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- Training on special topics supported by donating outdated machinery, equipment, cutsections, charts etc.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





developed by the parties. The two bodies understand and acknowledge that the Confidential Information is valuable and confidential and agrees that it will at all times be kept in trust, to be disclosed only to such persons as have a "need to know the same for the effective implementation of this MOU and that it will only be used by the parties for the benefit of others.

- Both the parties understand and agree that all written or other tangible data and documentation developed or procured by the other party in performing its obligations under this MoU, whether in printed or electronic form, belongs to other party.
- Both parties shall not use the name and brand of the other party in any advertisement or make any public announcement without the prior written approval of the other.
- Each party shall be at liberty to terminate this MoU with a written notice period of one(1)month to the other party without any compensation.
- Any and all disputes or differences between LGNSCOE and Industry arising out of or in connection with this MoU or its performance shall, so far as it is possible, be settled by negotiations between the Parties amicably through consultation & understanding.

8. Indemnification:

- Both the parties shall indemnify and hold each other harmless from and against any claim, loss, liability, or expense, including, but not limited to, damages, patent and trade mark infringement, costs
- In witness whereof, both parties put their hard seal on the day, month and year here in mentioned

IN WITNESS WHEREOF, to show their assent, the duly authorized representative of the parties hereto have signed the Agreement and set their seals as below:-

Signed for and on behalf of for Kadwa Sahakari Sakhar Karkhana Ltd. At Materewadi, Tal:Dindori, Maharashtra, 422202

Date:15/10/70

Managing Director

Tal, Dindori, Dist, Nashik

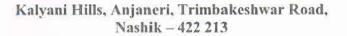
Signed for and on behalf of for KCT's Late Gambhirao Natuba Sapkal College of Engineering, Anjaneri. Nashik

Prof. Dr. S. B. Bagal Principal

> Gapkal College Gapkal



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





Industrial Visit Report

Title: Industrial Visit Report on Fluid flow for the Subject Fluid Mechanics

Day and Date: Saturday, 16/03/2024

Subject: Fluid Mechanics

Location: Kadwa Sahakari Sakhar Karkhana Ltd. Rajaramnagar (Materewadi) Tal -Dindori, Dist -

Nashik, Maharashtra, India

Introduction:

Fluid mechanics is a crucial subject of Mechanical engineering that deals with the behavior of fluids (liquids, gases, and plasmas) at rest and in motion. Understanding fluid flow is essential for various industries ranging from aerospace to manufacturing. This industrial visit aimed to provide insights into practical applications of fluid mechanics principles in an industrial setting. A group of students from Late G. N. Sapkal College of Engineering, Anjaneri, Nashik embarked on an industrial visit to Kadwa Sahakari Sakhar Karkhana Ltd. Rajaramnagar, a leading company in the field of sugar mills.

Objectives:

The primary objectives of our industrial visit were as follows:

- 1. Understanding the role of fluid dynamics in industrial processes.
- 2. Observing the design and operation of fluid flow systems.
- 3. Gaining insights into challenges and solutions related to fluid flow in industries.

Visit Highlights:

1. Company Overview: The Kadwa Sahakari Sakhar Karkhana Ltd,(TKSSKL)is a cooperative sugar mill and it is registered under the vide registration no. NSK/PRG/(A)(3)(S) dated 15/10/1970. The sugar factory is located at village Materewadi (Rajaramnagar), Tal-Dindori Dist- Nashik, Maharashtra. The establishment of this sugar factory was in the interest of local sugarcane growers. Initially, aunit of 1650 TCD was established in the year 1978-79 under the leadership of Late Shri Rajaram Sakharam Wagh founder chairman for the mill is growing under chairmanship Shri Shriram Sahadu Shete. The management of TKSSKL has taken efforts for increasing in sugar cane



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

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



in commanding area. As a result of increase in sugar cane availability is increased mill decided to increase the crushing capacity from 1650 to 2500 TCD. As increase in crushing capacity the byproduct like molasses and bagasse get increased. Considering all these aspects and to attain financial stability, the management of TKSSKL has decided to install a new 30 KLPD distillery plant.

Observations and Learnings:

Fluid Flow Systems: The company utilizes sophisticated fluid flow systems to transport raw materials, coolants, and finished products throughout the manufacturing facility. These systems consist of pumps, pipes, valves, and fittings designed to maintain desired flow rates and pressures.

Pump Technology: We observed different types of pumps employed by the company, including centrifugal and positive displacement pumps. Centrifugal pumps were predominantly used for large-scale fluid movement, while positive displacement pumps were utilized for precise metering applications.

Flow Measurement Techniques: Accurate measurement of fluid flow rates is critical for process control and optimization. The company utilizes various flow measurement techniques such as orifice plates, flow meters, and ultrasonic sensors to monitor and regulate fluid flow within the manufacturing process.

Fluid Dynamics in Equipment Design: The design of equipment and machinery takes into account fluid dynamics principles to ensure efficient operation. Components such as impellers, nozzles, and diffusers are meticulously engineered to minimize energy losses and enhance performance.

Fluid Filtration and Purification: The company emphasizes the importance of maintaining clean and contaminant-free fluids in their processes. Advanced filtration systems are integrated into the fluid flow systems to remove impurities and ensure product quality and reliability.

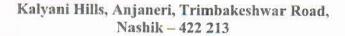
Challenges and Solutions: Despite advancements in fluid flow technology, the company faces challenges such as fluid leakage, cavitation, and pressure fluctuations. Engineers employ innovative solutions such as seal improvements, flow opening attorn algorithms, and material enhancements to address these challenges effectively.

Anjaneri

Nashik



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





Conclusion:

The industrial visit provided valuable insights into the practical applications of fluid mechanics principles in an industrial setting. Witnessing firsthand how fluid flow concepts are integrated into manufacturing processes highlighted the importance of theoretical knowledge in real-world engineering applications. The experience underscored the significance of continuous innovation and problem-solving in overcoming challenges associated with fluid flow systems.

Overall, the visit was enlightening and enriching, offering a deeper understanding of the intricate relationship between fluid dynamics and industrial operations.



Prof. M. V. Jadhav Visit Coordinator

Prof. (Dr.) T. Y. Badgujar

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



Dr. Sahebrao B. Bagal

M.E. (E & TC), Ph.D. (E &TC)

Principal

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. Ravindra G. Sapkal Chairman & Managing Director Kalyanii Charitable Trust

Ref. No.: KCT/LGNSCOE/ESTT/2023-24/ 368

Date: 01-03-2024

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

Subject: Industrial Visit for the students of Second year and Final Year Mechanical Engineering to your industry.

Dear Sir/Madam.

We would like to introduce ourself as one of the emerging institute in Nashik District. We are affiliated to University of Pune and cater for Six Bachelor's degrees in Engineering, viz. Bachelor in Civil Engineering, Computer Engineering, Electronics & Telecommunications, Mechanical Engineering, Artificial Intelligence (AI) and Data Science and Electrical Engineering.

According to the syllabus of the University of Pune, it is essential for our Second Year Mechanical Engineering students to gain practical knowledge of Fluid Flow and for our Final Year students to understand Cogeneration and undergo trials on Steam Power Plants. Therefore, we would greatly appreciate it if you could permit our students to visit your plant to gain practical insights into the unit and its related parameters.

We kindly request that you allot a date for the visit between 08/03/2024 to 16/03/2024, at your convenience. The total number of students will be 176, accompanied by 3 faculty members to ensure discipline and safety. We humbly request you to consider our proposal and grant permission for our students to visit your prestigious project.

Thank you for considering our request. We look forward to your favorable response.

Thanking you.

Details of Visit Coordinator are as follows:

Name: Prof. P. D. Jadhav, Prof. M. V. Jadhav Mobile No: 9765489211, 9765572008

Yours truly,

Prof. (Dr.) T. Y. Badgujar HOD, Mechanical Engineering Sapkal College Anjanen Schastik in Washik in 422.212

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

- 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



Late G. N. Sapkal College of Engineering

Sapkal Knowledge Hub, Kalyani Hills, Anjaneri, Trimbakeshwar Road,

Nashik - 422 212, Maharashtra State, India Tel: +91-2594-220168/71; Fax: +91-2594-220174

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



Date: 13 March 2024

To,

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

Subject: Permission to go for industrial visit with students of second and final year Mechanical Engineering

Respected Sir.

With reference to above subject we have planned industrial visit for the subject Fluid Mechanics and Energy Engineering in Kadawa Sahakari Sakhar Karkhana, Materewadi, Rajaram Nagar, Tal, Dindori, Dist. Nashik, they have given permission to visit in their organization for 1 days with a 176 number of students along with 2 staff members.

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

Thanking You,

Yours Faithfully,

Permitted with all required bemalities

(Prof. M. V. Jadhav)

Visit Coordinator

Anjaneri Nashik 422 212



Late G. N. Sapkal College of Engineering

Sapkal Knowledge Hub, Kalyani Hills, Anjaneri, Trimbakeshwar Road, Nashik - 422 212, Maharashtra State, India Tel: +91-2594-220168/71; Fax: +91-2594-220174

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



Date: 13-Mar-24

DEPARTMENT OF MECHANICAL ENGINEERING

NOTICE

All the Second year and Final year students are hereby informed that, industrial visit for subject Fluid Mechanics on Fluid flow and Energy Engineering on thermal power plant (Cogeneration) arranged on Saturday, 16th March 2024 at Kadwa Sahakari Sakhar Karkhana Ltd., Materewadi, Rajaram Nagar, Tal, Dindori, Maharashtra as per following schedule from location New CBS to Kadwa Sahakari Sakhar Karkhana.

Sr. No.	Division	Date	Time	Faculty Coordinator
			09.00 am	1. Prof. Dr. T. Y. Badgujar
1	SE and BE	16/03/2024	to	2. Prof. P. D. Jadhav
			4.00 pm	2. Prof. M. V. Jadhav

Note:-

- 1. Route of visit: From New CBS to Kadwa Sahakari Sakhar Karkhana.
- 2. It's compulsory for all students to report at New CBS before said time.
- 3. No Personal Vehicles Allowed.
- 4. All wear college uniform along with I-card and shoes.
- 5. Students should maintain discipline and follow instructions during visit.
- 6. Industrial Visit is compulsory to all the students.

Prof. M. V. Jadhav

Visit Coordinator

Prof. (Dr.) T. Y. Badgujar

Head of Department





Sapkal Knowledge Hub
Sapkal Knowledge hub, Kalyani Hills, Anjaneri, Wadholi,
Trimmbakeshwar Road – 422 213
Phone: (02594) 220167 to 70, Fax: (02594) 220174

Vehicle Requirement Note

HUB.		
Ref. No:-ois/req./veh/2015-16/02		Date: - 13/03/2024
To, The Director, KCT's Sapkal Knowledge Hub, Nashik.		
Dear Sir,		
Request for vehicle requirement, Please provi	de ^l the vehicle as p	er following details.
Journey:-		ă.
Date:-16/03/2024	Time:- 09.00am	
From:-New CBS		latical to Valle and
FLOUL:-NEW CB2	10 :- Kadwa Sana	ıkarı Sakhar Karkhana Ltd
	8	
Return Journey:-		
Date:- 16/03/2024	Time:-	
From:- Kadwa Sahakari Sakhar Karkhana Ltd	To:- New CBS	fr -
Concern Staff :- Prof. (Dr.) T. Y. Badgujan Contact Number :- 9765572008 Purpose:- Industrial Visit at Kadwa Sahakari Sakhar		
Type of Vehicle:-	LMV:-	
Bus 54 Seater	Winger	13 Seater
42 Seater	Scorpio	
40 Seater	Tavera	
Submitted for your approval. Thanking You.	Ford	
Section Head /HOD Section Head /HOD Section Head /HOD	k m	Principal No redtor

Late G N Sapkal College of Engineering Department of Mechanical Engineering Academic Year 2023-24, Sem- II SE Div. - A

Attendance Industrial Visit at Kadawa Sakhar Karkhana

Sr. No.	Roll No.	Name of the student	Sign	Sr. No.	Roll No.	Name of the student	Sign
1	ME22F2A01	BEHERE GITESH ANANTA	dec.	34	ME23D2A34	KUYATE VISHNU GIRISH	
2	ME22F2A02	BHAMARE ROSHAN KISHOR	\$ 60 ···	35	ME23D2A35	MANSURI ARSHAD MANWAR	
3	ME22F2A03	DATE CHAITANYA VILAS		36	ME23D2A36	MORE KETAN NITIN	
4	ME22F2A04	GAIKWAD DURGESH RAJENDRA	SE -	37	ME23D2A37	NAIDU VENKATESH RAVI	
5	ME22F2A05	GORE PRATIK ASHOK		38	ME23D2A38	NIKAM PRASHANT AJAY	Rom
6	ME23D2A06	AHER YASH HEMANT		39	ME23D2A39	NIMBEKAR NAVNATH NAMDEV	
7	ME23D2A07	AHIRE MAYUR MURLIDHAR		40	ME23D2A40	PAGARE PRATHAM VIJAY	
8	ME23D2A08	AHIRRAÖ ABHISHEK SANJAY		41	ME23D2A41	PANPATIL SANJIVANI MAHENDRA	
9	ME23D2A09	AJINKYA BALASAHEB BHOJ(adm cancel)		42	ME23D2A42	PATEL MOHAMMAD RAZA SAMEER	
10	ME23D2A10	AMBEKAR OM SUNIL	2000	43	ME23D2A43	PAWAR KALPESH SURESH	- Open
अस	ME23D2A11	AMRUT PATIL	Company of the Compan	44	ME23D2A44	PATIL HARSHAL MACHHINDRA	
12	ME23D2A12	BASHULKAR NIKHIL DILIP	W	45	ME23D2A45	PATIL SHUBHAM BHIMSING	
13	ME23D2A13	BACHHAV SONAL RAJENDRA		46	ME23D2A46	PATOLE SAGAR SANTOSH	
14	ME23D2A14	BADGUJAR GORAKH FAKIRA	GBarlg vycr	47	ME23D2A47	PAWAR PRANAV ADHIKAR	town
15	ME23D2A15	BHOLKUNAL RAM	-07	48	ME23D2A48	PAWASE YASH MAHADEO	
16	ME23D2A19	BOMBALE SUNIL VIJAY		49	ME23D2A49	PINJARI SAHIL SHAKIL	
17	ME23D2A17	BORSE MANASI VIJA Y	18	50	ME23D2A50	RANSHEVRE SAKSHI CHANDRAKANT	
18	ME23D2A18	BUNDELE UTWALLUMESH		51	ME23D2A51	SA INDANE RAHUL DIPAK	
19	ME23D2A19	CHAKRANARAYAN ASHISH SUDHIR		52	ME23D2A52	SHAIKH MOHAMMED KAIF RIYAZODDIN	- X
20	ME23D2A20	CHAUDHARI AKSHAY SANJAY		53	ME23D2A53	SHELAR GAURAV SHIVAJI	
21	ME23D2A21	CHAUDHARI CHANDRAKANT PRAKASH		54	ME23D2A54	SHEWALE SAURABH BHAUSAHEB	
22	ME23D2A22	CHOPADE SUHAS RAMESHWAR		55	ME23D2A55	SHINDE CHINTAN KALYANRAO	
23	ME23D2A23	DABHOLKAR SANIL ANIL		56	ME23D2A56	SHRING BHAVNA DHANANJA)	
24	ME23D2A24	GADE RUSHIKESH BHAUSAHEB		57	ME23D2A57	SONAR SOURAV ATUL	
25	ME23D2A25	GAIKWAD AKSHAY RAMESHWAR		58	ME23D2A58	SONA WANE ANKUSH POPAT	
26	ME23D2A26	GODSE RUSHIKESH NANASAHEB	(Dods-	59	ME23D2A59	SONAWANE SAKSHI RAJENDRA	
27	ME23D2A27	JADHAV ATUL NANA		60	ME23D2A60	SURYAVANSHI DNYANESHWAR SUDHAKAR	
28	MEZ3D2A28	KADAM SWAPNIL NARAYAN	SAAM	61	ME23D2A61	SURYAWANSHI DHANANJAY RAVINDRA	
29	ME23D2A29	KATKAR UDAY RAJENDRA		62	ME23D2A62	SURYAWANSHI VENKATESH JOGESH	
30	ME23D2A30	KHAIRNAR SHUBHAM GANGADHAR	- 16	63	ME23D2A63	TAJANPURÉ HARSHAL PRAKASII	
31	ME23D2A31	KHAN JUNAID JAFAR		64	ME23D2A64	TARLE ANKUSH SHASHIKANT	
32	ME23D2A32	KHARE SANDESH SURESH		65	ME23D2A65	WASEKAR AKASH GAJANAN	Rone
33	ME23D2A33	KHOND BHAGAWAN MOTIRAM	ankal College	66	ME23D2A66	WELKAR SAHIL DIPAK	Con
		1/2	Anjaneri)	67	ME23D2A67	YEOLE YOGESH CHHAGAN	+

Email: kadwasakar@yahoo.com Email: kadwasugar@gmail.com

GST NO. 27AAAAK1052F1Z4

Office: (02557) 237181 to 237184 Fax: (02557) 237185

Regd. No. NSK/PRG (A) (3) (S) Dated: 15/10/1970

THE KADWA SAHAKARI SAKHAR KARKHANA LTD., MATEREWAD

Rajaramnagar, Tal. Dindori, Dist. Nashik. (Maharashtra) Pin - 422 209

कादवा सहकारी साखर कारखाना लि., मातेरेवाडी,

राजारामनगर, ता. दिंडोरी, जि. नाशिक. (महाराष्ट्र - ४२२ २०९)

Conduction Certificate

This is to certify that the 02 faculty member and 176 Students of Late G. N. Sapkal College of Engineering have visited our industry on 16th March 2024, Saturday. The purpose of visit is to learn Fluid Flow, Boiler and thermal power plant (Cogeneration).

This visit is planned as per academic curriculum of the subject Fluid Mechanics and Energy Engineering. Students learn the working and exposure of Fluid Flow, Trial on Boiler and thermal power plant (Cogeneration), which is explained by our expert during the visit. The behavior of students was good during visit.

Managing Director Kadwa S.S.K.Ltd, Materewad Tal. Dindori, Dict. Nashik

(Kadwa Sahakari Sakhar Karkhana Ltd.

Materewadi, Rajaram Nagar,

Tal, Dindori, Maharashtra 422201)



TITLE: INDUSTRIAL VISIT

Aim: Industrial visit to conduct Trial on Steam Power Plant along with Cogeneration 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

No of students: 13 Date : 16/03/2024

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. M. V. Jadhav:



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LATE G. N. SAPKAL COLLEGE OF ENGINEERING

(Accredited with Grade B by MAAC)

Affiliation to | - Savierbar Phote Pune University (ID. to PUNEARING) (52/2009 Ref No. CA/6501 Delet-18/11/2006)

Approved by - A.L. T.E., New Delhi (FN: 06/07/65-Engg7/008/0-17, Delied- 11th Arm 2009)

a Cost, of Michigraphtea (No. Gr. C-2008/07/09/T.E.- 4, Dated: 10th Jone 2009)

> SITE, N.S., Monthal (No. 23NGC Europ (Appropriat/2009/E35, Dated + 23rd July 2009)

S ARRECOGE CONTRACT



Dr. Ravindra G. Sapkal Survey & Managing Director Survey Continue Total

KREW KETA ONSCORASTI TELIFICIAL

Thateout Office of

To.

The Managing Director Kadwa Sahakari Salibar Nachbana Etd. Materewood, Tal: Dindors, Maharashtra, 422202

Subject: Industrial Visit for the students of Second year and Final Year Mechanical Engineering to your industry.

Down NI NEW CO.

We would like to introduce ourself as one of the emerging institute in Nashik District. We see affiliated to University of Pane and enter for Six Bauhelor's degrees in Engineering Lin. Bacheior in Civil Engineering, Computer Engineering, Electronics & Telecommunications, Mechanical University Aprilicial Intelligence (Al) and Data Science and Theorytain Engineering.

According to the a Carus of the I reversals of Pone it is execution for our Second Year Mechanical Engineering students to gain practical knowledge of Fluid Flow and the ear Final Year students to understand Cogeneration and undergo trials on Steam Fuver Plants. Increton, we would greatly appreciate it if you could permit our students your plant to gain practical insights into the and and as related parameters.

your convertence. The notal number of students will be 170, accompanied by A lacenty members to ensure discipline and safety. We hambly removal you to consider our process, and resolvent mornistion for our students to van even prestigious project.

Thank you for considering our request. We look howard to your tayonable response

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Year be

Prof. thry T.A. Bastagas BOD, Mechanical Lagineering

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Sankal College O Anjaneri Nashik 422 212

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Late G. N. Sapkal College of Engineering

Sapkal Knowledge Hub, Kalyani Hills, Anjaneri, Trimbakeshwar Road, Nashik – 422 212, Maharashtra State, India Tel: +91-2594-220168/71; Fax: +91-2594-220174

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



Date: 13 March 2024

To.

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

Subject: Permission to go for industrial visit with students of second and final year Mechanical Engineering

Respected Sir,

With reference to above subject we have planned industrial visit for the subject Fluid Mechanics and Energy Engineering in Kadawa Sahakari Sakhar Karkhana, Materewadi, Rajaram Nagar, Tal, Dindori, Dist. Nashik, they have given permission to visit in their organization for 1 days with a 176 number of students along with 2 staff members.

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

Thanking You,

Yours Faithfully.

Permitted with all required

(Prof. M. V. Jadhav) Visit Coordinator

Sapkal College Sapkal



Late G. N. Sapkal College of Engineering

Sapkal Knowledge Hub, Kalyani Hills, Anjaneri, Trimbakeshwar Road,
Nashik - 422 212, Maharashtra State, India
Tel: +91-2594-220168/71; Fax: +91-2594-220174

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



Date: 13-Mar-24

DEPARTMENT OF MECHANICAL ENGINEERING

NOTICE

All the Second year and Final year students are hereby informed that, industrial visit for subject Fluid Mechanics on Fluid flow and Energy Engineering on thermal power plant (Cogeneration) arranged on Saturday, 16th March 2024 at Kadwa Sahakari Sakhar Karkhana Ltd., Materewadi, Rajaram Nagar, Tal, Dindori, Maharashtra as per following schedule from location New CBS to Kadwa Sahakari Sakhar Karkhana.

Sr. No.	Division	Date	Time	Faculty Coordinator
13.04			09.00 am	1. Prof. Dr. T. Y. Badgujar
1	SE and BE	16/03/2024	to	2. Prof. P. D. Jadhav
			4.00 pm	2. Prof. M. V. Jadhav

Note:-

- 1. Route of visit: From New CBS to Kadwa Sahakari Sakhar Karkhana.
- 2. It's compulsory for all students to report at New CBS before said time.
- 3. No Personal Vehicles Allowed.
- 4. All wear college uniform along with I-card and shoes.
- 5. Students should maintain discipline and follow instructions during visit.
- 6. Industrial Visit is compulsory to all the students.

Prof. M. V. Jadhav

Visit Coordinator

Prof. (Dr.) T. Y. Badgujar

Head of Department



Late G. N. Sapkal College of Engineering MECHANICAL ENGINEERING DEPARTMENT MOVEMENT ORDER

Date: Wednesday, March 13, 2024

Name of Applicant :	1. Prof. (Dr.) T. Y. Badgujar 2. Prof. M. V. Jadhav
Designation:	Head of Department Assistant Professor
Purpose of visit :	Industrial Visit at Kadwa Sahakari Sakhar Karkhana Ltd. Nashik
Duration of visit	01 Day
Is there any teaching assignment during this period	No Any
Address during leave period & Contact no.	Kadwa Sahakari Sakhar Karkhana Ltd.
Whether any financial assistance is required (Please state the requirements)	
Whether any stipend/ fees/ honorarium is being provided by the host institute Please enclose invitation/offer letter	NA 9
Any other requirements (please specify)	No Any -

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Anjaneri

422 212

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SIGNATURE OF APPLICANT WITH DATE

RECOMMANED/NON RECOMMANED

Prof. Dr. T. Y. Badgujar

Head,

Mechanical Engineering Deaprtment

Prof. Dr. S. B. Bagal

Principal

Late G. N. Sapkal College of Engineering



Sapkal Knowledge Hub
Sapkal Knowledge hub, Kalyani Hills, Anjaneri, Wadholi,
Trimmbakeshwar Road – 422 213
Phone: (02594) 220167 to 70, Fax: (02594) 220174

Vehicle Requirement Note

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Ref. No:-ois/req./veh/2015-16/02	Date: - 13/03/2024
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The Director,	
CT's Sapkal Knowledge Hub,	
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Dear Sir,	
Request for vehicle requirement, Please pro	ovide the vehicle as per following details.
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Date:- 16/03/2024	Time:-
From:- Kadwa Sahakari Sakhar Karkhana Ltd	To:- New CBS
Concern Staff :- Prof. (Dr.) T. Y. Badgu	ijar, Prof. M. V. Jadhav
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Industrial Visit at Kadwa Sahakari Sakh	ar Karkhana Ltd. Nashik
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Email: kadwasakar@yahoo.com Email: kadwasugar@gmail.com

GST NO. 27AAAAK1052F1Z4

Office: (02557) 237181 to 237184 Fax: (02557) 237185

Regd. No. NSK/PRG (A) (3) (S) Dated: 15/10/1970

THE KADWA SAHAKARI SAKHAR KARKHANA LTD., MATEREWAD

Rajaramnagar, Tal. Dindori, Dist. Nashik. (Maharashtra) Pin - 422 209

कादवा सहकारी साखर कारखाना लि., मातेरेवाडी,

राजारामनगर, ता. दिंडोरी, जि. नाशिक. (महाराष्ट्र - ४२२ २०९)

ReflAdmin 4 5 6 0 /2023 - 24

Date: 08/03/2024

To, The Principal, Late G. N. Sapkal COE, Nasik.

Subject: Regarding Permission of visit for students of Second and final year Mechanical Engineering...

Dear Sir,

As per your letter of Ref. No. KCT/LGNSCOE/ESTT/2023-24/368; Dated: 01/03/2024, we would like to inform you that your second and final year Mechanical Students visit to our Kadwa Sugar Factory to gain the Practical knowledge of Fluid Flow, Boiler and thermal power plant (Cogeneration) will be permitted on Saturday, 16 March 2024.

Yours Truly,

Kadwa S.S.K.Ltd, Materewadi

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

