

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding ('MOU') is made on 01 March, 2023.

Between

Kalyani Charitable Trust's, Late Gambhirrao Natuba Sapkal College of Engineering,(LGNSCOE) Anjaneri, Trimbakeshwar Road, Nashik.

and

Kadwa Sahakari Sakhar Karkhana Ltd

At Materewadi, Tal: Dindori, Maharashtra, 422202, Maharashtra.

(LGNSCOE and Kadwa Sahakari Sakhar Karkhana Ltd hereinafter individually referred to as "Party" and collectively referred to as "Parties")

Terms and Conditions:

1. Duration

This MoU shall be valid for Three (3) years from 1st March, 2023 and thereafter it may be renewed on mutually agreed terms.

2. Purpose

This MOU is for collaboration between the parties for mutual benefit where Kadwa Sahakari Sakhar Karkhana Ltd to provide

- Industrial visit for faculties and students.
- Industrial training/workshop for students and staff
- Experts for Guest lecturers as per the expertise available in industry.
- Sponsorship for industrial project and mentoring for interviews of Final year students.
- To provide an opportunity to most eligible students for professional work experience through employment, if possible
- Assistance for developing project ideas for students of LGNSCOE.
- Technical guidance for lab developments in LGNSCOE. Nasik
- Platform for planning and utilizing resources like staff and infrastructure for joint. R&D work.
- Sponsoring the events activities being conducted at LGNSCOE, Nasik.
- Training on special topics supported by donating outdated machinery, equipment, cut-sections, charts etc.

3. Late Gambhirrao Natuba Sapkal College of Engineering and Industry Standard of Performance:



LGNSCOE shall expend reasonable efforts as follows:

- LGNSCOE shall provide training, lab visit permissions in such areas as may be mutually agreed between the parties, more particularly described in this agreement.
- LGNSCOE shall provide experts for the conduct of training at the LGNSCOE campus and or at the Industry premises.
- LGNSCOE shall provide certificates/completion letter to all students who have successfully completed the training, projects conducted at LGNSCOE or at the Industry premises.

4. Mutual Obligations:

- Both the parties shall appoint one person as one point of contact for smooth execution of the MOU.
- This collaboration shall not be exclusive to both parties and shall not disallow each party from having similar collaboration with others. Except as expressly stated in this MOU, there shall be no obligation on any party to compensate the other in any manner or to make any claim.
- Each party shall respect the other's intellectual property
- Nothing contained in this MoU shall be construed as resulting in the creation of a relationship of both Principal of LGNSCOE and Management of Industry. LGNSCOE and Industry are not authorized to make any representation contract or commitment on behalf of Industry. LGNSCOE without the prior written consent of other party

Duration and Warranties:

- Each party shall ensure that the other is not put to any liability for any act of the respective party under this MOU.
- Each party represents that they have full power and authority to enter into this MoU in general.

Commercials:

- LGNSCOE & Industry will design programs on mutual understanding and decide fees if any to be charged to the students.
- The training. Lab visit shall be conducted at the LGNSCOE or Industry facility in a time bound manner as per availability and schedule of both parties

General:

- Both the parties may receive information proprietary to other party (the "Confidential Information") in the course of performance of their obligations under this MoU. Confidential Information is not meant to include any information which (a) is publicly available (b) is rightfully received by the parties from third parties without accompanying secrecy obligations; (c) is already in either party's possession and was lawfully received from sources other than the parties or (d) is independently



TITLE: INDUSTRIAL VISIT

Aim: Industrial visit to conduct Trial on Steam Power Plant along with Co-generation Power plant.

A Report on Industrial Visit

Title/Aim : Visit industry to gain practical knowledge trial on steam turbine along with cogeneration plant.

- Objectives of visit:**
- 1 Trail on steam power plant
 2. To study overall plant layout and co generation plant utilization

Overview of visit:

Subject: Energy Engineering

Class /Div. : BE Divisions A

No of students: 19 **Date :** 04/03/2023

Name & address of company: Kadwa Sahakari Sakhar Karkhana Ltd. Materewadi, Rajaramnagar, Dindori (Nashik).

Company Information :

Kadwa Sugar factory was registered on 15th October 1970. In the year 1977-78, first crushing season was started. An overview of conditions before the establishment of Kadwa and after establishment of it, drastic changes shows in the area of Dindori tahsil. Various developments occur suddenly after the establishment of factory are as follows: - Development in Economic conditions: - Most of the farmers, who engaged in traditional farming and grows Wheat, Jowar, Bajra started to produce sugarcane. Produced Sugar Cane sold in the same area and due to security, economic development occurs. Economic development resulted into high standard of living.

Factory Name: The Kadwa Sahakari Sakhar Karkhana Ltd., Dindori, Maharashtra

Operational Status: Working

Plant Name: Materewadi

Code: 12001

Factory Nature: Co-Operative

Nearest Railway Station: Niphad 24 Km

Nearest Airport: N.A.

Nearest Hotels: Pimpalgaon, 12Km.

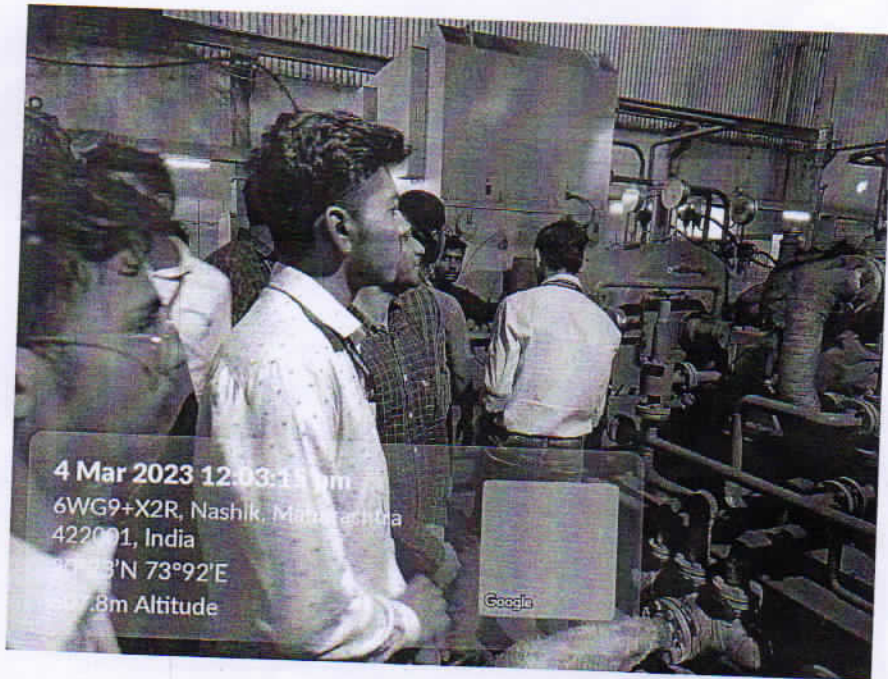
Holiday: Sunday



Points studied in details:

Final year students of Mechanical Engineering are studying a course on Energy Engineering. The course is framed to enable graduating students to take up the challenges in power engineering such as design equipment, processes and whole system. In this endeavour, a visit to study thermal power plant with co generation unit was planned as per curriculum. Kadwa sugar mill plant visited has been installed by Walchand Industries, Sangli and periodically upgraded with technological advancements. It was shut down for maintenance work after closure of their crushing season of this year. This also helped to show the interior parts of some leading equipment such as furnaces, boiler tubes, co generation system etc. It comprises two water tube boiler units operating at 21 bar with yield of 20 ton of steam generation per hour. Each boiler is supported by two furnaces which consume bagasse which is a refused material after crushing sugarcane. Furnaces are provided with hot air passing over preheaters creating forced draft. The steam generated being wet is superheated while passing through superheaters tubes. Then superheated steam expands across single turbine unit to 6 bar. The exhausted steam is supplied for sugarcane juice concentration as a part of process heating. Also, it is used in crystallizers. Also, as a measure of efficiency improvement, economisers are installed in the flow path of flue gases leaving the furnaces. All the students were given illustrations regarding testing and operating protocols. Students observed and recorded technical details shown by operators of respective sections

Photos:







Conclusions:

1. Students understood location wise installation of equipment and overall plant layout
2. Prior testing, operating protocols were appreciated

Signatures of faculty coordinators:

Prof. P. D. Jadhav:

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Prof.(Dr.) Sahebrao B. Bagal
Principal
Late G. N. Sapkal College of Engineering
Anjaneri, Nashik-422 213.



Conduction Certificate

This is to certify that the 02 faculty member and 71 Students of Late G. N. Sapkal College of Engineering have visited our industry on 04th March 2023, (Saturday). The purpose of visit is Trial on Steam Power Plant along with visit to Co-generation Power plant.

This visit is planned as per academic curriculum of the subject Energy Engineering. Students learn the working and exposure of industrial Boiler along with trail reading on power plant also visit to cogeneration plant, which is explained by our expert during the visit. The behavior of students was good during visit.



[Handwritten Signature]

Kadwa Sahakari Sakhar Karkhana Ltd.
Materewadi, Tal:Dindori, Maharashtra, 422202



[Handwritten Signature]

Prof.(Dr.) Sahebrao B. Bagal
Principal
Late G. N. Sapkal College of Engineering
Anjaneri, Nashik-422 213.



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 - 2294 - 220174.
E-mail : gns_engineering@sapkalknowledgehub.org | www.sapkalknowledgehub.org



Prof.(Dr.) Sahebrao B. Bagal
M.E. (Electronics), Ph.D. (E & TC)
PRINCIPAL

Affiliated to : Savitribai Phule Pune University (ID. No. PU/NA/Engg /152/2009 Ref.No. -CA/6501 Dated-1/11/2009)
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)

Ref. No.: KCT/LGNSCOE/MECH/2022-23/ 468

Date: 25-Feb-23

To,
The Managing Director
Kadwa Sahakari Sakhar Karkhana Ltd.
Materewadi, Tal:Dindori,Maharashtra, 422202

Subject: Academic Visit to Final Year Students of Mechanical Engineering to Thermal Power Plant.....

Dear Sir/Madam,

We would like to introduce ourself as one of the emerging institute in Nashik District. We are affiliated to Savitribai Phule Pune University and cater for five Bachelor's degrees in Engineering, viz. Bachelor in Civil Engineering, Computer Engineering, Electronics & Telecommunications, Electrical Engineering and Mechanical Engineering.

As a part of syllabus, the students of **Final Year Mechanical Engineering** are required to visit industry to gain the Practical knowledge on Trial on Steam Power Plant along with Co-generation Power plant. We would really appreciate if you could permit our students to visit your plant and gain practical insights of the unit and its related parameters.

The students are **71** in number and will be accompanied **2 faculty** members to maintain discipline and safety. We need permission for **One day** so that 71 students along with two faculty members can visit on day. Kindly allot the dates of visit in between **11th March, 2023 to 14th March, 2023** as per your convenience. We do humble request you to consider our proposal and sanction permission to our students to visit your prestigious project.


Details of Visit Coordinator is as follows:

Name: Prof. P. D. Jadhav, (Mob. No: +919765489211)

E-mail ID: parag.jadhav@sapkalknowledgehub.org

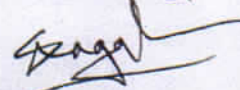
Thanking you

Yours truly,


Prof. T. Y. Badgujar
HOD (Mechanical)



*Security officer
visit taken before
2 March 2023
NS
25-2-23*


Prof. Dr. S. B. Bagal
Principal

Prof.(Dr.) Sahebrao B. Bagal
Principal
Late G. N. Sapkal College of Engineering
Anjaneri, Nashik-422 213.

CORPORATE OFFICE : Sapkal Knowledge Hub, "Parag" 46, Ashwin Sector, Opp. Hotel Sai Palace, Mumbai - Agra Highway, Nashik - 422 009. Ph.: +91 - 253 - 292456 / 51, Fax : +91 - 253 - 2375557. Website : www.sapkalknowledgehub.org

MUMBAI OFFICE : Sapkal knowledge Hub, Unit No. 22, 1st Floor, Shubhada Tower Shopping Center, Sir Pochkanwala Road, Near R.T.O. Office, Worli, Mumbai-400 030. Tel.: +91-22 - 24938914 / 24938915, Fax : +91 - 22 - 24938919.

To,

Date: 1 March 2023

The Principal,
Late G. N. Sapkal,
College of Engineering, Anjaneri,
Nashik

Subject: Permission to go for industrial visit with students of Final year Mechanical Engineering

Respected Sir,

With reference to above subject we have planned industrial visit for the subject 'Ebergy Engineering' in Kadwa Sahakari Sakhar Karkhana Ltd, Materewadi, Tal: Dindori, Nashik, they have given permission to visit in their organization for 1 days with a 71 number of student.

Date	Time	Div.	Name of Staff
04/03/2023	9.30 am to 4.00 pm	SE	Prof. P. D. Jadhav Mr. P. R. Bhadhane

Kindly permit us to go for visit as per above mention schedule.

Thanking You,

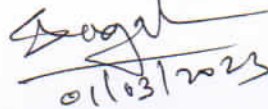
Yours Faithfully,



(Prof. P. D. Jadhav)

Visit Coordinator

Permitted with all required formalities



01/03/2023



Prof.(Dr.) Sahebrao B. Bagal
Principal

Late G. N. Sapkal College of Engineering
Anjaneri, Nashik-422 213.



Date: 1-Mar-23

DEPARTMENT OF MECHANICAL ENGINEERING

NOTICE

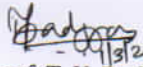
All the Final year students are hereby informed that, industrial visit for Energy Engineering schedule on 04th March 2023 at **Kadwa Sahakari Sakhar Karkhana Ltd**, to take a trial on thermal power plant and visit to cogeneration plant is arranged as per following schedule from Thakkar Bazzar to Kadwa Sahakari Sakhar Karkhana Ltd.

Sr. No.	Division	Date	Time	Faculty Coordinator
1	All	04/03/2023	9.30 am to 4.00 pm	1. Prof. P.D. Jadhav 2. Mr. P. R. Bhadhane

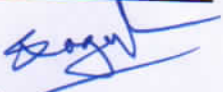
Note:-

1. Route of visit: - From Thakkar Bazzar to Kadwa Sahakari Sakhar Karkhana Ltd.
2. It's compulsory for all students to report at Thakkar Bazzar before said time.
3. No Personal Vehicles Allowed.
4. Students should maintain discipline and follow instructions during visit.


Prof. P. D. Jadhav
Visit Coordinator


Prof. T. Y. Badgujar
Head of Department




Prof.(Dr.) Sahebrao B. Bagal
Principal
Late G. N. Sapkal College of Engineering
Anjaneri, Nashik-422 213.

Date: 04/03/2023

Sr. No.	Name Of Student	Signature
1	Kuwar Akayesh Deekholraj	
2	Namsale Kailas Kumbhakar	
3	Rohit Shivaji Patil	
4	Nikhil Vishnu Zankar	
5	Shivam Sanjay Tambatkar	
6	Kiran D. Bhavar	
7	Sanket Kere	
8	Bhushan Sanap	
9	Sudarshan Chakar	
10	Nihar Gadhave	
11	Omakar Aher	
12	Sachin Pandit	
13	Rohit Sonavane	
14	Digvijay Pawar	
15	Shaikh Jabee	
16	Saqib Patel	
17	Tafteem Arab	
18	Shreyash Todkar	
19	Thakore Kishor	
20	DIGVIJAY. M. PAWAR	
21		
22		

Prof.(Dr.) Sahebrao B. Bagal
Principal

Late G. N. Sapkal College of Engineering
Anjaneri, Nashik-422 213.



UNDERTAKING

I Mr./Ms. Nikhil Zankar Son/Daughter of Nishnu Zankar
Resident of (Full address) Satpur, Nashik 07
and Contact number (self) 8308740195 and (parents) 8198796984 Roll No & Division 66
Presently studying in Department of **Mechanical** in Late G.N.Sapkal college of Engineering, Nashik.

My parents allow me go to Educational Visit /Tour to **Thakkar Bazaar to Kadwa Sahakari Sakhar Karkhana Ltd** on 04/03/2023.

I hereby undertake to comply with the following terms and conditions:-

1. I will compulsory follow the rules prescribed by the college.
2. In case of any accident or damage I & my parent will be totally responsible.
3. I will conduct myself in a highly discipline manner.
4. I will not cause or involve in any sort of misbehavior.

Name & Signature of Parent: - [Signature] Place: - Nashik
Name & signature of Student: - [Signature] Date: - 4/03/23

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: Visit for Trial on Thermal Power Plant and Cogeneration Plant

Place of Visit: Kadwa Sahakari Sakhar Karkhana Ltd. Materewadi, Tal: Dindori, Maharashtra, 422202

Class: - BE

Date: - 04/03/2023

Time: - 9.30 am to 4.00 pm

1. Is the Visit applicable to relevant field: - Agree Disagree
2. Is visit programme well placed within time: - Agree Disagree
3. The Instructor was familiar to topic: - Agree Disagree
4. Is time allotted for visit sufficient? Too short Right Too long
5. Did the visit add any value in your knowledge? Yes No
6. Any suggestion? _____

Name of Student: - Nikhil Nishnu Zankar

Sign: - [Signature]



[Signature]



Late G. N. Sapkal College of Engineering

Sapkal Knowledge Hub, Kalyani Hills, Anjaneri, Trimbakeshwar Road,
Nashik - 422 212, Maharashtra State, India



UNDERTAKING

I Mr./Ms. Aher Omkar Rajendra.....Son/Daughter of Rayendra Aher
 Resident of (Full address) At Post Satana
 and Contact number (self) 7218015483 and (parents) 8080437924.....Roll No & Division 01
 Presently studying in Department of Mechanical in Late G.N.Sapkal college of Engineering, Nashik.
 My parents allow me go to Educational Visit /Tour to **Thakkar Bazaar to Kadwa Sahakari Sakhar Karkhana Ltd** on 04/03/2023.

Hereby undertake to comply with the following terms and conditions:-

1. I will compulsory follow the rules prescribed by the college.
2. In case of any accident or damage I & my parent will be totally responsible.
3. I will conduct myself in a highly discipline manner.
4. I will not cause or involve in any sort of misbehavior.

Name & Signature of Parent: - Rayendra Aher Place: - Nashik

Name & signature of Student: - Omkar Aher Date: - Nashik
4/03/2022



Late G. N. Sapkal College of Engineering

Sapkal Knowledge Hub, Kalyani Hills, Anjaneri, Trimbakeshwar Road,
Nashik - 422 212, Maharashtra State, India



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: Visit for Trial on Thermal Power Plant and Cogeneration Plant

Place of Visit: Kadwa Sahakari Sakhar Karkhana Ltd.Materewadi, Tal:Dindori,Maharashtra, 422202

Class: - BE **Date:** - 04/03/2023 **Time:-** 9.30 am to 4.00 pm

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5. Did the visit add any value in your knowledge? Yes No
6. Any suggestion? _____

Name of Student: - Omkar Aher

Sign:- Omkar



Prof.(Dr.) Sahebrao B. Bagal
 Principal
 Late G. N. Sapkal College of Engineering
 Anjaneri, Nashik-422 213.



UNDERTAKING

I Mr./Ms. Keilas K. Narsale Son/Daughter of Kamlakar Narsale
 Resident of (Full address) 827 Padi Grandhi Nagar, Kamalgher, Chitkara
 and Contact number (self) 937988213 and (parents)..... Roll No & Division 38-A
 Presently studying in Department of Mechanical in Late G.N.Sapkal college of Engineering, Nashik.

My parents allow me go to Educational Visit /Tour to **Thakkaar Bazaar to Kadwa Sahakari Sakhar Karkhana Ltd** on 04/03/2023.

Thereby undertake to comply with the following terms and conditions:-

1. I will compulsory follow the rules prescribed by the college.
2. In case of any accident or damage I & my parent will be totally responsible.
3. I will conduct myself in a highly discipline manner.
4. I will not cause or involve in any sort of misbehavior.

Name & Signature of Parent: - Kamlakar Narsale Place: Nashik

Name & signature of Student: - Keilas Narsale Date: 4-3-2023



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: Visit for Trial on Thermal Power Plant and Cogeneration Plant

Place of Visit: Kadwa Sahakari Sakhar Karkhana Ltd, Waterewadi, Tal: Dindori, Maharashtra, 422202

Class: - BE

Date: - 04/03/2023

Time: - 9.30 am to 4.00 pm

1. Is the Visit applicable to relevant field: - Agree Disagree
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4. Is time allotted for visit sufficient? Too short Right Too long
5. Did the visit add any value in your knowledge? Yes No
6. Any suggestion? _____

Name of Student: - Keilas Kamlakar Narsale

Sign: [Signature]



[Signature]