



INSTITUTE OF CHEMICAL TECHNOLOGY रसायन तंत्रज्ञान संस्था



Deemed to be University under Section-3 of UGC Act 1956

Elite Status & Centre of Excellence - Government of Maharashtra

Category I Deemed to be University (MHRD/UGC)

National Rank 1 in Atal Innovation Ranking (ARIIA), by MHRD, Category : Govt Aided Universities (2020)

ICT/MARJ/DIR/71

14th March, 2022

To,
Mr. Rohit Tembhurkar
Assistant Professor
Matsyodari Institute of Engineering and Technology,
Nagewadi, Jalna 431203
Email:- rohitembhurkar007@gmail.com
Mo. No.9764249849/8668536545

Sir / Madam,

I am pleased to invite you to as a visiting faculty for Trimester IV of the academic year 2021-22. You are requested to spare your valuable time for the benefit of the students by sharing your expertise in the subject and make it convenient to conduct lectures as under: -

| Sr.No. | Program & Semester | Course Code & Title | Total Marks | Total Turns | Your Share | Coordinating Teacher |
|--------|---------------------------------|------------------------|-------------|-------------|------------|--------------------------------------|
| 1 | Integrated M.Tech, Trimester IV | Engineering Laboratory | 50 | 24p | 12p | Dr. Saurav Raj Mo. No.-8470975763 |

- 3) **Evaluation:** As per the rules of ICT, Continuous Evaluation tests of the Students are mandatory.
- d) It is expected that the teacher would conduct at least two assessments under the continuous mode in a semester.
- e) The teacher will announce at the beginning of the respective course the method of conducting the tests under the continuous mode and the assignment of marks.
- f) The Pattern of marks distribution is: Continuous Evaluation: **35 marks**, End Semester Examination: **15 marks**, totalling **50 marks**, as the case may be.
- 4) **Attendance :**
- e) Kindly keep attendance records and submit it to the Director, ICT Mumbai Marathwada Campus, Jalna.
- f) Please note that 75% attendance is compulsory for the students and your co-operation is sought in following these requirements strictly, In case of any shortfall at the end of a month, you are requested to communicate the same to the student with simultaneous copy to :- Director, Jalna campus (email id: director@marj.ictmumbai.edu.in), Dean (email id: dean.ap@ictmumbai.edu.in) and AR (email id: ar.acade@staff.ictmumbai.edu.in)
- g) Requested to use recording facility for the benefit of students.
- h) Please note that only enrolled students will access to this (for watching only).

Honorarium of **Rs. 2000/-** per practical is admissible to you. You may please communicate the timings of your lectures to respective coordinator.

We hope that your will accept the invitation. A line of confirmation will be highly appreciated.

Director

Copy to :- 1. Accounts section, ICT MARJ
2. Director Office, ICT MARJ

ICT MUMBAI

Nathal Parekh Marg, Matunga, Mumbai - 400 019, India
Tel. : +91-22-3361-1111/2222(B) Fax: +91-22-3361-1020(B)
Website: www.ictmumbai.edu.in
email : vc@ictmumbai.edu.in
GSTIN : 27AAAT14951J1ZG

ICT IOC, BHUBANESWAR

ICT-IOC Odisha Centre, Indian Institute of Technology,
Kharagpur Extension Centre, Near Hotel Swosti Premium,
Mouza-Samantpuri, Bhubaneswar- 13
email : director@ioc.ictmumbai.edu.in
GSTIN : 27AAAT14951J1ZG

ICT MARATHWADA, JALNA

M/s Beej Sheetal Innovations Centre Private Limited,
BT-6/7, Biotechnology Park, Additional MIDC Area,
Aurangabad Road, Jalna- 431 203
email : director@marj.ictmumbai.edu.in
GSTIN : 27AAAT14951J1ZG



ICT/MARJ/DIR/56

September 16, 2023

To,
Mr. Pravin T. Avhad
Matsyodari Shikshan Sanstha
Jalna
Email :-pravinavhad85@gmail.com
Mo. :- 8668355088

Sir / Madam,

I am pleased to invite you to as a visiting faculty for **Semester- I** of the academic year **2023-24**. You are requested to spare your valuable time for the benefit of the students by sharing your expertise in the subject and make it convenient to conduct lectures as under: -

| Sr. No. | Program & Semester | Course Code & Title | Total Marks | Total Turns | Your Share | Incharge Faculty/Staff Coordinating |
|---------|--------------------------------|--------------------------|-------------|-------------|------------|---|
| 1 | Integrated M.Tech, Semester- I | Structural Mechanics Lab | 100 | 15 P | 5 P | Dr. Saurav Raj Mr. Ganesh M. Gudewar |

- 1) **Evaluation:** As per the rules of ICT, Continuous Evaluation tests of the Students are mandatory.
- It is expected that the teacher would conduct at least two assessments under the continuous mode in a semester.
 - The teacher will announce at the beginning of the respective course the method of conducting the tests under the continuous mode and the assignment of marks.
 - The Pattern of marks distribution is: 50 Marks Continuous (including Mid Sem), and 50 Marks End Sem Total =100 Marks
- 2) **Attendance :**
- Kindly keep attendance records and submit it to the Director, ICT Mumbai Marathwada Campus, Jalna.
 - Please note that 75% attendance is compulsory for the students and your co-operation is sought in following these requirements strictly, In case of any shortfall at the end of a month, you are requested to communicate the same to the student with simultaneous copy to :- Director, Jalna campus (email id: director@marj.ictmumbai.edu.in) Dean (email id: dean.ap@ictmumbai.edu.in) and AR (email id: ar.acad@staff.ictmumbai.edu.in)
 - Requested to use recording facility for the benefit of students. Please note that only enrolled students will access to this (for watching only).
- Honorarium of **Rs. 2000** per Practical is admissible to you. You may please communicate the timings of your lectures to respective coordinator.
- We hope that you will accept the invitation. A line of confirmation will be highly appreciated.

Director

Copy to :-

- Accounts, ICT MARJ.
- Academics, ICT MARJ

ICT MUMBAI

Nathalal Parekh Marg, Matunga, Mumbai - 400 019, India
Tel: +91-22-3361-1111/2222(B) Fax :-+91-22-3361-1020(B)

Website : www.ictmumbai.edu.inemail : vc@ictmumbai.edu.in

GSTIN : 27AAATI4951J1ZG

ICT IOC, BHUBANESWAR

ICT-IOC Odisha Centre, Indian Institute of Technology,
Kharagpur Extension Centre, Near Hotel Swosti Premium,

Mouza-Samantpuri, Bhubaneswar-13

email : director@iocb.ictmumbai.edu.in

GSTIN : 21AAATI4951J1ZS

ICT MARATHWADA, JALNA

M/s Beej Sheetal Innovations Centre Private Limited,
BT-6/7, Biotechnology Park, Additional MIDC Area,

Aurangabad Road, Jalna-431 203

email : director@marj.ictmumbai.edu.in

GSTIN : 27AAATI4951J1ZG

MATSYODARI SHIKSHAN SANSTHA'S
COLLEGE OF ENGINEERING & TECHNOLOGY, JALNA
Department of Mechanical Engineering

NOTICE

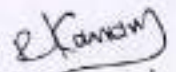
Date: 24/05/2022

All **Final Year students** are here by informed that Industrial Visit is scheduled on **25/05/2022, Wednesday**, at **Rajureshwar Cold Storage**. So all Students Should be present in college campus at **11.00 am Sharp** in college uniform along with college Identity Cards

Also, it is Mandatory to follow the Instructions given by the Faculty Members during Visit & Maintain the Discipline.



Prof. Mohammad Javed
Faculty In-Charge



(Prof. R. L. Karwande)
HOD



Proposal for INDUSTRIAL VISIT at your Esteemed Organization on 25/05/2022

1 message

javed mohammed <javed.mohammed996@gmail.com>
To: er.chetanjoshi@gmail.com

Mon, May 23, 2022 at 12:50 PM

Respected Sir,

Warm Greetings from MSS's CET, Jalna....!

Matsyodari Shikshan Sanstha is a reputed organization and has established

itself as one of the foremost educational group of institutions in Marathwada region. Matsyodari Shikshan Sanstha having an Engineering College at Jalna. As a part of academic curriculum of Final Year Mechanical Engineering students, Our college wants to arrange an INDUSTRIAL VISIT at your Esteemed organisation to enhance Practical Exposure & Skills of students. We have planned 46 Students along with 02 Faculty members to visit your institute on 25/05/2022

Thanking you....

With Regards...

Er.Mohamad Javed

BE (Mech) ME (Production)

Assistant Professor

Department of Mechanical Engineering

Matsyodari Shikshan Sanstha's College of

Engineering & Technology, Jalna 431203.

Cell No- +91-8421028999/9209201737

MSS's
COLLEGE OF ENGINEERING AND TECHNOLOGY, JALNA
DEPARTMENT OF MECHANICAL ENGINEERING
INDUSTRIAL VISIT REPORT

Name of industries visited: Rajureshwar Cold Storage (RCS), Jalna.MS.

Date: 25/05/2022

Total no. of students: 46

No. of faculty: 1

Faculty coordinator: Prof. Md. Javed.

Introduction

The college has arranged Industrial visit for final year engineering students to study Cold Storage process. The visit was organized with the prior permission and guidance of HON. Principal Dr. S. K. Biradar and Head of Mechanical Engineering Department, Prof. R. L. Karwande.

Industrial visit is a vital part of curriculum. It bridges classroom learning and real working worlds. The visit provides knowledge about the organizational structures and modes of operation in different industries.

OBJECTIVES OF INDUSTRIAL VISIT

- 1) To Know the Information about physical set up of industry.
- 2) To understand the working of Cold Storage
- 3) Knowing about Compressors, Condensers, Intercooler & other components of refrigeration system.

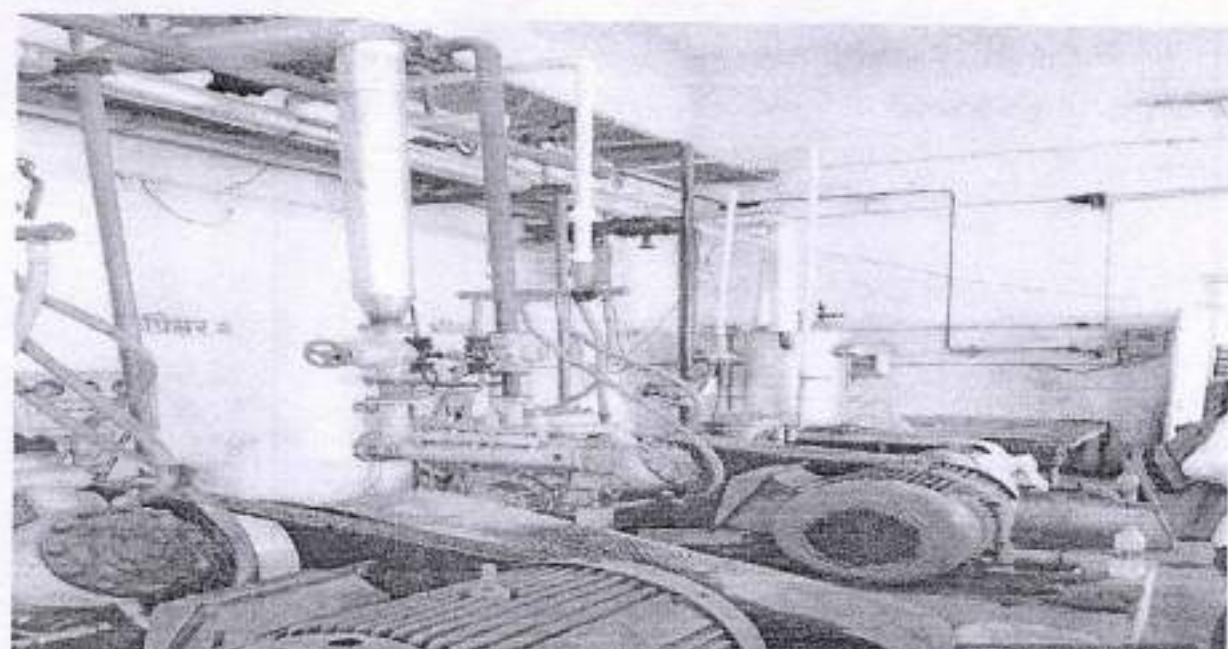
About RCS

Rajureshwar Cold Storage has capacity of 28000 metric tons. It has 11 cold storage rooms. All types of food grains, spices, eatables are stored here .It works on Ammonia Vapour Absorption System. It has two compressors with Inter cooling.



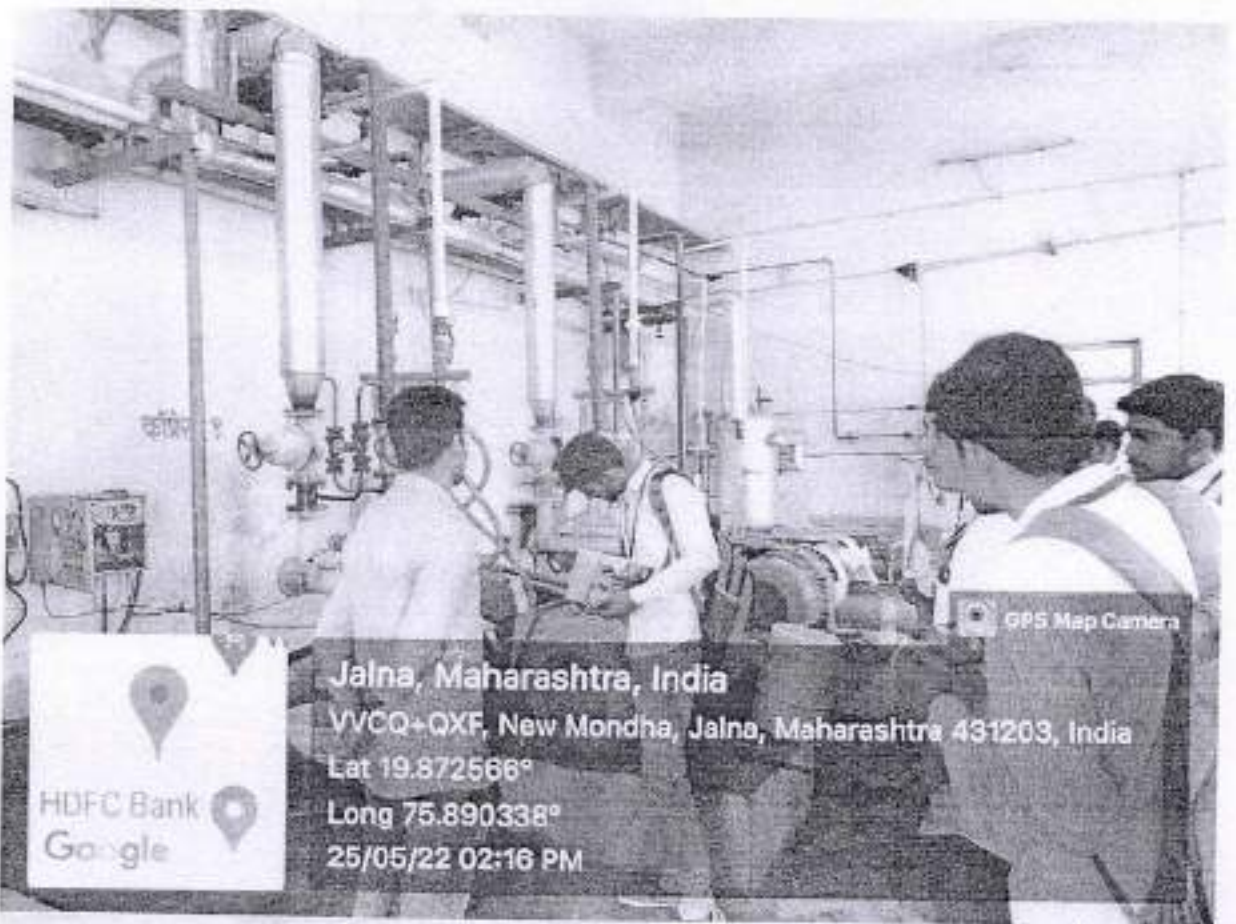
Jalna, Maharashtra, India
APMC Area, VVER-1878, New Mondha, Jalna, Maharashtra 431203, India
Lat 19.872617°
Long 75.890715°
25/05/22 02:48 PM

GPS Map Camera



Jalna, Maharashtra, India
VVER-1140, New Mondha, Jalna, Maharashtra 431203, India
Lat 19.888643°
Long 75.892789°
25/05/22 02:10 PM

GPS Map Camera



Jalna, Maharashtra, India
VVCQ+QXF, New Mondha, Jalna, Maharashtra 431203, India
Lat 19.872566°
Long 75.890338°
25/05/22 02:16 PM

GPS Map Camera



Jalna, Maharashtra, India
VVCQ+QXF, New Mondha, Jalna, Maharashtra 431203, India
Lat 19.872508°
Long 75.89054°
25/05/22 02:12 PM

GPS Map Camera



Conclusion of a very fruitful visit to Rajureshwar Cold Storage

The visit was fruitful, and would help us in connecting the theoretical study in class with the practical applications of various tooling and machining processes used in industry. The visit also motivated us in many ways. We are excited to have more such industrial visits, field visits, internships, taking industrial projects, and take more of practical works including workshops on various concepts. Overall, we got a new viewpoint of approaching the same problem, and an experience we won't forget for their lifetime. We also have got some very exciting new ideas for the projects we are going to prepare in future based on various concepts, loopholes existing in the concepts, new and a fine-tuned approach for the same thing and the likes.

Prof. Mohamad Javed

Visit in Charge

Prof. R. E. Karwande

HMED

Matsyodari Shikshan Sanstha's
College of Engineering & Technology, Jalna.
Department of Mechanical Engineering

Date:-25/05/2022

Undertaking

We the students of B.E Mechanical Engineering of Matsyodari Shikshan Sanstha's College of Engineering & Technology, Jalna hereby declared that, we will follow the instructions and guidelines given by concerned faculties time to time during the visit. We are solely responsible for causalities, accidents, physical injuries or disability during the visit. We will maintain the discipline.

| Roll Nos. | Name | Signature |
|-----------|---------------------------------|-----------|
| 2401 | AGARWAL RAHUL PRAKASHCHANDJI | |
| 2402 | AHERWAR SAGAR SUSHILKUMAR | |
| 2403 | BANCHOD ADITI VINAYAK | |
| 2404 | BHAGWAT AKASH PRAKASH | |
| 2405 | BHORE VISHAL SANJAY | |
| 2406 | BHOSLE SHUBHAM BABASAHEB | |
| 2407 | BODKHE UMESH VISHNU | |
| 2408 | CHAVAN SACHIN SUKHDEO | |
| 2410 | DASRE VYANKATESH RAMESH | |
| 2411 | DESHMUKH GAURAV GOVINRAO | |
| 2413 | DHANDE KRISHNA KESHAV | |
| 2414 | GAIKWAD VAIBHAV KISHOR | |
| 2415 | INGLE AVINASH PARASRAM | |
| 2416 | JADHAV RAGHUNATH BADRINATH | |
| 2418 | JANGID RAM ANURODH | |
| 2419 | KATHORE SHRIKANT GANGADHAR | |
| 2420 | KHANDEBHARAD SACHIN PRALHAD | |
| 2422 | KHANDEKAR KANHAIYYA CHANDRABHAN | |
| 2423 | KUMAWAT SANDIP BHAUSAHEB | |
| 2424 | MISAL HARIDAS SHIVAJI | |
| 2425 | PAKHARE SANDESH PRABHAKAR | |
| 2426 | PATHAN JAVED GULABKHA | |
| 2427 | PIPARIYE VAIBHAV MOHANLAL | |
| 2428 | POPALGHAT KUNAL KADUBA | |
| 2429 | RAMDASI SAURABH DEEPAK | |
| 2430 | SAKHARE DEEPAK ARJUN | |
| 2431 | SALVE NARESH KUNDLIKRAO | |

| | | |
|------|-------------------------------|-----------------|
| 2432 | SAYYED KAMRAN SY KARBHARI | |
| 2433 | SHAIKH JISHAN ANSAR | |
| 2434 | SHARMA KALYANI ANAND | <i>Kalyani</i> |
| 2435 | SHELAKH SACHIN RAMDAS | <i>Sachin</i> |
| 2436 | SHINDE RAHUL SANJAY | |
| 2437 | TAKALKAR ABHISHEK LAXMIKANT | <i>Abhishek</i> |
| 2438 | THOMBRE NILESH KALYAN | <i>Nilesh</i> |
| 2439 | THUBE NAVNATH GORAKH | |
| 2440 | UDHAN BAJIRAO LAXMAN | |
| 2441 | GIRI AMAN BHARAT | |
| 2442 | FAROOQUI SOOFI | |
| 2443 | KHARAT TRIMBAK LAXMAN | <i>Trimbak</i> |
| 2444 | MOHSIN MIRZA ZAFAR BAIG | |
| 2445 | Sayyed Arshad Sayyad Ahmad | |
| 2446 | Wade Sagar shankar | |
| 2448 | KHEDEKAR ASHWINI GAJANAN | |
| 2449 | PANKAJ KUMAR KARVE PRAKASHRAO | |
| 2450 | KUNAL AMRUT CHAUVAN | |
| 2451 | JAGTAP KAILASH | |

Co-ordinator

HMED



**MATSYAODARI SHIKSHAN SANSTHA'S
COLLEGE OF ENGINEERING AND TECHNOLOGY, JALNA**

**DEPARTMENT OF MECHANICAL ENGINEERING
INDUSTRIAL VISIT REPORT**

Name of industries visited

- Marathwada Auto Cluster, Center of Excellence MIDC, Plot No. P-174 Waluj, Aurangabad, Maharashtra 431136
- Indo German Tool Room, P-31, M.I.D.C. Industrial Area, Chikalthana, Aurangabad - 431006, Maharashtra, India.

Date: 22 May 2023, Monday

Total no. of students: 54

Faculty coordinator: Prof. Md. Javed, Prof. Ganesh Matre, Prof. Vilas Jadhav

Introduction

The college has arranged an Industrial visit for third year engineering students to study jig and fixtures, press tools, forging die, and injection moulds. The visit was organized with the prior permission and guidance of Hon. Principal Dr. S. K. Biradar and Head of Mechanical Engineering Department, Prof. R. L. Karwande.

Industrial visit is a vital part of curriculum. It bridges classroom learning and real working worlds. The visit provides knowledge about the organizational structures and modes of operation in different industries.

Our visit was divided into two Sessions. In the first Session of our visit, we went to Marathwada Auto Cluster, Chh. Sambhajinagar, while in the latter we visited IGTR Chh. Sambhajinagar.

OBJECTIVES OF INDUSTRIAL VISIT

- 1) To Know the Information about physical set up of Industry.
- 2) to understand the Press tool work/ tool room
- 3) Knowing about CNC/CAM and CAE centers.
- 4) To understand various moulding process.
- 5) CNC operated machining and programming.
- 6) Information about hydraulics, pneumatics and maintenance lab.
- 7) Practical application of tool's for making various parts.

Prologue

As the students got themselves comfortable in the buses after signing the undertakings, the bus, at 10:00 AM left the college premises and followed its path towards Chh. Sambhajinagar to our first destination, Marathwada Auto Cluster, Chh. Sambhajinagar.

About Marathwada Auto Cluster

- Marathwada Auto Cluster is an IIUS Project supported by Ministry of Commerce & Industry, Govt. Of India & Govt. Of Maharashtra
- Initiated by Chamber Of Marathwada Industries and Agriculture (CMIA), Aurangabad.
- This is Section 8, earlier sec 25 Company with Public Private Partnership approach.
- No dividend to directors/members
- It is registered under 80 G (5) (VI) of IT Act, 1961

Our Vision

To develop a Common Facility Centre that supports the growth of MSMEs in the region and helps them to achieve manufacturing excellence & ensuring sustainable growth through collective wisdom

Our Mission

To empower all the MSMEs in the region by providing them manufacturing services and skill development.

Our Objective

The objective of the project is to establish a state of the art Common Infrastructure Facility at Waluj Industrial area in Aurangabad, in order to improve the global competitiveness of the industrial units in Marathwada, through manufacturing excellence and ensuring sustainable growth through collective wisdom and result oriented efforts.

Project Funding

Marathwada Auto Cluster

| | ₹ (In Cr) | US \$ (In Millions) |
|---------------------------|---------------------------|---------------------|
| Total Project Cost | 81.35 | 12.0 |
| Govt. of India | 58.20 | 8.6 |
| Govt. Of Maharashtra | 08.09 | 1.2 |
| Industry Contribution | 12.24 | 1.8 |
| Bank Loan | 02.82 | 0.4 |
| Scheme | I.I.U.S. | |
| Starting of the Project | 31 st May 2010 | |
| Completion of the Project | 30 th Sep 2016 | |

Industries They Serve

- SPM Manufacturing
- Dia Mould Manufacturing
- Automotive Sector
- Machine Parts Manufacturing
- Sheet Metal

- Process Equipment
- Electrical Vehicle
- Electronics & Telecommunication
- Tool Manufacturing

Facilities at MAC

A. Tool Room

- HMC – MAZAK (Horizontal Machining Centre)
- VMC - Vertical Milling Center
- DCVMC - Double Column Vertical Milling Center
- TMC - Turning Milling Center
- Wire Cut
- Surface Grinding

B. Standard Room Inspection Facility

C. LASER Cut PRISMA

D. CTL-EKI CONTROL (Cutting Slitting Line)

E. AIDA (Automatic Blanking Die Press)

F. RPT Plastic- Rapid Prototyping

Glimpses:



About Indo German Tool Room (IGTR)

Government of India, Ministry of micro, small & medium Enterprises

Area of Industrial visit: MIDC, Industrial Area, Chikhalthana, Chh. Sambhajinagar 431006 (MS) INDIA.

Date: 07-03-2019

Time: 2:00pm to 5pm.

Departments and Classification of process

We Visited Following IGTR departments at IGTR.

- 1) Production Department
- 2) Tool room

Press Working

Press working may be defined as chip less manufacturing process by which various components are made from sheet metal. This process is also termed as cold stamping. The sheet metal operation done on a press may be into two categories, cutting operation and forming operations. In cutting operations, the work piece is stressed beyond ultimate strength.

These operations

- 1) Blanking
- 2) Punching
- 3) Notching
- 4) Deforming
- 5) Trimming
- 6) Shaving
- 7) Slitting
- 8) Lancing
- 9) Nibbling

Forming operations

- 1) Bending
- 2) Drawing
- 3) Squeezing



Applications:

- 1) To make Automobile parts, Gears, Brakes, Clutch plates etc.
- 2) Parts make by sheet metal working, car body parts.

Moulding

- Mould is defined as a cavity in which molten metal is poured and allowed it to cool so as to product. Such cavity may be formed with the help of pattern. The process of making mould is known as moulding.
- A pattern of making mould is known as moulding.
- A pattern is having its shape and size approximately similar to that of the desired component. Moulding is the process of making a mould.
- Moulds are normally made from heat resisting materials like sand and clay.
- Sand is widely used mould material for casting ferrous and non-ferrous materials.

Non-Conventional Machines

CNC Machine is the Machine tool which is operated and controlled by using dedicated computers is known as computerized numerical control machine. In CNC system, most of the hardware function modules of NC are replaced by a stored program in computer. Software stored in computer performs the functions of data decoding, control, buffering, feed rare control etc.CNC machine tools are widely used due to many new control features available on these machines.

Specification of CNC

M/C Type: LT-2 LM500

M/C Number: 280

Year: 2016

Supply voltage: 380V/415V ,3PEN, 50Hz

Control volt: 24V.Dc

Back up fuse: 63Amps.

Rated current: 33/3/Amps

CVA Rating: 22Kva

Size of wire: 10sqmm.

Features of CNC Machines

- 1) The part program can be input to the controller unit through key board or the paper tape can be read by reader in the control unit.
- 2) The part program once entered into the computer memory can be used again and again.
- 3) The input information can be reproduced with use of spatial sub programs developed for repetitive machining sequences.
- 4) The control system can provide the information such as number of components produced, cycle time of components, job setting time, time for repair and diagnosis etc.

Advantages of CNC Machines

- 1) Reduced lead time
- 2) Elimination of operator error
- 3) Lower labour cost
- 4) High accuracy
- 5) Elimination of jig and fixture
- 6) Flexibility
- 7) Reduced inspection
- 8) Less scrap

Disadvantages of CNC Machine

- 1) Higher investment cost
- 2) Higher maintenance cost
- 3) Costlier CNC personnel
- 4) Planned support facility

Application area of CNC Machine

- 1) When operations are very complex.
- 2) The numbers of operation per component are large.
- 3) Batch size is medium.
- 4) Batches are often repeated.
- 5) When design changes or Individual variation are required on parts.
- 6) A large variety of components is produced.

- 7) The components required high skilled operator.
- 8) Components required sub satirical tooling.
- 9) Components are critical and require 100% Inspection.

Wire-cut EDM

Introduction of wire-cut EDM

In wire-cut EDM the electrode consists of thin wire. As the material removal is obtained through the continuously feed of wire in the work piece, the process is called as wire-cut EDM. This process is used for machining sheet metal dies, Extrusion dies and prototype part. It is relatively slow process (linear travel of the order of 100mm /hour) utilizing computer controlled machines.

Principle of Wire-cut EDM

1. It works on the principle of spark Erosion occurred due to electrical and thermal energy.
2. As the cutting tool is in the form of thin wire of diameter 0.05 to 0.25mm the wire of Allowed to pass through a predrilled hole in the work piece.
3. The Electrode wire made of copper or brass.
4. The wire is inserted in the drilled slot initially and moves part of work piece at the speed of 3m/min.

Control Parameters of Wire-cut EDM

- Discharge current
- Duration of pulse
- Frequency of pulse
- Wire diameter
- Wire tension
- Dielectric flow

Advantages of EDM

- Forming electrode of product shape is not required.
- Negligible wear of Electrode

- Machined surface are smooth
- High accuracy of geometrical and dimensions
- No tapering overcut
- No need of storage of tool
- High utilization of machine
- Low operating skills

Disadvantages of Wire-cut EDM

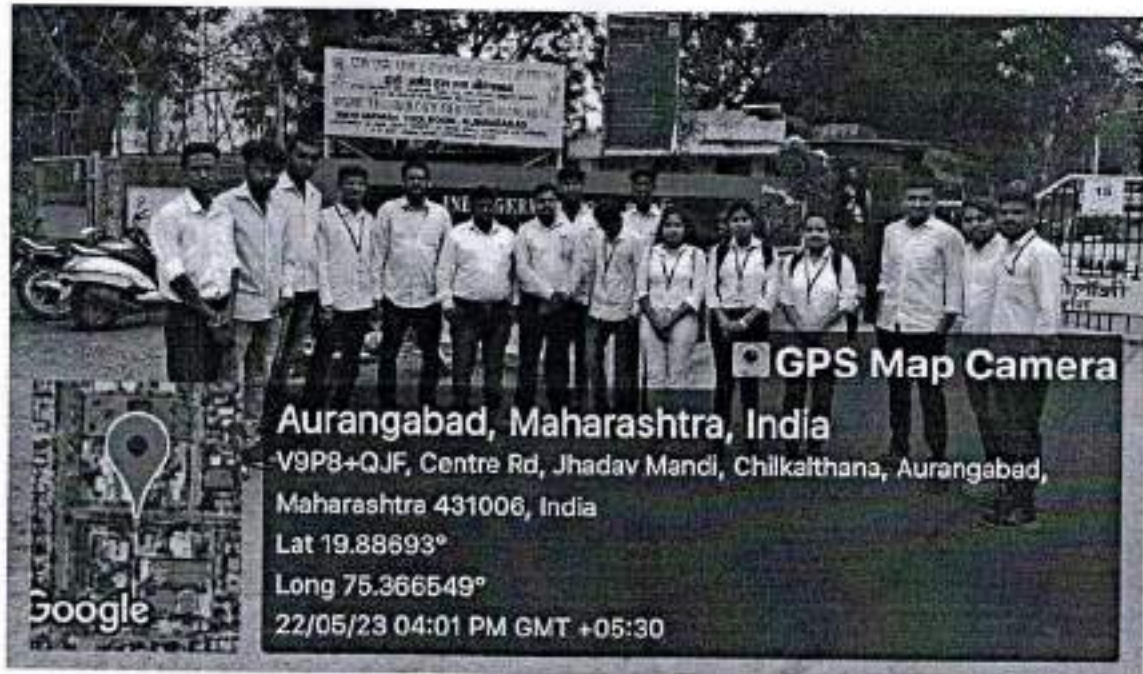
- The wire cut EDM machine is more expensive than other machines.
- High skill are required to handle the machine when programming facility is not available
- Only conductors work piece can be machined
- It has slow material removal rate
- Less flexible compared to other machines.

Applications of WIRE-CUT EDM

- Production of prototypes
- Small series of spare parts, turbine blades, aerospace parts etc.
- Stamping dies, drawing and Extrusion tools, molding dies.
- Sintering dies, blanking dies, spark erosion, electrodes.


Glimpses

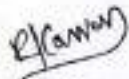




Conclusion

The visit was fruitful, and would help us in connecting the theoretical study in class with the practical applications of various tooling and machining processes used in industry. The visit also motivated us in many ways. We are excited to have more such industrial visits, field visits, internships, taking industrial projects, and take more of practical works including workshops on various concepts. Overall, we got a new viewpoint of approaching the same problem, and an experience we won't forget for their lifetime. We also have got some very exciting new ideas for the projects we are going to prepare in future based on various concepts, loopholes existing in the concepts, new and a fine-tuned approach for the same thing and the likes.


Prof. Md. Javed
Coordinator IV


Prof. R.L. Karwande
HMED

MSS's
COLLEGE OF ENGINEERING AND TECHNOLOGY, JALNA
DEPARTMENT OF MECHANICAL ENGINEERING
INDUSTRIAL VISIT REPORT

Name of industries visited: CIPET Aurangabad

Date: 08/06/2022, Wednesday

Total no. of students: 65

No. of faculty: 2

Faculty coordinator: Prof. Md. Javed, Prof. Md. Irfan,

Introduction

The college has arranged an Industrial visit for third year engineering students to study jig and fixtures, press tools, forging die, and injection moulds. The visit was organized with the prior permission and guidance of HON. Principal Dr. S. K. Biradar and Head of Mechanical Engineering Department, Prof. R. L. Karwande.

Industrial visit is a vital part of curriculum. It bridges classroom learning and real working worlds. The visit provides knowledge about the organizational structures and modes of operation in different industries.

OBJECTIVES OF INDUSTRIAL VISIT

- 1) To Know the Information about physical set up of Industry.
- 2) to understand the Press tool work/ tool room
- 3) Knowing about CNC/CAM and CAE centers.
- 4) To understand various moulding process.
- 5) CNC operated machining and programming.
- 6) Information about hydraulics, pneumatics and maintenance lab.
- 7) Practical application of tool's for making various parts.

Prologue

As the students got themselves comfortable in the buses after signing the undertakings, the bus, at 10:00 AM left the college premises and followed its path towards Aurangabad to our destination, IGTR Aurangabad.

About CIPET:

- 1.) Phone no.: 0240-2478302 to 340,
- 2.) Fax: 0240-2478333
- 3.) Address: Plot no. J- 3/2, MIDC Industrial Area, Chikalthana, Aurangabad-431006 (M.S.)
INDIA
- 4.) Academic help no: 9373687915, 0240-2478322,31,317,325
- 5.) Email: Aurangabad@cipet.gov.in
- 6.) Web site: www.cipet.gov.in

Profile

Central Institute of plastic engineering and technology (CIPET) was established in 1968 by Government of INDIA with the assistance of United Nations Development Programme (UNDP) at Chennai. Today CIPET is a premier national institution under the aegis of Ministry of Chemicals and Fertilizers, Government of India fully devoted to skill development, Technology Support Services, Academic and Research (STAR). CIPET operates on hub and spokes model with 28 locations - 5 High Learning Centre, 12 Other learning Centre, 3 Specialized Centre, 2 R&D Wings, 5 Vocational training Centre, 1 of Polymer and Allied Industries. 11 more centre are in process of establishment. CIPET has been accredited with ISO 9001:2008 QMS, ISO/IEC - 17025, ISO/IEC - 17020 certification on Design, Development and Conduct of specialized training courses in Plastics Engineering and Technology and rendering technical/consultancy services in design, tooling, plastics processing and testing for the benefit of plastics and allied industry. Besides, STAR activities, CIPET also plays pivotal role in generating employment opportunities especially for unemployed and underemployed youth, promoting entrepreneurs through various skill development and training programs.

About CIPET – Aurangabad

CIPET Centre at Aurangabad (Maharashtra) was established in the year 2006 and started functioning from its permanent campus spread over an area of 8.5 acres with effect from January 2011. CIPET Aurangabad is committed to provide state of the art technical services to plastics and allied industries of the State and to provide quality education to the students undergoing training in the institute creating technically qualified manpower to meet the requirement of industries at various levels.

Facilities at CIPET

The institute has various Functional and Support areas such as:

- Administrative block
- Tool Room
- Plastics Processing Workshop
- Plastics Testing Laboratories
- Plastics Mould Design Laboratories
- CAD/CAM/CAE Centre
- Hydraulics, Pneumatics and Maintenance Lab
- Fully furnished library
- Digital Library with E-Journals and Technical Videos
- Fully furnished class Rooms With Multimedia facility
- Conference Hall
- Video Conference Hall
- Fully furnished Hostel for 300 Boys and 100 Girls

Our visit to CIPET

We entered CIPET at 03:45 PM. Mobiles were not allowed and had to be switched off. We were not allowed to capture any images.

After entering CIPET we were taken to classroom, where we got seated and the faculty at CIPET introduced themselves and gave us some information about CIPET, plastics moulding, injection moulding, etc. and briefed us with what are we going to see during our visit. We were given to fill a training form, which we submitted to the CIPET faculty. Our class was divided into two groups, with 32 students in each group, and each group was going to visit the following lab departments at CIPET.



Group Photograph of Students along with Faculty Members at CIPET





Processing Department

In Processing Department, various Plastic Moulding and production facilities were present and manufacturing for their vendors. On the other side of the Processing department, a group of students were receiving training on plastic processing technology. All the college chores and teaching took place in day time. Most of the manufacturing work was done during night shifts.

Our instructor, the CIPET faculty, briefed us with some basic information on injection moulding and blow moulding before we set off to see an injection moulding machine.

Injection molding is the most commonly used manufacturing process for the fabrication of plastic parts. A wide variety of products are manufactured using injection molding, which vary greatly in their size, complexity, and application. The injection molding process requires the use of an injection molding machine, raw plastic material, and a mold. The plastic is melted in the injection molding machine and then injected into the mold, where it cools and solidifies into the final part.

The **blow moulding** process, in comparison with injection moulding, is a low pressure process with typical blow air pressures around 25 to 150 psi.

The first machine that we saw was a microprocessor controlled injection moulding. Its specifications were:

CF - 200T

Model - Sigma 200

CS - 500 mm

Max. Daylight - 1210 mm

Mould Height (min/max) - 300/710

Pattern size - 805x842

Distance Between Tie Bars - 95 mm/max

Ejector stroke - 130 mm/max

Min. mould area - 1180 cm²

Shot Capacity - 468 g

Injection Pressure - 1900 bar

Injection Rate - 246 cc/s

Injection screw rate - 250 mm

Screw Diameter - 50 mm

Various components of the injection moulding machine were:- Injection unit, screw, compressor, cutting zone, clamping system, toggle, LVDT, Limit Switches, etc.

We then set off to see another injection moulding machine which was continuously manufacturing plastic components. These plastic components were dipped in water for cooling. To these components, runners were attached which were scrapped by hand to be recycled.

Then we saw a film extrusion machine.

The equipment used in blown film extrusion is shown below. The method of making blown film distinguishes the process from other extrusion methods. The unique features about a blown film

extrusion line are the die, the method of cooling the film, the collapsing tower, and the film winder.

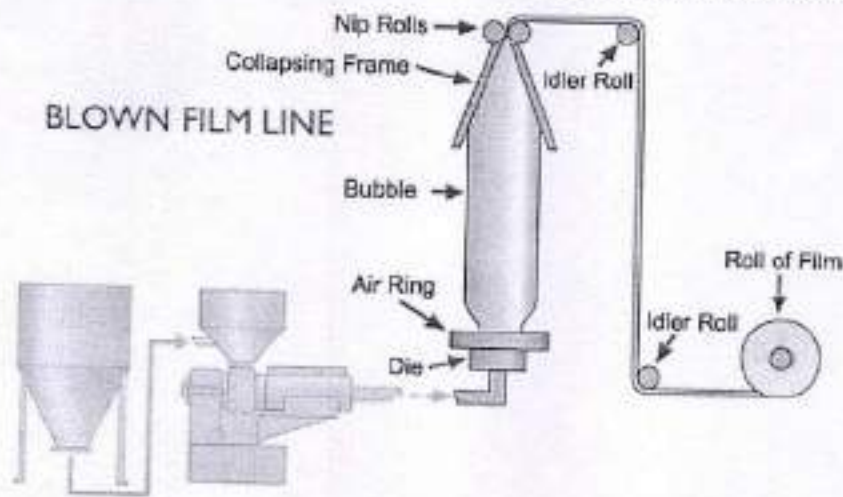


Image Courtesy : www.eastman.com

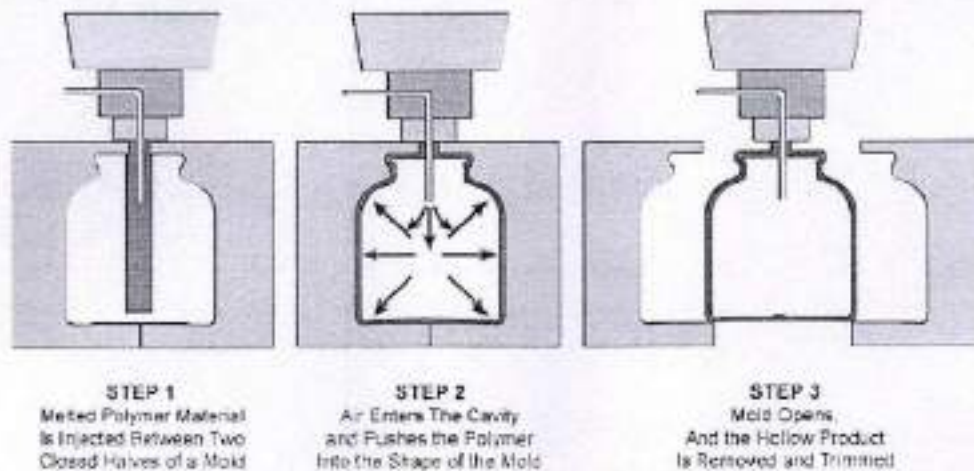
Air is introduced thru a hole in the center of the die to blow up the tube like a balloon. A high speed air ring mounted on top of the die blows into the hot film to cool it. The collapsing frame takes the bubble and collapses the tubular film before it is pulled through the nip rolls. The tube is flattened to create what is known as a "lay-flat" tube. The lay flat tube is taken back down the extrusion town via idler rolls. The film is either kept as such or the edges are slit off to produce two flat film sheets and wound into reels.

The next process that we saw was Extrusion blow molding.

Blow Molding (BM) process makes it possible to yield molded products economically, in unlimited quantities, with virtually no finishing required. There are basically four types of blow molding used in the production of plastic jugs, bottles and jars. These four types are Extrusion blow molding, Injection blow molding, Stretch blow molding, Reheat and blow molding.

Extrusion blow molding is simplest type of blow molding, where a hot tube of plastic material is dropped from an extruder and captured in water cooled mold. Once the molds are closed, air is passed through the top or the neck of the container; just as if one were blowing up a balloon.

BLOW MOLDING PROCESS



After seeing the proper functioning of the plastic manufacturing machines, we went to the classroom, before another instructor joined us to take us to the tool room.

In the tool room the first machine that we saw was a radial drilling machine. We also saw cylindrical grinders, universal tool and cutter grinders, surface grinders, BFW Vertical milling machine, a pantograph, and various lathe machines.

After seeing all the above machines, we ventured into the CNC section of the tool room, where we saw some unconventional type manufacturing machines.

We saw a CNC EDM machine (Electronica). Its specifications were:

Max. table movement (x*y*z) - 300*200*250

Table dimensions - 550 * 350

Max. job weight - 300 kg

Min job weight - 70 kg

Courses offered by CIPET Aurangabad

Following AICTE approved Long term academic programmes are offered at the institute:

1.) PG Diploma Program

- PG Diploma in Plastics Processing and Testing
- PG diploma in Plastics Testing and Quality Control

2.) Post Diploma Program

- Post diploma in Plastics Mould Design With CAD/CAM

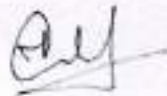
3.) Diploma Programs

- Diploma in Plastics Technology
- Diploma in Plastics Mould Technology

CIPET also offers various short term courses for vocational training

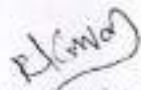
Conclusion of a very fruitful visit to CIPET

The visit was fruitful, and would help us in connecting the theoretical study in class with the practical applications of various tooling and machining processes used in industry. The visit also motivated us in many ways. We are excited to have more such industrial visits, field visits, internships, taking industrial projects, and take more of practical works including workshops on various concepts. Overall, we got a new viewpoint of approaching the same problem, and an experience we won't forget for their lifetime. We also have got some very exciting new ideas for the projects we are going to prepare in future based on various concepts, loopholes existing in the concepts, new and a fine-tuned approach for the same thing and the likes.



Prof.M.Javed

CO ORDINATOR



Prof.R.L. Karwande

HOD



Prof.Dr.S.K.Biradar

PRINCIPAL

MSS's

COLLEGE OF ENGINEERING AND TECHNOLOGY, JALNA

DEPARTMENT OF MANAGEMENT

INDUSTRIAL VISIT REPORT

Name of industries visited: IGTR Aurangabad

Date: 08/06/2022, Wednesday

Total no. of students: 40

No. of faculty: 2

Faculty coordinator: Prof. S.N.Dhole, Prof. Md.Irfan.

Introduction

The college has arranged an Industrial visit for Management students to study production and operations, Management ,Inventory systems, study jig and fixtures, press tools, forging die, and injection moulds. The visit was organized with the prior permission and guidance of Hon. Principal Dr. S. K. Biradar and Head of Management Department Prof. Md.Irfan.

Industrial visit is a vital part of curriculum. It bridges classroom learning and real working worlds. The visit provides knowledge about the organizational structures and modes of operation in different industries.

OBJECTIVES OF INDUSTRIAL VISIT

- 1) To Know the Information about physical set up of Industry.
- 2) to understand the Press tool work/ tool room
- 3) Knowing about CNC/CAM and CAE centers.
- 4) To understand various moulding process.
- 5) CNC operated machining and programming.
- 6) Information about hydraulics, pneumatics and maintenance lab.
- 7) Practical application of tool's for making various parts.



Prologue

As the students got themselves comfortable in the buses after signing the undertakings, the bus, at 10:00 AM left the college premises and followed its path towards Aurangabad to our destination, IGTR Aurangabad.

Indo German Tool Room (IGTR), Aurangabad

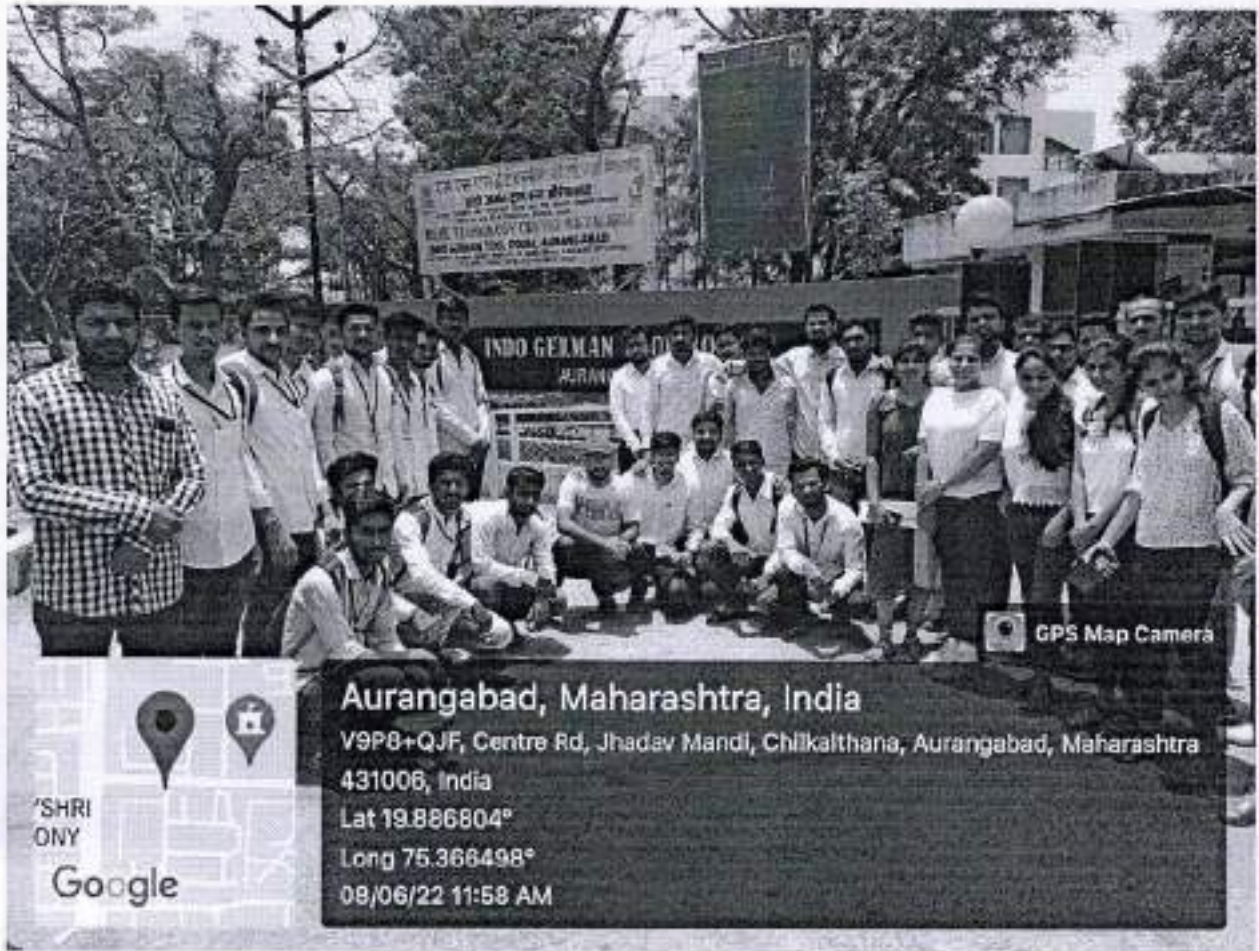
Government of India, Ministry of micro, small & medium Enterprises

Area of Industrial visit: MIDC, Industrial Area, Chikhalthana, Aurangabad 431006 (MS) INDIA.

Date: 08-06-2022

Time: 10:00AM TO 1.00 PM





Group Photograph of Students at IGTR



Departments and Classification of process

We Visited Following IGTR departments at IGTR.

- 1) Production Department
- 2) Tool room



Press Working

Press working may be defined as chip less manufacturing process by which various components are made from sheet metal. This process is also termed as cold stamping. The sheet metal operation done on a press may be into two categories, cutting operation and forming operations. In cutting operations, the work piece is stressed beyond ultimate strength.

These operations are

- 1) Blanking
- 2) Punching
- 3) Notching
- 4) Deforming
- 5) Trimming
- 6) Shaving
- 7) Slitting
- 8) Lancing
- 9) Nibbling

Forming operations are

- 1) Bending
- 2) Drawing
- 3) Squeezing



Applications:

- 1) To make Automobile parts, Gears, Brakes, Clutch plates etc.
- 2) Parts make by sheet metal working, car body parts.

Moulding

- Mould is defined as a cavity in which molten metal is poured and allowed it to cool so as to product. Such cavity may be formed with the help of pattern. The process of making mould is known as moulding.
- A pattern of making mould is known as moulding
- A pattern is having its shape and size approximately similar to that of the desired component. Moulding is the process of making a mould.
- Moulds are normally made from heat resisting materials like sand and clay.
- Sand is widely used mould material for casting ferrous and non-ferrous materials.

Non-Conventional Machines

CNC Machine is the Machine tool which is operated and controlled by using dedicated computers is known as computerized numerical control machine. In CNC system, most of the hardware function modules of NC are replaced by a stored program in computer. Software stored in computer performs the functions of data decoding, control, buffering, feed rare control etc.CNC machine tools are widely used due to many new control features available on these machines.

Specification of CNC

M/C Type: LT-2 LM500

M/C Number: 280

Year: 2016

Supply voltage: 380V/415V ,3PEN, 50Hz

Control volt: 24V.Dc

Back up fuse: 63Amps.

Rated current: 33/3/Amps

CVA Rating: 22Kva

Size of wire: 10sqmm.



Features of CNC Machines

- 1) The part program can be Input to the controller unit through key board or the paper tape can be read by reader in the control unit.
- 2) The part program once entered into the computer memory can be used again and again.
- 3) The input information can be reproduced with use of spatial sub programs developed for repetitive machining sequences.
- 4) The control system can provide the information such as number of components produced, cycle time of components, job setting time, time for repair and diagnosis etc.

Advantages of CNC Machines

- 1) Reduced lead time
- 2) Elimination of operator error
- 3) Lower labour cost
- 4) High accuracy
- 5) Elimination of jig and fixture
- 6) Flexibility
- 7) Reduced inspection
- 8) Less scrap

Disadvantages of CNC Machine

- 1) Higher investment cost
- 2) Higher maintenance cost
- 3) Costlier CNC personnel
- 4) Planned support facility

Application area of CNC Machine

- 1) When operations are very complex.
- 2) The numbers of operation per component are large.
- 3) Batch size is medium.
- 4) Batches are often repeated.
- 5) When design changes or Individual variation are required on parts.
- 6) A large variety of components is produced.
- 7) The components required high skilled operator.
- 8) Components required sub satirical tooling.
- 9) Components are critical and require 100% Inspection.



Wire-cut EDM

Introduction of wire-cut EDM

In wire-cut EDM the electrode consists of thin wire. As the material removal is obtained through the continuously feed of wire in the work piece, the process is called as wire-cut EDM. This process is used for machining sheet metal dies, Extrusion dies and prototype part. It is relatively slow process (linear travel of the order of 100mm /hour) utilizing computer controlled machines.

Principle of Wire-cut EDM

1. It works on the principle of spark Erosion occurred due to electrical and thermal energy.
2. As the cutting tool is in the form of thin wire of diameter 0.05 to 0.25mm the wire of Allowed to pass through a predrilled hole in the work piece.
3. The Electrode wire made of copper or brass.
4. The wire is inserted in the drilled slot initially and moves part of work piece at the speed of 3m/min.

Control Parameters of Wire-cut EDM

- Discharge current
- Duration of pulse
- Frequency of pulse
- Wire diameter
- Wire tension
- Dielectric flow

Advantages of EDM

- Forming electrode of product shape is not required.
- Negligible wear of Electrode
- Machined surface are smooth
- High accuracy of geometrical and dimensions
- No tapering overcut
- No need of storage of tool
- High utilization of machine
- Low operating skills



Disadvantages of Wire-cut EDM

- The wire cut EDM machine is more expensive than other machines.
- High skill are required to handle the machine when programming facility is not available
- Only conductors work piece can be machined
- It has slow material removal rate
- Less flexible compared to other machines.

Applications of WIRE-CUT EDM


- Production of prototypes
- Small series of spare parts, turbine blades, aerospace parts etc.
- Stamping dies, drawing and Extrusion tools, molding dies.
- Sintering dies, blanking dies, spark erosion, electrodes.

Conclusion of a very fruitful visit to IGTR

The visit was fruitful, and would help us in connecting the theoretical study in class with the practical applications of various tooling and machining processes used in industry. The visit also motivated us in many ways. We are excited to have more such industrial visits, field visits, internships, taking industrial projects, and take more of practical works including workshops on various concepts. Overall, we got a new viewpoint of approaching the same problem, and an experience we won't forget for their lifetime. We also have got some very exciting new ideas for the projects we are going to prepare in future based on various concepts, loopholes existing in the concepts, new and a fine-tuned approach for the same thing and the likes.


Prof. S.N. Dhole

Visit In Charge


Prof. Md. Irfan
HoD



② Visits
Combine Report.

MSS's
COLLEGE OF ENGINEERING AND TECHNOLOGY, JALNA
DEPARTMENT OF MBA
INDUSTRIAL VISIT REPORT

Name of industries visited: Kalash Seeds Pvt. Ltd. & Kalika Steel Alloys Pvt.Ltd. Jalna.MS.

Date: 17/12/2022

Total no. of students: 25

No. of faculty: 02

Faculty coordinator: Prof. S.N.Dhole, Prof. Md.Irfan.

Introduction

The college has arranged Industrial visit for Management students to study in Kalash seeds Pvt.Ltd. Vegetable seed sowing, growing, and doing research & Kalika Steel Alloy Pvt. Ltd TMT Bar Manufacturing with advance Rolling mills & Leading Machinery. The visit was organized with the prior permission and guidance of HON. Principal Dr. S. K. Biradar and Head of Management Department, Prof. Md.Irfan.

Industrial visit is a vital part of curriculum. It bridges classroom learning and real working worlds. The visit provides knowledge about the organizational structures and modes of operation in different industries.

OBJECTIVES OF INDUSTRIAL VISIT

- 1) To Know the Information about Vegetable seed sowing, growing
- 2) To understand the research & Marketing
- 3) Knowing about TMT Bar Manufacturing with advance Rolling mills & Leading Machinery



About Kalash Seeds Pvt. Ltd. Jalna M.S.

- Kalash Seeds Pvt Ltd is a leading seed company in India doing Research & Marketing in tropical vegetable
- Presently among top 5 Companies in India in vegetable seeds industry
- Recently started focusing on SAARC countries
- Our sister concern Beej Sheetal is active in Research since the last 30 years
- There is steady growth of turnover as the research products are giving very good results in the market.
- In Indian Vegetable Seed market, Kalash has already achieved market leadership in chili, pumpkin, beetroot, onion, broccoli, muskmelon

About Kalika Steel Alloy Pvt. Ltd. Jalna M.S.

Established in 2003, Kalika has grown to be known as one of the best brands with world-class infrastructure and a fully automated plant equipped with superior Primetal Technology (SIEMENS-VAI). Founded on the strong principles of integrity, transparency, and excellence, Kalika has consistently delivered the finest quality to its customers and created a positive, productive environment for employees with environment-friendly practices. With sheer dedication and a constant need for self-improvement, Kalika has always challenged the standards and invested in practices that lead to exemplary work.

The mechanical properties of bars are tested through — Section Weight: 'Weight per Meter' of the bars as per IS: 1786:2008 is checked by taking out sample after every thirty minutes. Standards weight is always maintained within BIS tolerance.

Load Test : Yield Load, Ultimate Tensile Load and Elongation are tested using UTM of 100 Ton capacity.

Bend Test: as per sizes specified in IS code, the bend test is carried out by bending the bars on mandrel.

Re-bend Test: Bars are bent at an angel of 1350C, kept in boiling water at 1 000C for 30 minutes and then bent back at an of 1 57.50 C

After all these tests, lot-wise tagging, packing, storage, and dispatch of the material start.





GPS Map Camera



Jalna, Maharashtra, India

Chikhali(Maharashtra) Bus Stand, Vyankatesh Nagar, Jalna,

Maharashtra 431203, India

Lat 19.842756°

Long 75.920484°

17/12/22 12:44 PM GMT +05:30





GPS Map Camera

Jalna, Maharashtra, India

Chikhali(Maharashtra) Bus Stand, Vyankatesh Nagar, Jalna,
Maharashtra 431203, India

Lat 19.842877°

Long 75.920652°

17/12/22 12:46 PM GMT +05:30





GPS Map Camera

Jalna, Maharashtra, India

RVX4+FR9, Jalna Industrial Area MIDC, Jalna, Maharashtra
431213, India

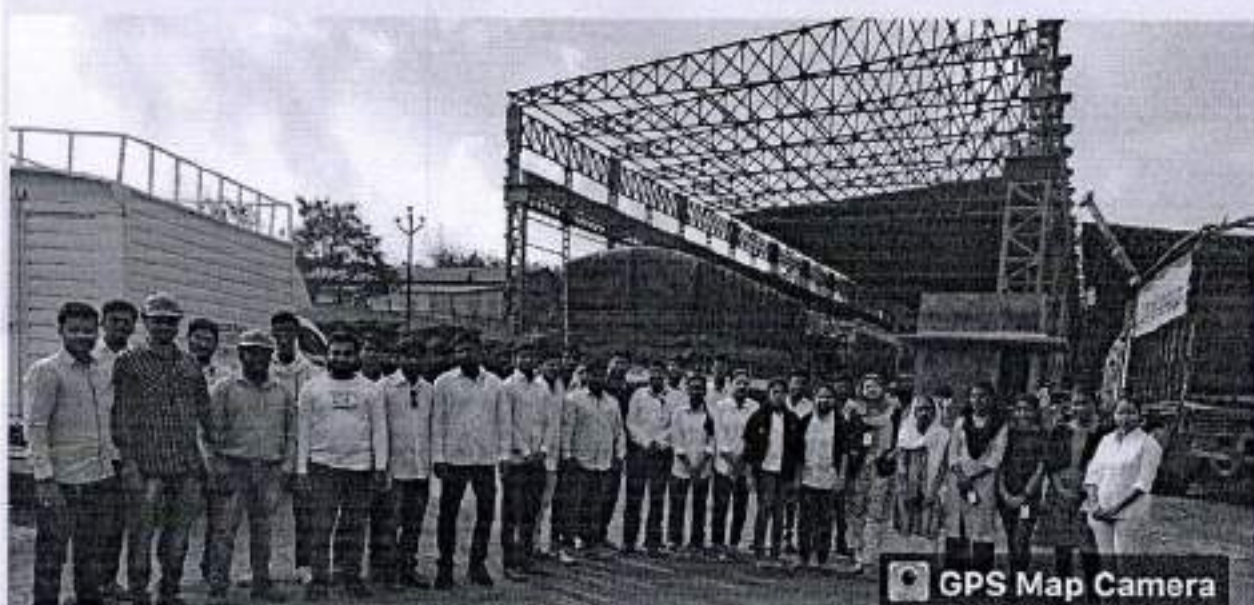
Lat 19.849298°

Long 75.856865°

17/12/22 02:51 PM GMT +05:30

Google





GPS Map Camera




Jalna, Maharashtra, India
RVX4+FR9, Jalna Industrial Area MIDC, Jalna, Maharashtra
431213, India
Lat 19.849264°
Long 75.856841°
17/12/22 03:03 PM GMT +05:30



Conclusion of a very fruitful visit to Kalash Seeds Pvt. Ltd. & Kalika Steel Alloys Pvt.Ltd. Jalna.MS.

The visit was fruitful, and would help us in connecting the theoretical study in class with the practical applications of various tooling and machining processes used in industry. The visit also motivated us in many ways. We are excited to have more such industrial visits, field visits, internships, taking industrial projects, and take more of practical works including workshops on various concepts. Overall, we got a new viewpoint of approaching the same problem, and an experience we won't forget for their lifetime. We also have got some very exciting new ideas for the projects we are going to prepare in future based on various concepts, loopholes existing in the concepts, new and a fine-tuned approach for the same thing and the likes.



Prof. S.N.Dhole

Visit In Charge



Prof. Md.Irfan

HoD



MSS's

COLLEGE OF ENGINEERING AND TECHNOLOGY, JALNA

DEPARTMENT OF MECHANICAL ENGINEERING

INDUSTRIAL VISIT REPORT

Name of industries visited: Kalash Seeds Pvt. Ltd. & Kalika Steel Alloys Pvt.Ltd. Jalna.MS.

Date: 17/12/2022

Total no. of students: 30

No. of faculty: 03

Faculty coordinator: Prof. G.A.Matre

Introduction

The college has arranged Industrial visit for second year engineering students to study in Kalash seeds Pvt.Ltd. Vegetable seed sowing, growing, and doing research & Kalika Steel Alloy Pvt. Ltd TMT Bar Manufacturing with advance Rolling mills & Leading Machinery. The visit was organized with the prior permission and guidance of HON. Principal Dr. S. K. Biradar and Head of Mechanical Engineering Department, Prof. R. L. Karwande.

Industrial visit is a vital part of curriculum. It bridges classroom learning and real working worlds. The visit provides knowledge about the organizational structures and modes of operation in different industries.

OBJECTIVES OF INDUSTRIAL VISIT

- 1) To Know the Information about Vegetable seed sowing, growing
- 2) To understand the research & Marketing
- 3) Knowing about TMT Bar Manufacturing with advance Rolling mills & Leading Machinery

About Kalash Seeds Pvt. Ltd. Jalna M.S.

- Kalash Seeds Pvt Ltd is a leading seed company in India doing Research & Marketing in tropical vegetable
- Presently among top 5 Companies in India in vegetable seeds industry
- Recently started focusing on SAARC countries
- Our sister concern Beej Sheetal is active in Research since the last 30 years
- There is steady growth of turnover as the research products are giving very good results in the market.
- In Indian Vegetable Seed market, Kalash has already achieved market leadership in chili, pumpkin, beetroot, onion, broccoli, muskmelon

About Kalika Steel Alloy Pvt. Ltd. Jalna M.S.

Established in 2003, Kalika has grown to be known as one of the best brands with world-class infrastructure and a fully automated plant equipped with superior Primetal Technology (SIEMENS-VAI). Founded on the strong principles of integrity, transparency, and excellence, Kalika has consistently delivered the finest quality to its customers and created a positive, productive environment for employees with environment-friendly practices. With sheer dedication and a constant need for self-improvement, Kalika has always challenged the standards and invested in practices that lead to exemplary work.

The mechanical properties of bars are tested through — Section Weight: 'Weight per Meter' of the bars as per IS: 1786:2008 is checked by taking out sample after every thirty minutes. Standards weight is always maintained within BIS tolerance.

Load Test : Yield Load, Ultimate Tensile Load and Elongation are tested using UTM of 100 Ton capacity.

Bend Test: as per sizes specified in IS code, the bend test is carried out by bending the bars on mandrel.

Re-bend Test: Bars are bent at an angle of 135^oC, kept in boiling water at 100^oC for 30 minutes and then bent back at an angle of 157.5^o C

After all these tests, lot-wise tagging, packing, storage, and dispatch of the material start.



Bee|Sheetal

GPS Map Camera

Jalna, Maharashtra, India

Chikhali(Maharashtra) Bus Stand, Vyankatesh Nagar, Jalna,
Maharashtra 431203, India

Lat 19.842756°

Long 75.920484°

17/12/22 12:44 PM GMT +05:30

Google



GPS Map Camera

Jalna, Maharashtra, India

Chikhali(Maharashtra) Bus Stand, Vyankatesh Nagar, Jalna,

Maharashtra 431203, India

Lat 19.842877°

Long 75.920652°

17/12/22 12:46 PM GMT +05:30

Google



GPS Map Camera

Jalna, Maharashtra, India

RVX4+FR9, Jalna Industrial Area MIDC, Jalna, Maharashtra
431213, India

Lat 19.849298°

Long 75.856865°

17/12/22 02:51 PM GMT +05:30

Google



GPS Map Camera



Jalna, Maharashtra, India

RVX4+FR9, Jalna Industrial Area MIDC, Jalna, Maharashtra

431213, India

Lat 19.849264°

Long 75.856841°

17/12/22 03:03 PM GMT +05:30

Conclusion of a very fruitful visit to Kalash Seeds Pvt. Ltd. & Kalika Steel Alloys Pvt.Ltd. Jalna.MS.

The visit was fruitful, and would help us in connecting the theoretical study in class with the practical applications of various tooling and machining processes used in industry. The visit also motivated us in many ways. We are excited to have more such industrial visits, field visits, internships, taking industrial projects, and take more of practical works including workshops on various concepts. Overall, we got a new viewpoint of approaching the same problem, and an experience we won't forget for their lifetime. We also have got some very exciting new ideas for the projects we are going to prepare in future based on various concepts, loopholes existing in the concepts, new and a fine-tuned approach for the same thing and the likes.


Prof. G.A. Matre

Visit In Charge


Prof. R.L. Karwande

HMED


PRINCIPAL
MSS's College of
Engg. & Techn. Jalna.

Certificate of Training

This is to certify that **Mrs. GANESH RAGHUNATH KHARAT.** Student of Third year (6th SEM), Mechanical Engineering at Matsyodari Shikshan sanstha's college of Engineering & Technology Nagewadi, Jalna, Aurangabad Has undergone internship from **17/02/2023 To 17/03/2023** is Successfully Completed. He has been very sincere, keep to learn and hardworking during this period.

We wish his every success in life.

You're faithfully

GANESH KHARAT

*Aniket
Tadav*

Utility department head

Mr. Aniket Jadhav

CERTIFICATE OF ACHIEVEMENT

This certificate is presented to

Vaibhav Vishnu Veer

for successfully completing a Course about

Certified No.
1363697064



2023-02-21

Date



mindluster

Signature



This certificate is presented to

Sushil Kumar Gupta

for the completion of

**Effective communication in the workplace | The
Open University**

(URL-C10D3E095F80)

As indicated by this learner

Date : 31/01/2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.Narendra Uttam Dabhade** had successfully completed in-plant training from **01/01/2023** to **31/01/2023**. During this period he has worked in Bhagyalaxmi Rolling Mill Pvt Ltd.
During the training he was sincere and enthusiast.

With good wishes
For further Development.


(Authorized Signatory)
Bhagyalaxmi Rolling Mill Pvt.Ltd.



Bhagyalaxmi Rolling Mill Pvt. Ltd.

Works Address : Plot No. G-7, G-8, G-9, G-10/1, G-10/2, Addl. MIDC Phase-II & Gut No. 30, 35, Village Dargagan,
Jalna - 431 213, Maharashtra, Bharat.
Regd. Off. : Flat No. 602, Building No. 5A/B, Versova Heights Co-operative Housing Society Limited,
New Mhada Colony, Near Lokhandwala Circle, Veera Desai Road, Behind Indralok, Andheri (W),
Mumbai - 400 054, India.



Feb 23, 2024, 19:59

TRAINING APPOINTMENT LETTER

Name: -Ganesh Patilba Kale

Date: - 17.02.2023

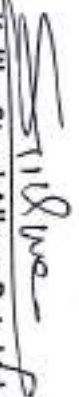
Subject: - **Appointment as Trainee in our Company**

Dear Ganesh,

We are glad to inform you that you have been selected for the position of a Mill Operation trainee in our company with the Mechanical Maintenance Cooling Bed for a Period of four Weeks. During this training probation period you are required to undertaken all duties and activities as assigned to you.

We assure you of our support for your Training development and growth.

HR Department,


Kalika Steel Alloys Pvt. Ltd. Jalna



KALIKA STEEL ALLOYS PVT. LTD.
MFG: MS BILLETS, TMT BARS & ROUND BARS

Workshop: C-7-11, Additional MIDC, Phase 1, Jalna - 431 213, Maharashtra. Tel: +91- 2482-258151/52/53
Reg. Office: Office No.412, Shreehanu Chambers Premises, Slon Torreyday Road, Chembur, Mumbai - 400071
Email: sales@kalikasteels.com, kalikajalna@gmail.com | Website: www.kalikasteels.com
CIN No.: U27000MH2002PTC137689

HELLER

Heller India Private Limited | Plot no 118 MIDC Bhosari | 411 026 Pune

Contact:
Mahesh Tyagi

Phone : +91 96899 38701

Fax : +91 96899 38701

E-mail : mahesh.tyagi@heller.biz

Date: 01 September 2023

CERTIFICATE OF TRAINING

This is to certify that Mr. Yogesh Bhimrao Gaikwad, student of Third year (6th Sem), B-Tech (Mechanical Engineering) at Matsyodari Shikshan Sanstha's college of Engineering & Technology Nagewadi, Jalna, Aurangabad, has undergone Industrial Training from 02/08/2023 To 31/08/2023 in our company & had completed it successfully.

During this training period we found him sincere, obedient learner and hardworking.

We wish him success in his future prospects.

Your's faithfully

For Heller India Private Limited



Authorised Signatory



Feb 23, 2024, 19:59

INNOVATIVE TOOLING SOLUTION

Gut No.34/36, Plot No. 21/4, Shri-Sai Industrial Estate, Behind Savera Auto K88,
MIDC Waluj, Aurangabad. Maharashtra-431136
Design Of- Jigs & Fixture, Relation Gauge, Press Tools, S.P.M & Drafting Works.
Email : aniltooldesign@rediffmail.com , Mob. No :- 9764977901

DATE: 03/04/2023

Certificate of Training

This is to certify that Mrs. MUSTAK MUSAKHAN PATHAN. Student of Third year (6th SEM), Mechanical Engineering at Matsyodari Shikshan sanstha's college of Engineering & Technology Nagewadi, Jalna, Aurangabad Has undergone internship from 01/03/2023 To 03/04/2023 is Successfully Completed. He has been very sincere, keep to learn and hardworking during this period.

We wish his every success in life.



FOR INNOVATIVE TOOLING SOLUTION

सिपेट : सेन्टर फॉर स्किलिंग एण्ड
टेक्निकल सपोर्ट (सी एस टी एस)

रसायन एवं पेट्रोकेमिकल विभाग
रसायन एवं उर्वरक संशोधन, भारत सरकार
प्लॉट नं. जे-3/2, एम.आर्.डी.सी. औद्योगिक क्षेत्र,
चिकलथाना, श्रीरंगपट्ट - 431006
फोन : 0240-2478302-334
फैक्स : 0240-2478333
ईमेल : aurangabad@cipet.gov.in / cipetahbad@gmail.com
वेबसाइट : www.cipet.gov.in
मुख्यालय : सिवेट, गिन्दी, चेंनी-600 032



**CIPET : CENTRE FOR SKILLING AND
TECHNICAL SUPPORT (CSTS)**
Department of Chemicals & Petrochemicals,
Ministry of Chemicals & Fertilizers, Govt. of India
Plot No. J-3/2, MIDC Industrial Area,
Chikalthana, Aurangabad - 431006.

Tel. : 0240-2478302-334
Fax : 0240 - 2478333
E-mail : aurangabad@cipet.gov.in / cipetahbad@gmail.com
website : www.cipet.gov.in
Head Office : CIPET, Gulndy, Chernal-600 032

Centre: - Aurangabad

Certificate No. AVR/2021/785

CERTIFICATE

This is to certify that

Shri/Smt. M/s. Prady Vishnu Indalkar

S/o / D/o M/sa. Vishnu Baburao Indalkar

*Has successfully completed the 96hour Training Programme of 45hrs duration titled
"Basic Solid Modeling Using PRO-E (CRGEO)"*

Organised at CIPET: CSTS, AURANGABAD from ..09/08/2021.. to ...17/09/2021.....

Date: 23/11/2021

Course Coordinator

Training VTC

Director & Head



INTERNSHIP APPOINTMENT LETTER

VITTHAL JIJABHAU SHINDE

Durga Nagar,

Chandanzira Jalna

Maharashtra -431203

Date: - 15.02.2023

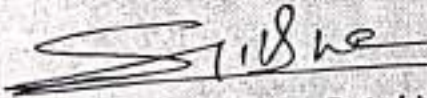
Subject: - Appointment as Trainee in our Company

Dear Vitthal,

We are glad to inform you that you have been selected for the position of a **Mechanical Engineer** in our company with the **Furnace Maintenance** for a Period of from **17.02.2023 to 17.03.2023**. During this training probation period you are required to undertaken all duties and activities as assigned to you.

We assure you of our support for your Internship Training development and growth.

HR Department



Kalika Steel Alloys Pvt. Ltd. Jalna



KALIKA STEEL ALLOYS PVT. LTD.
MFG: MS BILLETS, TMT BARS & ROUND BARS

Feb 23, 2024, 19:59

Works: C-7-11, Additional MIDC, Phase 1, Jalna - 431 213, Maharashtra. Tel: +91- 2482-258151/52/53
Reg. Office: Office No.412, Shreekant Chambers Premises, Sion Trombay Road, Chembur, Mumbai - 400071
Website: www.kalikasteels.com | kalikajalna@gmail.com | Website: www.kalikasteels.com

Date: 2023-06-16

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Shrimant Hanumant Nikam (Intern ID- 111535)** has successfully completed the Internship in **Sales & Marketing** presented by **PHN Technology Pvt Ltd, Pune.**

This program was designed to provide valuable hands-on experience and practical knowledge in **Sales & Marketing**. Through active participation and dedication, he/she has demonstrated exceptional skills, commitment, and a strong work ethic.

During the internship, he/she actively contributed to **Sales & Marketing** and exhibited professionalism, adaptability, and a willingness to learn. Their enthusiasm and positive attitude have made a significant impact on the overall success of the program.

We extend our sincere appreciation to **Shrimant Hanumant Nikam** for their valuable contributions and dedication throughout the duration of the virtual internship program.

Internship tenure was from **06/04/2023** to **06/06/2023**.

Pradip Narayankar

Pradip Narayankar
Director
PHN Technology Pvt. Ltd.



Document ID- PHN_20230616450

SHIV AUTO PARTS GARAGE

At-In Front of Sahyadri Hotel Badnapur Dist. Jalna
E-mail-rameshwarmadan@gmail.com Mob.No-9665923669

DATE:-

IN-PLANT TRAINING CERIFICATE

This is to certify that **Mr. CHAVAN SUNILKUMAR MURLIDHAR** Student of Third year (6th SEM), Mechanical Engineering at Matsyodari Shikshan sanstha's college of Engineering & Technology Nagewadi, Jalna,

Has undergone internship from **17/02/2023** to **17/03/2023** is Successfully Completed. He has been very sincere, keep to learn and hardworking during this period.

We wish his every success in life

You're faithfully

SHIV AUTO PARTS GARAGE

SHIV AUTO PARTS GARAGE
SHIV AUTO PARTS GARAGE
SHIV AUTO PARTS GARAGE

Feb 23, 2024, 19:59



Scanned with OKEN Scanner

SHIV AUTO PARTS GARAGE

At-In Front of Sahyadri Hotel Badnapur Dist. Jalna
E-mail-rameshwarmadan@gmail.com Mob.No-9665923669

DATE:-

IN-PLANT TRAINING CERIFICATE

This is to certify that Mr. **KALLUPURAKAL JOEL FRANCIS** Student of Third year (6th SEM), Mechanical Engineering at Matsyodari Shikshan sanstha's college of Engineering & Technology Nagewadi, Jalna,

Has undergone internship from **17/02/2023** to **17/03/2023** is Successfully Completed. He has been very sincere, keep to learn and hardworking during this period.

We wish his every success in life

You're faithfully

SHIV AUTO PARTS GARAGE

शिव ऑटो पार्ट्स गॅराज अ. नं. १

 ज. नं. १

SHIV AUTO PARTS GARAGE

At-In Front of Sahyadri Hotel Badnapur Dist. Jalna
E-mail-rameshwarmadan@gmail.com Mob.No-9665923669

DATE:-

IN-PLANT TRAINING CERIFICATE

This is to certify that **Mr. KALE LAKSHMAN RUSHINDRA** Student of
Third year (6th SEM), Mechanical Engineering at Matsyodari Shikshan sanstha's
college of Engineering & Technology Nagewadi, Jalna,

Has undergone internship from **17/02/2023 to 17/03/2023** is Successfully
Completed. He has been very sincere, keep to learn and hardworking during this
period.

We wish his every success in life

You're faithfully

SHIV AUTO PARTS GARAGE

SHIV AUTO PARTS GARAGE
SHIV AUTO PARTS GARAGE
SHIV AUTO PARTS GARAGE

Feb 23, 2024, 19:59



Scanned with OKEN Scanner

SHIV AUTO PARTS GARAGE

At-In Front of Sahyadri Hotel Badnapur Dist. Jalna
E-mail-rameshwarmadan@gmail.com Mob.No-9665923669

DATE:-

IN-PLANT TRAINING CERIFICATE

This is to certify that **Mr. RAVIRAJ MADAN NIVRUTI** Student of
Third year (6th SEM), Mechanical Engineering at Matsyodari Shikshan sanstha's
college of Engineering & Technology Nagewadi, Jalna,

Has undergone internship from **17/02/2023** to **17/03/2023** is Successfully
Completed. He has been very sincere, keep to learn and hardworking during this
period.

We wish his every success in life

You're faithfully

SHIV AUTO PARTS GARAGE

शिव अटॉ पॉर्ट्स गॅरॅज



रामेश्वर

SHIV AUTO PARTS GARAGE

At-In Front of Sahyadri Hotel Badnapur Dist. Jalna
E-mail-rameshwarmadan@gmail.com Mob.No-9665923669

DATE:-

IN-PLANT TRAINING CERIFICATE

This is to certify that **Mr. JAKIR RAMJAN NAVRANGBADE** Student of Third year (6th SEM), Mechanical Engineering at Matsyodari Shikshan sanstha's college of Engineering & Technology Nagewadi, Jalna,

Has undergone internship from **17/02/2023** to **17/03/2023** is Successfully Completed. He has been very sincere, keep to learn and hardworking during this period.

We wish his every success in life

You're faithfully

SHIV AUTO PARTS GARAGE

शिव अटो पार्ट्स गॅराज

Smuday जाणवटा

SHIV AUTO PARTS GARAGE

At-In Front of Sahyadri Hotel Badnapur Dist. Jalna
E-mail-rameshwarmadan@gmail.com Mob.No-9665923669

DATE:-

IN-PLANT TRAINING CERIFICATE

This is to certify that **Mr. SAYYED REHAN** Student of Third year (6th SEM), Mechanical Engineering at Matsyodari Shikshan sanstha's college of Engineering & Technology Nagewadi, Jalna,

Has undergone internship from **17/02/2023** to **17/03/2023** is Successfully Completed. He has been very sincere, keep to learn and hardworking during this period.

We wish his every success in life

You're faithfully

SHIV AUTO PARTS GARAGE

शिव अटा गरज अटा पा.

प्रिन्सिपल





RANGOLI ENTERPRISES

HR/2023/97789545

25.04.2023

CERTIFICATE

This is to certify that Mr. Devendra Anurodh Jangid , student of Matsyodari Shikshan Sastha's College of Engineering and Technology Jalna, has successfully completed his Internship at RANGOLI ENTERPRISES ICHALKARANJLI, from **17.02.2023** to **17.03.2023**.

During the above period, he was placed in our "Turning And Milling Shop" .

The candidate was found to be enthusiastic and observant during his short stint in RANGOLI ENTERPRISES, ICHALKARANJLI. his performance has been assessed as **Very Good**.


PRANAV SUHAS PANDHARPATTE
MANAGER HR

RANGOLI ENTERPRISES

Manufacturing Of Automobile Component And CNC/VMC Unit

Address: 18/607, Shahunagar, ICHALKARANJLI-416115, Ta. Hatkanangle, Dist. Kolhapur, Maharashtra



RANGOLI ENTERPRISES

HR/2023/97789545


25.04.2023

CERTIFICATE

This is to certify that **Mr. Akash Deepak Dhawle**, student of **Matsyodari Shikshan Sastha's College of Engineering and Technology Jalna**, has successfully completed his Internship at **RANGOLI ENTERPRISES ICHALKARANJI**, from **17.02.2023** to **17.03.2023**.

During the above period, he was placed in our "**Turning And Milling Shop**".

The candidate was found to be enthusiastic and observant during his short stint in **RANGOLI ENTERPRISES, ICHALKARANJI**. his performance has been assessed as **Very Good**.


PRANAV SUHAS PANDHARPATTE
MANAGER HR

Feb 23, 2024, 19:59

RANGOLI ENTERPRISES
Manufacturing Of Automobile Comapanant And CNC/VMC Unit
..... 416115. Ta Hatkanangale, Dist. Kolhapur, Maharashtra



Scanned with OKEN Scanner

White Mango Agro F. P.LTD

AT VAIJAPUR DIST AURANGABAD

INTERNSHIP APPOINTMENT LETTER

Manoj Ambarsing Kawal

Aurangabad

Maharashtra -431001

Date: 17.02.2023

Subject: Appointment as Trainee in cur Company

Dear Manoj kawal

We are glad to inform you that you have been selected for the position of a Mechanical Engineer in our company with the Maintenance for a Period of from 17.02.2023 to 17.03.2023. During this training probation period you are required to undertaken all duties and activities as assigned to you.

We assure you of our support for your Internship Training development and growth.



SUSHIL ENGINEERING WORKS

Address : Plot No. B-11 Addi. MIDC Area, JALNA 4312023
Cell.7822080785/983559368 Email: office.sushileng@gmail.com

Date:

CERTIFICATE

TO WHOM IT MAY CONCERN

This is to certify that, Mr. **KAKDE ISHWAR NARAYAN** student of MSS'S COLLEGE OF ENGG.&TECHNOLOGY, JALNA has successfully completed industrial training from 17th feb 2023 to 17th march 2023 in our workshop.

During the training he was sincere and enthusiast .

With good wishes
For further development


(Authorized Signatory)
SUSHIL ENGINEERING WORKS



ND ENTERPRISES

(GST IN :- 27AQEPC2545E1ZA.)

Email Id:- ndenterprises640@gmail.com

Office:-Gut No. 68 Plot No. 23 Wadgaon (KO) MIDC Waluj
Tq.Dist.Aurangabad. Mobile No.8421292112

INTERNSHIP APPOINTMENT LETTER

AJAY TANAJI BHOSALE

Bajaj Nagar,

Waluj Midc Aurangabad

Maharashtra - 431136

Date : - 12.02.2023

Subject : - **Appontment as Trainee in our company**

Dear Ajay,

We are glad to inform you that you have been selected for the position of a **Mechanical Engineer** in our company with the **CNC Maintenance** for a Period of from **17.02.2023 to 17.03.2023**. During this training probation period you are required to undertaken all duties and activities as assigned to you.

We assure you of our support for your Internship Training development and growth.

Authorized Singature



ND ENTERPRISES

Feb 23, 2024, 19:59

Cin No.: U27100MH2004PTC144222

GAJKESARI STEELS & ALLOYS PVT. LTD.

Factory Add: Plot No. F-18/19, Phase 2, Addl. MIDC

Jalna - 431 203, Cell No.: 73910 44410

Email: gajkesaristeels@gmail.com

www.gajkesaristeels.com



GAJKESARI

STEEL

(An ISO 9001:2015 - 14001:2015 - 45001:2018 Cert.Fed Company)

MS Billets, MS TMT Bars & Round Bars

Size Available: 8MM, 10MM, 12MM, 16MM, 20MM, 25MM, 32MM

CERTIFICATE

This is to certify that **Mr. Sushil Kumar Gupta**, student of **Third year** (Sixth semester) with Roll Number:2254 **Matsyodari Shikshan Sanstha's College of Engineering and Technology Nagewadi, Jalna** has successfully completed his internship at Gajkesari Steel from **17/02/2023 to 17/03/2023**.

We wish his every success in life.




Yours faithfully

Feb 23, 2024, 19:59



Scanned with OKEN Scanner

Cin No.: U77100MH2004PTC144222

GAJKESARI STEELS & ALLOYS PVT. LTD.



GAJKESARI
STEEL

ISO 9001:2015 • ISO 14001:2015 • ISO 45001:2018 Certified Company

Factory Add: Plot No. F-18/79, Phase 2, Addl. MIDC,
Jalna - 431 203, Cell No.: 73910 44410
Email: gajkesaristeels@gmail.com
www.gajkesaristeels.com



MS Billets, MS TMT Bars & Round Bars

Size Available: 80x4, 100x4, 120x4, 140x4, 160x4, 180x4, 200x4, 220x4, 250x4

CERTIFICATE

This is to certify that **Mr. Dhananjay Ravindra Woyal**, student of **Third year (Sixth semester)** with Roll Number: **2357 Matsyodari Shikshan Sanstha's College of Engineering and Technology Nagewadi, Jalna** successfully completed his internship at Gajkesari Steel from **17/10/2023 to 17/03/2023**.

We wish his every success in life.


Yours faithfully

