

LETTER OF AGREEMENT

between

Department of Electrical Engineering
KCT's Late G N Sapkal College of Engineering
Anjaneri, Trimbakeshwar Road,
Nashik – 422401

and

Nashik Transformer Industries,
F-43, MIDC Satpur
Dist- Nashik

OBJECTIVES OF THE LINKAGE

The intent of this institute-industry linkage is to bring the industry and academia closer for following purposes:

- Integration of industrial visits for enhancing learning outcomes.
- Initiation of Industrial trainings for experiential learnings.
- To expose the students to the realistic expectations and experiences relevant to the kinds of challenges and responsibilities they will encounter in their prospective career.
- To develop a symbiotic relationship with one another for sharing available infrastructures and facilities.
- To forecast the technical manpower required for the industry and have deliberations regarding preparedness of skilled manpower in the institute as industrial workforce.
- To train and update knowledge of stakeholders from either side through exchange programs.
- To undertake joint Research and Development activities.

ACTIVITIES TO BE CONDUCTED

The **Department of Electrical Engineering & Nashik Transformer Industries** hereby agree to cooperate through joint activities like Internship / Field Trip / On the Job Training / Research Projects / Student Exchange / Faculty Exchange for the benefit of students, faculty and industry.

DURATION

Both the parties will organize above activities from 06/01/2020 to 05/01/2022


Prof. Dr. S. B. Bagal
Principal,
Late G. N. Sapkal College of Engineering





Mr. Subham Dhondge
Managing Director,
Nashik Transformer Industries



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)/TE - 4 Dated- 15th June 2009
D.T.E., M.S., Mumbai (No.2/NGC/Engg./Approval/2009/535, Dated - 23rd July 2009)

MEMORANDUM OF UNDERSTANDING BETWEEN

**Department of Electrical Engineering
Kalyani Charitable Trust's
Late G N Sapkal College of Engineering
Anjaneri, Nasik -422213 (MS), India.
&
Nasik Transformer Industries,
F-43, MIDC Satpur, Nasik**

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 Nasik Transformer Industries Nasik.

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.

Nasik Transformer Industries are pleased to introduce as an ISO 9001:2015 Certified manufacturer of Power Transformers, Distribution Transformer, LT/HT Fabrications at MIDC, Nashik, exploring entire India. We adopt advanced technology to maintain consistency in product quality. Every batch of product is subjected to series of tests to ensure that they correspond to International standards.

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.
- ✓
- ✓ PROVIDE In-plant training to Late G N Sapkal College of Engineering students.





Kalyani 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)

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> AISHE CODE : C-42196

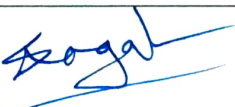






Dr. Ravindra G. Sapkal
Chairman & Managing Director
Kalyani Charitable Trust

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

- ✓ 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 Nasik Transformer Industries, Nasik.

Kalyani Charitable Trust's Late G N Sapkal College of Engineering Anjaneri Nasik (MS), India	Nasik Transformer Industries, Nasik
Signed by: Dr S B Bagal, Principal	Signed by: Mr. Rushikesh Sukdev Patharkar
Signature: 	Signature: 
Witness Signature Prof. R N Baji HOD, Electrical Dept. 	
Date : 20.04.2022	Date : 20.04.2022
Office Seal : 	Office Seal : 

- **CAMPUS :** Sapkal Knowledge Hub, Kalyani 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



Kalyani Charitable Trust's

LATE G. N. SAPKAL COLLEGE OF ENGINEERING

Sapkal Knowledge Hub, Kalyani Hills, Anjaneri, Trimbakeshwar Road, Nashik - 422 213. (India)

Tel.: + 91 - 2594 - 220168/69/70, Fax: + 91 - 2594 - 220174

E-mail : gns_engineering@sapkalknowledgehub.org | www.sapkalknowledgehub.org



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Ref: KCT's / LIB / LGNSCOE / 2022-23 / 53

Date-14/03/2023

To,
Director,
Nashik Transformer,
F-43, MIDC, Satpur, Nashik, Maharashtra-422007

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 Nashik 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.

In the above background, we would like to send a batch of about **60 students** accompanied by **02 staff members** to visit substation at Nashik Transformer, on **3rd Week of March 2023**. 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 arrange 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.



*Received
Anjaneri*



*permission granted to 23/03/23
for visit.*

9923602385

Anjaneri

Yours truly,

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



CORPORATE OFFICE : Sapkal Knowledge Hub 'Parag' 46, Ashwin Sector, Opp. Hotel Sai Palace, Mumbai-Agra Highway, Nashik - 422 009. Tel.: +91 - 253 - 2392450 / 51 Fax: +91 - 253 - 2375557.


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 / 24938915, Fax: + 91 -22-24938919.

ELECTRICAL ENGINEERING DEPARTMENT


NOTICE

Date: 21-03-2023


All Second & Third Year Students are hereby informed that department has organized Industrial visit at "Nashik Transformers" At post Satpur, Nashik on **23 March 2023 at 11:00 AM**. 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



ELECTRICAL ENGINEERING DEPARTMENT

-: A Report on Industrial visit: -

- ❖ **Title-** Industrial visit at Nashik Transformer Industries,
Satpur, 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- Electrical Machines-1, Computer Aided Design of Electrical machines
Class & Division- SE & TE Electrical Engg.
No of students- 42
Day & Date-Thursday, 23rd March 2023

- ❖ **Name & Address of Industry -** Nashik Transformer Industries, Satpur.
Dist-Nashik

- ❖ **Industry Information-** This Nashik Transformer Industries situated at Satpur MIDC
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 Nashik Transformer 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.

❖ Points Studied in details-

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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.



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:

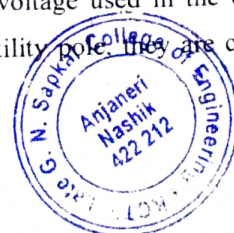
Chemical, Pharmaceuticals, Steel, Textile, Engineering, Plastic, Cement, Refineries, Mining, Captive Power Projects, Hydro Power Projects, Wind Mill Farms, Construction Houses, Pharma, Electrical, Electronics, Renewable Energy, Automobile. A Power transformer is an electrical device that transfers energy 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 3: Understanding of Transformer Core & Winding Assembly to the students



Photo 4: Mr. Shubham Dhondage, Director, NTI explaining of Transformer Winding Assembly to SE & TE Students



❖ Photo of Visit



Photo 1: Industrial visit at Nashik Transformer Industries



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





Photo 5: Types of Core Assembly

Prof. R. U. Pawar
Industrial Visit Coordinator

Prof. R.N. Baji
Head of Electrical Department

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



Date: 23March 2023

To
Principal,
Late G. N. Sapkal College of Engg.
Anjaneri, Nashik

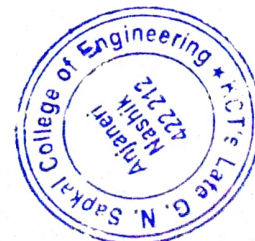
This is to certify that Second Year, Third Year & Final Electrical Engineering students of Late G. N. Sapkal College of Engineering along with 2 faculty members have visited Nashik Transformer Industries, Satpur, Nashik on 23 March 2023 between 10 am to 5 pm. During the visit they have seen Distribution transformer assembly and manufacturing etc.

Thanking you.



From
[Signature]
27/03/2023.

Authorized Signatory





KALYANI CHARITABLE TRUST'S

LATE G. N. SAPKAL COLLEGE OF ENGINEERING

Kalyani Hills, Anjaneri-Vadholi, Trimbakeshwar Road, Dist: Nashik - 422 212 (India)

Tel.: +91 - 2594 - 220168-71. Fax: +91 - 2594 - 220174

Website: www.sapkalknowledgehub.org, E-mail: gns_engineering@sapkalknowledgehub.com

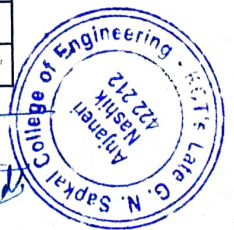


Department of Electrical Engineering

Attendance sheet

industrial visit at "Nasik Transformers" on 23.03.2023

Sr.No	Name of Student	Class	Sign
1	Pratik Bhandare	B.E	Pratik
2	Tejalwini Kuchade	BE	Tejalwini
3	Pallavi Gore	BE	Pallavi
4	Prashant Chalse	BE	Prashant
5	Ritesh Deore	BE	Ritesh
6	Aditya Dhansate	TE	Aditya
7	Kiran Bhara	TE	Kiran
8	Amit Tarware	TE	Amit
9	Haril Haridheep D	B.E	Haril
10	Nikhil Kalyan	T.E	Nikhil
11	Siddhesh Sindhikar	T.E	Siddhesh
12	Gawali Khushabu	T.E	Gawali
13	Saurabh Kulkarni	T.E	Saurabh
14	Sivani Shivani Halde	T.E	Sivani
15	Tejas D. Suryawanshi	T.E	Tejas
16	Tejas T. Jadhav	T.E	Tejas
17	Nikhil T. Kulkarni	T.E	
18	Omkar S. Wadwale	T.E	Omkar
19	Nilesh R. Shejwal	T.E	Nilesh
20	Sankat M. Birajji	BE	Sankat
21	Rushikesh D Sawant	BE	Rushikesh
22	Aniket S Kalukhe	BE	Aniket
23	Dipali Bakod	BE	Dipali
24	Mahendra Zole	TE	Mahendra
25	Rushikesh Sathkar	BE	Rushikesh
26	Parth Vidhate	BE	Parth
27	Nikhil Gite	BE	Nikhil
28	Ketan Suryawanshi	TE	Ketan
29	MAHESH Danganre	BE	MAHESH
30	Sandeep Pawar	BE	Sandeep
31	Yash J. Mali	TE	Yash
32	Aditya Chaudhari	TE	Aditya
33	Shubham Karandikar	TE	Shubham
34	Shubham Peole	BE	Shubham





KALYANI CHARITABLE TRUST'S
LATE G. N. SAPKAL COLLEGE OF ENGINEERING



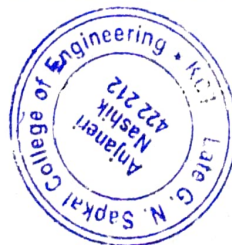
Kalyani Hills, Anjaneri-Vadholi, Trimbakeshwar Road, Dist: Nashik, 422 212 (India)
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Website: www.sapkalknowledgehub.org, E-mail: gns_engineering@sapkalknowledgehub.com

Department of Electrical Engineering

Attendance sheet

industrial visit at "Nasik Transformers" on 23.03.2023

Sr.No	Name of Student	Class	Sign
1	Shubham Joste	BE	
2	Dyukale mahesh	TE	
3	Shubham Karaband	TE	
4	Aditya S. Chaudhari	TE	
5	Yash K. Molie	TE	
6	Rohit B. Alhat	TE	
7	Darshana Dinesh Jadhav	SE	
8	Ashwini Bapu Borse	SE	
9	Shreyas S. Gisi	SE	
10	Kaustabh V. Waykol	TF	
11	Shubham Bhoil	BE	
12	Saif Sayyed	BE	
13	Pranav Khairnar	BE	
14	Suyash Chitole	BE	
15	AHER, MAHESH S.	TE	
16	Rohit Jitendra Sawant	TE	
17	Nikam Anant Shiva ji	BE	
18	Chandrakala A. Patil	TE	
19	Samudhik K. Sawant	TE	
20	Sandesh R. Jadhav	SE	
21	Pranav V. Potdar	SE	
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ELECTRICAL ENGINEERING DEPARTMENT

NOTICE

Date: 23-04-2022

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Prof.P.R.Gajare
Industrial Visit i/c



Prof. R. N. Baji
HoD



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Principal





ELECTRICAL ENGINEERING DEPARTMENT

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 - i) To understand knowledge of transformer working.
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- ❖ **Overview of visit-** **Under the** Subject- Electrical Machine-1 & Computer Aided Design of Electrical machines
Class & Division- SE & TE Electrical Engg.
No of students- 35
Day & Date-Monday, 25th April 2022

- ❖ **Name & Address of Industry -** Nashik Transformer Industries, Satpur.
Dist-Nashik

- ❖ **Industry Information-** This Nashik Transformer Industries situated at Satpur MIDC
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About the Visit:

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❖ Points Studied in details-

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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)

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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 Nashik Transformer Industries



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





Photo 3: Understanding of Transformer Core & Winding Assembly to the students



Photo 4: Types of Core Assembly

Prof. P. R. Gajare
Industrial Visit Coordinator

Prof. R.N. Baji
Head of Electrical Department

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



Electrical Engineering Department

Date: 25.04.2022

Industrial Vist at Nasik Transformers, Satpur , Nasik

Sr. no.	Name of Students	Sign	Sr. no.	Name of Students	Sign
1.	Athar Rohit Balasaheb	Rohit	21	shivade ganesh	Ganesh
2.	Barhe Kiran Jayram	Kiran	22	kakad Nikhil	Nikhil
3.	Bhagat Satish Laxman	Satish	23	shivani Halde	Shivani
4.	Bhawar Prem Rohidas	B.P.R	24	Wlaykole Kaustubh	Kaustubh
5.	Bhoye Pranali Balwant	Pranali	25	Sonawane Rohit	Rohit
6.	Mali vaibhav K	Vaibhav	26	Karaband shubham	Shubham
7.	Chaudhari Aditya Sanjay	Aditya	27	Mahesh Aher.	Mahesh
8.	Mali YASH	Yash	28	Sonawane Samruddhi	Samruddhi
9.	Patil Gitesh	Gitesh	29	Nirbhawane Dinesh	Dinesh
10	Chavan Yogesh Avinash	Chavan	30	ketan Saheb rao	Ketan
11	Tarware Amit	Amit	31	wadwale omkar	Omkar
12	Dhanwate Aditya	Aditya	32	kulkarni Saurabh	Saurabh
13	Sinchi kar Siddhesh	Sid	33	zole mahendra	Mahesh
14	Rajput karansing	Rajput	34	Mahajan Vipul.	Vipul
15	Dukale Mahesh	D.Mahesh	35	Rautmale Chandrakala	Chandrakala
16	sathe Tejas	Tejas			
17	Gravali Khushabu	Khushabu			
18	Suryaranshi Tejas	Tejas			
19	Gite Tejas	Tejas			
20	shejal Nilesh	Nilesh			


Visit Coordinator


HOD





Kalyani Charitable Trust's

LATE G. N. SAPKAL COLLEGE OF ENGINEERING

Sapkal Knowledge Hub, Kalyani Hills, Anjaneri, Trimbakeshwar Road, Nashik - 422 213 (India)

Tel. + 91 - 2594 - 220168/69/70, Fax: + 91 - 2594 - 220174

E-mail: gns_engineering@sapkaiknowledgehub.org | www.sapkaiknowledgehub.org



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)

Ref: KCT'S/LGNSCOE/2019-20/ 599

Date: 24-01-2020

To,
Mr. Shubham Dhondge,
Managing Director,
Nashik Transformer Industries,
F-43, MIDC, Satpur,
Nashik,

Sub- Requesting permission for Industrial visit at Nashik Transformer Industries

Dear Sir,

This is a request to seek your kind permission for Industrial visit in your esteemed organization. As per our university norms, engineering students are expected to visit prominent industries and companies for an exposure to the latest trends. Consequently, **SE and TE students of the 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 with four branches that are Mechanical, Civil, Computer and Electronics & telecommunication & Electrical Engg Branch Started in 2013 as one of the reputed institute in Nasik, Maharashtra & a Part of "SAPKAL KNOWLEDGE HUB" affiliated to Savitribai Phule Pune university and approved by DTE, Mumbai & AICTE, New Delhi and for more information you can refer our site i.e. www.sapkaiknowledgehub.org/lgnscoe. With Reference to above mention subject, we would like to send a batch of 60 students accompanied by 03 staff members to **Nashik Transformer Industries on 29th January, 2020**. The list of student and staff is attached to letter for your kind information.

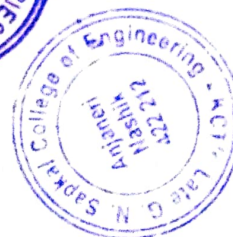
I request you, to kindly accord the necessary permission for the above visit and arrange your staff for guiding the students. We assure you that our students will observe the rules & regulations that are prescribed by your organization.

We shall be grateful for a favorable response.

Thanking You.

*Received & Connected
on 29/01/2020*

*Authorized
Jydevr Vaidande.*



Yours truly,

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



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

Sapkal Knowledge Hub, Kalyani Hills, Anjaneri, Trimbakeshwar Road,
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Tel: +91-2594-220168/71; Fax: +91-2594-220174
Website: www.sapkalknowledgehub.org;
E-mail: gns_engineering@sapkalknowled




ELECTRICAL ENGINEERING DEPARTMENT


NOTICE

Date: 27-01-2020

All Second & Third Year Students are hereby informed that department has organized Industrial visit at "**Nashik Transformers**" At post Satpur, Nashik on **29 January 2020 at 11:00 AM**. 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. N. W. Hadpe
Industrial Visit i/c


Prof. R. N. Baji
HoD


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





KALYANI CHARITABLE TRUST'S
LATE G. N. SAPKAL COLLEGE OF ENGINEERING

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ELECTRICAL ENGINEERING DEPARTMENT

SEM-II A.Y.2019-20

-: A Report on Industrial visit: -

- ❖ **Title-** Industrial visit at Nashik Transformer Industries,
Satpur, 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- Electrical Machines-I, Design of Electrical machines
Class & Division- SE & TE Electrical Engg.
No of students- 39
Day & Date-Wednesday, 29th January 2020

- ❖ **Name & Address of Industry -** Nashik Transformer Industries, Satpur.
Dist-Nashik

- ❖ **Industry Information-** This Nashik Transformer Industries situated at Satpur MIDC
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 & 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 Nashik Transformer 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.

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❖ Photo of Visit



Photo 1: Industrial visit at Nashik Transformer Industries



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





Photo 3: Understanding of Transformer Core & Winding Assembly to the students



Photo 4: Mr. Shubham Dhondage, Director, NTI explaining of Transformer Winding Assembly to SE & TE Students



Photo 5: Types of Core Assembly

Prof. N. V. Hadpe

Industrial Visit Coordinator

Prof. R.N. Baji

Head of Electrical Department




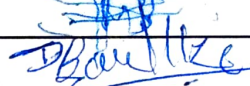
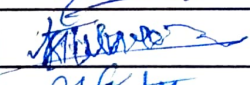
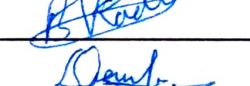

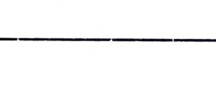
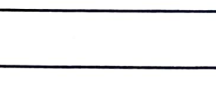
Prof. (Dr.) S. B. Bagal

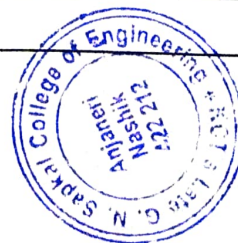
Principal



DEPARTMENT OF ELECTRICAL ENGINEERING

**Attendance List for Industrial Visit at Nasik Transformer industry, satpur Nasik on
29.01.2020**

Sr.No	Class	Name of Student	Sign
1	SE	Rohini Bhagawan Gavit	
2	SE	Yogesh Yashwanth Khambale	
3	S.E	Ganesh Vishwanath Jadhav	
4	S.E	Rameshwar Balu Shejui	
5	S.E	Dipak Bapu Jalunke	
6	S.E	Saevesh Sanjay Pulangekar	
7	S.E	Bhunit Nanabhai Kadam	
8	*SE	Dinesh Malhe	
9	S.E	Sankar More	
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DEPARTMENT OF ELECTRICAL ENGINEERING

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29.01.2020

Sr.No	Class	Name of Student	Sign
1	TE	Anushree S. manwarkar	
2	TE	Sagar Mahajan	
3	TE	Aditya Dahale	
4	TE	Ashutosh Pawar	
5	TE	Vaibhav Sawald	
6	TE	Harshal Bagul	
7	TE	Harshal Kunal Thakur	
8	TE	Tushar Bhojar	
9	TE	vaibhav chaudhari	
10	TE	VAIBHAV JETUNKAR	
11	TE	Bhaskar Bhushan Dilip	
12	TE	Jamini Gupta	
13	TE	Neha Shelke	
14	TE	Kajal Kartare	
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