Is the Visit applicable to relevant field | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| 2. Is visit programme well placed within time | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
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| 4. Is time allotted for visit sufficient? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| Did the visit add any value in your knowledge? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |

Any suggestion: Nil



Name of Student: Shamre Manu

Sign:-

Manu