



Kalyanii 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.-CA/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
Kalyanii Charitable Trust

MEMORANDUM OF UNDERSTANDING BETWEEN

Department of Electrical Engineering

Kalyani Charitable Trust's

Late G N Sapkal College of Engineering

Anjaneri, Nashik -422213 (MS), India. .

&

M/s Setu Electricals

Gate no 293, A/P Dhakambe

Dindori Road, Nashik

This Memorandum of Understanding (MoU) is entered into as on 20.04.2022, by and between the Late G N Sapkal College of Engineering Nashik (MS), India and M/S Setu Electricals, Gate No 293, A/P Dhakambe, Dindori Road, Nashik.

The Late G N Sapkal College of Engineering is established in the year 2009 under aegis of Kalyani Charitable Trust's, Mumbai with approval of AICTE and DTE, Government of Maharashtra. The Institute is affiliated to Savitribai Phule. The Late G N Sapkal College of Engineering is committed to serve common masses by disseminating engineering education.

M/s Setu Electricals is a service provider firm for maintenance of All types of transformers. Where rewinding as well as routine maintenance for transformer is carried out.

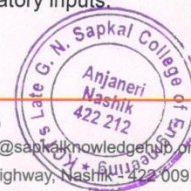
The partners have entered into this MoU because they:

- ✓ RECOGNIZE the mutual interest in the field of industrial training, development and dissemination of knowledge.
- ✓ RECOGNIZE the importance of Industry Institute interaction activity for engineering students.
- ✓ RECOGNIZE the importance of the Industry Partner within its field of expertise.
- ✓ To provide an opportunity to most eligible students for professional work experience through employment, if possible.

This MoU will enable the parties to:

- > FOSTER technical education at undergraduate and post graduate level to make the students, industry ready.
- ✓ STRENGTHEN the theoretical knowledge in industrial practices. An exposure to industrial environment brings about attitudinal change in the students by inculcating managerial principles which cannot be effectively imparted through classroom or laboratory inputs.

- **CAMPUS** : Sapkal Knowledge Hub, Kalyanii 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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Dr. Sahebrao B. Bagal
M.E. (E & TC), Ph.D. (E & TC)
Principal



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

- ✓ PROVIDE In-plant training to Late G N Sapkal College of Engineering students.
- ✓ PROVIDE Industry related project to Late G N Sapkal College of Engineering students and an opportunity to learn recent industry practices.
- ✓ ALLOW the Late G N Sapkal College of Engineering Students for industrial visits to enhance the subject related knowledge.
- ✓ EXPLORE any opportunity of campus placement for Late G N Sapkal College of Engineering students.
- ✓ This MOU is signed only in the interest of helping & guiding the Late G N Sapkal College of Engineering students in various development activities & Nasik Transformer Industries will not responsible for any other act of the student of whatsoever kind.
- ✓ To provide an opportunity to most eligible students for professional work experience through employment, if possible.
- ✓ This MOU is valid for 3 Years.

The parties hereby agree to establish collaboration according to terms and conditions set out by Late G N Sapkal College of Engineering and M/S Setu Electricals, Dindori Road, Dist. Nasik.

Kalyanil Charitable Trust's Late G N Sapkal College of Engineering Anjaneri Nasik (MS), India	M/S Setu Electricals, Gate No 293, A/P Dhakambe, Dindori Road, Nasik.
Signed by: Dr S B Bagal, Principal	Signed by: Mr. Dhatrak K.B.
Signature:	Signature:
Witness Signature: Prof. R N Baji HOD, Electrical Dept.	
Date: 20.04.2022	Date: 20.04.2022
Office Seal:	Office Seal:

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Late G. N. Sapkal College of Engineering

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Nashik - 422 212, Maharashtra State, India
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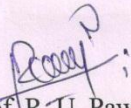


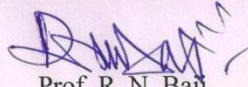
ELECTRICAL ENGINEERING DEPARTMENT

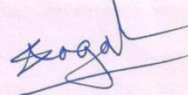
NOTICE

Date: 26-04-2023

All Second, Third & Final Year Students are hereby informed that department has organized Industrial visit at "**Setu Electrical & Transformers**" At post Dhakambe, Industrial Area, Dindori road, Nashik on **27 April 2023 at 2:00 pm**. All students should compulsory remain present 15 minute before the visit at company gate with proper college uniform, ID card & Shoes. A Strict action will be taken for those who were absent.


Prof. R. U. Pawar
Industrial Visit i/c


Prof. R. N. Baji
HoD


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





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LATE G. N. SAPKAL COLLEGE OF ENGINEERING

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ELECTRICAL ENGINEERING DEPARTMENT

-: A Report on Industrial visit: -

- ❖ **Title-** Industrial visit at Setu Electricals situated 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 & Switchgear & Protection
Class & Division- TE & BE Electrical Engg.
No of students- 42
Day & Date-Thursday, 27 April 2023
- ❖ **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



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

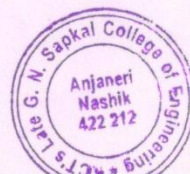
We are the leading Supplier and Manufacturer of Transformer Fabrication Services such as MS Transformer Tank Fabrication, Transformer Surface Treatment and Transformer Surface Coating from Nashik. Owing to the expertise of our professionals, we are betrothed in offering Transformer Fabrication Service. 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)

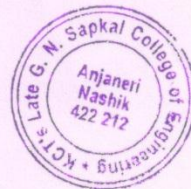
Our all range of various products are tested and approved by ERDA Baroda (NABL APPROVED LABORATORY).

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

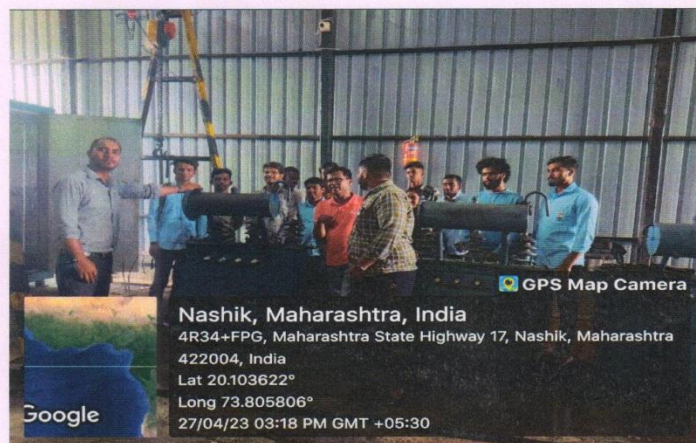


Photo 2: Students understanding theory vs Practical knowledge about transformer in Industry



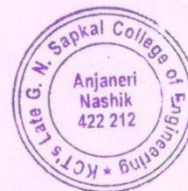


Photo 5: Types of Core Assembly

Prof. P. R. Gajare
 Industrial Visit Coordinator
 Department

Prof. R.N. Baji
 Head of Electrical

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





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Electrical Engineering Department

Date 27.04.23

Industrial Visit at Setu Electricals, Dindori Road, Nasik

Sr. no.	Name of Students	Sign	Sr. no.	Name of Students	Sign
1	Bhandare Pratik		21	Nikam Anant	
2	Bhoi Shubham		22	Patil Haashdeep	
3	Bisani Sanket		23	Pawar Sanbeep	
4	Bokad Dipali		24	Satbhaj Rushikesh	
5	Borde Devdatta		25	Hiwale Sumket	
6	Chalse Prashant		26	Yeole Shubham	
7	Chide Suyash		27	Sayyed Saif	
8	Kale Darshan		28	Borse Ashwini	
9	Deore Ritesh		29	Jadhav Darshan	
10	Grangurde Rushikesh		30	Hire Vishal	
11	Gite Nikil		31	Potdar Pooanav	
12	Gore Pallavi		32	Shewale Aditya	
13	Gosavi Tanmay		33	Zole Mahesh	
14	Jagdale Anil		34	Mali Yash	
15	Kalunkhe Aniket		35	Aher Mahesh	
16	Khairnar Prasad		36	Patil Anuj	
17	Shirsath Kunal		37	Barhe Kiran	
18	Khohade Tejaswini		38	Halde Shivani	
19	Dangare Mahesh		39	Kulkarni Saurabh	
20	Narkhede Poonam		40	Kakad Nikhil	

Visit Coordinator



HOD