



# **Sree Narayana Guru College of Engineering & Technology**

CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307



## **INDUSTRIAL VISITS**



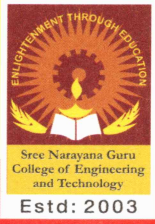
# **Sree Narayana Guru College of Engineering & Technology**

CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307



## **DEPARTMENT OF CIVIL ENGINEERING**





# Sree Narayana Guru College of Engineering & Technology

P.O. Chalakode, Payyanur - 670 307, Kannur Dist., Kerala State.

(Approved by AICTE New Delhi and Affiliated to APJ Abdul Kalam Technological University)

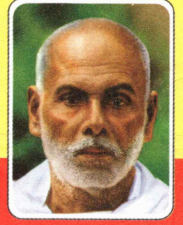
Managed by Sree Bhakthi Samvardhini Yogam, Kannur-2.

Ph: 04985-201987, 201988, 201989 EPABX: 201702, 703, 709 Fax: 04985-201988

Email: info@sngcet.org

sngcet@bsnl.in

Website: sngcet.org



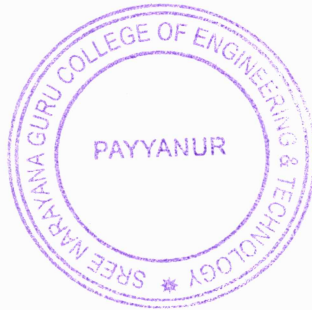
SNGCET/IV/CS/20

27<sup>th</sup> September 2022

## TO WHOMSOEVER IT MAY CONCERN

The seventh semester students of our college are permitted to go on industrial visits and excursions from 1<sup>st</sup> to 5<sup>th</sup> October 2022 there are 85 students and 4 faculty members of the department. It is with this certified that the following are the bonafide students of the 7<sup>th</sup> Semester B tech course of this college. The list of students is attached.

This requests all concerned to provide guidance, support, permission, and co-operation.



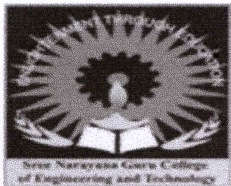
**Principal**

SREE NARAYANA GURU COLLEGE OF  
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KANNUR

To

All concerned

Enclosure: Students & Faculty list




**SREE NARAYANA GURU COLLEGE OF ENGINEERING &  
TECHNOLOGY**

**DEPARTMENT OF CIVIL ENGINEERING**

**2019-2023 BATCH**

Sl.No	NAME	INDUSTRIAL VISIT	DATE
1	AADITHYA KRISHNAN.C	APL Apollo Tubes LTD	01/10/2022
2	ABHIRAMY RAJ		
3	AKASH.P.V		
4	ANANDHU ASHOK KP		
5	ANANJANA.C		
6	ANJALI MP		
7	ANJANA.C		
8	ASHAYA RAMESH		
9	ASWITHA GANGADHARAN		
10	ATHIRA ARUN K		
11	AYSHATH SAIFA		
12	KRISHNA PRASAD S L		
13	MUHAMMED HANNAN		
14	PRAYAG PRABHAKARAN		
15	SILNA M		
16	SREEHARI K K		

  
HOD

  
Dr. LEENA A. V.  
PRINCIPAL  
SREE NARAYANA GURU COLLEGE OF  
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KANNUR



# **SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY**

## **REPORT ON INDUSTRIAL VISIT**

**at**

**APL Apollo Tubes Ltd, Bangalore**

**2022-23**

**REPORT**

*submitted by:*

**ANANJANA C**

**ATHIRA ARUN**

**ASWITHA GANGADHARAN**

**ANJANA C**

**ASHAYA RAMESH**

*May 14*  
HOD

**DEPARTMENT OF CIVIL ENGINEERING**

*Leena*  
**Dr. LEENA A. V**  
**PRINCIPAL**  
SREE NARAYANA GURU COLLEGE OF  
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KANNUR



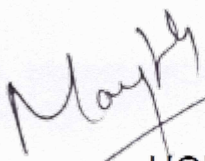
**Visit Report: APL Apollo Tubes Ltd**


**Date: October 1st, 2022**

**Visiting Institution: Sree Narayana Guru College of Engineering & Technology**

**EXECUTIVE SUMMARY**

The visit to APL Apollo Tubes Ltd on October 1st, 2022, provided an in-depth understanding of the company's operations, products, and contributions to the steel industry. With a capacity to produce 3.6 million tonnes per annum, APL stands as India's largest producer of Structural Steel Tubes. The company's extensive distribution network and diverse product portfolio, comprising over 1,100 varieties of steel products, reflect its commitment to quality and innovation. This report encapsulates the key observations, insights, and learnings garnered during the visit. Encourage students to explore internship opportunities at APL Apollo Tubes Ltd to gain practical experience and exposure to the steel manufacturing industry. Internships provide students with invaluable hands-on experience, allowing them to apply theoretical knowledge in real-world settings. Through internships, students can familiarize themselves with the various processes involved in steel production, from raw material sourcing to quality control and distribution. Moreover, internships offer opportunities for networking and mentorship, enabling students to gain insights from industry professionals and develop essential skills for their future careers. Incorporate case studies and industry-specific projects related to steel manufacturing into the college curriculum to provide students with a holistic understanding of the subject. Integrating real-world examples and practical applications into coursework enhances students' comprehension and retention of key concepts. Case studies allow students to analyze industry trends, challenges, and best practices, fostering critical thinking and problem-solving skills. Additionally, industry-specific projects enable students to collaborate, innovate, and apply their knowledge to solve complex problems relevant to the steel industry. By aligning the curriculum with industry requirements, colleges can better prepare students for the demands of the workforce and facilitate seamless transition into the professional realm.

  
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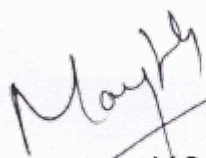
  
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## CHAPTER 1

### INTRODUCTION TO APL APOLLO TUBES LTD

Sree Narayana Guru College of Engineering & Technology organized a visit to APL Apollo Tubes Ltd (APL) on October 1st, 2022, to provide students with practical exposure to the steel manufacturing industry. APL is India's largest producer of Structural Steel Tubes, with a production capacity of 3.6 million tonnes per annum. Headquartered in Delhi NCR, the company has a global presence, serving over 20 countries worldwide. The visit aimed to familiarize students with APL's operations, products, and contributions to the steel industry.

Sree Narayana Guru College of Engineering & Technology organized a visit to APL Apollo Tubes Ltd for its students to gain practical exposure to the steel manufacturing industry. APL Apollo Tubes Ltd, headquartered in Delhi NCR, is renowned for its state-of-the-art facilities, expansive distribution network, and high-quality steel products. The visit aimed to provide students with firsthand knowledge of the processes involved in steel production, the significance of quality control, and the role of innovation in shaping the industry. Organize regular industry visits and guest lectures by experts from the steel industry to further enhance students' knowledge and awareness of industry trends and developments. Industry visits provide students with firsthand exposure to industrial processes, technologies, and best practices, supplementing classroom learning with practical insights. Guest lectures by industry professionals offer opportunities for students to engage in dialogue, ask questions, and gain insights from experienced practitioners. Moreover, industry interactions foster collaboration between academia and industry, facilitating knowledge exchange and promoting industry-relevant research initiatives. By fostering a culture of industry engagement, colleges can enrich students' learning experiences and cultivate a deep understanding of the steel industry's dynamics.

  
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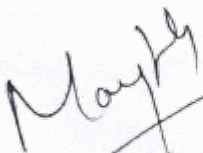
  
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## CHAPTER 2

### COMPANY OVERVIEW

APL Apollo Tubes Ltd is a renowned manufacturer of steel tubes and hollow sections, catering to diverse sectors such as construction, infrastructure, and engineering. The company's extensive distribution network spans 29 cities across India, with over 800 authorized dealers. APL's commitment to quality, innovation, and customer satisfaction has solidified its position as a leader in the steel industry. APL Apollo Tubes Limited is India's largest Structural Steel Tubing Company with an extremely strong local presence, thanks to our philosophy of Make in India, extensive distribution network and world class quality. The vision of the company is To be a global leader and high performing organization recognized for excellence, governance, customer delight, and building long term relationships with all partners. And the mission is To lead the process of transformation of commodity to value added products through innovation and technology

  
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### **CHAPTER 3**

#### **PRODUCTION FACILITIES & PRODUCT PORTFOLIO**

During the visit, students were given a comprehensive tour of APL's production facilities, where they witnessed the intricate processes involved in steel tube manufacturing. From raw material procurement to the final quality checks, every stage of production was meticulously executed with precision and efficiency. Advanced technology and automation were leveraged to enhance production capabilities and ensure consistent product quality.

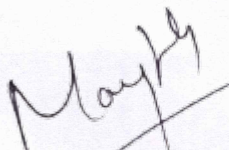
APL Apollo Tubes Ltd offers a diverse range of steel products, including Pre-Galvanized Tubes, Structural Steel Tubes, Galvanized Tubes, MS Black Pipes, and Hollow Sections. With over 1,100 varieties available, the company caters to a wide spectrum of applications, from structural support in construction projects to plumbing and irrigation systems. The visit provided students with insights into the significance of product diversification in meeting market demands and sustaining competitiveness.


### **CHAPTER 4**

#### **QUALITY ASSURANCE & DISTRIBUTION NETWORK**

Quality assurance is paramount at APL Apollo Tubes Ltd, with stringent quality control measures implemented throughout the production process. From raw material testing to final product inspection, the company maintains a rigorous quality management system to ensure that only the highest quality products reach the market. Students had the opportunity to witness quality control procedures firsthand, gaining an appreciation for their importance in maintaining customer trust and satisfaction.

APL Apollo Tubes Ltd operates with a robust distribution network comprising warehouses and branch offices strategically located across India. This extensive network, combined with over 800 authorized dealers, facilitates efficient product distribution and timely delivery to customers nationwide. The visit provided students with insights into the logistical challenges involved in managing such a vast distribution network and the strategies employed by APL to maximize efficiency.

  
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## **CHAPTER 5**

### **GLOBAL PRESENCE & CORPORATE SOCIAL RESPONSIBILITY (CSR)**

In addition to its strong domestic presence, APL Apollo Tubes Ltd has made significant inroads into international markets, exporting its products to over 20 countries worldwide. The company's commitment to quality and adherence to international standards have enabled it to establish a foothold in global markets. The visit offered students a glimpse into the complexities of international trade and the challenges and opportunities associated with expanding into foreign markets.

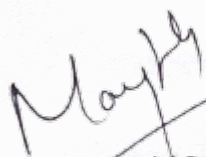
APL Apollo Tubes Ltd is committed to corporate social responsibility (CSR) initiatives aimed at creating a positive impact on society and the environment. The company actively engages in various community development programs, focusing on education, healthcare, and environmental sustainability. Students learned about APL's CSR initiatives and the role of businesses in contributing to sustainable development and social welfare.


## **CHAPTER 6**

### **LEARNING OUTCOMES & RECOMMENDATIONS**

The visit to APL Apollo Tubes Ltd provided students with invaluable insights into the steel manufacturing industry, from production processes to quality assurance and distribution strategies. Witnessing firsthand the company's state-of-the-art facilities, commitment to quality, and focus on innovation broadened students' understanding of the complexities and challenges inherent in the steel industry.

Based on the observations and insights gathered during the visit, recommendations were proposed to further enhance students' knowledge and awareness of the steel industry. Acknowledgments were extended to the management and staff of APL Apollo Tubes Ltd for their cooperation and hospitality, which contributed to the success of the visit.

  
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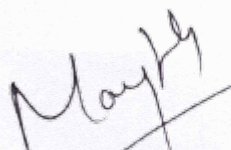
  
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## CHAPTER 7

### CONCLUSIONS

The visit to APL Apollo Tubes Ltd provided students with invaluable insights into the steel manufacturing industry, from production processes to quality assurance and distribution strategies. Witnessing firsthand the company's state-of-the-art facilities, commitment to quality, and focus on innovation has broadened the students' understanding of the complexities and challenges inherent in the steel industry. The visit served as a catalyst for learning, inspiring students to pursue excellence in their academic and professional endeavours while instilling in them a deeper appreciation for the role of steel in shaping the world around us.

  
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October 01<sup>st</sup>, 2022

## CERTIFICATE

This is to certify that **Ms. Abhiramy Raj** of Sree Narayana Guru College of Engineering & Technology has visited **APL Apollo Tubes LTD** as part of their Industrial Visit on October 1<sup>st</sup>, 2022. A tour of the production plant and a quick summary of how structural tubes are used widely in industries were provided.

We wish them the best for their future.

For APL Apollo Tubes LTD, Bangalore

  
**Dr. LEENA A. V**  
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**SHRI LAKSHMI METAL UDYOG LIMITED**

No. 9 to 11, K.I.A.D.B. Indl. Area, Balagaranahalli, Anekal Taluk, Attibele, Bangalore - 562 107

Phone No. :080-27820018/68/846, Telefax : 080-27820018/68

E-mail simul@aplapollo.com. acc.simul@aplapollo.com

October 01<sup>st</sup>, 2022

## CERTIFICATE

This is to certify that **Mr. Aadithya Krishnan C** of Sree Narayana Guru College of Engineering & Technology has visited **APL Apollo Tubes LTD** as part of their Industrial Visit on October 1<sup>st</sup>, 2022. A tour of the production plant and a quick summary of how structural tubes are used widely in industries were provided.

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This is to certify that **Mr. Akash P V** of Sree Narayana Guru College of Engineering & Technology has visited **APL Apollo Tubes LTD** as part of their Industrial Visit on October 1<sup>st</sup>, 2022. A tour of the production plant and a quick summary of how structural tubes are used widely in industries were provided.

We wish them the best for their future.

For APL Apollo Tubes LTD, Bangalore



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October 01<sup>st</sup>, 2022

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This is to certify that **Mr. Anandhu Ashok K P** of Sree Narayana Guru College of Engineering & Technology has visited **APL Apollo Tubes LTD** as part of their Industrial Visit on October 1<sup>st</sup>, 2022. A tour of the production plant and a quick summary of how structural tubes are used widely in industries were provided.

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For APL Apollo Tubes LTD, Bangalore



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October 01<sup>st</sup>, 2022

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This is to certify that **Ms. Anjali M P** of Sree Narayana Guru College of Engineering & Technology has visited **APL Apollo Tubes LTD** as part of their Industrial Visit on October 1<sup>st</sup>, 2022. A tour of the production plant and a quick summary of how structural tubes are used widely in industries were provided.

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For APL Apollo Tubes LTD, Bangalore



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This is to certify that **Ms. Anjana C** of Sree Narayana Guru College of Engineering & Technology has visited **APL Apollo Tubes LTD** as part of their Industrial Visit on October 1<sup>st</sup>, 2022. A tour of the production plant and a quick summary of how structural tubes are used widely in industries were provided.

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This is to certify that **Ms. Ashaya Ramesh** of Sree Narayana Guru College of Engineering & Technology has visited **APL Apollo Tubes LTD** as part of their Industrial Visit on October 1<sup>st</sup>, 2022. A tour of the production plant and a quick summary of how structural tubes are used widely in industries were provided.

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For APL Apollo Tubes LTD, Bangalore

  
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This is to certify that **Ms. Sreehari K K** of **Sree Narayana Guru College of Engineering & Technology** has visited **APL Apollo Tubes LTD** as part of their Industrial Visit on October 1<sup>st</sup>, 2022. A tour of the production plant and a quick summary of how structural tubes are used widely in industries were provided.

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E-mail : [slmul@aplapollo.com](mailto:slmul@aplapollo.com), [acc.slmul@aplapollo.com](mailto:acc.slmul@aplapollo.com)

October 01<sup>st</sup>, 2022

## CERTIFICATE

This is to certify that **Mr. Muhammed Hannan** of Sree Narayana Guru College of Engineering & Technology has visited **APL Apollo Tubes LTD** as part of their Industrial Visit on October 1<sup>st</sup>, 2022. A tour of the production plant and a quick summary of how structural tubes are used widely in industries were provided.

We wish them the best for their future.

For APL Apollo Tubes LTD, Bangalore



**Dr. LEENA A. V**  
**PRINCIPAL**  
SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY PATTANUR  
KANNUR



### **SHRI LAKSHMI METAL UDYOG LIMITED**

No. 9 to 11, K.I.A.D.B. Indl. Area, Balagaranahalli, Anekal Taluk, Attibele, Bangalore - 562 107  
Phone No. : 080-27820018/68/846, Telefax : 080-27820018/68  
E-mail : slmul@aplapollo.com, acc.slmul@aplapollo.com

October 01<sup>st</sup>, 2022

## CERTIFICATE

This is to certify that **Mr. Krishna Prasad S L** of Sree Narayana Guru College of Engineering & Technology has visited **APL Apollo Tubes LTD** as part of their Industrial Visit on October 1<sup>st</sup>, 2022. A tour of the production plant and a quick summary of how structural tubes are used widely in industries were provided.

We wish them the best for their future.

For APL Apollo Tubes LTD, Bangalore



**Dr. LEENA A. V**  
**PRINCIPAL**  
SREE NARAYANA GURU COLLEGE OF  
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October 01<sup>st</sup>, 2022

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This is to certify that **Ms. Ayshath Saifa** of Sree Narayana Guru College of Engineering & Technology has visited **APL Apollo Tubes LTD** as part of their Industrial Visit on October 1<sup>st</sup>, 2022. A tour of the production plant and a quick summary of how structural tubes are used widely in industries were provided.

We wish them the best for their future.

For APL Apollo Tubes LTD, Bangalore

  
**Dr. LEENA A. V**  
**PRINCIPAL**  
SREE NARAYANA GURU COLLEGE OF  
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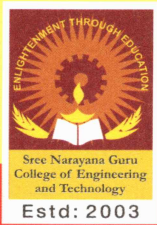


# **Sree Narayana Guru College of Engineering & Technology**

CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



# Sree Narayana Guru College of Engineering & Technology

P.O. Chalakode, Payyanur - 670 307, Kannur Dist., Kerala State.

(Approved by AICTE New Delhi and Affiliated to APJ Abdul Kalam Technological University)

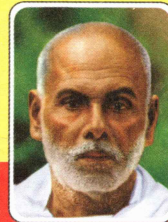
Managed by Sree Bhakthi Samvardhini Yogam, Kannur-2.

Ph: 04985-201987, 201988, 201989 EPABX: 201702, 703, 709 Fax: 04985-201988

Email: info@sngcet.org

sngcet@bsnl.in

Website: sngcet.org



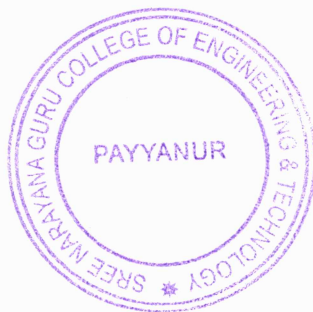
SNGCET/IV/CS/20

27<sup>th</sup> September 2022

## TO WHOMSOEVER IT MAY CONCERN

The seventh semester students of our college are permitted to go on industrial visits and excursions from 1<sup>st</sup> to 5<sup>th</sup> October 2022 there are 85 students and 4 faculty members of the department. It is with this certified that the following are the bonafide students of the 7<sup>th</sup> Semester B tech course of this college. The list of students is attached.

This requests all concerned to provide guidance, support, permission, and co-operation.



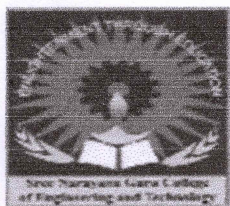
**Principal**

SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY, PAYYANUR  
KANNUR

To

All concerned

Enclosure: Students & Faculty list



**SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY**  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**2019-2023 BATCH**

SL NO	NAME	INDUSTRIAL VISIT	DATE
1	AATHISH P JAGADEESH	APL Apollo Tubes LTD	01/10/2022
2	ABHINAV.A.P		
3	AHMED ADIL		
4	AJMAL		
5	ALTHAF ASHRAF.K.V		
6	AMAR RAJENDRAN		
7	AMRITHA RAJEEVAN.M		
8	ANAGHA.K		
9	ANAGHA.M		
10	AVANTIKA.K		
11	FATHIMATHU SAHALA BEEVI		
12	HRIDYASREE VALSAN		
13	HRYSHIKA PRADEEP		
14	JEEVA NARAYANAN		
15	KAVYA DEVI.M.K		
16	MANILA MAHESH		
17	MEGHA.P.K		
18	MIS-HAB.C.P		
19	MUHAMMAD JISHAN.P.T.K		
20	MUHAMMED RISHAL		

*Dr. Leena A V*  
HOD/USE

*Leena*  
**Dr. LEENA A V**  
 PRINCIPAL  
 SREE NARAYANA GURU COLLEGE OF  
 ENGINEERING & TECHNOLOGY  
 PAYYANUR, KANNUR



21	MUHAMMED ZAHID A
22	NIPUN S ANAND
23	PALLAVI SWAROOP KUMAR
24	PARVATHI.K
25	RAMRITHA RAJEEVAN
26	SAFA FATHIMA
27	SAFA SAYEED.V
28	SIDHARTH.K
29	SMIJITH.M
30	SRAVAN.R
31	SREEHARI.V
32	FATHIMATHU SAHALA BEEVI
33	THANMAYA SANJEEV
34	THANYA MOHAN
35	THEJA RAJESH
36	U.V.VAISHNAV
37	VARUN
38	VISHNU PRABHAKARAN
39	VISHNU.R
40	V.K.AYSHA
41	ABHIJITH RAMRAJ P K
42	JIJO JAISON
43	ADARSH KS

APL Apollo Tubes LTD

01/10/2022

*Santhosh*  
HOD/USE

*Leena*  
**Dr. LEENA A V**  
PRINCIPAL  
SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY  
PAYYANUR, KANNUR



**SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY**

**REPORT ON INDUSTRIAL VISIT**

**at**

**APL Apollo Tubes Ltd, Bangalore**

**2022-23**

**REPORT**

*submitted by:*

**JIJO JAISON**

**ANAGHA K**

**THANMAYA SANJEEV**

*Santhosh*  
*HOD/WE*

*Leena*  
**Dr. LEENA A V**  
**PRINCIPAL**  
**SREE NARAYANA GURU COLLEGE OF**  
**ENGINEERING & TECHNOLOGY**  
**PAYYANUR, KANNUR**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



**Visit Report: APL Apollo Tubes Ltd**

**Date: October 1st, 2022**

**Visiting Institution: Sree Narayana Guru College of Engineering & Technology**

### **EXECUTIVE SUMMARY**

The visit to APL Apollo Tubes Ltd on October 1st, 2022, provided an in-depth understanding of the company's operations, products, and contributions to the steel industry. With a capacity to produce 3.6 million tonnes per annum, APL stands as India's largest producer of Structural Steel Tubes. The company's extensive distribution network and diverse product portfolio, comprising over 1,100 varieties of steel products, reflect its commitment to quality and innovation. This report encapsulates the key observations, insights, and learnings garnered during the visit. Encourage students to explore internship opportunities at APL Apollo Tubes Ltd to gain practical experience and exposure to the steel manufacturing industry. Internships provide students with invaluable hands-on experience, allowing them to apply theoretical knowledge in real-world settings. Through internships, students can familiarize themselves with the various processes involved in steel production, from raw material sourcing to quality control and distribution. Moreover, internships offer opportunities for networking and mentorship, enabling students to gain insights from industry professionals and develop essential skills for their future careers. Incorporate case studies and industry-specific projects related to steel manufacturing into the college curriculum to provide students with a holistic understanding of the subject. Integrating real-world examples and practical applications into coursework enhances students' comprehension and retention of key concepts. Case studies allow students to analyze industry trends, challenges, and best practices, fostering critical thinking and problem-solving skills. Additionally, industry-specific projects enable students to collaborate, innovate, and apply their knowledge to solve complex problems relevant to the steel industry. By aligning the curriculum with industry requirements, colleges can better prepare students for the demands of the workforce and facilitate seamless transition into the professional realm.

*Santhosh*  
HOD/UG

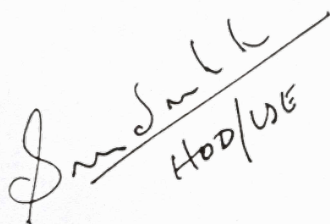
*Leena*  
**Dr. LEENA A V**  
PRINCIPAL  
SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY  
PAYYANUR, KANNUR


## CHAPTER 1

### INTRODUCTION TO APL APOLLO TUBES LTD

Sree Narayana Guru College of Engineering & Technology organized a visit to APL Apollo Tubes Ltd (APL) on October 1st, 2022, to provide students with practical exposure to the steel manufacturing industry. APL is India's largest producer of Structural Steel Tubes, with a production capacity of 3.6 million tonnes per annum. Headquartered in Delhi NCR, the company has a global presence, serving over 20 countries worldwide. The visit aimed to familiarize students with APL's operations, products, and contributions to the steel industry.

Sree Narayana Guru College of Engineering & Technology organized a visit to APL Apollo Tubes Ltd for its students to gain practical exposure to the steel manufacturing industry. APL Apollo Tubes Ltd, headquartered in Delhi NCR, is renowned for its state-of-the-art facilities, expansive distribution network, and high-quality steel products. The visit aimed to provide students with firsthand knowledge of the processes involved in steel production, the significance of quality control, and the role of innovation in shaping the industry. Organize regular industry visits and guest lectures by experts from the steel industry to further enhance students' knowledge and awareness of industry trends and developments. Industry visits provide students with firsthand exposure to industrial processes, technologies, and best practices, supplementing classroom learning with practical insights. Guest lectures by industry professionals offer opportunities for students to engage in dialogue, ask questions, and gain insights from experienced practitioners. Moreover, industry interactions foster collaboration between academia and industry, facilitating knowledge exchange and promoting industry-relevant research initiatives. By fostering a culture of industry engagement, colleges can enrich students' learning experiences and cultivate a deep understanding of the steel industry's dynamics.

  
HOD/USE

  
**Dr. LEENA A V**  
PRINCIPAL  
SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY  
PAYYANUR, KANNUR



## CHAPTER 2

### COMPANY OVERVIEW

APL Apollo Tubes Ltd is a renowned manufacturer of steel tubes and hollow sections, catering to diverse sectors such as construction, infrastructure, and engineering. The company's extensive distribution network spans 29 cities across India, with over 800 authorized dealers. APL's commitment to quality, innovation, and customer satisfaction has solidified its position as a leader in the steel industry. APL Apollo Tubes Limited is India's largest Structural Steel Tubing Company with an extremely strong local presence, thanks to our philosophy of Make in India, extensive distribution network and world class quality. The vision of the company is To be a global leader and high performing organization recognized for excellence, governance, customer delight, and building long term relationships with all partners. And the mission is To lead the process of transformation of commodity to value added products through innovation and technology

*Dr. Sanku*  
HOD/WE

*Leena*  
**Dr. LEENA A V**  
PRINCIPAL  
SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY  
PAYANUR, KANNUR

## CHAPTER 3

### PRODUCTION FACILITIES & PRODUCT PORTFOLIO

During the visit, students were given a comprehensive tour of APL's production facilities, where they witnessed the intricate processes involved in steel tube manufacturing. From raw material procurement to the final quality checks, every stage of production was meticulously executed with precision and efficiency. Advanced technology and automation were leveraged to enhance production capabilities and ensure consistent product quality.

APL Apollo Tubes Ltd offers a diverse range of steel products, including Pre-Galvanized Tubes, Structural Steel Tubes, Galvanized Tubes, MS Black Pipes, and Hollow Sections. With over 1,100 varieties available, the company caters to a wide spectrum of applications, from structural support in construction projects to plumbing and irrigation systems. The visit provided students with insights into the significance of product diversification in meeting market demands and sustaining competitiveness.

## CHAPTER 4

### QUALITY ASSURANCE & DISTRIBUTION NETWORK

Quality assurance is paramount at APL Apollo Tubes Ltd, with stringent quality control measures implemented throughout the production process. From raw material testing to final product inspection, the company maintains a rigorous quality management system to ensure that only the highest quality products reach the market. Students had the opportunity to witness quality control procedures firsthand, gaining an appreciation for their importance in maintaining customer trust and satisfaction.

APL Apollo Tubes Ltd operates with a robust distribution network comprising warehouses and branch offices strategically located across India. This extensive network, combined with over 800 authorized dealers, facilitates efficient product distribution and timely delivery to customers nationwide. The visit provided students with insights into the logistical challenges involved in managing such a vast distribution network and the strategies employed by APL to maximize efficiency.

*Sanjiv K*  
HOD/UG

*Leena*  
Dr. LEENA A V  
PRINCIPAL  
SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY  
PAYANUR, KANNUR



## CHAPTER 5

### GLOBAL PRESENCE & CORPORATE SOCIAL RESPONSIBILITY (CSR)

In addition to its strong domestic presence, APL Apollo Tubes Ltd has made significant inroads into international markets, exporting its products to over 20 countries worldwide. The company's commitment to quality and adherence to international standards have enabled it to establish a foothold in global markets. The visit offered students a glimpse into the complexities of international trade and the challenges and opportunities associated with expanding into foreign markets.

APL Apollo Tubes Ltd is committed to corporate social responsibility (CSR) initiatives aimed at creating a positive impact on society and the environment. The company actively engages in various community development programs, focusing on education, healthcare, and environmental sustainability. Students learned about APL's CSR initiatives and the role of businesses in contributing to sustainable development and social welfare.

## CHAPTER 6

### LEARNING OUTCOMES & RECOMMENDATIONS

The visit to APL Apollo Tubes Ltd provided students with invaluable insights into the steel manufacturing industry, from production processes to quality assurance and distribution strategies. Witnessing firsthand the company's state-of-the-art facilities, commitment to quality, and focus on innovation broadened students' understanding of the complexities and challenges inherent in the steel industry.

Based on the observations and insights gathered during the visit, recommendations were proposed to further enhance students' knowledge and awareness of the steel industry. Acknowledgments were extended to the management and staff of APL Apollo Tubes Ltd for their cooperation and hospitality, which contributed to the success of the visit.

*Santhosh*  
HOD/UG

*Leena*  
**Dr. LEENA A V**  
PRINCIPAL  
SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY  
PAYANUR, KANNUR



## CHAPTER 7

### CONCLUSIONS

The visit to APL Apollo Tubes Ltd provided students with invaluable insights into the steel manufacturing industry. from production processes to quality assurance and distribution strategies. Witnessing firsthand the company's state-of-the-art facilities, commitment to quality, and focus on innovation has broadened the students' understanding of the complexities and challenges inherent in the steel industry. The visit served as a catalyst for learning, inspiring students to pursue excellence in their academic and professional endeavours while instilling in them a deeper appreciation for the role of steel in shaping the world around us.

*Santhosh*  
HOD/WE


*Leena*  
**Dr. LEENA A V**  
PRINCIPAL  
SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY  
PAYYANUR, KANNUR

October 01<sup>st</sup>, 2022

## CERTIFICATE

This is to certify that **Mr. JIJO JAISON** of Sree Narayana Guru College of Engineering & Technology has visited **APL Apollo Tubes LTD** as part of their Industrial Visit on October 1<sup>st</sup>, 2022. A tour of the production plant and a quick summary of how structural tubes are used widely in industries were provided.

We wish them the best for their future.



Dr. LEENA A. V.  
PRINCIPAL  
SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY, PAYANUR  
KANNUR

For APL Apollo Tubes LTD, Bangalore



**SHRI LAKSHMI METAL UDYOG LIMITED**

No. 9 to 11, K.I.A.D.B. Indl. Area, Balagaranahalli, Anekal Taluk, Attibele, Bangalore - 562 107  
Phone No. :080-27820018/68/846, Telefax : 080-27820018/68  
E-mail simul@aplapollo.com, acc.simul@aplapollo.com




October 01<sup>st</sup>, 2022

## CERTIFICATE

This is to certify that **Ms. ANAGHA.K** of Sree Narayana Guru College of Engineering & Technology has visited **APL Apollo Tubes LTD** as part of their Industrial Visit on October 1<sup>st</sup>, 2022. A tour of the production plant and a quick summary of how structural tubes are used widely in industries were provided.

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Sree Narayana Guru College of  
Engineering & Technology, Payyanur  
Kannur

For APL Apollo Tubes LTD, Bangalore



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E-mail : slmul@aplapollo.com, acc.slmul@aplapollo.com



October 01<sup>st</sup>, 2022

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This is to certify that **Ms. Thanmaya Sanjeev** of Sree Narayana Guru College of Engineering & Technology has visited **APL Apollo Tubes LTD** as part of their Industrial Visit on October 1<sup>st</sup>, 2022. A tour of the production plant and a quick summary of how structural tubes are used widely in industries were provided.

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Dr. LEENA A. V.  
PRINCIPAL  
SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY, PATTANUR  
KANNUR

For APL Apollo Tubes LTD, Bangalore



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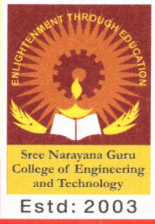


# **Sree Narayana Guru College of Engineering & Technology**

CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307



DEPARTMENT OF ELECTRONICS AND COMMUNICATIONS ENGINEERING



# Sree Narayana Guru College of Engineering & Technology

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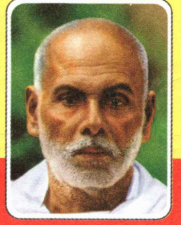
Managed by Sree Bhakthi Samvardhini Yogam, Kannur-2.

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Email: info@sngcet.org

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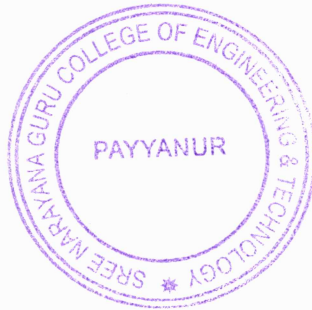
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This requests all concerned to provide guidance, support, permission, and co-operation.



**Principal**

SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY, PAYYANUR  
KANNUR

To

All concerned

Enclosure: Students & Faculty list





# **SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY**

## **DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

### **LIST OF STUDENTS**

<b>REGISTER NO.</b>	<b>NAME</b>	<b>NAME OF THE COMPANY</b>	<b>DATE</b>
<b>SNC19EC001</b>	Arjun Ashok K	<b>APOLLO TUBES Ltd.</b>	<b>01/10/2022</b>
<b>SNC19EC003</b>	Keerthana C V		
<b>SNC19EC004</b>	Mariyambi		
<b>SNC19EC005</b>	Sanishma Sachithanand		

*Leena*  
HOD ECE

*Leena*

**Dr. LEENA A V**  
PRINCIPAL  
SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY  
PAYYANUR, KANNUR



# **SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY**

## **REPORT ON INDUSTRIAL VISIT**

**at**

**APL Apollo Tubes Ltd, Bangalore**

**2022-23**

**REPORT**

*submitted by:*

**Arjun Ashok K**

**Keerthana C V**

**Mariyambi**

**Sanishma Sachithanand**

*Leena*  
HOD ECE

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING**

*Leena*  
**Dr. LEENA A V**  
PRINCIPAL  
SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY  
PAYYANUR, KANNUR


## **Visit Report: APL Apollo Tubes Ltd**

**Date: October 1st, 2022**

**Visiting Institution: Sree Narayana Guru College of Engineering & Technology**

### **EXECUTIVE SUMMARY**

The visit to APL Apollo Tubes Ltd on October 1st, 2022, provided an in-depth understanding of the company's operations, products, and contributions to the steel industry. With a capacity to produce 3.6 million tonnes per annum, APL stands as India's largest producer of Structural Steel Tubes. The company's extensive distribution network and diverse product portfolio, comprising over 1,100 varieties of steel products, reflect its commitment to quality and innovation. This report encapsulates the key observations, insights, and learnings garnered during the visit. Encourage students to explore internship opportunities at APL Apollo Tubes Ltd to gain practical experience and exposure to the steel manufacturing industry. Internships provide students with invaluable hands-on experience, allowing them to apply theoretical knowledge in real-world settings. Through internships, students can familiarize themselves with the various processes involved in steel production, from raw material sourcing to quality control and distribution. Moreover, internships offer opportunities for networking and mentorship, enabling students to gain insights from industry professionals and develop essential skills for their future careers. Incorporate case studies and industry-specific projects related to steel manufacturing into the college curriculum to provide students with a holistic understanding of the subject. Integrating real-world examples and practical applications into coursework enhances students' comprehension and retention of key concepts. Case studies allow students to analyse industry trends, challenges, and best practices, fostering critical thinking and problem-solving skills. Additionally, industry-specific projects enable students to collaborate, innovate, and apply their knowledge to solve complex problems relevant to the steel industry. By aligning the curriculum with industry requirements, colleges can better prepare students for the demands of the workforce and facilitate seamless transition into the professional realm.

  
HOD ECE



**Dr. LEENA A V**  
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## CHAPTER 1

### INTRODUCTION TO APL APOLLO TUBES LTD

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HOD ECE


  
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PAYYANUR, KANNUR

## CHAPTER 2

### COMPANY OVERVIEW

APL Apollo Tubes Ltd is a renowned manufacturer of steel tubes and hollow sections, catering to diverse sectors such as construction, infrastructure, and engineering. The company's extensive distribution network spans 29 cities across India, with over 800 authorized dealers. APL's commitment to quality, innovation, and customer satisfaction has solidified its position as a leader in the steel industry. APL Apollo Tubes Limited is India's largest Structural Steel Tubing Company with an extremely strong local presence, thanks to our philosophy of Make in India, extensive distribution network and world class quality. The vision of the company is To be a global leader and high performing organization recognized for excellence, governance, customer delight, and building long term relationships with all partners. And the mission is To lead the process of transformation of commodity to value added products through innovation and technology

  
HOD ECE

  
**Dr. LEENA A V**  
PRINCIPAL  
SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY  
PAYYANUR, KANNUR



## CHAPTER 3

### PRODUCTION FACILITIES & PRODUCT PORTFOLIO

During the visit, students were given a comprehensive tour of APL's production facilities, where they witnessed the intricate processes involved in steel tube manufacturing. From raw material procurement to the final quality checks, every stage of production was meticulously executed with precision and efficiency. Advanced technology and automation were leveraged to enhance production capabilities and ensure consistent product quality.

APL Apollo Tubes Ltd offers a diverse range of steel products, including Pre-Galvanized Tubes, Structural Steel Tubes, Galvanized Tubes, MS Black Pipes, and Hollow Sections. With over 1,100 varieties available, the company caters to a wide spectrum of applications, from structural support in construction projects to plumbing and irrigation systems. The visit provided students with insights into the significance of product diversification in meeting market demands and sustaining competitiveness.

## CHAPTER 4

### QUALITY ASSURANCE & DISTRIBUTION NETWORK

Quality assurance is paramount at APL Apollo Tubes Ltd, with stringent quality control measures implemented throughout the production process. From raw material testing to final product inspection, the company maintains a rigorous quality management system to ensure that only the highest quality products reach the market. Students had the opportunity to witness quality control procedures first-hand, gaining an appreciation for their importance in maintaining customer trust and satisfaction.

APL Apollo Tubes Ltd operates with a robust distribution network comprising warehouses and branch offices strategically located across India. This extensive network, combined with over 800 authorized dealers, facilitates efficient product distribution and timely delivery to customers nationwide. The visit provided students with insights into the logistical challenges involved in managing such a vast distribution network and the strategies employed by APL to maximize efficiency.

*Leena*  
HOD ECE

*Leena*  
**Dr. LEENA A V**  
PRINCIPAL  
SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY  
PAYYANUR, KANNUR



## CHAPTER 5

### GLOBAL PRESENCE & CORPORATE SOCIAL RESPONSIBILITY (CSR)

In addition to its strong domestic presence, APL Apollo Tubes Ltd has made significant inroads into international markets, exporting its products to over 20 countries worldwide. The company's commitment to quality and adherence to international standards have enabled it to establish a foothold in global markets. The visit offered students a glimpse into the complexities of international trade and the challenges and opportunities associated with expanding into foreign markets.

APL Apollo Tubes Ltd is committed to corporate social responsibility (CSR) initiatives aimed at creating a positive impact on society and the environment. The company actively engages in various community development programs, focusing on education, healthcare, and environmental sustainability. Students learned about APL's CSR initiatives and the role of businesses in contributing to sustainable development and social welfare.

## CHAPTER 6

### LEARNING OUTCOMES & RECOMMENDATIONS

The visit to APL Apollo Tubes Ltd provided students with invaluable insights into the steel manufacturing industry, from production processes to quality assurance and distribution strategies. Witnessing first-hand the company's state-of-the-art facilities, commitment to quality, and focus on innovation broadened students' understanding of the complexities and challenges inherent in the steel industry.

Based on the observations and insights gathered during the visit, recommendations were proposed to further enhance students' knowledge and awareness of the steel industry. Acknowledgments were extended to the management and staff of APL Apollo Tubes Ltd for their cooperation and hospitality, which contributed to the success of the visit.


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Dr. LEENA A V  
PRINCIPAL  
SREE NARAYANA GURU COLLEGE OF  
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PAYYANUR, KANNUR

## CHAPTER 7

### CONCLUSION

The visit to APL Apollo Tubes Ltd provided students with invaluable insights into the steel manufacturing industry, from production processes to quality assurance and distribution strategies. Witnessing first-hand the company's state-of-the-art facilities, commitment to quality, and focus on innovation has broadened the students' understanding of the complexities and challenges inherent in the steel industry. The visit served as a catalyst for learning, inspiring students to pursue excellence in their academic and professional endeavours while instilling in them a deeper appreciation for the role of steel in shaping the world around us.

  
HOD ECE

  
**Dr. LEENA A V**  
PRINCIPAL  
SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY  
PAYYANUR, KANNUR



October 01<sup>st</sup>, 2022

## CERTIFICATE

This is to certify that **Mr. Arjun Ashok** of Sree Narayana Guru College of Engineering & Technology has visited **APL Apollo Tubes LTD** as part of their Industrial Visit on October 1<sup>st</sup>, 2022. A tour of the production plant and a quick summary of how structural tubes are used widely in industries were provided.

We wish them the best for their future.

Dr. LEENA A. V.  
PRINCIPAL  
SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY, PAYYANUR  
KANNUR

For APL Apollo Tubes LTD, Bangalore



**SHRI LAKSHMI METAL UDYOG LIMITED**

No 9 to 11, K.I.A.D.B. Indl. Area, Balagaranahalli, Anekal Taluk, Attibele, Bangalore - 562 107  
Phone No. : 080-27820018/681846, Telefax : 080-27820019/69





October 01<sup>st</sup>, 2022

## CERTIFICATE

This is to certify that **Ms. Mariyambi** of Sree Narayana Guru College of Engineering & Technology has visited **APL Apollo Tubes LTD** as part of their Industrial Visit on October 1<sup>st</sup>, 2022. A tour of the production plant and a quick summary of how structural tubes are used widely in industries were provided.

We wish them the best for their future.

**Dr. LEENA A. V.**  
**PRINCIPAL**  
SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY, PAYYANUR  
KANNUR

For APL Apollo Tubes LTD, Bangalore



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Phone No. : 080-27820018/581846, Telefax : 080-27820018/58




October 01<sup>st</sup>, 2022

## CERTIFICATE

This is to certify that **Ms. Keerthana C V** of Sree Narayana Guru College of Engineering & Technology has visited **APL Apollo Tubes LTD** as part of their Industrial Visit on October 1<sup>st</sup>, 2022. A tour of the production plant and a quick summary of how structural tubes are used widely in industries were provided.

We wish them the best for their future.

  
**Dr. LEENA A. V.**  
**PRINCIPAL**  
SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY, PAYANUR  
KANNUR

For APL Apollo Tubes LTD, Bangalore



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Phone No. : 080-27820018/68/816. Telefax : 080-27820019/69



October 01<sup>st</sup>, 2022

## CERTIFICATE

This is to certify that **Ms. Sanishma Sachithanand** of Sree Narayana Guru College of Engineering & Technology has visited **APL Apollo Tubes LTD** as part of their Industrial Visit on October 1<sup>st</sup>, 2022. A tour of the production plant and a quick summary of how structural tubes are used widely in industries were provided.

We wish them the best for their future.

**Dr. LEENA A. V.**  
**PRINCIPAL**  
SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY, PAYYANUR  
KANNUR

For APL Apollo Tubes LTD, Bangalore



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Phone No. : 080-27820018/68/846, Telefax : 080-27820018/69



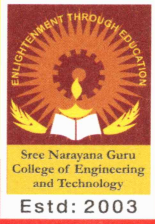


# **Sree Narayana Guru College of Engineering & Technology**

CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**



# Sree Narayana Guru College of Engineering & Technology

P.O. Chalakode, Payyanur - 670 307, Kannur Dist., Kerala State.

(Approved by AICTE New Delhi and Affiliated to APJ Abdul Kalam Technological University)

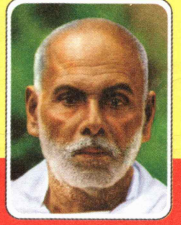
Managed by Sree Bhakthi Samvardhini Yogam, Kannur-2.

Ph: 04985-201987, 201988, 201989 EPABX: 201702, 703, 709 Fax: 04985-201988

Email: info@sngcet.org

sngcet@bsnl.in

Website: sngcet.org



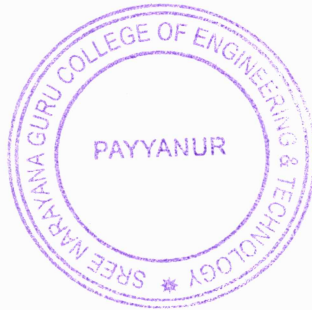
SNGCET/IV/CS/20

27<sup>th</sup> September 2022

## TO WHOMSOEVER IT MAY CONCERN

The seventh semester students of our college are permitted to go on industrial visits and excursions from 1<sup>st</sup> to 5<sup>th</sup> October 2022 there are 85 students and 4 faculty members of the department. It is with this certified that the following are the bonafide students of the 7<sup>th</sup> Semester B tech course of this college. The list of students is attached.

This requests all concerned to provide guidance, support, permission, and co-operation.



**Principal**

SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY, PAYYANUR  
KANNUR

To

All concerned

Enclosure: Students & Faculty list



**SREE NARAYANA GURU**  
**COLLEGE OF ENGINEERING & TECHNOLOGY**

**DEPARTMENT OF ELECTRICAL & ELECTRONICS**  
**ENGINEERING**

SI NO.	REGISTER NUMBER	NAME OF STUDENT	NAME OF THE INDUSTRY	DATE
1	SNC19EE001	Anusha Jyothi	APL Apollo Tubes Ltd.	01-10-2022
2	SNC19EE002	Devikeerthana T P		
3	SNC19EE003	Vaishnav T V		
4	SNC19EE004	Vishal K		

*Abhishan*  
HOD EEE

*Leena*

**Dr. LEENA A V**  
PRINCIPAL  
SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY  
PAYYANUR, KANNUR





# **SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY**

## **REPORT ON INDUSTRIAL VISIT**

**at**

**APL Apollo Tubes Ltd, Bangalore**

**2022-23**

**REPORT**

*submitted by:*

**ANUSHA JYOTHI**

**DEVIKEERTHANA T P**

**VAISHNAV T V**

**VISHAL K**

**DEPARTMENT OF ELECTRICAL & ELECTRONICS  
ENGINEERING**

**Visit Report: APL Apollo Tubes Ltd**

**Date: October 1st, 2022**

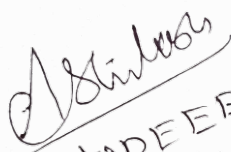
**Visiting Institution: Sree Narayana Guru College of Engineering & Technology**


*HODEEE*

*Leena*  
**Dr. LEENA A V**  
PRINCIPAL  
SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY  
PAYYANUR, KANNUR

## **EXECUTIVE SUMMARY**

The visit to APL Apollo Tubes Ltd on October 1st, 2022, provided an in-depth understanding of the company's operations, products, and contributions to the steel industry. With a capacity to produce 3.6 million tonnes per annum, APL stands as India's largest producer of Structural Steel Tubes. The company's extensive distribution network and diverse product portfolio, comprising over 1,100 varieties of steel products, reflect its commitment to quality and innovation. This report encapsulates the key observations, insights, and learnings garnered during the visit. Encourage students to explore internship opportunities at APL Apollo Tubes Ltd to gain practical experience and exposure to the steel manufacturing industry. Internships provide students with invaluable hands-on experience, allowing them to apply theoretical knowledge in real-world settings. Through internships, students can familiarize themselves with the various processes involved in steel production, from raw material sourcing to quality control and distribution. Moreover, internships offer opportunities for networking and mentorship, enabling students to gain insights from industry professionals and develop essential skills for their future careers. Incorporate case studies and industry-specific projects related to steel manufacturing into the college curriculum to provide students with a holistic understanding of the subject. Integrating real-world examples and practical applications into coursework enhances students' comprehension and retention of key concepts. Case studies allow students to analyze industry trends, challenges, and best practices, fostering critical thinking and problem-solving skills. Additionally, industry-specific projects enable students to collaborate, innovate, and apply their knowledge to solve complex problems relevant to the steel industry. By aligning the curriculum with industry requirements, colleges can better prepare students for the demands of the workforce and facilitate seamless transition into the professional realm.

  
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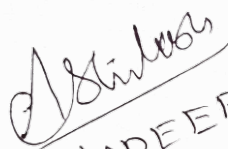
  
**Dr. LEENA A V**  
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ENGINEERING & TECHNOLOGY  
PAYYANUR, KANNUR


## CHAPTER 1

### INTRODUCTION TO APL APOLLO TUBES LTD

Sree Narayana Guru College of Engineering & Technology organized a visit to APL Apollo Tubes Ltd (APL) on October 1st, 2022, to provide students with practical exposure to the steel manufacturing industry. APL is India's largest producer of Structural Steel Tubes, with a production capacity of 3.6 million tonnes per annum. Headquartered in Delhi NCR, the company has a global presence, serving over 20 countries worldwide. The visit aimed to familiarize students with APL's operations, products, and contributions to the steel industry.

Sree Narayana Guru College of Engineering & Technology organized a visit to APL Apollo Tubes Ltd for its students to gain practical exposure to the steel manufacturing industry. APL Apollo Tubes Ltd, headquartered in Delhi NCR, is renowned for its state-of-the-art facilities, expansive distribution network, and high-quality steel products. The visit aimed to provide students with firsthand knowledge of the processes involved in steel production, the significance of quality control, and the role of innovation in shaping the industry. Organize regular industry visits and guest lectures by experts from the steel industry to further enhance students' knowledge and awareness of industry trends and developments. Industry visits provide students with firsthand exposure to industrial processes, technologies, and best practices, supplementing classroom learning with practical insights. Guest lectures by industry professionals offer opportunities for students to engage in dialogue, ask questions, and gain insights from experienced practitioners. Moreover, industry interactions foster collaboration between academia and industry, facilitating knowledge exchange and promoting industry-relevant research initiatives. By fostering a culture of industry engagement, colleges can enrich students' learning experiences and cultivate a deep understanding of the steel industry's dynamics.

  
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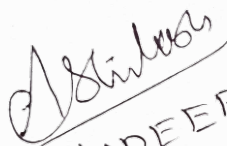
  
**Dr. LEENA A V**  
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## CHAPTER 2

### COMPANY OVERVIEW

APL Apollo Tubes Ltd is a renowned manufacturer of steel tubes and hollow sections, catering to diverse sectors such as construction, infrastructure, and engineering. The company's extensive distribution network spans 29 cities across India, with over 800 authorized dealers. APL's commitment to quality, innovation, and customer satisfaction has solidified its position as a leader in the steel industry. APL Apollo Tubes Limited is India's largest Structural Steel Tubing Company with an extremely strong local presence, thanks to our philosophy of Make in India, extensive distribution network and world class quality. The vision of the company is To be a global leader and high performing organization recognized for excellence, governance, customer delight, and building long term relationships with all partners. And the mission is To lead the process of transformation of commodity to value added products through innovation and technology

  
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### CHAPTER 3

#### PRODUCTION FACILITIES & PRODUCT PORTFOLIO

During the visit, students were given a comprehensive tour of APL's production facilities, where they witnessed the intricate processes involved in steel tube manufacturing. From raw material procurement to the final quality checks, every stage of production was meticulously executed with precision and efficiency. Advanced technology and automation were leveraged to enhance production capabilities and ensure consistent product quality.

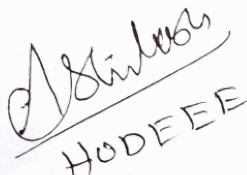
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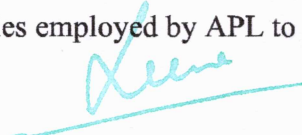
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SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY  
PAYANUR, KANNUR

## CHAPTER 5

### GLOBAL PRESENCE & CORPORATE SOCIAL RESPONSIBILITY (CSR)

In addition to its strong domestic presence, APL Apollo Tubes Ltd has made significant inroads into international markets, exporting its products to over 20 countries worldwide. The company's commitment to quality and adherence to international standards have enabled it to establish a foothold in global markets. The visit offered students a glimpse into the complexities of international trade and the challenges and opportunities associated with expanding into foreign markets.

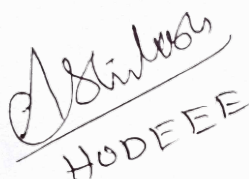
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## CHAPTER 6

### LEARNING OUTCOMES & RECOMMENDATIONS

The visit to APL Apollo Tubes Ltd provided students with invaluable insights into the steel manufacturing industry, from production processes to quality assurance and distribution strategies. Witnessing firsthand the company's state-of-the-art facilities, commitment to quality, and focus on innovation broadened students' understanding of the complexities and challenges inherent in the steel industry.

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SREE NARAYANA GURU COLLEGE OF  
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PAYYANUR, KANNUR




## CHAPTER 7

### CONCLUSIONS

The visit to APL Apollo Tubes Ltd provided students with invaluable insights into the steel manufacturing industry, from production processes to quality assurance and distribution strategies. Witnessing firsthand the company's state-of-the-art facilities, commitment to quality, and focus on innovation has broadened the students' understanding of the complexities and challenges inherent in the steel industry. The visit served as a catalyst for learning, inspiring students to pursue excellence in their academic and professional endeavours while instilling in them a deeper appreciation for the role of steel in shaping the world around us.

*Dr. Leena A V*  
HODEEE

  
Dr. LEENA A V  
PRINCIPAL  
SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY  
PAYYANUR, KANNUR


October 01<sup>st</sup>, 2022

## CERTIFICATE

This is to certify that **Ms. Anusha Jyothi** of Sree Narayana Guru College of Engineering & Technology has visited **APL Apollo Tubes LTD** as part of their Industrial Visit on October 1<sup>st</sup>, 2022. A tour of the production plant and a quick summary of how structural tubes are used widely in industries were provided.

We wish them the best for their future.

For APL Apollo Tubes LTD, Bangalore

  
**Dr. LEENA A V**  
PRINCIPAL  
SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY  
PAYYANUR, KANNUR



**SHRI LAKSHMI METAL UDYOG LIMITED**

No. 9 to 11, K.I.A.D.B. Indl. Area, Balagaranahalli, Anekal Taluk, Attibele, Bangalore - 562 107


October 01<sup>st</sup>, 2022

## CERTIFICATE

This is to certify that **Mr. Vaishnav TV** of Sree Narayana Guru College of Engineering & Technology has visited **APL Apollo Tubes LTD** as part of their Industrial Visit on October 1<sup>st</sup>, 2022. A tour of the production plant and a quick summary of how structural tubes are used widely in industries were provided.

We wish them the best for their future.

For APL Apollo Tubes LTD, Bangalore

  
**Dr. LEENA A V**  
PRINCIPAL  
SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY  
PAYYANUR, KANNUR



**SHRI LAKSHMI METAL UDYOG LIMITED**

No. 9 to 11, K.I.A.D.B. Indl. Area, Balagaranahalli, Anekal Taluk, Attibele, Bangalore - 562 107



October 01<sup>st</sup>, 2022

## CERTIFICATE

This is to certify that **Ms. Devi Keerthana T P** of Sree Narayana Guru College of Engineering & Technology has visited **APL Apollo Tubes LTD** as part of their Industrial Visit on October 1<sup>st</sup>, 2022. A tour of the production plant and a quick summary of how structural tubes are used widely in industries were provided.

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E-mail : [simul@aplapollo.com](mailto:simul@aplapollo.com), [acc.simul@aplapollo.com](mailto:acc.simul@aplapollo.com)

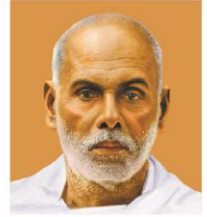


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PAYANUR, KANNUR



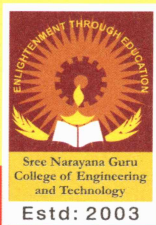
# **Sree Narayana Guru College of Engineering & Technology**

CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307



Est. 2003

## **DEPARTMENT OF MECHANICAL ENGINEERING**



# Sree Narayana Guru College of Engineering & Technology

P.O. Chalakode, Payyanur - 670 307, Kannur Dist., Kerala State.

(Approved by AICTE New Delhi and Affiliated to APJ Abdul Kalam Technological University)

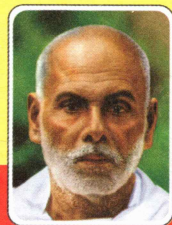
Managed by Sree Bhakthi Samvardhini Yogam, Kannur-2.

Ph: 04985-201987, 201988, 201989 EPABX: 201702, 703, 709 Fax: 04985-201988

Email: info@sngcet.org

sngcet@bsnl.in

Website: sngcet.org



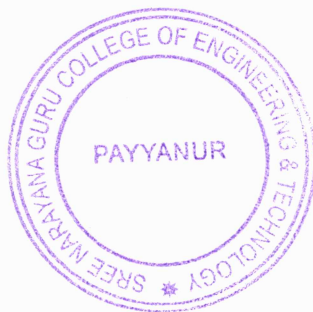
SNGCET/IV/CS/20

27<sup>th</sup> September 2022

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The seventh semester students of our college are permitted to go on industrial visits and excursions from 1<sup>st</sup> to 5<sup>th</sup> October 2022 there are 85 students and 4 faculty members of the department. It is with this certified that the following are the bonafide students of the 7<sup>th</sup> Semester B tech course of this college. The list of students is attached.

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**Principal**

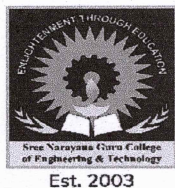
SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY, PAYYANUR  
KANNUR

To

All concerned

Enclosure: Students & Faculty list






**SREE NARAYANA GURU COLLEGE OF  
ENGINEERING & TECHNOLOGY  
DEPARTMENT OF MECHANICAL ENGINEERING**

SL NO	REGISTER NO	NAME OF STUDENT	COMPANY NAME	DATE
1	SNC19ME001	ADARSH P K	APL Apollo Tubes Ltd, Bangalore	01/10/2022
2	SNC19ME002	ADWAIDH BALAN		
4	SNC19ME004	ANURAG A		
5	SNC19ME005	ARSH IBRAHIM		
6	SNC19ME006	ASWANTH C		
7	SNC19ME007	ATHUL. B		
8	SNC19ME008	BIPIN.K		
9	SNC19ME009	FARHAN.C		
10	SNC19ME010	JASIN.P		
11	SNC19ME011	MOHAMMED AAFIL ISMAYIL M K		
12	SNC19ME012	MOHAMMED RAMADAN ANWAR		
13	SNC19ME013	MRIDUL.C		
14	SNC19ME014	NITHIN.A		
15	SNC19ME015	SAFVAN. I M		
16	SNC19ME016	SANDESH K DINESH		
17	SNC19ME017	SREEHARI S NAMBIAR		
18	SNC19ME018	VIDYASAGAR.P		

  
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# **SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY**

## **REPORT ON INDUSTRIAL VISIT**

**at**

**APL Apollo Tubes Ltd, Bangalore**

**2022-23**

**REPORT**

*Submitted by:*

**VIDYASAGAR P**

**SREEHARI S NAMBIAR**

**SAFWAN IM**

**MRIDUL C**

**NITHIN A**

**MOHAMMED RAMADAN ANWAR**

**MOHAMMED AAFIL ISMAYIL MK**

**JASIN P**

**BIPIN K**

**ATHUL B**

**ASWANTH C**

**ARSH IBRAHIM**

**ANURAGH A**

**FARHAN C**

**ADARSH PK**

  
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# DEPARTMENT OF MECHANICAL ENGINEERING

**Visit Report: APL Apollo Tubes Ltd**

**Date: October 1st, 2022**

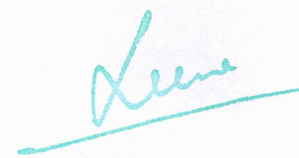
**Visiting Institution: Sree Narayana Guru College of Engineering & Technology**

## EXECUTIVE SUMMARY

The visit to APL Apollo Tubes Ltd on October 1st, 2022, provided an in-depth understanding of the company's operations, products, and contributions to the steel industry. With a capacity to produce 3.6 million tonnes per annum, APL stands as India's largest producer of Structural Steel Tubes. The company's extensive distribution network and diverse product portfolio, comprising over 1,100 varieties of steel products, reflect its commitment to quality and innovation. This report encapsulates the key observations, insights, and learnings garnered during the visit. Encourage students to explore internship opportunities at APL Apollo Tubes Ltd to gain practical experience and exposure to the steel manufacturing industry. Internships provide students with invaluable hands-on experience, allowing them to apply theoretical knowledge in real-world settings. Through internships, students can familiarize themselves with the various processes involved in steel production, from raw material sourcing to quality control and distribution. Moreover, internships offer opportunities for networking and mentorship, enabling students to gain insights from industry professionals and develop essential skills for their future careers. Incorporate case studies and industry-specific projects related to steel manufacturing into the college curriculum to provide students with a holistic understanding of the subject. Integrating real-world examples and practical applications into coursework enhances students' comprehension and retention of key concepts. Case studies allow students to analyze industry trends, challenges, and best practices, fostering critical thinking and problem-solving skills. Additionally, industry-specific projects enable students to collaborate, innovate, and apply their knowledge to solve complex problems relevant to the steel industry. By aligning the curriculum with industry requirements, colleges can better prepare students for the demands of the workforce and facilitate seamless transition into the professional realm.



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## CHAPTER 1


### INTRODUCTION TO APL APOLLO TUBES LTD

Sree Narayana Guru College of Engineering & Technology organized a visit to APL Apollo Tubes Ltd (APL) on October 1st, 2022, to provide students with practical exposure to the steel manufacturing industry. APL is India's largest producer of Structural Steel Tubes, with a production capacity of 3.6 million tonnes per annum. Headquartered in Delhi NCR, the company has a global presence, serving over 20 countries worldwide. The visit aimed to familiarize students with APL's operations, products, and contributions to the steel industry.

Sree Narayana Guru College of Engineering & Technology organized a visit to APL Apollo Tubes Ltd for its students to gain practical exposure to the steel manufacturing industry. APL Apollo Tubes Ltd, headquartered in Delhi NCR, is renowned for its state-of-the-art facilities, expansive distribution network, and high-quality steel products. The visit aimed to provide students with firsthand knowledge of the processes involved in steel production, the significance of quality control, and the role of innovation in shaping the industry. Organize regular industry visits and guest lectures by experts from the steel industry to further enhance students' knowledge and awareness of industry trends and developments. Industry visits provide students with firsthand exposure to industrial processes, technologies, and best practices, supplementing classroom learning with practical insights. Guest lectures by industry professionals offer opportunities for students to engage in dialogue, ask questions, and gain insights from experienced practitioners. Moreover, industry interactions foster collaboration between academia and industry, facilitating knowledge exchange and promoting industry-relevant research initiatives. By fostering a culture of industry engagement, colleges can enrich students' learning experiences and cultivate a deep understanding of the steel industry's dynamics.



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## CHAPTER 2

### COMPANY OVERVIEW

APL Apollo Tubes Ltd is a renowned manufacturer of steel tubes and hollow sections, catering to diverse sectors such as construction, infrastructure, and engineering. The company's extensive distribution network spans 29 cities across India, with over 800 authorized dealers. APL's commitment to quality, innovation, and customer satisfaction has solidified its position as a leader in the steel industry. APL Apollo Tubes Limited is India's largest Structural Steel Tubing Company with an extremely strong local presence, thanks to our philosophy of Make in India, extensive distribution network and world class quality. The vision of the company is To be a global leader and high performing organization recognized for excellence, governance, customer delight, and building long term relationships with all partners. And the mission is To lead the process of transformation of commodity to value added products through innovation and technology



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## **CHAPTER 3**

### **PRODUCTION FACILITIES & PRODUCT PORTFOLIO**

During the visit, students were given a comprehensive tour of APL's production facilities, where they witnessed the intricate processes involved in steel tube manufacturing. From raw material procurement to the final quality checks, every stage of production was meticulously executed with precision and efficiency. Advanced technology and automation were leveraged to enhance production capabilities and ensure consistent product quality.

APL Apollo Tubes Ltd offers a diverse range of steel products, including Pre-Galvanized Tubes, Structural Steel Tubes, Galvanized Tubes, MS Black Pipes, and Hollow Sections. With over 1,100 varieties available, the company caters to a wide spectrum of applications, from structural support in construction projects to plumbing and irrigation systems. The visit provided students with insights into the significance of product diversification in meeting market demands and sustaining competitiveness.

## **CHAPTER 4**

### **QUALITY ASSURANCE & DISTRIBUTION NETWORK**

Quality assurance is paramount at APL Apollo Tubes Ltd, with stringent quality control measures implemented throughout the production process. From raw material testing to final product inspection, the company maintains a rigorous quality management system to ensure that only the highest quality products reach the market. Students had the opportunity to witness quality control procedures firsthand, gaining an appreciation for their importance in maintaining customer trust and satisfaction.

APL Apollo Tubes Ltd operates with a robust distribution network comprising warehouses and branch offices strategically located across India. This extensive network, combined with over 800 authorized dealers, facilitates efficient product distribution and timely delivery to customers nationwide. The visit provided students with insights into the logistical challenges involved in managing such a vast distribution network and the strategies employed by APL to maximize efficiency.



Handwritten signature of Dr. Leena A V, Principal of Sree Narayana Guru College of Engineering & Technology, Payyanur, Kannur.

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## **CHAPTER 5**

### **GLOBAL PRESENCE & CORPORATE SOCIAL RESPONSIBILITY (CSR)**

In addition to its strong domestic presence, APL Apollo Tubes Ltd has made significant inroads into international markets, exporting its products to over 20 countries worldwide. The company's commitment to quality and adherence to international standards have enabled it to establish a foothold in global markets. The visit offered students a glimpse into the complexities of international trade and the challenges and opportunities associated with expanding into foreign markets.

APL Apollo Tubes Ltd is committed to corporate social responsibility (CSR) initiatives aimed at creating a positive impact on society and the environment. The company actively engages in various community development programs, focusing on education, healthcare, and environmental sustainability. Students learned about APL's CSR initiatives and the role of businesses in contributing to sustainable development and social welfare.

## **CHAPTER 6**


### **LEARNING OUTCOMES & RECOMMENDATIONS**

The visit to APL Apollo Tubes Ltd provided students with invaluable insights into the steel manufacturing industry, from production processes to quality assurance and distribution strategies. Witnessing firsthand the company's state-of-the-art facilities, commitment to quality, and focus on innovation broadened students' understanding of the complexities and challenges inherent in the steel industry.

Based on the observations and insights gathered during the visit, recommendations were proposed to further enhance students' knowledge and awareness of the steel industry. Acknowledgments were extended to the management and staff of APL Apollo Tubes Ltd for their cooperation and hospitality, which contributed to the success of the visit.



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## CHAPTER 7

### CONCLUSIONS

The visit to APL Apollo Tubes Ltd provided students with invaluable insights into the steel manufacturing industry, from production processes to quality assurance and distribution strategies. Witnessing firsthand the company's state-of-the-art facilities, commitment to quality, and focus on innovation has broadened the students' understanding of the complexities and challenges inherent in the steel industry. The visit served as a catalyst for learning, inspiring students to pursue excellence in their academic and professional endeavours while instilling in them a deeper appreciation for the role of steel in shaping the world around us.



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PAYYANUR, KANNUR

October 01<sup>st</sup>, 2022

## CERTIFICATE

This is to certify that **Mr. Vidyasagar P** of Sree Narayana Guru College of Engineering & Technology has visited **APL Apollo Tubes LTD** as part of their Industrial Visit on October 1<sup>st</sup>, 2022. A tour of the production plant and a quick summary of how structural tubes are used widely in industries were provided.

We wish them the best for their future.

  
DR. DEENA A. V.  
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For APL Apollo Tubes LTD, Bangalore






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This is to certify that **Mr. Adarsh PK** of Sree Narayana Guru College of Engineering & Technology has visited **APL Apollo Tubes LTD** as part of their Industrial Visit on October 1<sup>st</sup>, 2022. A tour of the production plant and a quick summary of how structural tubes are used widely in industries were provided.

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For APL Apollo Tubes LTD, Bangalore

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