



Parshvanath Charitable Trust's
A. P. SHAH INSTITUTE OF TECHNOLOGY
(Approved by AICTE New Delhi & Govt. of Maharashtra, Affiliated to University of Mumbai)
(Religious Jain Minority)



DEPARTMENT OF MECHANICAL ENGINEERING

INDUSTRIAL VISIT REPORT

Date: 25-09-2019

OVERVIEW OF THE VISIT

A report based on an industrial visit organized by ISHRAE Thane chapter 24 SEPT 2019 to Mitsubishi Electric located at Andheri, Mumbai, for the students of Mechanical Engineering of ISHRAE-APSIT in order to enhance their practical skills and let them having an overview of the working, functioning and applications related to “Air Conditioning” and “Refrigerants”. Prof. Umair Momin was the main faculty for this whole industrial visit.





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COMPANY PROFILE



Mitsubishi Electric is a well-known brand and Global Leader in Electric and Electronic Equipment for Residential, Commercial and Industrial use. Mitsubishi Electric has presence across India with a large distribution channel which is expanding to more cities.

Mitsubishi Electric India offers complete solution for factory automation and industrial products, residential, commercial and industrial air conditioning, video and imaging products and provision for technical and marketing support for power semiconductors, photovoltaic modules, transportation, power systems and CNC solutions.

PRINCIPAL DIVISIONS AND BUSINESS UNITS

Building Systems

Air conditioning Systems

Elevators & Escalators

High-speed hand dryers (marketed as Mitsubishi Jet Towel)[15]

Communication Systems

Communication Systems



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Information Security

Space Systems

Industrial Automation

Automation Systems

Industrial Automation Machinery

Medical Systems

Particle Beam Treatment System

Power Systems

Solar Power

Semiconductors & Devices

Contact Image Sensors

Electronic Devices

TFT-LCDs

Transportation

Automotive Equipment

Intelligent Transport Systems

Transportation Systems

Visual Information Systems

High definition Televisions[16]

Large-Scale LED Displays

Multimedia Projectors



WHAT WE LEARNED

Mitsubishi Electric is a world leader in air conditioning systems for residential, commercial and industrial use. Challenged to create air conditioning systems that provide exemplary performance in the wide-ranging climatic conditions found throughout Japan, our engineers develop amazingly sophisticated yet durable units and systems capable of constant use under virtually any natural climatic condition on earth. Each product is an amazing feat in its own, delivering years of quiet operation, energy-efficient performance and minimum impact on the environment

AIR CONDITIONERS:

ROOM AIR CONDITIONERS:

Features @ a glance



Catechin Plus Air Purification System

Hi CFM – fastest Cooling

Excellent Energy Efficiency

Eco-Friendly Operations

24 x 7 Support

Wide and Long Throw - upto 12 Metres



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Anti Allergy Enzyme Filter

Quietest - 19db

Auto Restart

Econo Cool

Economic

PACKAGED AIR CONDITIONER:

Ceiling Cassette

Ceiling Suspended

Ceiling Concealed

CITY MULTI:

Indoor

Outdoor

System Controller

LOSSNAY:

GUF SERIES

Exceptionable Air Quality

Highly Efficient Humidification

Substantial Energy Savings





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LGH series

Minimal Energy Loss

Maximum Heat Recovery

Substantial Energy Saving



JET TOWEL HAND DRYERS:





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GROUP PHILOSOPHY OF THE COMPANY:

The Three Corporate Principles - Corporate Responsibility to Society; Integrity and Fairness; and Global Understanding Through Business - established early on in our company's history, serve as MC's core philosophy, inspiring us to continually improve the way we address our economic, environmental, and social responsibilities around the world.

Building upon the foundation of these Three Corporate Principles, our Corporate Standards of Conduct establishes the Company's expectations with regard to how business should be conducted, while the Mitsubishi Corporation Code of Conduct provides guidance to our employees worldwide based on local laws and global standards such as the Universal Declaration of Human Rights and the ILO Core Labor Standards.

OBSERVATIONS AND LEARNING:

- There are a number of products being manufactured by Mitsubishi Electric which is carried out on a major scale.
- All the manufacturing is done by machines and labours.
- There is a proper management and utilization of manpower and machines.

CONCLUSION:

We are thankful to our faculties for organizing such an informative event for us and is also crucial to make us technically sound and make us familiar with some technical jargons. We have



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learned about the GWP and ODP and the amount of tons of AC we need to cool a particular room.

We hope we get more chances further to have such wonderful and informative experiences of visiting different industries.

REFERENCES:

- <https://www.mitsubishielectric.in/>
- <https://www.mitsubishielectric.com/en/index.html>
- Points noted by us during time of visit