



# M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)  
UG - CSE, EEE & MECH Programs Accredited by NBA, New Delhi.  
(An ISO 9001:2015 Certified Institution)  
TRICHY - PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI - 620 007.  
Email: principalengg@miet.edu, contact@miet.edu  
Website: - www.miet.edu



Ph: 0431 - 2660 303

## 1.3.3 Percentage of students undertaking project work/field work/internships (Data for the latest completed academic year)

### 1.3.3.1 Number of students undertaking project work/field work/internships

Project work completion certificates, front page and last page of project work records of students with sl.No. 14,34,54,74,91 of all branches of B.Tech and MBA program

### CIVIL ENGINEERING

S.NO	METRIC SL.NO	REGISTER NO	STUDENT NAME	YEAR	PAGE NO
1	14	812417103017	IZAS AHAMED .H	III	3-16
2	34	812417103301	ABDUL RAHMAN.J	III	3-16
3	54	812416103017	IJAS AHAMED .M	IV	17-20
4	74	812416103040	PARTHIBAN.S	IV	21-24
5	91	812416103302	ARAVIND .S	IV	25-28

### COMPUTER SCIENCE AND ENGINEERING

S.NO	METRIC SL.NO	REGISTER NO	STUDENT NAME	YEAR	PAGE NO
6	14	812418104017	JENIFER .T	II	39-48
7	34	812418104043	SHEIK JABEER .S	II	39-48
8	54	812417104014	ILAKIYA.B	III	29-38
9	74	812417104052	PRAVEEN.M	III	29-38
10	91	812417104072	VENKATESH .M	III	29-38

### ELECTRONICS AND COMMUNICATION ENGINEERING

S.NO	METRIC SL.NO	REGISTER NO	STUDENT NAME	YEAR	PAGE NO
11	14	812418106017	MOHAMED RIFAI.H	II	67-81
12	34	812417106012	AMMU .S	III	49-66
13	54	812417106043	NIRANJANI.B	III	49-66
14	74	812416106009	GAYATHRI VANI .A	IV	82-85
15	91	812416106031	RIFANSIYA	IV	86-89

  
PRINCIPAL

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GUNDUR, TIRUCHIRAPPALLI-620 007.



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Ph: 0431 - 2660 303

## ELECTRICAL AND ELECTRONICS ENGINEERING

S.NO	METRIC SL.NO	REGISTER NO	STUDENT NAME	YEAR	PAGE NO
16	14	812418105038	MOHAMED YASIN.S	II	101-116
17	34	812417105004	AMALA JESIMA V	III	90-100
18	54	812417105028	MERCY MIRAKLINE.V	III	90-100
19	74	812417105055	SOWMIYA.M	III	90-100
20	91	812416105001	ABDULLAH.J	IV	117-120

## MECHANICAL ENGINEERING

S.NO	METRIC SL.NO	REGISTER NO	STUDENT NAME	YEAR	PAGE NO
21	14	812418114025	DAWOOD SHERIF.M	II	127-132
22	34	812418114313	MARVIN.K	II	127-132
23	54	812418114080	SATHISH.M	II	121-126
24	74	812418114319	NOYEL.A	II	121-126
25	91	812417114020	ARULKABIRIYAL.M	III	133-137

## MASTER OF BUSINESS ADMINISTRATION

S.NO	METRIC SL.NO	REGISTER NO	STUDENT NAME	YEAR	PAGE NO
26	14	812419631014	FATHIMA FARVEEN.S	I	138
27	34	812419631034	PASUPATHY .K	I	139
28	54	812419631056	SWETHA .R	I	140
29	74	812418631020	MOHAMED ELIYAS.A	II	141-144
30	91	812418631038	VIJAYALAKSHMI.A	II	145-148

  
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GUNDUR, TIRUCHIRAPPALLI-620 007.

13.09.2019

From  
M.M.Mohamed Riswan (E1171026)  
Class representative/ III year Civil  
MIET Engineering college  
Trichy-07.

To  
The chairman  
MIET Educational Institutions  
Trichy-07

Through the principal,  
Respected madam,

Sub: Requesting permission for Industrial visit – reg.

As a part of our curriculum, we are III year students of civil Engineering would like to go for an industrial visit to **Dodabeta Tea factory, Ooty** on 28/9/2019 (Saturday). So kindly request you to permit us for the same.

Thanking you,

Yours obediently,

*M.Mohamed Riswan*  
(M.M.Mohamed Riswan)

*S. J. J.*  
Industrial visit co-ordinator/civil

*S. Sankaran*  
HOD

*Atul*  
HOD/TPO

*[Signature]*  
PRINCIPAL

*[Signature]*  
CHAIRMAN  
25.9.19

*[Signature]*  
PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.



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Email : principalengg@miet.edu, contact@miet.edu & mietenggooffice@gmail.com

www.miet.edu

Dr. X. SUSAN CHRISTINA, M.E., Ph.D.,  
Principal

Date : 30.08.2019

To

HR Manager,  
Dodabetta Tea Factory,  
Ooty - 643 002

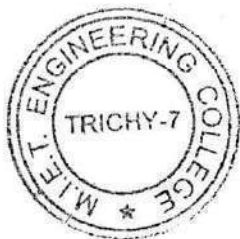
## TO WHOM SOEVER IT MAY CONCERN

This is to certify that the attached list of names are bonafide students of this institution studying in **Third Year of Civil Engineering**. The total strength of 42 students along with 3 Faculty Members are willing to undergo industrial visit in your organization on 28<sup>th</sup> September 2019. So, I hereby request to approve our requisition and therefore enable our students to make this industrial visit as a pragmatic experience.

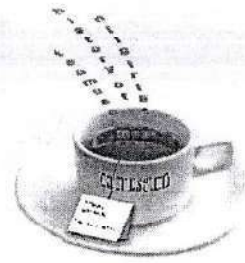
Encl: Students Name List

  
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A speciality tea centre managed by the **Doddabetta Tea Factory**  
tea history | factory tour | souvenirs | tea spot

10.09.2019

To  
The Principal  
MIET Engineering College  
Trichy

Sir,

We are in receipt of your letter regarding an Industrial visit by your students to our Tea Factory. We wish to inform you that your students may visit our factory on 28.09.19. Between 10 am to 4 pm and necessary arrangements will be made to explain the entire process of Tea Manufacture to them.

In our 10<sup>th</sup> year, as a special gesture, we extend FREE ENTRY to the Tea Factory for students of schools & colleges on production of confirmation letter. Teachers accompanying the students are also provided free entry. For further enquiry please contact our Tour-in-charge on tel no. 0423-2231679 or drop an Email to [tmuseumdtf@rediffmail.com](mailto:tmuseumdtf@rediffmail.com) regarding your Industrial Visit. A certificate of participation can be availed on completion of the tour. In the meantime, please view a video of The Tea Museum and The Tea Factory on this link <https://youtu.be/AazGhgne0kc>.

Thanking You

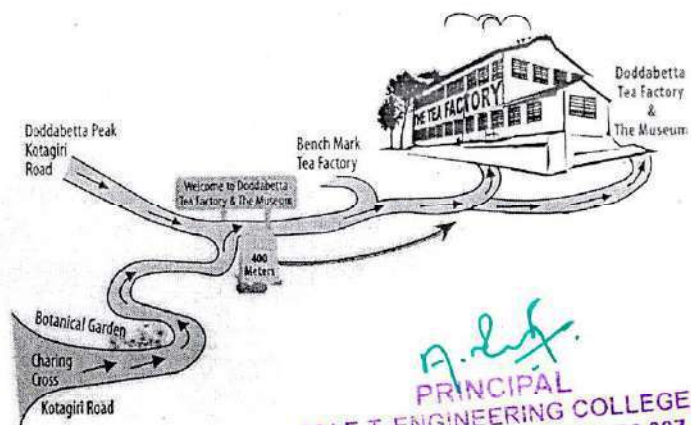
Yours Sincerely

For DODDABETTA TEA FACTORY

Managing Partner

N.K. Krishnamorthy

## DIRECTIONS TO THE FACTORY



*A. S. S.*  
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Company Profile and Learning Experience

**Dodabeta Tea Factory- Ooty**

At tea factory, they have made the arrangement for visitors to see the process of manufacturing of Tea. Factory staff is very co-operative. They are responding each and every questions of visitors about the manufacturing. They have shown each and every step in the manufacturing of Tea. At the end they are distributing a free cup of tea to every visitor. They have made the arrangement for purchasing the variety of Teas also i.e green tea, masala tea etc. I can say this is very good marketing technique. Whatever it is, people comes to know how the tea is manufactured, which they are daily drinking. Behind the tea factory, there are shop for the purchasing of hand made chocolates, where chocolate lovers can purchase. In this tea factory how to treat waste material from tea and treatment method have been seen practically and disposing of waste is important factor.

R. J. J. —

A. S. S. 1919  
HOD/CIVIL

  
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MIET ENGINEERING COLLEGE  
DEPARTMENT OF CIVIL ENGINEERING  
STUDENT NAMELIST


S.No	Roll No	Name
1	E1171001	Abdullah. S
2	E1171004	Afsal Ahmed. A
3	E1171005	Ajith Kumar. K
4	E1171007	Ameer Basha. M
5	E1171008	Aravind. A
6	E1171009	Azarudeen. S
7	E1171010	Basheer. M
8	E1171011	Darwish Ahamed. M
9	E1171012	Dhivakaran. S
10	E1171013	Divakaran. G
11	E1171014	Faisal Khan. M
12	E1171015	Haamithullah. Y.S
13	E1171016	Isak Ahamed.. J
14	E1171017	Izas Ahamed. H
15	E1171018	Jayaprakash. G
16	E1171019	Kishore J. J
17	E1171020	Mahadevan. N
18	E1171021	Mohamed Anas. J
19	E1171023	Mohamed Ashik. J
20	E1171026	Mohamed Riswan M. M
21	E1171027	Mohamed Riyas M. M

  
Industrial visit coordinator

MIET ENGINEERING COLLEGE  
DEPARTMENT OF CIVIL ENGINEERING  
STUDENT NAMELIST

S.No	Roll No	Name
22	E1171030	Mohamed Suhail. H
23	E1171033	Nethaji. M
24	E1171034	Nihal S. S
25	E1171035	Prince Natheem M R. M
26	E1171036	Riyas Ahamed. M
27	E1171037	Santhosh. P
28	E1171038	Saravanan. A
29	E1171040	Sheik Mohamed Yoosuf. M.H
30	E1171042	Sri Kannan. S
31	E1171045	Venkatesh. C
32	E1171046	Yakoob Farthani. M
33	E2181047	Abdul Rahman. J
34	E2181048	Ahamed Tharik. K
35	E2181049	Arjun Raj.R. R
36	E2181051	Ayyanar. M
37	E2181052	Jegan. T
38	E2181053	Lakshman. S
39	E2181054	Manikandan. B
40	E2181057	Ramanathan. M
41	E3161061	Sivasubramani. M

  
HOD / Civil

  
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Department of Civil Engineering

III Year /Date of Visit 28-09-2019

Faculty, Students Gender List

Civil

Boys Students: 41

Total : 41

Faculty List

Male Faculty: 02

Total : 02



INDUSTRIAL VISIT CO-ORDINATOR



HOD



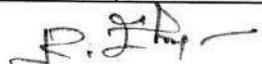
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MIET ENGINEERING COLLEGE  
DEPARTMENT OF CIVIL ENGINEERING  
III YEAR  
MALE STUDENT NAMELIST

S.No	Roll No	Name	Faculty Incharge
1	E1171001	Abdullah. S	T.K.Vimal Balaji
2	E1171004	Afsal Ahmed. A	T.K.Vimal Balaji
3	E1171005	Ajith Kumar. K	T.K.Vimal Balaji
4	E1171007	Ameer Basha. M	T.K.Vimal Balaji
5	E1171008	Aravind. A	T.K.Vimal Balaji
6	E1171009	Azarudeen. S	T.K.Vimal Balaji
7	E1171010	Basheer. M	T.K.Vimal Balaji
8	E1171011	Darwish Ahamed. M	T.K.Vimal Balaji
9	E1171012	Dhivakaran. S	T.K.Vimal Balaji
10	E1171013	Divakaran. G	T.K.Vimal Balaji
11	E1171014	Faisal Khan. M	T.K.Vimal Balaji
12	E1171015	Haamithullah. Y.S	T.K.Vimal Balaji
13	E1171016	Isak Ahamed.. J	T.K.Vimal Balaji
14	E1171017	Izas Ahamed. H	T.K.Vimal Balaji
15	E1171018	Jayaprakash. G	T.K.Vimal Balaji
16	E1171019	Kishore J. J	T.K.Vimal Balaji
17	E1171020	Mahadevan. N	T.K.Vimal Balaji
18	E1171021	Mohamed Anas. J	T.K.Vimal Balaji
19	E1171023	Mohamed Ashik. J	T.K.Vimal Balaji
20	E1171026	Mohamed Riswan M. M	T.K.Vimal Balaji
21	E1171027	Mohamed Riyas M. M	T.K.Vimal Balaji
22	E1171030	Mohamed Suhail. H	B.Sekar
23	E1171033	Nethaji. M	B.Sekar
24	E1171034	Nihal S. S	B.Sekar
25	E1171035	Prince Natheem M R. M	B.Sekar
26	E1171036	Riyas Ahamed. M	B.Sekar
27	E1171037	Santhosh. P	B.Sekar
28	E1171038	Saravanan. A	B.Sekar
29	E1171040	Sheik Mohamed Yoosuf. M.H	B.Sekar
30	E1171042	Sri Kannan. S	B.Sekar
31	E1171045	Venkatesh. C	B.Sekar
32	E1171046	Yakoob Farthani. M	B.Sekar
33	E2181047	Abdul Rahman. J	B.Sekar
34	E2181048	Ahamed Tharik. K	B.Sekar
35	E2181049	Arjun Raj.R. R	B.Sekar
36	E2181051	Ayyanar. M	B.Sekar
37	E2181052	Jegan. T	B.Sekar
38	E2181053	Lakshman. S	B.Sekar
39	E2181054	Manikandan. B	B.Sekar
40	E2181057	Ramanathan. M	B.Sekar
41	E3161061	Sivasubramani. M	B.Sekar

  
Industrial visit coordinator

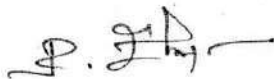
  
HOD/Civil

  
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8


**M.I.E.T ENGINEERING COLLEGE**  
**DEPARTMENT OF CIVIL ENGINEERING**  
**PROGRAMME SCHEDULE (Industrial Visit)**  
**28.09.2019 (Saturday)**

<u>TIME</u>	<u>ACTIVITIES</u>
02.00am(28.09.2019)	Departure from M.I.E.T campus
08.00am	breakfast
10.00 am	Reaching Industry
10.30 am	Visiting Site
01.00pm	Lunch
02.30 pm	Discuss about the Treatment of waste & disposing system
04.30 pm	Departure from industry
05.30 pm	Tea & Snacks
11.00 pm	Return to M.I.E.T



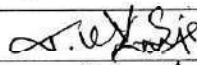
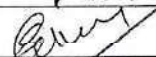
INDUSTRIAL VISIT CO-ORDINATOR

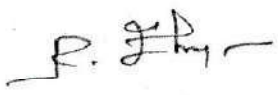
  
HOD

  
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**M.I.E.T ENGINEERING COLLEGE**  
**DEPARTMENT OF CIVIL ENGINEERING**

The following faculty members are accompanying with the students of III year Civil Engineering for industrial visit on 28.09.2019

Faculty Name	Mobile Number	Signature
Mr.T.K.Vimal Balaji	9944550716	
Mr.B.Sekar	9944866910	



**INDUSTRIAL VISIT CO-ORDINATOR**

  
**HOD**


  
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**MIET ENGINEERING COLLEGE**  
**DEPARTMENT OF CIVIL ENGINEERING**  
**STUDENT NAMELIST**  
**STUDENT WILLINGNESS FORM**

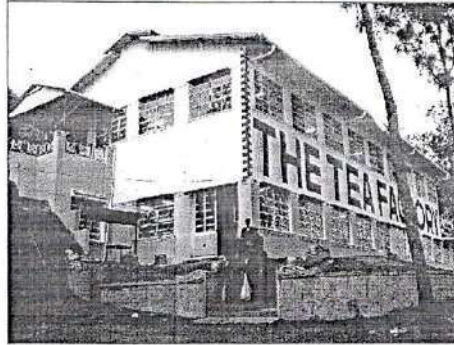
S.No	Roll No	Name	Willingness
1	E1171001	Abdullah. S	Willing
2	E1171004	Afsal Ahmed. A	Willing
3	E1171005	Ajith Kumar. K	Willing
4	E1171007	Ameer Basha. M	Willing
5	E1171008	Aravind. A	Willing
6	E1171009	Azarudeen. S	Willing
7	E1171010	Basheer. M	Willing
8	E1171011	Darwish Ahamed. M	Willing
9	E1171012	Dhivakaran. S	Willing
10	E1171013	Divakaran. G	Willing
11	E1171014	Faisal Khan. M	Willing
12	E1171015	Haamithullah. Y.S	Willing
13	E1171016	Isak Ahamed.. J	Willing
14	E1171017	Izas Ahamed. H	Willing
15	E1171018	Jayaprakash. G	Willing
16	E1171019	Kishore J. J	Willing
17	E1171020	Mahadevan. N	Willing
18	E1171021	Mohamed Anas. J	Willing
19	E1171023	Mohamed Ashik. J	Willing
20	E1171026	Mohamed Riswan M. M	Willing
21	E1171027	Mohamed Riyas M. M	Willing
22	E1171030	Mohamed Suhail. H	Willing
23	E1171033	Nethaji. M	Willing
24	E1171034	Nihal S. S	Willing
25	E1171035	Prince Natheem M R. M	Willing
26	E1171036	Riyas Ahamed. M	Willing
27	E1171037	Santhosh. P	Willing
28	E1171038	Saravanan. A	Willing
29	E1171040	Sheik Mohamed Yoosuf. M.H	Willing
30	E1171041	Shobana. S	Not Willing
31	E1171042	Sri Kannan. S	Willing
32	E1171045	Venkatesh. C	Willing
33	E1171046	Yakoob Farthani. M	Willing
34	E2181047	Abdul Rahman. J	Willing
35	E2181048	Ahamed Tharik. K	Willing
36	E2181049	Arjun Raj.R. R	Willing
37	E2181051	Ayyanar. M	Willing
38	E2181052	Jegan. T	Willing
39	E2181053	Lakshman. S	Willing
40	E2181054	Manikandan. B	Willing
41	E2181056	Movin Jerome. SA	Not Willing
42	E2181057	Ramanathan. M	Willing
43	E2181059	Srithar. S	Not Willing
44	E2181060	Vinoth Kingsly. M	Not Willing
45	E3161061	Sivasubramani. M	Willing

  
 IV Coordinator

  
 HOD/Civil 17/1/14

  
**PRINCIPAL**  
 M.I.E.T. ENGINEERING COLLEGE  
 GUNDUR, TIRUCHIRAPPALLI-620 097.

# Doddabetta Tea Factory And the Tea Museum



## INDUSTRIAL VISIT CERTIFICATE

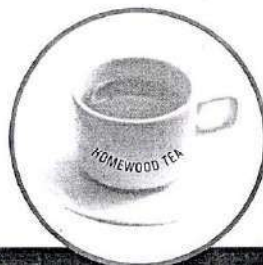
This is to certify that students of MIET Engineering College  
Department of Civil Engineering on 28/09/19

visited The Doddabetta Tea Factory and the Tea Museum on.....

They were given first hand information of the entire tea history and processing. They participated in a guided factory tour in which the history of tea and the different stages of tea processing like withering, crushing, cutting / tearing / curling (CIC), shaping, fermentation, drying, cleaning and grading was explained to them. The students evinced keen interest in knowing all aspects about tea manufacture.

Place : Udthagamandalam

Date : 28/09/19



Authorised Signatory

PRINCIPAL

M.I.E.T. ENGINEERING COLLEGE

Adm. Office : 16-B, Nankem Hospital Premises, Coonoor - 643 101, The Nilgiris. Phone : (0423) 2231679  
Mobile : 94430 30520 / 94434 18000 www.teamuseum-india.com e-mail : tmuseumdtf@rediffmail.com

## REPORT ON ONE DAY INDUSTRIAL VISIT

Name of the Industry : DODDABETTA TEA FACTORY  
Place of Visit : DODDABETTA-OOTY  
Date of Visit : 28.09.2019

*A. J. S.*  
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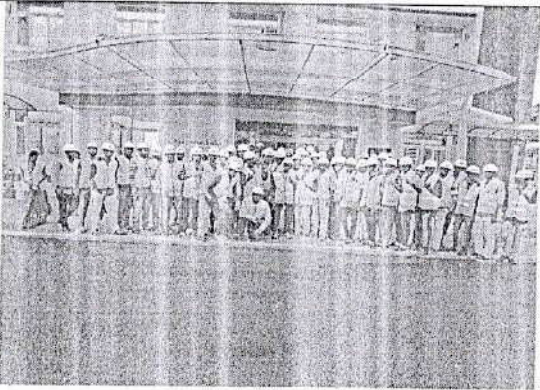
## Report on One Day Industrial Visit

01	Company (s) Visited	DODDABETTA TEA FACTORY-OOTY	
02	Number of Students	Boys	41
		Girls	-
03	Faculty Coordinators	Male	2
		Female	-
04	Date & Time of Industrial Visit	28/ 09 /2019	Time : 10 A.M to 4 P.M
05	Approval Date	10.09.2019	
06	Objective of the Visit	The main objective of this Visit is to learn about the whole manufacturing process of tea at the plant.	
07	Company Profile & Learning Experience	<p><b>Dodabetta Tea Factory</b>, at <u>ooty</u>, TamilNadu was founded in the year 2005, and is well managed by Mr. N.K.Krishnamoorthy, former Member of Tea Board. Factory sprawls over an area of 1 acre in Ooty in the midst of the many blue hills of the Nilgiris, second largest hill station, bounded by tea plantations, at an altitude of 1839 meters. We have seen right from when the leaf is brought into the factory for withering, to the rolling, drying and shifting stages. . . until the tea grains are poured into jute bags for shipment.</p>	

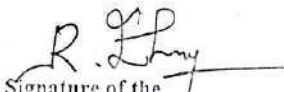
  
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to the vast industrial and agricultural market of the south and west.


08	Programme Schedule (As executed)	12:00am-Departure from M.I.E.T campus 08:00am- Breakfast 10:00am – Reaching site 10:30am –Visiting Site (PORT) 01:00pm – Lunch 02:30pm – Visiting site 04:30pm – Departure from site 05:30pm – Tea & snacks 11:30am – Return to M.I.E.T
09	Brief about the Students Observation	1. Students observe the transshipment process 2. They are learned what are the structures are available in port and know the working principles. 3. Points to be taken care for quality control. 4. Safety precaution in port.
10	Conclusion	By this port visit Students learn more practical knowledge in their field. Definitely it will be helpful for their career
11	Attachments (Scanned Photos of the Industrial Visit)	

(Attach additional Sheets, if required)

  
Signature of the  
Coordinator

  
HoD / Signature

  
Principal

  
**PRINCIPAL**  
**M.I.E.T. ENGINEERING COLLEGE**  
**GUNDUR, TIRUCHIRAPPALLI-620 007.**



**STUDY AND INVESTIGATION AN PERMEABLE  
CONCRETE**

**A PROJECT REPORT**

*Submitted by*

<b>ASHIK AHMED N</b>	<b>(812416103006)</b>
<b>DINESH KUMAR A</b>	<b>(812416103011)</b>
<b>IJAS AHAMED M</b>	<b>(812416103017)</b>
<b>THASLIM KAUSER S</b>	<b>(812416103052)</b>

*in partial fulfillment for the award of the degree  
of*

**BACHELOR OF ENGINEERING**

**IN**

**CIVIL ENGINEERING**

**MIET ENGINEERING COLLEGE, TIRUCHIRAPPALLI**

**ANNA UNIVERSITY: CHENNAI 600 025**

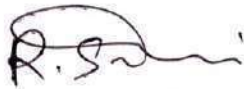
**SEPTEMBER 2020**

  
**PRINCIPAL**  
**M.I.E.T. ENGINEERING COLLEGE**  
**GUNDUR, TIRUCHIRAPPALLI-620 007.**

**ANNA UNIVERSITY : CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “**STUDY AND INVESTIGATION AN PERMEABLE CONCRETE**” is the bonafide work of **ASHIK AHMED N, DINESH KUMAR A, IJAS AHAMED M** and **THASLIM KAUSER S** who carried out the project work under my supervision.



**SIGNATURE**

**Dr. R. Saravanan M.E.,Ph.D.,**  
**PROFESSOR AND HEAD**  
Department of Civil Engineering  
MIET Engineering College  
Tiruchirappalli 620007



**SIGNATURE**

**Mr. B. SEKAR M.E.,**  
**SUPERVISOR**  
Assistant Professor  
Department of Civil Engineering  
MIET Engineering College  
Tiruchirappalli 620007

Submitted for viva-voce examination held on 22/07/2020



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

## ABSTRACT

Rice Husk Ash is one of the most active research areas that encompass a number of disciplines including civil engineering and construction materials. Rice Husk Ash (RHA) is an agricultural waste product which is produced in large quantities globally every year and due to the difficulty involved in its disposal, can RHA becoming an environmental hazard in rice producing countries. India alone produces around 120 million tons of rice paddy per year, giving around 24 million tons of rice husk per year and 6 million tons of rice husk ash per year. As the rice husk ash is piling up every day, there is a pressure on rice industries to find a solution for its disposal. It is most essential to develop eco-friendly concrete from RHA. RHA can be used in concrete to improve its strength and other durability factors. So we can use RHA as a partial replacement of cement in pervious concrete. In this research study the (OPC) cement has been replaced by RHA accordingly in the range of 10% and 20% by weight of cement for 0.30, 0.35, and 0.40 water/cement ratio. The compressive strength test and flexural strength test was carried out for 7, 14 and 28 days to measure the compressive strength and flexural strength of concrete. So the aim of the investigation is to study the behaviour of pervious concrete while replacing the RHA with different proportions in concrete. Test results have reflected, the compressive strength achieved up to 10% replacement of cement with RHA will be optimum without effecting properties of fresh and hardened concrete. Plastic is used in day today life. At present nearly 56 lakhs ton of plastic waste is produced in India per year.

iv

## CHAPTER 7

### CONCLUSION

Based on experimental investigations concerning the compressive strength and flexural strength of concrete, the following observations are made:

- W/C ratio is increase respectively compressive strength and flexural strength of pervious concrete is increase.
- The Compressive Strength of Pervious Concrete is increases up to 10% replacement of Cement with RHA beyond than it is starting to decrease.
- The Flexural Strength of Pervious Concrete is increases up to 10% replacement of Cement with RHA beyond than it is starting to decrease.
- It is the possible alternative solution of safe disposal of RHA.

**EXPERIMENTAL INVESTIGATION ON CONCRETE BY PARTIAL  
REPLACEMENT OF SAND WITH BRICK DUST**

**A PROJECT REPORT**

**Submitted by**

<b>FAZIL RAHMAN.M</b>	<b>812416103013</b>
<b>MOHAMMED ILIYAS.I</b>	<b>812416103036</b>
<b>PARTHIBAN.S</b>	<b>812416103040</b>
<b>YASIN.M</b>	<b>812416103055</b>

**in partial fulfilment for the award of the degree of**

**BACHELOR OF ENGINEERING**


**in**

**CIVIL ENGINEERING**

**MIET ENGINEERING COLLEGE, TRICHY**

**ANNA UNIVERSITY: CHENNAI 600 025**

**SEPTEMBER 2020**

  
**PRINCIPAL**  
**M.I.E.T. ENGINEERING COLLEGE**  
**GUNDUR, TIRUCHIRAPPALLI-620 007.**

Balam V

**ANNA UNIVERSITY: CHENNAI 600025**

**BONAFIDE CERTIFICATE**

Certified that this project report “**EXPERIMENTAL INVESTIGATION ON CONCRETE BY PARTIAL REPLACEMENT OF SAND WITH BRICK DUST**” is the bonafide work of following students

<b>FAZIL RAHMAN.M</b>	<b>812416103013</b>
<b>MOHAMMED ILIYAS.I</b>	<b>812416103036</b>
<b>PARTHIBAN.S</b>	<b>812416103040</b>
<b>YASIN.M</b>	<b>812416103055</b>

Who carried out the project work under my supervision.



**SIGNATURE**

Dr. R. SARAVANAN M.E, Ph.D.  
**HEAD OF THE DEPARTMENT,**  
Assistant Professor,  
Department of civil engineering,  
M.I.E.T. Engineering College,  
Trichy-07



**SIGNATURE**

Mr. S. Karthikeyan, M.E  
**SUPERVISOR,**  
Assistant Professor,  
Department of civil engineering,  
M.I.E.T. Engineering College,  
Trichy-07

Submitted for University Examination held on 22/09/2020



Internal Examiner



External Examiner

  
**PRINCIPAL**  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.

## ABSTRACT

Concrete is the material which is mostly used for infrastructure development throughout the world. Fine aggregate is a prime material which is used for the preparation of mortar and concrete and also plays a major role in the mix design. Fine aggregates are weathered and worn out particles of rocks and are of various grades or sizes depending upon the amount of wearing. Now-a-days fine aggregate is not readily available and being transported from long distance. The non-availability or shortage of fine aggregate will affect the construction industry, hence there is a need to find the new alternative material to replace fine aggregate. The objective of our study is to investigate the suitability of usage of brick dust in concrete in place of fine aggregate. Brick dust originated from demolished masonry walls crushed in the laboratory and added in concrete as partial fine aggregate replacement. Five replacement levels 5%,10%, 15% and 20% were added and compared with the conventional concrete. The tests on concrete showed that the mechanical properties (compressive strength test) of concrete containing brick dust were well comparable to those of the conventional concrete.

**Keywords:** Compressive strength, Brick dust, Fine aggregate.

characteristics of a concrete. We have casted a total of 12 concrete blocks with different proportions including OPC. Size of the concrete block 150mm×150mm×150mm cube moulds are used for the tests. The concrete is poured in to mould and are tampered to avoid voids. After hours of duration test moulds are removed and the specimens are kept in water for curing. These specimens are tested under compressive testing machine after 7 days, 14 days and 28 days after casting.

## CONCLUSIONS

Based on the experimental study of investigating the use of brick debris in concrete, the following conclusions which are limited to the materials used in the study.

- This is an eco-friendly concrete as it subsides the stagnation of demolished brick waste by consuming it.
- As much as of the total cost of cement in conventional method can be saved by this procedure. Cost saving percentage increases with increase in richness of mix design.
- Concrete gains early strength and hence shuttering can be removed early thereby reducing the secondary overhead copy.
- The test results of compressive strength shows that the optimum replacement of fine aggregate is achieved at 20% replacement of fine aggregate by crushed brick debris compared to the respective conventional concrete strength.
- The possibility exists for the partial replacement of fine aggregate with brick debris.

Also other industrial and agro-waste materials can be appropriately utilized in civil construction works. Therefore, the economic viability of such applications along with the durability of these materials needs further examination. An important obvious advantage is that with recycling of stone, aggregate, bricks etc. quarrying and mining for stones, and will be reduced. Thus the earth surface can be further saved and ecological disturbances on account of this activity will be reduced. For example, raw material for bricks manufacturing is totally earth based. Reuse of bricks means lesser possibilities of removing fertile earth, soil grass cover and forestation. This will minimize environmental destruction in over all terms. With large volume of building works, and to meet its demand, it is observed that there can be large uncontrolled growth of brick kilns, contributing to environmental decay.



**EXPERIMENTAL STUDIES ON STRENGTH OF CONCRETE  
BY PARTIAL REPLACEMENT OF MARBLE POWDER  
WITH THE FINE AGGREGATE**

**A PROJECT REPORT**

*Submitted by*

<b>USMAN KANI M</b>	<b>(812416103053)</b>
<b>SAMEERUDEEN B</b>	<b>(812416103044)</b>
<b>SALEEM A</b>	<b>(812416103043)</b>
<b>ARAVIND S</b>	<b>(812416103302)</b>

*in partial fulfillment for the award of the degree  
of*


**BACHELOR OF ENGINEERING  
IN  
CIVIL ENGINEERING**

**MIET ENGINEERING COLLEGE, TIRUCHIRAPPALLI**

**ANNA UNIVERSITY : CHENNAI 600 025**

**SEPTEMBER 2020**

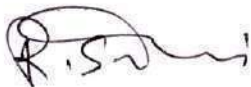
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**PRINCIPAL**  
**M.I.E.T. ENGINEERING COLLEGE**  
**GUNDUR, TIRUCHIRAPPALLI-620 007.**

**ANNA UNIVERSITY : CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report "**EXPERIMENTAL STUDIES ON STRENGTH OF CONCRETE BY PARTIAL REPLACEMENT OF MARBLE POWDER WITH FINE AGGREGATE**" is the bonafide work of **USMAN KANI M, SAMEERUDEEN B, SALEEM A** and **ARAVIND S** who carried out the project work under my supervision.



**SIGNATURE**

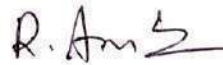
**Dr. R. Saravanan M.E.,Ph.D.,**

**PROFESSOR AND HEAD**

Department of Civil Engineering

MIET Engineering College

Tiruchirappalli 620007



**SIGNATURE**

**Mr. R. Arun Kumar M.E.,**

**SUPERVISOR**

Assistant Professor

Department of Civil Engineering

MIET Engineering College

Tiruchirappalli 620007

Submitted for viva-voce examination held on .....*22/09/2020*.....



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

## ABSTRACT

Marble has been commonly used as a building materials since the ancient times, consequently, marble waste as a by-produce is a very important materials which requires adequate environment disposal effort. In addition, recycling waste without proper management can result in environmental problem greater than the waste itself. Marble dust is a waste product formed during the producing of marble. A large quality of powder is generated during the cutting process. The result is that about 25% of the original marble mess is lost in the form of dust. Leaving these waste material to the environment directly can causes environmental problem such as increases the soil alkalinity, affect the plants, affect the human body etc. marble powder can be used as an admixture in concrete, so that strength of concrete can be increased. It is a solid waste material generated from the marble processing and can be used either as a filter material in fine aggregate while preparing concrete.

## CHAPTER – 7

### CONCLUSION

The following conclusions are derived based on the conducted experiments

1. Workability was increased by using small amount of marble powder ratio as a replacement of sand and leads to increase the compaction and the strength of concrete.
2. The increasing of marble powder ratio as a replacement of sand over the optimum dosage leads to the segregation of aggregate and bleeding of cement and aggregates lead to decrease the resistance of concrete.
3. Increasing the marble powder ratio replacement of sand led to the increasing as the compressive strength by about (11%) for the marble powder replacement ratios (10%) compared to the control mix.
4. Increasing the marble powder ratios higher than 15% decreased the compressive strength of concrete mixes.
5. Increasing split tensile strength of the concrete by using marble powder ratios (5%, 10% and 15%) compared to the control mix.
6. The addition of marble powder reduces workability. However, in some cases improved workability were also reported.
7. Marble powder inclusion increases compressive strength significantly (5% and 10% and 15%) and increase in compressive strength depends upon replacement level.
8. Addition of marble powder improves bond strength of concrete.



REQUISITION FOR THE APPROVAL OF INDUSTRIAL VISIT

M.I.E.T ENGINEERING COLLEGE, TRICHY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

III YEAR CSE

<u>INDUSTRIAL VISIT DATE</u>	<u>COMPANY NAME</u>	<u>YEAR</u>	<u>NO OF STUDENTS</u>	<u>NO OF FACULTY</u>
09.08.2019	Solution 360, Palakkad, Kerala	III CSE	Boys-39 Girls -11 Total=50	4

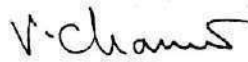
TOTAL NO.OF HOSTEL GIRLS =07


Faculties:

Male=2

Female=2


  
INDUSTRIAL VISIT COORDINATOR  
A. JOSHUA JOSAC ADICSE


  
HOD

  
HOD/TPO

  
PRINCIPAL



  
CHAIRMAN

  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPALI - 620 007.

01/08/2019

From

P.Dharshan.

Student coordinator,

MIET Engineering College,

Trichy-7.

To

The Principal,

MIET Engineering College,

Trichy-7.

Respected Madam,

**Sub: Requisition for Industrial Visit – Approval**

We the students of M.I.E.T Engineering College, III Year CSE are interested to visit Solution 360, Kerala(Palakkad) on 09/08/19 (Friday). We request you to kindly permit us to visit the same.


Thanking You

P.Dharshan  
Yours Sincerely,  
(Dharshan P)

Forwarded  
to  
HOD

2/8/19  
A. JOSHUA ISSAC AP/CS/E

Forwarded  
to  
Principal for approval.  
V. Chinnam  
2/8/19

  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPALI - 620 007



# M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai.)  
CSE, EEE & MECH Programs Accredited by NBA, New Delhi.  
TRICHY-PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI - 620 007.  
Email : principalengg@miet.edu, contact@miet.edu  
Website :- www.miet.edu

Ph : 0431 - 2660 303

Dr. X. SUSAN CHRISTINA, M.E., Ph.D.,  
Principal

Date: 06.08.19


To

The Project Head,  
Solution 360,  
Pallakad,  
Kerala

## TO WHOM SOEVER IT MAY CONCERN

This is to certify that the following lists of names are bonafide Students of this institution studying in III Year of Computer Science and Engineering. The total strength of 50 students along with 4 staff members are willing to undergo industrial visit in your organization on 9<sup>th</sup> August 2019. So I hereby request to approve our requisition and therefore enable our students to make this industrial visit as a pragmatic experience.

  
PRINCIPAL

  
PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.

MIET ENGINEERING COLLEGE  
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING  
THIRD YEAR CSE - MALE STUDENTS FACULTY INCHARGE

S.No.	RollNo	Name	Gender	Faculty Incharge & Signature
1	E1175001	Abdullah.A. AF	Male	A.JOSHUA ISSAC
2	E1175002	Anil Ruth.V. V	Male	
3	E1175007	Dharshan.P	Male	
4	E1175011	Faizur Rahman.A	Male	
5	E1175012	Gobinath.M	Male	
6	E1175021	Jisnu. S	Male	
7	E1175022	Kabilan.M. M	Male	
8	E1175023	Karthikeyan. M	Male	
9	E1175026	Krishnaraj. G	Male	
10	E1175027	Kumanan. A	Male	
11	E1175030	Mohammed Ajmal.S. S	Male	
12	E1175031	Mohamed Azman.R. R	Male	
13	E1175032	Mohamed Fazil.B. B	Male	
14	E1175033	Mohamedriyaskhan.S. S	Male	
15	E1175034	Mohamed Riyaz.A. A	Male	
16	E1175035	Mohamed Zifri. S	Male	
17	E1175036	Mohammad Bawaz. J	Male	
18	T18CS001	Ganesh. R	Male	
19	T18CS002	Parthiban. S	Male	
20	E1175042	Patricburuno. A	Male	
21	E1175043	Prasanaeswar. M	Male	
22	E1175044	Praveen. M	Male	P.Christoper
23	E1175046	Raashith Ahamed. S	Male	
24	E1175048	Ramkumar. C	Male	
25	E1175052	Ranjith. S	Male	
26	E1175053	Rathinavel. P	Male	
27	E1175054	Riyas Ahamed. A	Male	
28	E1175060	Sasidharan. S	Male	
29	E1175061	Selvakumar. S	Male	
30	E1175064	Sriramkumar. S	Male	
31	E1175066	Sundharesan. R	Male	
32	E1175067	Surya. M	Male	
33	E1175068	Surya. S	Male	
34	E1175071	Vasudevan. K	Male	
35	E1175072	Venkatesh. M	Male	
36	E1175073	Vignesh. G	Male	
37	E1175074	Vijaya Kumar. J	Male	
38	E1175077	Yogeshwar. S	Male	
39	T18CS006	Matthew. A	Male	

COORDINATOR

A. JOSHUA DASAC  
AD/CSE

V. Channu  
HOD/CSE

A. DasAC  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPALI - 620 007



MIET ENGINEERING COLLEGE  
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING  
THIRD YEAR CSE - FEMALE STUDENTS FACULTY INCHARGE

S.No.	RollNo	Name	Gender	Faculty Incharge & Signature
1	E1175014	Ilakiya.B	Female	G.NALINA KEERTHANA
2	E1175015	Jaithoon Isma.U	Female	
3	E1175016	Jefri Jerina.J	Female	
4	E1175028	Lakshmi Priya. A	Female	
5	E1175039	Nandhini. B	Female	
6	E1175041	Nasreen. R	Female	
7	E1175056	Samsath Begam. S	Female	R.DEEPA
8	E1175059	Sarthaj. S	Female	
9	E1175065	Steffi Monica. A	Female	
10	E1175070	Thoulathul Fahmeetha. F	Female	
11	T18CS007	Thatchayeni. P	Female	

CO-ORDINATOR

A. JOSHUA ASSAC APICSE

V. Chams  
HOD/CSE

*[Signature]*  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
SUNDUR, TIRUCHIRAPALI - 620 007

M.I.E.T ENGINEERING COLLEGE  
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING  
PROGRAMME SCHEDULE FOR INDUSTRIAL VISIT

09.08.19 (Friday)

TIME	ACTIVITIES
04.30 am(09.08.19)	Departure from M.I.E.T campus
8.00 am(on the way)	Breakfast
10.00am	Reaching the company
10.30am	Visiting the company
02.00pm	Return to bus
02.30pm	lunch
03.30pm	Leaving from Kerala
06.00pm	Stop for tea & snacks
9.30 pm	Return to M.I.E.T

  
COORDINATOR

  
HOD/CSE

  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPALI - 620 007

## REPORT ON ONE DAY INDUSTRIAL VISIT

Name of the Industry : Solution 360  
Place of Visit : Kerala, Pallakad  
Date of Visit : 09/08/2019  
Department : III YEAR CSE

  
**PRINCIPAL**  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.

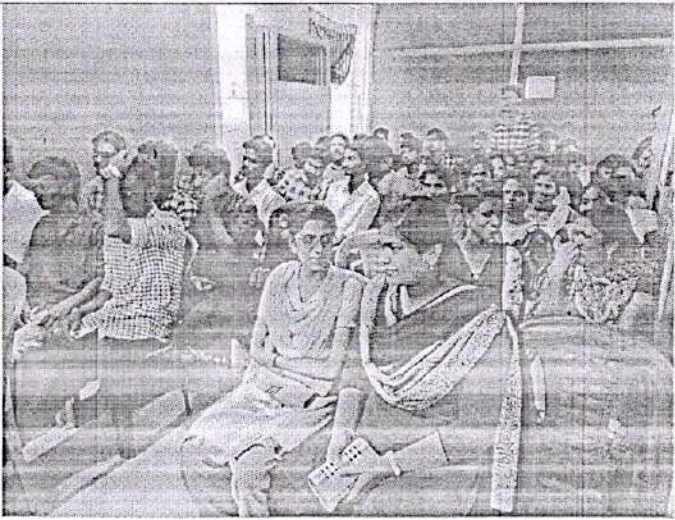
### Report on One Day Industrial Visit

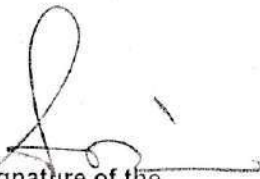
01	Company (s) Visited	Solution 360	
02	Number of Students	Boys	39
		Girls	11
03	Faculty Coordinators	Male	2
		Female	2
04	Date & Time of Industrial Visit	09/ 08/2019	Time:3.30am to 9.30p.m
05	Approval Date	07/08/19	
06	Objective of the Visit	To Develop the student's Technical in industrial perspective.	
07	Company Profile & Learning Experience	<p><b>Company Profile :</b></p> <p>Solution 360 a fast growing organization which offers a wide variety of services to match your business needs. The company is promoted by a team of young professionals having vast experience in different domains. Our Team members are well qualified and experienced, also having very good recognition in the industry. We are a sister concern of Sabari HealthCare Systems with 8 years of experience in Medical equipments providing</p> <p><b>Learning Experience:</b></p> <ul style="list-style-type: none"> <li>• Web hosting</li> <li>• Web development</li> <li>• Devising a plan or design for the software-based solution</li> <li>• Software Testing detector</li> </ul>	

  
**PRINCIPAL**  
**M.I.E.T. ENGINEERING COLLEGE**  
**GUNDUR, TIRUCHIRAPPALLI-620 007.**

08	Programme Schedule (As executed)	<p>05.30 AM (09.08.19) 5.00 AM (on the way)</p> <p>Departure from M.I.E.T campus Breakfast</p> <p>11.00 AM Reaching the company</p> <p>11.30 AM Visiting the company</p> <p>02.00 PM Return to bus</p> <p>02.30 PM Lunch</p> <p>03.30 PM Departure from Kerala</p> <p>05.00 PM Stop for tea &amp; snacks</p> <p>09.30 PM Arrival to M.I.E.T</p>
09	Brief about the Students Observation	<ul style="list-style-type: none"> <li>• It helped us to enhance the interpersonal skills and communication techniques.</li> <li>• Learn Developers and testing problem.</li> <li>• We gain hands-on experience of how industry operations were executed.</li> <li>• Helps them to see their future place in the working Environment.</li> <li>• Understood the do's and don'ts of the industrial practice.</li> <li>• The visit enables the students to apply their classroom learning to a real-life situation while being mentored by a variety of industry experts.</li> <li>• Its help to how the salary are fixed in companies</li> </ul>
10	Conclusion	<p>We are grateful to our Chairman and Principal for Providing us an opportunity to visit the industrial which is the part of our curriculum</p> <p>We are thankful to our faculty members for organizing the visit which helped to enrich our knowledge in the current scenario</p> <p>We extend our heartiest to solution 360 for making 09<sup>th</sup> August 2019 a day they given for an oppourinity to visit such an esteemed organization.</p>


  
**PRINCIPAL**  
**M.I.E.T. ENGINEERING COLLEGE**  
**GUNDUR, TIRUCHIRAPPALLI-620 007.**

11	Attachments (Scanned Photos of the Industrial Visit)	
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Signature of the  
Coordinator

  
HoD / Signature  


  
Principal

  
PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.



REQUISITION FOR THE APPROVAL OF INDUSTRIAL VISIT

M.I.E.T ENGINEERING COLLEGE, TRICHY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

II YEAR CSE

<u>INDUSTRIAL VISIT DATE</u>	<u>COMPANY NAME</u>	<u>YEAR</u>	<u>NO OF STUDENTS</u>	<u>NO OF FACULTY</u>
20.08.2019	Purple Pro IT Solutions India (P) Ltd, Coimbatore	II CSE	Boys-29 Girls -19 Total=48	4

TOTAL NO.OF HOSTEL GIRLS =07

Faculties:

Male=2

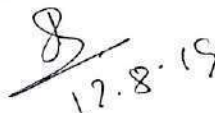
Female=2

  
INDUSTRIAL VISIT COORDINATOR  
A. JOSHUA JASACAPLSE

  
HOD

  
HOD/TPO

  
PRINCIPAL

  
12.8.19  
CHAIRMAN

  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
GUNDUR, TRUCHIRAPALI I - 620 007

16/08/2019

From  
K. Shrimathi.  
Student coordinator,  
MIET Engineering College,  
Trichy-7.

To  
The Principal,  
MIET Engineering College,  
Trichy-7.

Respected Madam,

**Sub: Requisition for Industrial Visit – Approval**

We the students of M.I.E.T Engineering College, II Year CSE are interested to visit Purple Pro IT Solutions India (P) Ltd, Coimbatore on 20/08/19 (Tuesday). We request you to kindly permit us to visit the same.

Thanking You

*K. Shrimathi*  
Yours Sincerely,

K. SHRIMATHI

*Forwarded  
to  
Principal  
V. Channur  
16/8/19*

*Forwarded  
to  
HOD  
A. JOSHUA ISSAC APICSE  
16/8/19*

*n. d. s.*  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPALI - 620 007





# M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai.)  
CSE, EEE & MECH Programs Accredited by NBA, New Delhi.  
TRICHY-PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI - 620 007.  
Email : principalengg@miet.edu, contact@miet.edu  
Website :- www.miet.edu

Ph : 0431 - 2660 303

Dr. X. SUSAN CHRISTINA, M.E., Ph.D.,  
Principal

Date :

Date: 16.08.2019


To

The Project Head,  
Purple pro IT Solution India Pvt.Ltd.  
Coimbatore

## TO WHOM SOEVER IT MAY CONCERN

This is to certify that the following lists of names are Bonafide Students of this institution studying in II Year of Computer Science and Engineering. The total strength of 48 students along with 4 staff members are willing to undergo industrial visit in your organization on 20<sup>th</sup> August 2019. So I hereby request to approve our requisition and therefore enable our students to make this industrial visit as a pragmatic experience.

  
PRINCIPAL


  
PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.

**MIET ENGINEERING COLLEGE**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**SECOND YEAR CSE - MALE STUDENTS FACULTY INCHARGE**

S.No.	RollNo	Name	Gender	Faculty Incharge & Signature
1	E1185001	Abdul Azees. R	Male	M.K Mohammed Faizal
2	E1185003	Ashok. A	Male	
3	E1185006	Bava Bakurudeen. S	Male	
4	E1185009	Dhanushkodi. M	Male	
5	E1185010	Dhatshanamoorthy. V	Male	
6	E1185011	Faisal Haq. S	Male	
7	E1185012	Haja Mohideen. M	Male	
8	E1185013	Hariharasudhan. N	Male	
9	E1185014	Haris. V	Male	
10	E1185016	Jaffar Sadhiq. K	Male	
11	E1185019	Karthickeyan. G	Male	
12	E1185020	Madeshwaran. C	Male	
13	E1185021	Manikandan. K	Male	
14	E1185023	Mohammed Ajiwath. N	Male	
15	E1185024	Mohamed Fazil. Z	Male	
16	E1185025	Mohamed Hanifa. K	Male	R.Venkatesan
17	E1185026	Mohamedmusthafa. M	Male	
18	E1185027	Mohamed Najumudeen. A	Male	
19	E1185029	Mohamed Yahya. M	Male	
20	E1185032	Prasanth. K	Male	
21	E1185043	Sheik Jabeer. S	Male	
22	E1185045	Siva. B	Male	
23	E1185049	Tharun Prakash. L	Male	
24	E1185050	Vaishnow. J	Male	
25	E1185052	Vignesh. V	Male	
26	T19CS07	Sibi. S	Male	
27	T19CS08	Sikkandar Thulkarnai. J	Male	
28	T19CS09	Syed Muhammed Abbas. I	Male	
29	T19CS10	Vishva. V	Male	

  
COORDINATOR

  
HOD/CSE

  
**PRINCIPAL**  
**M.I.E.T. ENGINEERING COLLEGE**  
**GUNDUR, TIRUCHIRAPPALLI-620 007.**

MIET ENGINEERING COLLEGE  
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING  
SECOND YEAR CSE - FEMALE STUDENTS FACULTY INCHARGE

S.No.	RollNo	Name	Gender	Faculty Incharge & Signature
1	E1185004	Atchaya. A	Female	G.NALINA KEERTHANA
2	E1185008	Devika. R	Female	
3	E1185015	Ishwarya. S	Female	
4	E1185017	Jenifer. T	Female	
5	E1185018	Kanimozhi. A	Female	
6	E1185031	Nivetha. R	Female	
7	E1185033	Preethi. D	Female	
8	E1185034	Prisila. J	Female	
9	E1185036	Pushparani. S	Female	
10	E1185037	Ramya. S	Female	
11	E1185038	Ramya. SS	Female	A.BARVEEN
12	E1185040	Sahana. T	Female	
13	E1185042	Selvaprabha. R	Female	
14	E1185044	Shrimathi. K	Female	
15	E1185046	Sudha. P	Female	
16	E1185048	Thamarai Selvi. B	Female	
17	E1185051	Vanmathi. K	Female	
18	E1185053	Vinitha. S	Female	
19	T19CS01	Aishwarya. S	Female	

  
COORDINATOR

  
HOD/CSE

  
PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.

M.I.E.T ENGINEERING COLLEGE  
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING  
PROGRAMME SCHEDULE FOR INDUSTRIAL VISIT  
20.08.19 (Friday)

TIME	ACTIVITIES
05.00 am(20.08.19)	Departure from M.I.E.T campus
8.00 am(on the way)	Breakfast
10.00am	Reaching the company
10.30am	Visiting the company
02.00pm	Return to bus
02.30pm	lunch
03.30pm	Leaving from Coimbatore
06.00pm	Stop for tea & snacks
9.30 pm	Return to M.I.E.T

  
COORDINATOR  
A. Joshua Doss AC AP/CS E

  
HOD/CSE

  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
UNDUR, TIRUCHIRAPALI - 620 007

## REPORT ON ONE DAY INDUSTRIAL VISIT

Name of the Industry : Purple Pro InfoTech IT Solution  
Place of Visit : COIMBATORE  
Date of Visit : 20/03/2018  
Department : II YEAR CSE


  
PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.

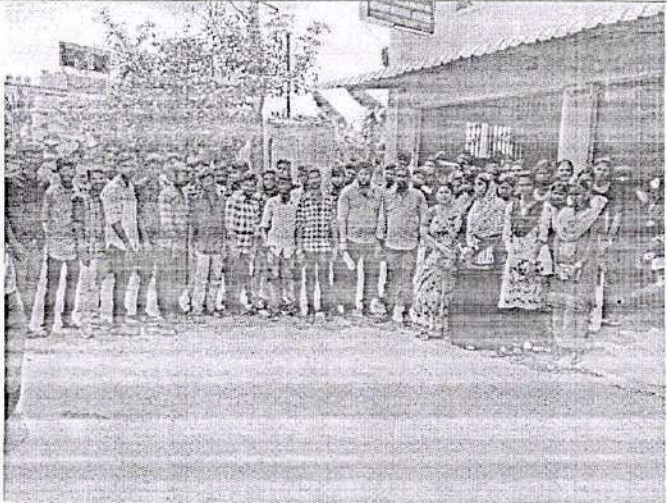
### Report on One Day Industrial Visit


01	Company (s) Visited	Purple Pro InfoTech IT Solution	
02	Number of Students	Boys	29
		Girls	19
03	Faculty Coordinators	Male	2
		Female	2
04	Date & Time of Industrial Visit	20/08/2019	Time:5.30am to 9.30p.m
05	Approval Date	18/08/19	
06	Objective of the Visit	To Develop the student's Technical in industrial perspective.	
07	Company Profile & Learning Experience	<p><b>Company Profile :</b></p> <p>Purple Pro InfoTech (PPIT) is a fast growing organization which offers a wide variety of services to match your business needs. The company is promoted by a team of young professionals having vast experience in different domains. Our Team members are well qualified and experienced, also having very good recognition in the industry. We are a sister concern of Sabari HealthCare Systems with 8 years of experience in Medical equipments providing</p> <p><b>Learning Experience:</b></p> <ul style="list-style-type: none"> <li>• Web hosting</li> <li>• Web development in Java</li> <li>• Devising a plan or design for the software-based solution</li> <li>• Implementing OOPS programming in industry level.</li> <li>• Mobile Application development</li> <li>• CCNA</li> </ul>	

  
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**M.I.E.T. ENGINEERING COLLEGE**  
**GUNDUR, TIRUCHIRAPPALLI-620 007.**


08	Programme Schedule (As executed)	<p>05.30 AM Departure (20.08.19) from M.I.E.T campus</p> <p>8.00 AM Breakfast (on the way)</p> <p>11.00 AM Reaching the company</p> <p>11.30 AM Visiting the company</p> <p>02.00 PM Return to bus</p> <p>02.30 PM Lunch</p> <p>03.30 PM Departure from Coimbatore</p> <p>05.00 PM Stop for tea &amp; snacks</p> <p>09.30 PM Arrival to M.I.E.T</p>
09	Brief about the Students Observation	<ul style="list-style-type: none"> <li>• It helped us to enhance the interpersonal skills and communication techniques.</li> <li>• Learn Developers and testing problem.</li> <li>• We gain hands-on experience of how industry operations were executed.</li> <li>• Helps them to see their future place in the working Environment.</li> <li>• Understood the do's and don'ts of the industrial practice.</li> <li>• The visit enables the students to apply their classroom learning to a real-life situation while being mentored by a variety of industry experts.</li> <li>• Its help to how the salary are fixed in companies</li> </ul>
10	Conclusion	<p>We are grateful to our Chairman and Principal for Providing us an opportunity to visit the industrial which is the part of our curriculum</p> <p>We are thankful to our faculty members for organizing the visit which helped to enrich our knowledge in the current scenario</p> <p>We extend our heartiest to Purple pro InfoTech IT solution for making 20<sup>th</sup> August 2019 a day they given for an oppourinty to visit such an esteemed organization.</p>


  
**PRINCIPAL**  
**M.I.E.T. ENGINEERING COLLEGE**  
**GUNDUR, TIRUCHIRAPPALLI-620 007.**

11	<p>Attachments (Scanned Photos of the Industrial Visit)</p>	
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Signature of the  
Coordinator

  
HoD/ Signature

  
Principal

  
**PRINCIPAL**  
**M.I.E.T. ENGINEERING COLLEGE**  
**GUNDUR, TIRUCHIRAPPALLI-620 007.**



MIET ENGINEERING COLLEGE  
TRICHY

05.08.2019

From

T.Thajudeen  
Third year IV Representative,  
M.I.E.T Engineering College,  
Trichy.

To

The Principal,  
M.I.E.T Engineering College,  
Trichy.

Through the HOD,

Respected sir,

Sub: Requisition for bonafide certificate for industrial visit –Reg.

We are around 57 students and with 4 Faculty Members have planned to go for an industrial visit to INDIAN TELEPHONE INDUSTRIES - Palakad on 31/08/2019. So we request you to give us a bonafide certificate.

Thanking you

Yours faithfully,

*T. Thajudeen*  
[Third year Students' Representative]

*[Signature]*  
HOD/ECE

*[Signature]*  
PRINCIPAL

*[Signature]*  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
MUNDUR, TIRUCHIRAPALI - 620 006

05.08.2019

From:

T.Thajudeen,  
Class representative/Third year ECE,  
M.I.E.T Engineering College,  
Trichy-07.

To:

The Chairman,  
M.I.E.T Engineering college  
Trichy-07.

Through Principal

Respected Sir,

Sub: Seeking Permission for industrial visit –Reg.


We are around 57 students and with 4 Faculty Members have planned to go for an industrial visit to INDIAN TELEPHONE INDUSTRIES - Palakad on 31/08/2019. Kindly grant us permission to go for industrial visit.

Thankingyou

T.Thajudeen  
Yours faithfully,


  
Industrial Visit  
Co-Ordinator

  
HOD/ECE

  
HOD/T&P

  
PRINCIPAL

  
CHAIRMAN

  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
BUNDUR, TIRUCHIRAPALI - 620 007

**MIET ENGINEERING COLLEGE, TRICHY**  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION**  
**THIRD YEAR STUDENTS STRENGTH**

S.NO	ERP.NO	STUDENT NAME	WILLING
1	E1174001	Aabitha Begam. S	Not Willing
2	E1174003	Abarna. K	Willing
3	E1174004	Abdul Ajeez. A	Willing
4	E1174005	Abdul Rahman. M	Willing
5	E1174007	Afsana. A	Not Willing
6	E1174008	Ahamed Aakif. Z	Not Willing
7	E1174009	Akash. S	Willing
8	E1174010	Akshaya. M	Willing
9	E1174011	Ammu. P	Willing
10	E1174012	Ammu. S	Willing
11	E1174013	Annal Jebaseeli. D	Not Willing
12	E1174014	Antony Jero. J	Willing
13	E1174015	Arthi. J	Willing
14	E1174016	Asrath Nisha. S	Not Willing
15	E1174017	Bakrudeen. S	Long Absent
16	E1174018	Boomika. P	Willing
17	E1174019	Chaandhini. C	Willing
18	E1174020	Daniel Vinith. G	Willing
19	E1174021	Defi Christina. C	Willing
20	E1174022	Deiva Rani. M	Willing
21	E1174023	Fazil Mohammed. B	Willing
22	E1174024	Gayathri. K	Willing
23	E1174025	Harini. P	Willing
24	E1174026	Hasiba Banu. H	Willing
25	E1174027	Hina. M	Not Willing
26	E1174028	Janani. M	Willing
27	E1174029	Jansirani. K	Willing
28	E1174030	Jasmine. E	Willing
29	E1174031	Kalidass. K	Not Willing
30	E1174032	Karan. M	Willing
31	E1174033	Kavitha. M	Willing
32	E1174034	Kowsalya. K	Willing
33	E1174035	Krishnapriya. K	Willing
34	E1174037	Manikandan. T	Willing
35	E1174038	Mathina Beevi. S	Not Willing
36	E1174039	Mohamed Rizvanudeen. M	Willing
37	E1174040	Mohamed Suwaidee. M	Willing
38	E1174041	Mohamed Ibrahim. M	Willing
39	E1174042	Narmatha. A	Willing
40	E1174043	Niranjani. B	Willing
41	E1174044	Nithiksha. N	Willing
42	E1174045	Nithish Kumar. S	Willing

*(Signature)*  
**PRINCIPAL**  
**MIET ENGINEERING COLLEGE**  
**SUNDUR, TIRUCHIRAPALI - 620 007**


43	E1174046	Pavithra. C	Willing
44	E1174047	Puvanithy. M	Willing
45	E1174049	Rizvana Begam. T	Willing
46	E1174050	Sabarinath. C	Willing
47	E1174051	Sabitha. S	Willing
48	E1174052	Safa Almaz. MS	Not Willing
49	E1174053	Sathiyaseela. S	Willing
50	E1174054	Selciya. M	Willing
51	E1174055	Shakthivel. A	Willing
52	E1174056	Shalini. B	Willing
53	E1174057	Suruthi. M	Willing
54	E1174059	Tamil Mani. B	Willing
55	E1174060	Thajudeen. T	Willing
56	E1174061	Thilsara. S	Willing
57	E1174062	Vengatesh Kumar. M	Willing
58	E1174063	Vigneshwaran. M	Willing
59	E1174064	Vimal Athithan. M	Willing
60	E1174066	Yogapriya. S	Willing
61	E1174067	Zam Zam Haliya. A	Not Willing
62	E2184068	Deepa. A	Willing
63	E2184070	Kiruthigha. K	Willing
64	E2184071	Mohamed Thazeem. M	Long Absent
65	E2184072	Monica. J	Willing
66	E2184073	Nandhini. S	Willing
67	E3174075	Nisha Shalini. K	Willing
68	E2184074	Vetriselvi. A	Willing
69	E2184069	Hari vijay	Willing

Total Strength:69

Total number of students Willing:57

Total number of students not Willing:12

  
HOD/ECE

  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPALI - 620 007

**MIET ENGINEERING COLLEGE, TRICHY**  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION**  
**FACULTY STUDENTS GENDER LIST**


S.NO	ERP.NO	STUDENT NAME	GENDER LIST
1	E1174004	Abdul Ajeez. A	MALE
2	E1174005	Abdul Rahman. M	
3	E1174009	Akash. S	
4	E1174014	Antony Jero. J	
5	E1174020	Daniel Vinith. G	
6	E1174023	Fazil Mohammed. B	
7	E1174032	Karan. M	
8	E1174037	Manikandan. T	
9	E1174039	Mohamed Rizvanudeen. M	
10	E1174040	Mohamed Suwaidee. M	
11	E1174041	Mohamed Ibrahim. M	
12	E1174045	Nithish Kumar. S	
13	E1174050	Sabarinath. C	
14	E1174055	Shakthivel. A	
15	E1174059	Tamil Mani. B	
16	E1174060	Thajudeen. T	
17	E1174062	Vengatesh Kumar. M	
18	E1174063	Vigneshwaran. M	
19	E1174064	Vimal Athithan. M	
20	E2184069	Hari vijay	
21	E1174003	Abarna. K	
22	E1174010	Akshaya. M	
23	E1174011	Ammu. P	
24	E1174012	Ammu. S	
25	E1174015	Arthi. J	
26	E1174018	Boomika. P	
27	E1174019	Chaandhini. C	
28	E1174021	Defi Christina. C	
29	E1174022	Deiva Rani. M	
30	E1174024	Gayathri. K	
31	E1174025	Harini. P	
32	E1174026	Hasiba Banu. H	
33	E1174028	Janani. M	
34	E1174029	Jansirani. K	
35	E1174030	Jasmine. E	
36	E1174033	Kavitha. M	
37	E1174034	Kowsalya. K	
38	E1174035	Krishnapriya. K	
39	E1174042	Narmatha. A	
40	E1174043	Niranjani. B	
41	E1174044	Nithiksha. N	

*(Signature)*  
**PRINCIPAL**  
**MIET ENGINEERING COLLEGE**  
**SUNDUR, TIRUCHIRAPALLI - 620 007**

42	E1174045	Nithish Kumar. S
43	E1174046	Pavithra. C
44	E1174047	Puvanithy. M
45	E1174049	Rizvana Begam. T
46	E1174051	Sabitha. S
47	E1174053	Sathiyaseela. S
48	E1174054	Selciya. M
49	E1174056	Shalini. B
50	E1174057	Suruthi. M
51	E1174061	Thilsara. S
52	E1174066	Yogapriya. S
53	E2184068	Deepa. A
54	E2184070	Kiruthigha. K
55	E2184072	Monica. J
56	E3174075	Nisha Shalini. K
57	E2184074	Vetriselvi. A

S.NO	ERPNO	FACULTY NAME	GENDER
1	E4122	R.VIJAYALAKSHMI	FEMALE
2	E4169	CHANDNI	FEMALE
3	E4170	P.DELPHINE MARY	FEMALE
4	E4174	DR.A.SURESH KUMAR	MALE

  
HOD/ECE

  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
SUNDUR, TIRUCHIRAPALI - 620 007


**MIET ENGINEERING COLLEGE, TRICHY**  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION**  
**THIRD YEAR GIRLS STUDENTS WITH FACULTY**

S.NO	ERP.NO	STUDENT NAME	FACULTY NAME
1	E1174003	Abarna. K	R.VIJAYALAKSHMIAP/ECE CHANDNI AP/ECE P.DELPHINE MARY AP/ECE
2	E1174010	Akshaya. M	
3	E1174011	Ammu. P	
4	E1174012	Ammu. S	
5	E1174015	Arthi. J	
6	E1174018	Boomika. P	
7	E1174019	Chaandhini. C	
8	E1174021	Defi Christina. C	
9	E1174022	Deiva Rani. M	
10	E1174024	Gayathri. K	
11	E1174025	Harini. P	
12	E1174026	Hasiba Banu. H	
13	E1174028	Janani. M	
14	E1174029	Jansirani. K	
15	E1174030	Jasmine. E	
16	E1174033	Kavitha. M	
17	E1174034	Kowsalya. K	
18	E1174035	Krishnapriya. K	
19	E1174042	Narmatha. A	
20	E1174043	Niranjani. B	
21	E1174044	Nithiksha. N	
22	E1174045	Nithish Kumar. S	
23	E1174046	Pavithra. C	
24	E1174047	Puvanithy. M	
25	E1174049	Rizvana Begam. T	
26	E1174051	Sabitha. S	
27	E1174053	Sathiyaseela. S	
28	E1174054	Selciya. M	
29	E1174056	Shalini. B	
30	E1174057	Suruthi. M	
31	E1174061	Thilsara. S	
32	E1174066	Yogapriya. S	
33	E2184068	Deepa. A	
34	E2184070	Kiruthigha. K	
35	E2184072	Monica. J	
36	E3174075	Nisha Shalini. K	
37	E2184074	Vetriselvi. A	

Total number of Girls: 37



HOD/ECE


  
**PRINCIPAL**  
**MIET ENGINEERING COLLEGE**  
**SUNDUR, TIRUCHIRAPALI - 620 007**

**MIET ENGINEERING COLLEGE, TRICHY**  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION**  
**THIRD YEAR BOYS STUDENTS WITH FACULTY**

S.NO	ERP.NO	STUDENT NAME	FACULTY NAME
1	E1174004	Abdul Ajeez. A	Dr.A.SURESH KUMAR Proff/ECE
2	E1174005	Abdul Rahman. M	
3	E1174009	Akash. S	
4	E1174014	Antony Jero. J	
5	E1174020	Daniel Vinith. G	
6	E1174023	Fazil Mohammed. B	
7	E1174032	Karan. M	
8	E1174037	Manikandan. T	
9	E1174039	Mohamed Rizvanudeen. M	
10	E1174040	Mohamed Suwaidee. M	
11	E1174041	Mohamed Ibrahim. M	
12	E1174045	Nithish Kumar. S	
13	E1174050	Sabarinath. C	
14	E1174055	Shakthivel. A	
15	E1174059	Tamil Mani. B	
16	E1174060	Thajudeen. T	
17	E1174062	Vengatesh Kumar. M	
18	E1174063	Vigneshwaran. M	
19	E1174064	Vimal Athithan. M	
20	E2184069	Hari vijay	

Total Number of Boys Strength:20

  
HOD/ECE

  
**PRINCIPAL**  
 MIET ENGINEERING COLLEGE  
 BUNDUR, TIRUCHIRAPALI - 620 007





R.Vijayalakshmi ECE <vijayalakshmi.r@miet.edu>

**Seeking permission for an INDUSTRIAL VISIT TO ITI -PALAKAD -  
31.08.2019 & 14.09.2019.**

1 message

hrpr\_pkd@itilttd.co.in <hrpr\_pkd@itilttd.co.in>  
Reply-To: hrpr\_pkd@itilttd.co.in  
To: "R.Vijayalakshmi ECE" <vijayalakshmi.r@miet.edu>  
Cc: Jimmy J Nalappat <jimmyj\_pkd@itilttd.co.in>

Fri, Aug 2, 2019 at 1:47 PM

Madam,

Please refer the trailing email on the subject. The subject visit can be permitted if it is on 31.8.2019 & 14.09.2019 respectively since the permissible limit for students for the visit limited to 60 and all other slots are already filled. If agree the proposal, please inform at the earliest.

With regards,

K.M. Ramesanunny  
Officer – HR (Public Relations)  
HR Department – Public Relations  
ITI Limited,  
Kanjikode (W)  
PALAKKAD  
Phone : 0491 – 2564211  
Mob : 9446046134

**From:** R.Vijayalakshmi ECE  
**Sent:** Saturday, August 03, 2019 2:39 AM  
**To:** hrpr\_pkd@itilttd.co.in  
**Subject:** Re: Seeking permission for an INDUSTRIAL VISIT TO ITI -PALAKAD

Hai Sir/Madam

Here with i have attached the the Bonafide From Our Institution. Our Third Year Students are also Willing to come to Visit ITI- Palakad . So I have enclosed two Bonafide for Third Year and For Final Year also. I have mentioned the date on 17.08.2019.

**Third Year Strength :55 with 4 Faculties**

**Final Year Strength: 40 with 3 Faculties**

We are ready to visit the Company at different Timing Sir .Kindly Made a Approval for our Kind Requisition. Kindly ensure the date of Visit and Strength of the Students .

Kindly Send me the Other Formalities Sir.

Thank You.

On Fri, Aug 2, 2019 at 6:57 AM R.Vijayalakshmi ECE <vijayalakshmi.r@miet.edu> wrote:

Sure Sir i will send you the letter  
Thank You

On Thu, Aug 1, 2019 at 12:01 PM <hrpr\_pkd@itilttd.co.in> wrote:

Madam,

Please refer the trailing email on the subject. Please forward a formal letter

  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
SUNDUR, TIRUCHIRAPALLI - 620 007

seeking permission for the students (letter head) from your HOD of your college addressing to the Dy. General Manager – HR, ITI Limited, Palakkad. The visits are scheduled on Saturday's and it is after 1.30PM only. Other formalities will be forwarded after the receipt of the formal letter from your side.

Regards,

K.M. Ramesanunny  
Officer – HR (Public Relations)  
HR Department – Public Relations  
ITI Limited,  
Kanjikode (W)  
PALAKKAD  
Phone : 0491 – 2564211  
Mob : 9446046134

From: R.Vijayalakshmi ECE  
Sent: Tuesday, July 30, 2019 6:12 AM  
To: iti\_pkd@itilttd.co.in ; gm\_pkd@itilttd.co.in  
Subject: Seeking permission for an INDUSTRIAL VISIT TO ITI -PALAKAD

My Self R.VIJAYALAKSHMI Assistant Professor of ECE department and incharge for INDUSTRIAL VISIT Our Final Year Students are willing to come for an Industrial visit to ITI -PALAKAD. Kindly do the need full

Total number of Strength :42  
with 4 faculty Member  
Thank You

---

Use TAG-ITI mobile wallet for going cashless-Secured by ITI Limited, A Government Of India Enterprise

Regards,

image001  
PS to UNIT HEAD  
ITI Limited, Palakkad.

---

Use TAG-ITI mobile wallet for going cashless-Secured by ITI Limited, A Government Of India Enterprise

---

Use TAG-ITI mobile wallet for going cashless-Secured by ITI Limited, A Government Of India Enterprise

  
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SUNDUR, TIRUCHIRAPALI - 620 007

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Gmail

Search mail



+ Compose

- Inbox 2,083
- ★ Starred
- ⌚ Snoozed
- ✓ Sent
- Drafts 50
- R.Vijayalakshmi +

7 of 3,943

hrpr\_pkd@itilttd.co.in  
to Jimmy, me ▾

Aug 3, 2019, 9:31 AM (3 days ago)

Madam,

Please refer the trailing email on the subject. Permission is accorded for 57 students and 4 staff members to visit ITI Limited, Palakkad on 31.08.2019 at 1.30 PM.

Nominal fees per student would be Rs.118/- (including service tax). For Staff Rs.236/- (including service tax). A format is attached and students are requested to fill the form.

The format mentioned above and DD (ITI Limited) may be submitted at the time of the visit.

Soft copy of the filled format to be emailed before the visit.

You may confirm the visit by return email.

\*\*\*

No recent chats  
Start a new one

3

*R. Sub.*  
 PRINCIPAL  
 MIET ENGINEERING COLLEGE  
 GUNDUR, TIRUCHIRAPALI - 620 007



## REPORT ON ONE DAY INDUSTRIAL VISIT

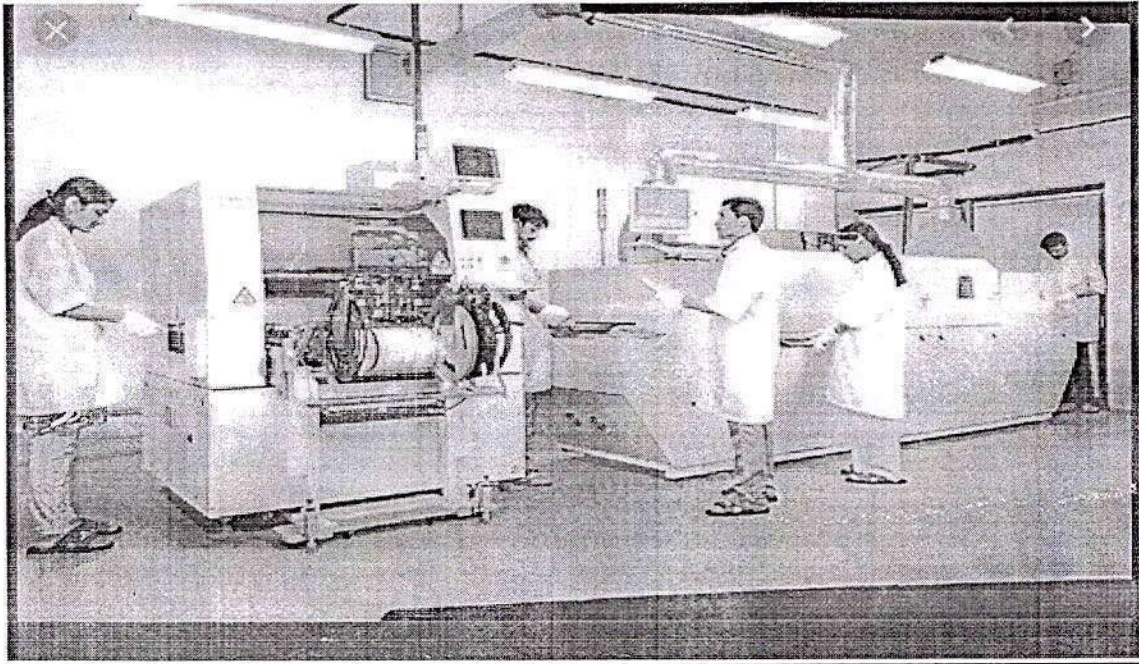
Department : Electronics and Communication Engineering  
Year/sem : III/V  
Name of the Industry : Indian Telephone Industries , Kanjikode  
Place of Visit : Palakad  
Date of Visit : 31.08.2019

  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
SHINDUR, TIRUCHIRAPALLI - 620 007

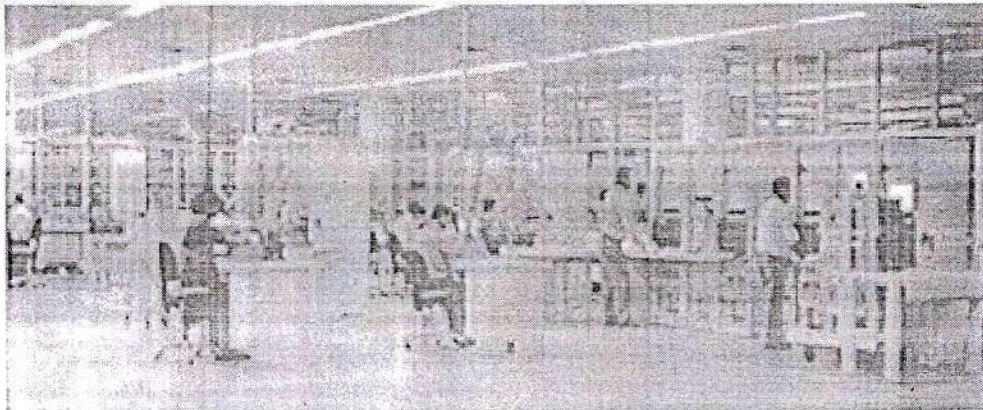
### Report on One Day Industrial Visit

01	Place of Visit	<b>Indian Telephone Industries-(ITI) Palakkad.</b>  ITI Limited Kanjikode(West) Palakkad-678623 Kerala, India  Phone : 0491-2566004, 0491-2566957 Fax: 0491-2566009 Email : iti_pkd@itilttd.co.in gm_pkd@itilttd.co.in	
02	Number of Students	Boys	20(Willing) 17(Attended)
		Girls	37(Willing) 23(Attended)
03	Faculty Coordinators	Male	Dr.A.SureshkumarAP/ECE
		Female	R.VijayalakshmiAP/ECE
04	Date & Time of Industrial Visit	22 /08 /2019	Time:1.30am Onwards
05	Approval Date	17 / 08 /2019	
06	Objective of the Visit	Students can gain Knowledge of assembling the components in PC cards and its manufacturing process. The can also learn about Multilayer PCB manufacturing plant (up to 10 layers)	
07	Company Profile & Learning Experience	<b>COMPANY PROFILE:</b>  <b>INDIAN TELEPHONE INDUSTRIES Ltd Palakkad</b> is one among the five manufacturing Plants of ITI Ltd., established in 1976, primarily for catering to the manufacture of Electronic Switching Products and Services. It has an Electronic Switching System Manufacturing Unit, for large digital switches and trunk exchanges.  The Palakkad Plant located in Kerala. The Unit is accredited with ISO 9001 and 14001 certification. Engaged in the manufacture of Electronic equipments & Smart Cards .  The unit has executed the National Population Register (NPR -for Home Ministry, Govt. of India), and Socio Economic & Caste Census (SECC -for Ministry of Rural Development, Govt. of India) projects.	

		<p>Besides conventional manufacturing of electronic exchanges, the unit is executing turn key projects like Managed Leased Line Network (MLLN), Stand-alone Signal Transfer Point (SSTP). A Smart Card manufacturing centre has been setup for manufacturing smart cards including banking cards.</p> <p>The Plant has a Multi-layer PCB manufacturing plant (up-to 10 layers) as a separate business centre that caters to the captive as well as external market requirements.</p> <p>The products manufactured and deployed are provided with technical support and repair services by the Customer Support Centre. The in-house developed CRM, a WEB based application package, is used for rendering and monitoring the above services.</p> <p style="text-align: center;"><b>LEARNING EXPERIENCE</b></p> <ul style="list-style-type: none"> <li>➤ Printed Card Assembly lines</li> <li>➤ Switching equipment assembly &amp; testing</li> <li>➤ Printed Circuit Board (PCB) Plant</li> <li>➤ Smart Card Manufacturing Line</li> </ul>	
08	Programme Schedule (As executed)	<b>TIME</b>	<b>ACTIVITIES</b>
		3.10 am	Departure from M.I.E.T campus
		7.30 to 8.30am	Break fast at pollachi
		12.30 am	Reaching ITI -Palakad
		1.30-3.40pm	Leaving from ITI Limited Company
		3.45 to 4.45 pm	Lunch at Palakad
		5.00pm	Leaving from Palakad
		8.30 to 9.30 pm	Dinner at Coimbatore
		12.30 pm	Reached MIET Engineering college.
09	Brief about the Students Observation	<p>1. Thajudeen. T Acquired knowledge in Manufacturing the PCB Board</p> <p>2. Chaandhini. C How they Dust Practical are placed in CNC Machine</p> <p>3. Puvanithy. M We knew about two types of Technology to fit the component in PCB 1.Through Hole Technology for a Single side PCB. 2.Surface mount Technology in a two sided PCB</p>	
10	Conclusion	Students get exposure to Manufacturing of PCB Board and How to check the components are placed in PCB board.	



CNC (Computerized Numerical Control Application)(Dust type Component and IC are placed Using CNC)



Misplacement of Component is rearranged by manually.

*R. V. V. V.*

IV Coordinator

*[Handwritten Signature]*

HOD / Signature

*[Handwritten Signature]*

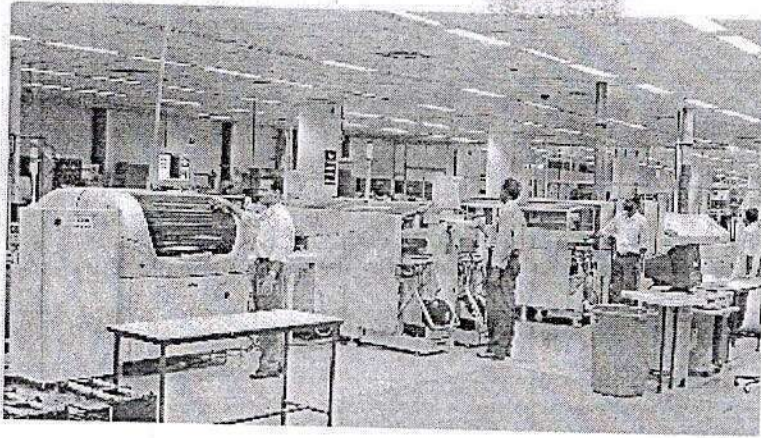
HOD / T&P

*[Handwritten Signature]*

PRINCIPAL

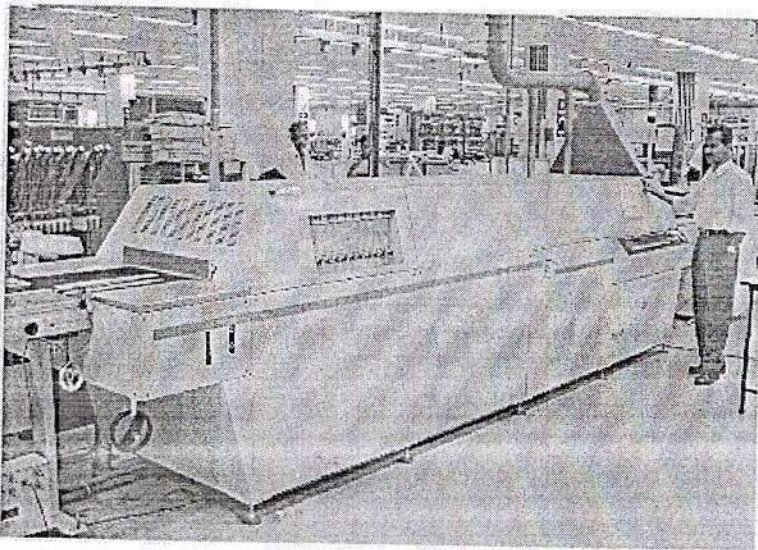
*R. vyayakarshi / Apiece*

*[Handwritten Signature]*  
 PRINCIPAL  
 MIET ENGINEERING COLLEGE  
 SUNDUR, TIRUCHIRAPALI - 620 007



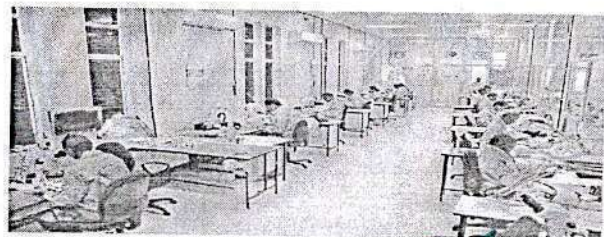
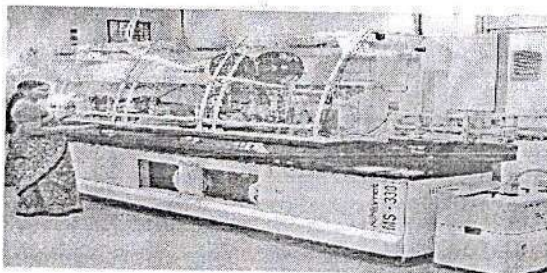
### SWITCHING EQUIPMENT ASSEMBLY AND TESTING

Most modern facility for Electronic manufacturing with a carpet area 12500 Sq Mtrs. The area is fully equipped with total Air Conditioning , Compressed Air and round the clock Electrical power with uninterrupted Power supply. All the electronic and electrical assembly activities are carried out in this area.



### SMART CARD MANUFACTURING LINE

### VSSC FLIGHT PACKAGE ASSEMBLY



*M. S. S.*  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPALI - 620 007





# आईटीआई लिमिटेड

(भारत सरकार का उपक्रम)

पालक्काड प्लांट

कंजिकोड वेस्ट, पालक्काड-६७८ ६२३, भारत

फोन : (०४९९) २५६६०९० (४ लईन)

फेक्स : (०४९९) २५६६००९

ई - मेल : iti\_pkd@itilttd.co.in

वेब साईट : www.itilttd-india.com



## ITI LIMITED

(A Govt. of India Undertaking)

Palakkad Plant

Kanjikode West, PALAKKAD - 678 623 INDIA

Phone : (0491) 2566010 (4 Lines)

FAX : (0491) 2566009

E-Mail : iti\_pkd@itilttd.co.in

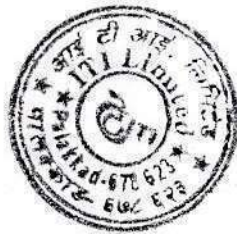
Web Site : www.itilttd-india.com

Ref : HR/PR/4-17

Date : 31.08.2019

### CERTIFICATE

This is to certify that, 40 students of III Year B.E. (Electronics and Communication Engineering) and 2 faculty members from M.I.E.T Engineering College, Tiruchirappalli; visited our Plant on 31.08.2019 as part of their curriculum.



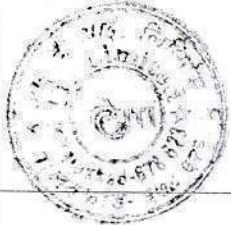
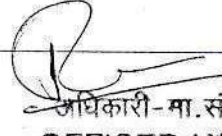
(RAMESANUNNY K.M.)

अधिकारी-मा.सं  
OFFICER-HR

आईटीआई लि., कंजिकोड वेस्ट  
ITI Ltd., Kanjikode West  
पालक्काड / Palakkad-678 623

PRINCIPAL  
MIET ENGINEERING COLLEGE  
BUNDUR, TIRUCHIRAPALLI - 620 007

**Industrial Visit Feedback form from Industry**

Course & Department	B.E - ECE
Sem / Year	V / III
Date(s) of Visit and Time	31/8/19 , 1:30 - 3:30 PM
No. of Students visited	40
Accompanying Staff Members	2
Name & Address of the Company	Palakkad Plant, Kanjikode West, Palakkad - 678 623 INDIA
Feedback about the students	Good Response from the Students -
Technical details about the Company	Manufacturing double layer PCB.
Authorized Signatory with Name / Designation and Seal	  अधिकारी-मा.सं 31/8/2019. OFFICER-HR-PR. आईटीआई लि., कंजिकोड वेस्ट ITI Ltd., Kanjikode West Palakkad / Palakkad-678 623
Any other comments	

MIET ENGINEERING COLLEGE, TRICHY  
 DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
 INDUSTRIAL VISIT FOR SECOND YEAR ON 22.08.2019  
 REQUISITION APPROVAL FOR INDUSTRIAL VISIT

Industrial visit date	Company name /place	Number of Students going for industrial visit		Number of Faculty accompany the Students	
		30		03 Faculty	
22.08.2019	Sunshiv Electronic Solutions 245, Chinnasamy Naidu Road, Opp to Ayyappan Temple, New Siddhapudur, COIMBATORE-641044.	Girls:12	Boys:18	Ladies:2	Gents:1

  
 IV coordinator

  
 HOD/T&P

  
 HOD/ECE

  
 PRINCIPAL

  
 CHAIRMAN

  
 PRINCIPAL  
 MIET ENGINEERING COLLEGE  
 GUNDUR, TIRUCHIRAPALLI - 620 007

MIET ENGINEERING COLLEGE

TRICHY

05.08.2019

From:

A.H.Abdul Hameed,  
Class representative/Second year ECE,  
M.I.E.T Engineering College,  
Trichy-07.

To:

The Chairman,  
M.I.E.T Engineering college  
Trichy-07.

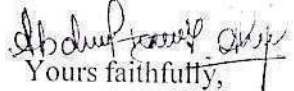
Through Principal

Respected Sir,

Sub: Seeking Permission for industrial visit -Reg.

We are around 30 students and with 3 Faculty Members have planned to go for an industrial visit to Sunshiv Electronic Solutions-Coimbatore on 22.8.19. Kindly grant us permission to go industrial visit.


Thankingyou

  
Yours faithfully,



Industrial Visit  
Co-Ordinator

  
HOD/ECE

  
HOD/T & P

  
PRINCIPAL

  
CHAIRMAN

2  
  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPALI - 620 007.



R.Vijayalakshmi ECE &lt;vijayalakshmi.r@miet.edu&gt;

**REG-CONFIRMATION MAIL FOR THE INDUSTRIAL VISIT**

2 messages

sunshiv electronics <sunshivpcb1@gmail.com>  
To: "R.Vijayalakshmi ECE" <vijayalakshmi.r@miet.edu>

Mon, Aug 5, 2019 at 1:17 PM

Greetings From Sunshiv..!

This is Chithradevi from Sunshiv Electronic Solutions. As per our telephonic conversation.., We are glad to welcome all of our second year ECE students in our Industry. Hereby i mention the further details. Kindly go through it and let me know the updates.

Details:-

Date -22-08-2019(Thursday)

Duration- 2 to 3 hours

No of students -31

Requirement - Individual note and pen.

Amount -100/student

We are ready to provide Certificates.

**Thanks & Regards,**

Sunshiv Electronic Solutions,

245, Chinnasamy Naidu Road,

Opp to Ayyappan Temple,

New Siddhapudur, Gandhipuram,

Coimbatore - 641 044.

Cell - 97509 14445, 0422 - 4980499.

For Production - 98428 02351.

R.Vijayalakshmi ECE <vijayalakshmi.r@miet.edu>  
To: sunshiv electronics <sunshivpcb1@gmail.com>

Tue, Aug 6, 2019 at 5:36 AM

Thank You mam We can conform the date on 22.08.2019  
[Quoted text hidden]

  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPALI - 620 007.

## COMPANY PROFILE

**SUNSHIV ELECTRONIC SOLUTIONS** is an ISO 9001:2008 Certified company established in the year of 1994, to cater industrial needs in Electronics automation and PCB Designing and Manufacturing.

We are having our own integrated setup for :

- Computer aided PCB (Printed Circuit Board) Designing
- Manufacturing of single and Double sided PCBs
- Assembling of PCBs
- Trouble shooting of electronic pcb kits
- Industrial customization Electronic Projects

## LEARNING EXPERIENCE


### PCB Designing

Electronics - Fundamentals

- Circuit Analysis
- Dimension of PCB
- Playing with Layers
- Placement of Components
- Routing by Standards
- Verification of Connections

### Practical Training on Electronic Instruments

### Simulation of Electronic Circuits

  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPALI - 620 007

MIET ENGINEERING COLLEGE

TRICHY

05.08.2019

From

A.H.Abdul Hameed,  
Class representative/Second year ECE,  
M.I.E.T Engineering College,  
Trichy-07.

To

The Principal,  
M.I.E.T Engineering College,  
Trichy.

Through the HOD,

Respected sir,

Sub: Requisition for BONAFIDE Certificate for industrial visit –Reg.

We are around 30 students and with 3 Faculty Members have planned to go for an industrial visit to Sunshiv Electronic Solutions-Coimbatore on 22.8.19. So we request you to give us a Bonafide Certificate.

Thanking you.

  
Yours faithfully,

[Second year Students' Representative]

  
HOD/ECE

  
PRINCIPAL

  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPALI - 620 007.

**MIET ENGINEERING COLLEGE, TRICHY**  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION**  
**SECOND YEAR STUDENTS STRENGTH**

S.NO	ERP.NO	STUDENT NAME	WILLING
1	E1184001	Abdul Hameed.A.H	Willing
2	E1184002	Amirtha Varshini. M	Willing
3	E1184003	Bharathi. M	Willing
4	E1184004	Christina Jeny. S	Willing
5	E1184005	Dhivya. R	Willing
6	E1184006	Fazil Ahamed. M	Willing
7	E1184009	Jeevabharathi. M	Willing
8	E1184011	Kavimitha. S	Willing
9	E1184012	Lalith. R	Willing
10	E1184013	Manisha Christy. J	Willing
11	E1184014	Manju. K	Willing
12	E1184015	Mohamed Arshath	Willing
13	E1184016	Mohamed Hisham. M	Willing
14	E1184017	Mohamed Rifai. H	Willing
15	E1184018	Mohamed Riyaz. A	Willing
16	E1184020	Neeraja. K	Willing
17	E1184021	Prethiv Bharathi. C	Willing
18	E1184023	Ramya. B	Willing
19	E1184024	Riyaz Sait. A	Willing
20	E1184025	Sagulhammed. D	Willing
21	E1184026	Sathya. M	Willing
22	E1184027	Sneha. P	Willing
23	E1184028	Suruthi. B	Willing
24	E1184029	Thamar Mohamed	Willing
25	E1184030	Thasneem. ML	Willing
26	E1184031	Vasimakaram. A	Willing
27	E1184032	Vineeth Kumar. R	Willing
28	E1184033	Vishnupriyan. R	Willing
29	TECE01	Asfath Ahamed. S	Willing
30	TECE02	Vijay. K	Willing

Total Strength:30

Total number of students Willing:30

  
HOD/ECE

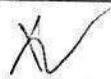
  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
SUNDUR, TIRUCHIRAPALLI - 620 007




MIET ENGINEERING COLLEGE, TRICHY  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
SECOND YEAR STUDENTS GENDER LIST

S.NO	ERP.NO	STUDENT NAME	GENDER
1	E1184002	Amirtha Varshini. M	FEMALE
2	E1184004	Christina Jeny. S	
3	E1184005	Dhivya. R	
4	E1184011	Kavimitha. S	
5	E1184013	Manisha Christy. J	
6	E1184014	Manju. K	
7	E1184020	Neeraja. K	
8	E1184021	Prethiv Bharathi. C	
9	E1184023	Ramya. B	
10	E1184026	Sathya. M	
11	E1184027	Sneha. P	
12	E1184028	Suruthi. B	
13	E1184001	Abdul Hameed.A.H	
14	E1184003	Bharathi. M	
15	E1184006	Fazil Ahamed. M	
16	E1184009	Jeevabharathi. M	
17	E1184012	Lalith. R	
18	E1184015	Mohamed Arshath Ibrahim. S	
19	E1184016	Mohamed Hisham. M	
20	E1184017	Mohamed Rifai. H	
21	E1184018	Mohamed Riyaz. A	
22	E1184024	Riyaz Sait. A	
23	E1184025	Sagulammed. D	
24	E1184029	Thamar Mohamed	
25	E1184030	Thasneem. ML	
26	E1184031	Vasimakaram. A	
27	E1184032	Vineeth Kumar. R	
28	E1184033	Vishnupriyan. R	
29	TECE01	Asfath Ahamed. S	
30	TECE02	Vijay. K	


S.NO	ERP.NO	STUDENT NAME	GENDER
1	E4170	P.Delphine Mary	FEMALE
2	E4172	V.Sathiyavathi	FEMALE
3	E4184	A.Antony Joseph Arputha Raj	MALE

  
HOD/ECE

  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPALI - 620 007 73

MIET ENGINEERING COLLEGE, TRICHY  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
SECOND YEAR STUDENTS STRENGTH

S.NO	ERP.NO	STUDENT NAME	FACULTY NAME
1	E1184002	Amirtha Varshini. M	P.Delphine Mary V.Sathiyavathi
2	E1184004	Christina Jeny. S	
3	E1184005	Dhivya. R	
4	E1184011	Kavimitha. S	
5	E1184013	Manisha Christy. J	
6	E1184014	Manju. K	
7	E1184020	Neeraja. K	
8	E1184021	Prethiv Bharathi. C	
9	E1184023	Ramya. B	
10	E1184026	Sathya. M	
11	E1184027	Sneha. P	
12	E1184028	Suruthi. B	

Total Number of Girls Strength:12  HOD/ECE

8  
  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPALLI - 620 007

MIET ENGINEERING COLLEGE, TRICHY  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
SECOND YEAR STUDENTS STRENGTH

S.NO	ERP.NO	STUDENT NAME	FACULTY NAME
1	E1184001	Abdul Hameed.A.H	A.Antony Joseph Arputha Raj
2	E1184003	Bharathi. M	
3	E1184006	Fazil Ahamed. M	
4	E1184009	Jeevabharathi. M	
5	E1184012	Lalith. R	
6	E1184015	Mohamed Arshath	
7	E1184016	Mohamed Hisham. M	
8	E1184017	Mohamed Rifai. H	
9	E1184018	Mohamed Riyaz. A	
10	E1184024	Riyaz Sait. A	
11	E1184025	Sagulhammed. D	
12	E1184029	Thamar Mohamed	
13	E1184030	Thasneem. ML	
14	E1184031	Vasimakaram. A	
15	E1184032	Vineeth Kumar. R	
16	E1184033	Vishnupriyan. R	
17	TECE01	Asfath Ahamed. S	
18	TECE02	Vijay. K	

Total Number of boys Strength:18

  
HOD/ECE

  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPALLI - 620 007

---

**REG-CONFIRMATION MAIL FOR THE INDUSTRIAL VISIT**

3 messages

---

**sunshiv electronics** <sunshivpcb1@gmail.com>  
To: "R.Vijayalakshmi ECE" <vijayalakshmi.r@miet.edu>

Mon, Aug 5, 2019 at 1:17 PM

Greetings From Sunshiv..!

This is Chithradevi from Sunshiv Electronic Solutions.As per our telephonic conversation...,We are glad to welcome all of our second year ECE students in our Industry.Hereby i mention the further details.Kindly gothrough it and let me know the updates.

Details:-

Date -22-08-2019(Thursday)  
Duration- 2 to 3 hours  
No of students -31  
Requirement - Individual note and pen.  
Amount -100/student

We are ready to provide

Certificates.

--

Thanks & Regards,  
**Sunshiv Electronic Solutions,**  
245,Chinnasamy Naidu Road,  
Opp to Ayyappan Temple,  
New Siddhapudur,Gandhipuram,  
Coimbatore - 641 044.  
Cell - 97509 14445, 0422 - 4980499.  
For Production - 98428 02351.

---

R.Vijayalakshmi ECE <vijayalakshmi.r@miet.edu>  
To: sunshiv electronics <sunshivpcb1@gmail.com>

Tue, Aug 6, 2019 at 5:36 AM

Thank You mam We can conform the date on 22.08.2019  
[Quoted text hidden]

---

**sunshiv electronics** <sunshivpcb1@gmail.com>  
To: "R.Vijayalakshmi ECE" <vijayalakshmi.r@miet.edu>

Tue, Aug 6, 2019 at 10:52 AM

Yes, it is confirmed.

[Quoted text hidden]

  
**PRINCIPAL**  
MIET ENGINEERING COLLEGE  
SUNDUR, TIRUCHIRAPALI - 620 007



# M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

TRICHY-PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI - 620 007.

Ph : 0431 - 2660 303 | Fax: 2660 264 & 2660 550

Email : principalengg@miet.edu, contact@miet.edu & mietenggoffice@gmail.com

www.miet.edu

**Dr. X. SUSAN CHRISTINA, M.E., Ph.D.,**  
Principal

Date :

08.08.2019

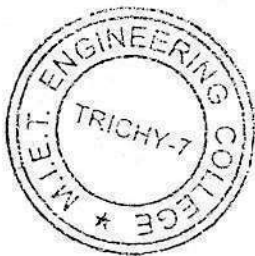
To

The General Manager – HR,  
Sunshiv Electronics solution,  
Coimbatore.

## TO WHOM SOEVER IT MAY CONCERN

This is to certify that the attached list of names are bonafide students of this institution studying in **Second Year of Electronics and Communication Engineering**. The total strength of 30 students along with 3 Faculty Members are willing to undergo industrial visit in your organization on 22<sup>nd</sup> August 2019. So, I hereby request to approve our requisition and therefore enable our students to make this industrial visit as a pragmatic experience.


Encl: Students Name List



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GUNDUR, TIRUCHIRAPALLI - 620 007

*A. S. J.*  
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MIET ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPALLI - 620 007

**Industrial Visit Feedback form from Industry**

Course & Department	Electronics and Communication Eng
Sem / Year	Semester-III / II-year.
Date(s) of Visit and Time	22-08-2019.
No. of Students visited	26
Accompanying Staff Members	3 { 2 - Lady staff 1 - Male staff
Name & Address of the Company	245, Chinmasamy Naidu Rd, (Opp) to Ayyappan kovil, New Siddhapudur, Coimbatore-641044.
Feedback about the students	Students are more active and they make my session as most interactive one. Very happy to meet them.
Technical details about the Company	We are leading core industry in the field of PCB Design and Manufacturing. Industry.
Authorized Signatory with Name / Designation and Seal	
Any other comments	Happy to meet you.

Looking forward to work with you.

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## **REPORT ON ONE DAY INDUSTRIAL VISIT**

**Department** : Electronics and Communication Engineering  
**Year/Sem** : II / III  
**Name of the Industry** : SUNSHIV ELECTRONIC SOLUTIONS  
**Place of Visit** : COIMBATORE  
**Date of Visit** : 22.08.2019

  
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MIET ENGINEERING COLLEGE  
SUNDUR, TIRUCHIRAPPALLI - 620 007


Report on One Day Industrial Visit

01	Place of Visit	Sunshiv Electronic Solutions 245, Chinnasamy Naidu Road, Opp to Ayyappan Temple, New Siddhapudur, COIMBATORE-641044.	
02	Number of Students	Boys	18
		Girls	12
03	Faculty Coordinators	Male	A.AntonyJosephArputhaRaj AP/ECE
		Female	DelphineMary, AP/ECE V.Sathiyavathi AP/ECE
04	Date & Time of Industrial Visit	22.08.2019	Time:10.15 am Onwards
05	Approval Date	17 / 08 /2019	
06	Objective of the Visit	To get a clear description about the industrial experience in Electronics automation and PCB Designing and Manufacturing.	
07	Company Profile & Learning Experience	<p><b>COMPANY PROFILE</b></p> <p>SUNSHIV ELECTRONIC SOLUTIONS is an ISO 9001:2008 Certified company established in the year of 1994, to cater industrial needs in Electronics automation and PCB Designing and Manufacturing.</p> <p>We are having our own integrated setup for :</p> <ul style="list-style-type: none"> <li>• Computer aided PCB (Printed Circuit Board) Designing</li> <li>• Manufacturing of single and Double sided PCBs</li> <li>• Assembling of PCBs</li> <li>• Trouble shooting of electronic pcb kits</li> <li>• Industrial customization Electronic Projects</li> </ul> <p><b>LEARNING EXPERIENCE</b></p> <p><u>PCB Designing</u></p> <p>Electronics - Fundamentals</p> <ul style="list-style-type: none"> <li>• Circuit Analysis</li> <li>• Dimension of PCB</li> <li>• Playing with Layers</li> <li>• Placement of Components</li> <li>• Routing by Standards</li> <li>• Verification of Connections</li> </ul> <p>Practical Training on Electronic Instruments</p> <p>Simulation of Electronic Circuits</p>	

  
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		TIME	ACTIVITIES
08	Programme Schedule (As executed)	4.30 am	Departure from M.I.E.T campus
		9.00am	Breakfast at Aarya Bhavan Hotel (Sulur-Cbe)
		10.00am	Reaching Sunshiv Electronic Solutions /Coimbatore
		1.00pm	Leaving from Sunshiv Electronic Solutions /Coimbatore
		1.00 to 2.00 pm	Lunch at Coimbatore
		2.20pm	Leaving from Coimbatore
		7.00pm	Tea & snacks in at Krishnan Bhavan (Palladam)
		9.00pm	Dinner at Hotel at Kangeyam.
		11.30pm	Reaching MIET College
		09	Brief about the Students Observation
10	Conclusion	Students gained practical knowledge related with Relays, Transistors, Switches along with Designing and Manufacturing of PCB components and Board.	

  
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 MIET ENGINEERING COLLEGE  
 SUNDUR, TIRUCHIRAPALI - 620 007

**DESIGN OF LOW NOISE AMPLIFIER FOR 5G TRANSCEIVER  
USING 65nm TECHNOLOGY**

A PROJECT REPORT

*Submitted by*

**N.AARTHI (812416106001)**

**A.GAYATHRIVANI (812416106009)**

**A.RAEISA (812416106029)**

*In partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*

**ELECTRONICS AND COMMUNICATION ENGINEERING**

**MIET ENGINEERING COLLEGE TRICHY – 7**

**ANNA UNIVERSITY : CHENNAI 600 025**

**APRIL 2020**

  
**PRINCIPAL**

**M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.**

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report "Design of Low Noise Amplifier For 5G Transceiver Using 65nm technology" is the bonafide work of N.Aarthi (812416106001), A.Gayathrivani (812416106009), A.Raeisa (812416106029) who carried out the project under my supervision.

  
SIGNATURE

Mr.K. Javid M.E.,

**HEAD OF THE DEPARTMENT**

Electronics and Communication

Engineering

MIET Engineering College

Tiruchirappalli – 620 007

  
SIGNATURE

Dr.A.Suresh kumar M.E.,Ph.D.,

**SUPERVISOR**

Assistant Professor

Electronics and Communication

Engineering

MIET Engineering College

Tiruchirappalli – 620 007.

The Project Viva Voce held on 22.09.2020

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

  
PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.

## Abstract

Next generation 5G communication, the frequency spectrum could be allocated sub 6GHz and up to mm wave frequency range. To leverage 4G LTE investments, sub 6GHz 5G could be deployed ahead of the mm wave frequency, there is strong commercial demand to investigate the sub 6GHz LNA performance for existing high band WiFi, 4G/5G smartphone applications. The first stage of a receiver is usually a low-noise amplifier (LNA). High gain and low noise figure LNA is required close to the antenna to reduce the system level noise figure. Existing LNA designs fail to deliver higher bandwidth. Here we Designed wider bandwidth LNA for Future technology using sub 6Ghz band. In proposed LNA design topology comprised of single ended Common source (CS) cascade degenerative for impedance ( $Z_{in}$ ,  $Z_{out}$ ) match to 50 ohm, and Inductive Peaking load to deliver higher bandwidth of operation. This LNA has designed using TSMC65nm process. Proposed design LNA delivered gain  $S = 20.33$  dB,  $NF < 3.5$  dB,  $P_{1dB}$  is  $-21.293$  dB,  $IIP3/OIP3$  are  $-10.25$  dBm/ $8.96$  dBm, and stability Factors  $K_f = 2.5 > 1$ ;  $B_f = 0.99 > 0$  at 5.5 Ghz center Frequency.

  
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## CHAPTER 6

### CONCLUSION


The proposed Sub 6Ghz FR1 5G LNA Cascoded single stage Common source inductive de-generation with inductive peaking architecture is designed and implemented with TSMC65nm CMOS process. Miller Effect decreased with approaching good isolation between input and output with the help of cascode structure. Total node capacitance resonates with inductance  $L_d$  both to increase gain at the center frequency and simultaneously to provide an additional level of highly desirable band-pass filtering (i.e. inductive peaking). Use of inductive peaking brings even higher voltage swing with lower supply voltage. It also decreases transconductance, which reduces  $1/f_3$  corner frequency resulting in lower close in-phase noise. Matching done at both input and output port 50 ohm impedance with the help of source degeneration and inductive peaking networks. This LNA has designed using TSMC65nm process. Proposed design LNA delivered gain  $S_{21} = 20.33$  dB ,  $NF < 3.5$  dB ,  $P_{1dB}$  is  $-21.293$  dB ,  $IIP3/OIP3$  are  $-10.25$  dBm/ $8.96$  dBm,

21

and stability factors  $K_f = 2.5 > 1$ ;  $B_f = 0.99 > 0$  at 5.5Ghz center Frequency. Overall Sub 6Ghz LNA operating under wider bandwidth , which result higher data rate achieved.

### FUTURE WORK

To use FR2 5G band (mmwave based Ka-band LNA) going be designed with active inductor to reduce the layout

  
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GUNDUR, TIRUCHIRAPPALLI-620 007.

**A TOMATO LEAF DISEASE PREDICTION AND  
RECOMMENDATION USING MULTILAYER DEEP  
CONVOLUTIONAL NEURAL NETWORK**

**A PROJECT REPORT**

*Submitted by*

**J. PEARLY (812416106026)**

**S. RIFANSIYA (812416106031)**

**S. THASLIMA AFRIN (812416106037)**

**N.J. VISHNU PRIYA (812416106040)**

*In partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*

**ELECTRONICS AND COMMUNICATION ENGINEERING**

**MIET ENGINEERING COLLEGE, TRICHY-7**

**ANNA UNIVERSITY :: CHENNAI 600 025**

**APRIL 2020**

  
**PRINCIPAL**

**M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.**

ANNA UNIVERSITY :: CHENNAI 600 025

**BONAFIDE CERTIFICATE**

Certified that this project report "A TOMATO LEAF DISEASE PREDICTION AND RECOMMENDATION USING MULTILAYER DEEP CONVOLUTIONAL NEURAL NETWORK" is the bonafide work of J.Pearly (812416106026), S.Rifansiya (812416106031), S.Thaslima Afrin (812416106037) and N.J. Vishnu Priya (812416106040) who carried out the project work under my supervision.



**SIGNATURE**

Mr.K.Javid M.E.,

**HEAD OF THE DEPARTMENT**

Electronics and Communication

Engineering

MIET Engineering College

Tiruchirappalli-620007



**SIGNATURE**

Ms.P.Delphine Mary M.E.,

**SUPERVISOR**

Assistant Professor

Electronics and Communication

Engineering

MIET Engineering College

Tiruchirappalli-620007

The project viva voce held on : 22/09/2020



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**



**PRINCIPAL**

**M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.**

## ABSTRACT

Tomatoes (*Solanum lycopersicum*) can be grown on almost any moderately well-drained soil type. Tomatoes crop and yield is suffered every year due to number of fungal diseases. Important fungal diseases limiting tomato production. Diseases caused by fungus is develop through soil-borne, above-ground infections and in some instances are transmitted through pest and insect feeding. However, the existing research lacks an accurate and fast detector of tomato leaf diseases for ensuring the healthy development of the tomato industry. This project is to develop an appropriate and effective method for diagnosis of the disease and its symptoms. This paper proposes a deep learning approach that is based on Multilayer Deep convolutional neural networks (CNNs) for the real-time detection of tomato leaf diseases. The proposed deep-learning-based approach can automatically identify the discriminative features of the diseased tomato leaf images and detect the ten common types of tomato leaf diseases with high accuracy. In addition, the proposed approach can handle all the diseased tomato leaf images that were captured under real conditions in a tomato field environment. To analyze the proposed deep model, we have used visualization methods to understand symptoms and to localize disease regions in leaf.



## CHAPTER 6

### CONCLUSION

The photo leaves plant detection and classification system is implemented using convolutional neural networks. The result is proper sets of training data are able to distinguish between diseases plant regions. If we are interested in denoising, compression, restoration, often more appropriate. A hybrid approach is recommended in solving properly the detection and classification problems in plant diseases. Our method is used to predict the diseases accurately. Then these methods are used to predict the disease is affected or not affected by using a comparison method. These methodologies are validated by a comprehensive set of comparisons against competing and well-established image registration methods, by using real training datasets and classic measures typically employed as a benchmark by the plant imaging community our proposed method is mostly used in medical field. It is used to easily detect the plant diseases.

### FUTURE WORK

The Future scope of this project is that this method can be used for all the plants which is primarily done for few plants currently to make sure each plant grown by farmers are healthy and can be given proper care.



**MIET**  
INSTITUTIONS

**M.I.E.T ENGINEERING COLLEGE, TRICHY - 7**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING**

INDUSTRIAL VISIT FOR III YEAR ON 22.08.2019

REQUISITION APPROVAL FOR INDUSTRIAL VISIT

Industrial visit date	Company name /place	Number of Students going for industrial visit (58)		Number of Faculty accompany the Students 03 Faculty	
		Girls:19	Boys:39	Ladies:1	Gents:2
22.08.2019	Windkraft Energy-Aralvaimozhi	Girls:19	Boys:39	Ladies:1	Gents:2

  
IV coordinator

  
HOD/T&P

  
HOD/EEE

  
PRINCIPAL

  
17.8.19.  
CHAIRMAN

  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPALI - 620 007

05.08.2018

From:

M.A.Mahmoodh  
Class representative/Third year EEE,  
M.I.E.T Engineering College,  
Trichy-07.

To:

The Chairman,  
M.I.E.T Engineering college  
Trichy-07.

Through Principal

Respected Sir,

Sub: Seeking Permission for industrial visit -Reg.

We are around 58 students and with 3 Faculty Members have planned to go for an industrial visit to Windkraft Energy-Aralvaimozhi on 22/08/2019. Kindly grant us permission to go for industrial visit.

Thankingyou

Yours faithfully,

(Class representative/Third year EEE)

Industrial Visit  
Co-Ordinator

HOD/EEE

HOD/T & P

PRINCIPAL

CHAIRMAN  
PRINCIPAL  
M.I.E.T ENGINEERING COLLEGE  
SUNDUR, TIRUCHIRAPALLI - 620 007

**Industrial Visit -Male Student Faculty Incharge List**


SNo	ROLLNo	REGISTER No	NAME	Faculty Name list
1.	E1173001	812417105001	Abdul Jalil. M	D.Tamilselvan AP/EEE
2.	E1173003	812417105003	Alaguraja. P	
3.	E1173005	812417105005	Arockiaraj. A	
4.	E1173008	812417105008	Arun Raj. I	
5.	E1173009	812417105009	Aswin. K	
6.	E1173010	812417105010	Azeez. P	
7.	E1173011	812417105011	Bharathkumar. R	
8.	E1173013	812417105013	Britto. P	
9.	E1173015	812417105015	Dinesh Kumar. P.M	
10.	E1173016	812417105016	Faisal Ali Khan. A	
11.	E1173018	812417105018	Jahirkhan. S	
12.	E1173024	812417105024	Mahmoodh. M.A	
13.	E1173026	812417105026	Manoj Kumar. S	
14.	E1173027	812417105027	Masthan Oliyullah. S	
15.	E1173029	812417105029	Minnalkumar. V	
16.	E1173030	812417105030	Mohamed Abu Ariz. S	
17.	E1173031	812417105031	Mohamed Arsath. B	
18.	E1173032	812417105032	Mohamed Aslam. J	
19.	E1173033	812417105033	Mohamed Ibrahim. G	
20.	E1173034	812417105034	Mohamed Malik. K	
21.	E1173035	812417105035	Mohamed Musthakeem. S	E.Muthukumaran AP/EEE
22.	E1173039	812417105039	Mohamed Yusuf Khan.A	
23.	E1173040	812417105040	Mohammed Hussain. S	
24.	E1173045	812417105045	Praveenkumar. K	
25.	E1173048	812417105048	Rahul. R	
26.	E1173049	812417105049	Rajakeerthi. J.M	
27.	E1173050	812417105050	Rathish. A	
28.	E1173054	812417105054	Sivanesan. K	
29.	E1173058	812417105058	Thaiseer Ahamed. J	
30.	E1173059	812417105059	Uthaya Nithi. R	
31.	E1173060	812417105060	Venmani Selvan. D	
32.	E1173061	812417105061	Vignesh. D	
33.	E2183064	812417105301	Dheenadhayalan. R	
34.	E2183065	812417105302	Dinesh. M	
35.	E2183066	812417105303	Fareth Ahamed. M	
36.	E2183067	812417105304	Hariprasad. S	
37.	E2183068	812417105305	Mohamed Asarudeen. A	
38.	E2183069	812417105306	Mohamed Riyazudeen. J	
39.	E2183071	812417105308	Sathiya Seelan. M	

  
**PRINCIPAL**
**M.I.E.T. ENGINEERING COLLEGE**  
**GUNDUR, TIRUCHIRAPPALLI-620 007.**

Industrial Visit

## Female Student Faculty Incharge List

SNo	ROLLNo	REGISTER No	NAME	Faculty Name list
1.	E1173004	812417105004	Amala Jesima. V	A.Abirami AP/EEE
2.	E1173012	812417105012	Bhuvaneswari. K	
3.	E1173019	812417105019	Joesphine. A	
4.	E1173020	812417105020	Kalpana. R	
5.	E1173021	812417105021	Kanmani. S.K	
6.	E1173022	812417105022	Kavipriya. A	
7.	E1173023	812417105023	Mahalakshmi. M	
8.	E1173025	812417105025	Manisha. S	
9.	E1173028	812417'05028	Mercymirakline. V	
10.	E1173041	812417105041	Monisha Soniya. J	
11.	E1173042	812417105042	Muthumala. M	
12.	E1173043	812417105043	Nisha. S	
13.	E1173047	812417105047	Priyadharshini. S	
14.	E1173052	812417105052	Sangavi. V	
15.	E1173055	812417105055	Sowmiya. M	
16.	E1173056	812417105056	Sridevi. K.R	
17.	E1173062	812417105062	Vimala. A	
18.	E1173063	812417105063	Yogeswari. T	
19.	E2183070	812417105307	Prince Kiruthika. A	

  
PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.

8/10/2019

MIET Engineering College Mail - Revised mail -Requisition for Industrial visit on 22.08.2019



HOD EEE <eee.hod@miet.edu>

## Revised mail -Requisition for Industrial visit on 22.08.2019

Vasanth <vasanth@windkraft.co.in>  
Reply-To: Vasanth@windkraft.co.in  
To: HOD EEE <eee.hod@miet.edu>  
Cc: Info Windkraft <info@windkraft.co.in>

Fri, Aug 2, 2019 at 3:48 PM

Dear sir

We thank you for choosing Windkraft Energy for Industrial Visit

We are excited to take your students around ou. windfarm for a tour of 3 groups

around 20 students .

1. We can take a class for first 1 hour on the Renewables and Wind energy sector in India and Tamilnadu
2. Then we can take them for a tour of 23 students to our nearby windfarm and explain them the basics

However, In our office we do not have the space to accommodate 63 students at a stretch , Hence kindly advice/suggest how we can plan

Thank you

Sincèrement

Vasanthan D

Client Relations

Windkräft Energie

Tamil Nadu – India

Ph : +91-95970 55889




*g. shuf.*  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPALI - 620 007

**REPORT ON ONE DAY INDUSTRIAL**  
**VISIT**

**Name of the Industry** : **WINDGRAFT Energy**

**Place of Visit** : **Aralvoimozhi**  
**Kanyakumari - 629301**

**Date of Visit** : **22.08.2019 (Tuesday)**

  
**PRINCIPAL**  
**MIET ENGINEERING COLLEGE**  
**GUNDUR, TIRUCHIRAPALI - 620 007**

### Report on One Day Industrial Visit

01.	Company Visited	WINDGRAFT Energy	
02.	Number of Students	Boys	31
		Girls	17
03.	Faculty Coordinators	Male	2
		Female	1
04.	Date & Time of Industrial Visit	22/ 08 /2019	Time :10.30am to1.30pm
05.	Approval Date	21/08/2018	
06.	Objective of the Visit	<ul style="list-style-type: none"> <li>• To realize the wind energy extraction.</li> <li>• To know the topography of wind energy conversion system.</li> <li>• To become aware of function of WECS and controller.</li> <li>• To acquire knowledge about Renewable energy resource in economic growth.</li> <li>• To become aware of career opportunities in WECS.</li> </ul>	
	Outcome of the industrial visit	<ul style="list-style-type: none"> <li>• Ability to describe the wind energy development.</li> <li>• Will equip skills to place the WECS.</li> <li>• Will expertise in different modes of operation of WECS.</li> <li>• Ability to comprehend the role of renewable energy source in cost effective energy development.</li> <li>• Identify the career opportunities in WECS.</li> </ul>	

  
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07.

**Company Profile  
&  
Learning Experience**

**Windkräft Energy** located at India's largest wind energy corridor Muppandal Belt, Tamilnadu. Windkräft Energy in this green energy business for the past 20 years evolving along with the wind sector, perfecting as professionals and dedicating ourselves to the cause of creating a better future for everyone.

A team of around 200 professionals with 300 portfolios of work experience in wind and other relevant industries spearheads the operations of various verticals within the state. Starting from 225 Kilowatt to the maximum range of 2.1 MW have commissioned, maintained and resold.

Each Vertical wind energy machine is carefully guided by our indigenous software, years of experience and trust of vendors.

**Learning experience**

- Students able to gain knowledge about the availability of wind data detail through satellite.
- In field visit of horizontal axis wind machine they able to understand the tower altitude to extract the wind energy.
- Student understands the making of wind blade and tower materials depends on the range of power generation.
- In field visit different parts of wind mill provide real time practical experience to the students.
- Students gained knowledge about the anemometer function, actual wind speed to generator speed conversion to generate the electrical energy.
- Students can obtain more knowledge of working of different generator such as conventional induction generator and doubly fed induction generator.
- Students able to understand the panel board control through SCADA system and power factor improvement by liquid condenser.

**Products & Services Offered by Us**

- ❖ Financial Viability planning
- ❖ Land, Electricity Board and other government Policies
- ❖ Wind / Solar generation analysis
- ❖ Project man power & equipment planning
- ❖ Micrositing and Supply
- ❖ Commissioning and Execution.

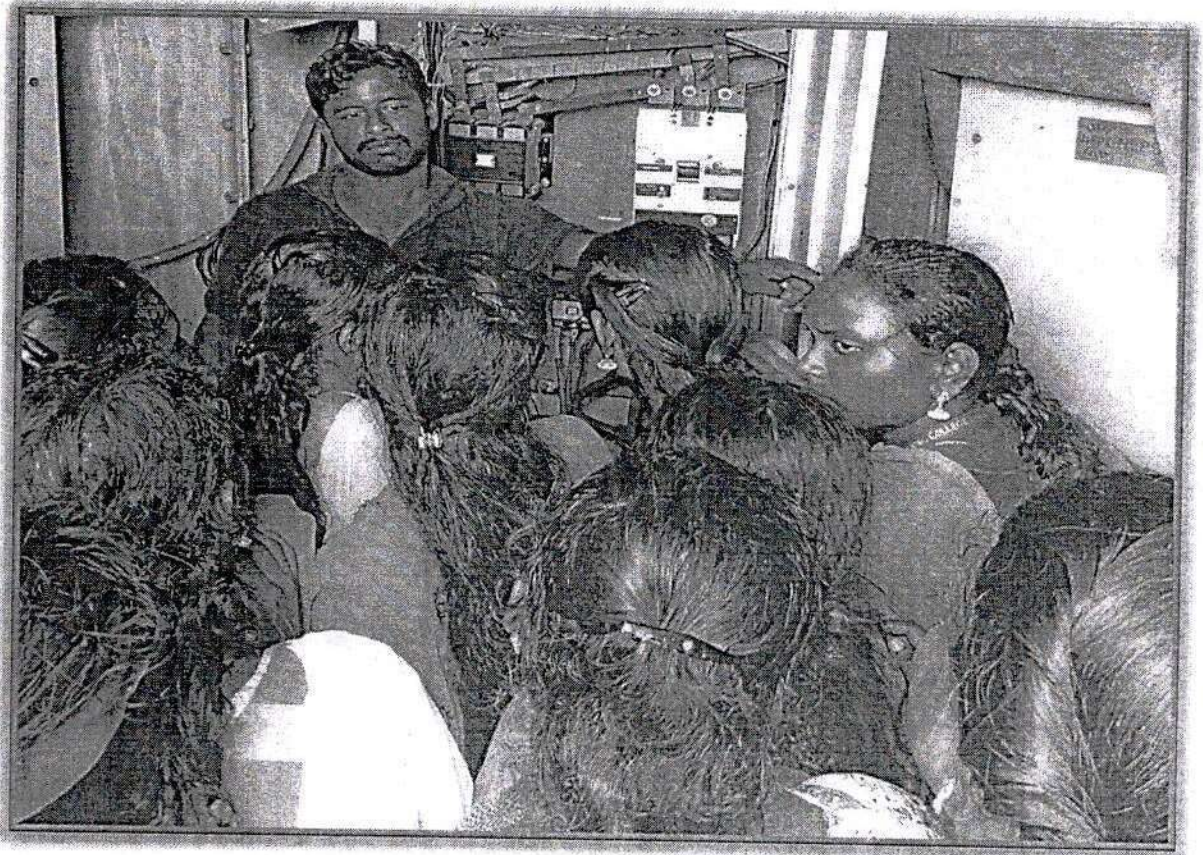
*H. Suf.*

08.	Programme Schedule (As executed)	<b>Time</b>	<b>Activities</b>
		10.00 P.M(21.09.2019)	Departure from M.I.E.T. Campus
		06.00 A.M	Refreshment in Thirparppu
		09.00 A.M	Breakfast
		10.00 A.M	Reaching the company
		10.30 A.M	Visiting the company
		01.30 P.M	Returning to bus
		02.00 P.M	Lunch
		02.40 P.M	Leaving from Kanyakumari
		08.00 P.M	Dinner
		10.30 P.M	Return to M.I.E.T
09.	Brief about the Students Observation	Students gained knowledge about wind power generation concept, manufacturing material for wind mill, wind data through satellite, control of power generation and finance subsidy by the government.	
10.	Conclusion	Students got more knowledge of working principle, assembly, working of different rating of wind mill, power distribution, impact of green energy revolution and job opportunity in the field of wind mill power generation as well manufacturing sector.	
11.	Attachments (Scanned Photos of the Industrial Visit)	Attached	

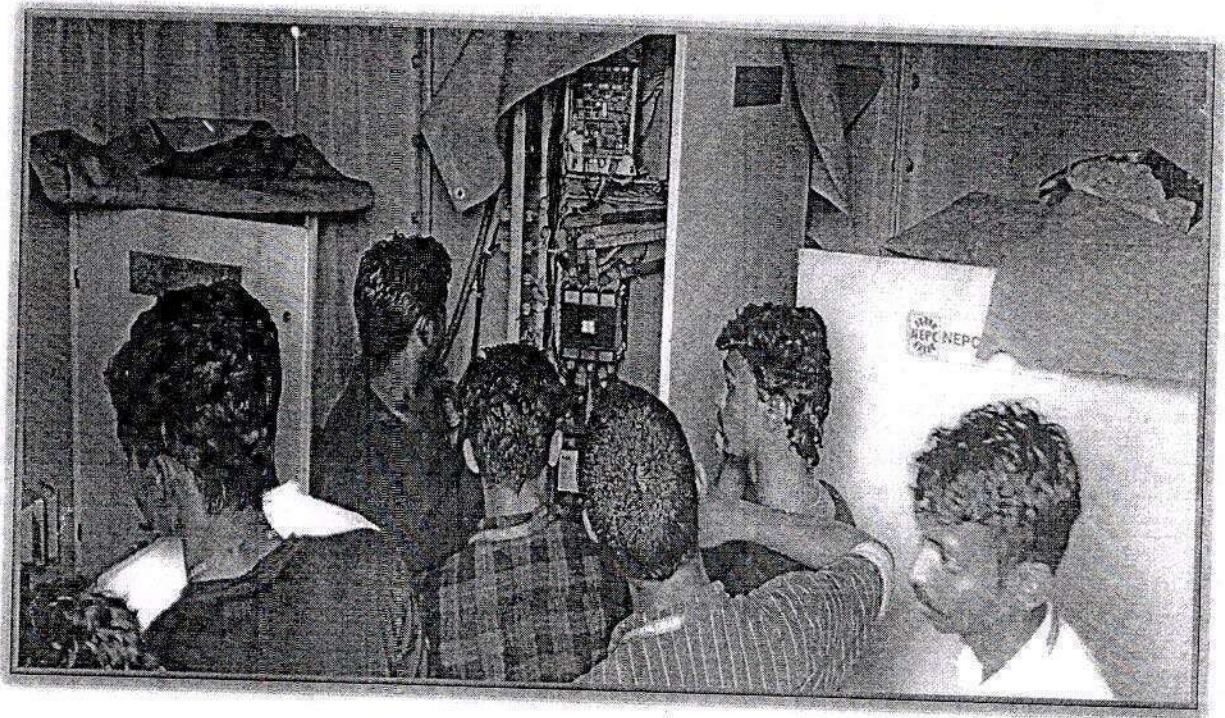
**PO AND PSO MAPPING**

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
H	M	M	-	L	M	H	M	H	M	M	M	M	M

  
 PRINCIPAL  
 MIET ENGINEERING COLLEGE  
 GUNDUR, TIRUCHIRAPALI - 620 007



*A. Sufi*  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPALI - 620 007



*A. Sub.*  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPALLI - 620 007

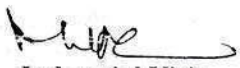


(1)

<b>MIET</b> INSTITUTIONS	<b>M.I.E.T. ENGINEERING COLLEGE, TRICHY - 7</b> DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING
-----------------------------	--

INDUSTRIAL VISIT FOR II YEAR ON 22.08.2019  
REQUISITION APPROVAL FOR INDUSTRIAL VISIT

Industrial visit date	Company name /place	Number of Students going for industrial visit (31)		Number of Faculty accompany the Students 03 Faculty	
		Girls:3	Boys:28	Ladies:1	Gents:2
22.08.2019	Pentagon switchgear-Coimbatore				


  
Industrial Visit  
Coordinator

  
HOD/T&P

  
HOD/EEE

  
PRINCIPAL

  
17.8.19.  
CHAIRMAN

  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPALI - 620 007

3

10.08.2018

From:

J. Abdul Rahim  
Class representative/Second year EEE,  
M.I.E.T Engineering College,  
Trichy-07.

To:

The Chairman,  
M.I.E.T Engineering college  
Trichy-07.

Through Principal

Respected Sir,


Sub: Seeking Permission for industrial visit –Reg.

We are around **31 students** and with **3 Faculty Members** have planned to go for an industrial visit to **Pentagon switchgear-Coimbatore** on **22/08/2019**. Kindly grant us permission to go for industrial visit.

Thankingyou

Yours faithfully,

J Abdul rahim  
(Class representative/Second year EEE)

  
Industrial Visit  
Co-Ordinator

  
HOD/EEE

  
HOD/T & P

  
PRINCIPAL

  
PRINCIPAL  
CHAIRMAN  
M.I.E.T ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPALI - 620 007


9

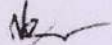


**M.I.E.T ENGINEERING COLLEGE, TRICHY - 7**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING**

**Female Student Faculty Incharge List**

SNo	ROLLNo	REGISTER No	NAME	Faculty name
1	E1183015	812418105044	Nandhini. V	M.Anitha
2	E1183017	812418105053	Rubini. U	
3	E1183022	812418105068	Thameena Begum. M	

  
INDUSTRIAL VISIT-incharge

  
HOD/EEE

  
**PRINCIPAL**  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.

**Male Student Faculty Incharge List**

SNo	ROLLNo	REGISTER No	NAME	Faculty name
1.	E1183001	812418105004	Abdul Basith. B	S.Balamurugan
2.	E1183002	812418105005	Abdul Rahim. J	
3.	E1183003	812418105010	Ahamed Basha. A	
4.	E1183004	812418105011	Ajay. P	
5.	E1183005	812418105018	Croose Divahar. S	
6.	E1183006	812418105023	Izaz Sarbudeen. M	
7.	E1183007	812418105028	Karthikeyan. P	
8.	E1183008	812418105030	Mahaveer. M	
9.	E1183009	812418105033	Mohamed Basil. S	
10.	E1183010	812418105034	Mohamed Fazil. N	
11.	E1183011	812418105035	Mohamed Mufaris. K	
12.	E1183012	812418105036	Mohamed Osama. M	
13.	E1183013	812418105037	Mohamed Thameel. Z	
14.	E1183014	812418105038	Mohamed Yasin. S	
15.	E1183016	812418105045	Nithese Kanna. A	
16.	E1183018	812418105060	Siddiq Basha. M	D.Jayaraj
17.	E1183019	812418105061	Sirajideen. B	
18.	E1183020	812418105064	Sri Kumaran. K	
19.	E1183021	812418105065	Subarethinam. P	
20.	E1183023	812418105069	Thamizhvalavan. M	
21.	E1183024	812418105071	Veeramani. K	
22.	T19EEA01		Rifaykhan. J	
23.	T19EEA02		Gowshik. MS	
24.	T19EEA03		Ramesh Kumar	
25.	T19EEA05		Jeeva. R	
26.	T19EEA07		Nafeez Ahamed. A	
27.	T19EEA08		Mohamed Fazil. S	
28.	T19EEA10		Vasim Akram. A	

  
INDUSTRIAL VISIT-incharge

  
HOD/EEE

  
**PRINCIPAL**  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.

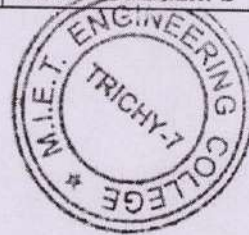


Student name List(II Year)

SNo	ROLLNo	REGISTER No	NAME
1.	E1183001	812418105004	Abdul Basith. B
2.	E1183002	812418105005	Abdul Rahim. J
3.	E1183003	812418105010	Ahamed Basha. A
4.	E1183004	812418105011	Ajay. P
5.	E1183005	812418105018	Croose Divahar. S
<del>6.</del>	<del>E1183006</del>	<del>812418105023</del>	<del>Izaz Sarbudeen. M</del> ABSENT
7.	E1183007	812418105028	Karthikeyan. P
8.	E1183008	812418105030	Mahaveer. M
9.	E1183009	812418105033	Mohamed Basil. S
10.	E1183010	812418105034	Mohamed Fazil. N
11.	E1183011	812418105035	Mohamed Mufaris. K
12.	E1183013	812418105037	Mohamed Thaimel. Z
13.	E1183014	812418105038	Mohamed Yasin. S
14.	E1183015	812418105044	Nandhini. V
15.	E1183016	812418105045	Nithese Kanna. A
16.	E1183017	812418105053	Rubini. U
17.	E1183018	812418105060	Siddiq Basha. M
18.	E1183019	812418105061	Sirajideen. B
19.	E1183020	812418105064	Sri Kumaran. K
20.	E1183021	812418105065	Subarethinam. P
21.	E1183022	812418105068	Thameena Begum. M
22.	E1183023	812418105069	Thamizhvalavan. M
23.	E1183024	812418105071	Veeramani. K
<del>24.</del>	<del>T19EEA01</del>		<del>Rifaykhan. J</del> ABSENT
25.	T19EEA02		Gowshik. MS
26.	T19EEA03		Ramesh Kumar
<del>27.</del>	<del>T19EEA07</del>		<del>Nafeez Ahamed. A</del> ABSENT
28.	T19EEA08		Mohamed Fazil. S

Staff in-charges

1. D. JAYARAJ
2. S. BALAMURUGAN
3. M. ANITHA



*[Signature]*  
PRINCIPAL

M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.



# KERALA ELECTRICAL & ALLIED ENGINEERING CO. LTD.

(A GOVERNMENT OF KERALA UNDERTAKING)

MAMALA P.O., KOCHI - 682 305

An ISO 9001-2015 Certified Company

Phone : 0484-2787705 / 07 / 08 / 11  
Fax : 91-0484-2787702  
E-mail : mamala@kel.co.in  
CIN : U31200KL 1964 SGC002062  
Website : www.kel.co.in



MPA/61/9668 /19

5<sup>th</sup> August, 2019

The HOD  
M.I.E.T. Engineering College,  
Trichi.

Respected Sir,

Sub: **Permission for Industrial Visit – Reg.**

Ref: Your Letter Dated 2.8.19..

With reference to the above permission is granted for 69 Nos. Electrical & Electronics Engineering Students & 5 faculties of your college to visit our Factory at Mamala, Kochi on 22.08.2019 (Thursday) from 1.30 pm to 3 pm.

You are requested to remit Rs.2,000/- towards visiting fee and GST @ 18% extra (Rs.360/-).


The students may be directed to observe the rules & regulations of the Company regarding safety and conduct inside the factory premises.

Photography / Videography is prohibited in company premises.

Thanking you,

Yours faithfully,  
For KERALA ELECTRICAL & ALLIED ENGG.CO.LTD,

  
MANAGER (P&A)

  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPALI - 620 007

## Corporate Office

7th Floor, Housing Board Office Complex, Panampilly Nagar, Kochi - 682 036, India  
EPABX : 0484-2310012 / 13 / 14, 2318960 / 61, Fax : (0484) 2310015  
E-mail : info@kel.co.in Website : www.kel.co.in

## Request for Industrial Visit on 22.08.2019-Reg

Pentagon Switchgear Private Limited <info@pentagonswitchgear.in>  
 To: HOD EEE <eee.hod@miet.edu>

Fri, Aug 9, 2019 at 12:00 PM

Dear Sir / Madam,

With reference to trail mail, You are welcome to visit our factory on **22.08.2019** during working hours 9.00 AM to 1.00 PM and 2.00 PM to 6.00 PM (Lunch Break - 1.00PM to 2.00PM).

### Rules & Regulations:

1. Mobile Phones and Cameras are strictly prohibited inside the factory.
2. Advice your wards to maintain upbeat discipline during the visit.

Also, We request you to Plant 10 Nos of Tree Saplings in your College premises on behalf of Pentagon Switchgear Private Limited and help to globe to avoid greenhouse effect. We request you to take the photos of planted saplings with your Students and send soft copy of the same before/along with your visit. (Bring the hard copies during your visit. If possible) Hope you understand that, this initiation only because to promote Green Plantation and make the World green.

Regards,  
 Tamilarasu.P  
 Engineer- Applications Design & Marketing

[Quoted text hidden]

## PENTAGON SWITCHGEAR PRIVATE LIMITED

62/1C-4, Kuppepalayam  
 Sarkar Samakulam VIA  
 Coimbatore - 641107  
 Tamil Nadu, India

Office Mobile : +919789740444, +919791680888  
 Email : info@pentagonswitchgear.in  
 Web : www.pentagonswitchgearpvtltd.in  
 GST No : 33AAGCP9427R1ZO

**Manufacturers of LBS, VCB, HT Switchgear Panels up to 33KV and Oil Cooled Distribution Transformers up to 2500KVA**

*A. S. S.*  
**PRINCIPAL**  
**MIET ENGINEERING COLLEGE**  
**GUNDUR, TIRUCHIRAPALLI - 620 007**

**REPORT ON ONE DAY INDUSTRIAL**  
**VISIT**

**Name of the Industry** : Pentagon Switchgear Private Limited

**Place of Visit** : No. 62/1C-4,  
Sarkar Samakulam Via, Kuppepalayam,  
Coimbatore-641107, Tamil Nadu, India

**Date of Visit** : 22.08.2019 (Tuesday)


*n. d. s.*  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPALI - 620 007

01	Program Schedule (As executed)	<b>Time</b>	<b>Activities</b>
		5.00 am	Departure from M.I.E.T
		9.00am	Breakfast at Coimbatore
		11.00am to 12.30 pm	Lecture on Industry
		12.30 P.M to 2.00 P.M	Lunch
		2.00 to 3.30 pm	Site visit
		4.00pm	Leaving from Coimbatore
		8.00pm	Dinner at Karur
		9.30pm	Reaching MIET College

02	Company profile	<p>Pentagon Switchgear Private Limited has been established in the year of 2005 by top notch engineering professionals having nearly 15 to 25 years of experience in Switch gears, who are experts in Design, Manufacturing, Marketing, and Quality Control and after Sales Service.</p> <p>Pentagon Switchgear Private Limited offers quality and reliable products to the Utilities and various Industries. We endeavor for excellence in the Electrical Industry through stringent quality measures, latest technology and effective processes. Our vision is to become leading Switchgear Company, globally known for its capabilities to offer best designs and engineering solutions.</p>
----	-----------------	---

- |    |                                      |  |
|----|--------------------------------------|--|
| 03 | Brief about the Students Observation | <ul style="list-style-type: none"> <li>• Students got more knowledge in Assembly section, Insulation section, Coil making section, Testing section and control section.</li> <li>• In Assembly section, Students observed how to manufacture transformer like core type transformer and shell type transformer with proper insulation and more practical knowledge of design of different types of transformer with different rating.</li> <li>• In Insulation section, Students got how to insulate between primary and secondary winding using paper and to minimize eddy current losses and hysteresis losses in transformer.</li> <li>• In coil section, students got which type of core - nickel iron alloy core used and how to make coil winding in transformer core. In testing section, students got output of designed transformer for given input.</li> </ul> |
|----|--------------------------------------|--|


04	Objective of the Industrial visit	<ul style="list-style-type: none"> <li>• To understand the operation of current Transformer &amp; potential transformer.</li> <li>• To acquire the operation of basic single pole vacuum contactor.</li> <li>• To familiarize the operation of load break switch.</li> <li>• To realize the distribution transformers.</li> <li>• To acquaint the knowledge of Compact package sub-Stations from 6.6kV to 33kV and up to 2500kVA</li> </ul>
05	Outcome of the industrial visit	<p>After the completion of industrial visit a student able to</p> <ul style="list-style-type: none"> <li>• connect the current Transformer &amp; potential transformer with transmission line rating from 11kV - 33kV.</li> <li>• explain the structure and working operation of basic 7.2 KV three pole / single pole vacuum contactor that is available with Electrical / Mechanical latch type.</li> <li>• operate the load break switch.</li> <li>• explain the oil immersed distribution transformers rating up to 2000 KVA and voltage rating upto33KV</li> <li>• demonstrate various modules of Indoor / Outdoor type Compact package sub-Stations from 6.6kV to 33kV and up to 2500kVA transformer capacity with HT/LT Switchgear.</li> </ul>
06	Conclusion	<p>Students got more knowledge of design, assembly and working of different rating of transformer like 22KV, 33KV &amp; 132KV distribution transformer, Two phase transformer, auto transformer and applications of transformer in different fields like wind energy generation, steel industry, transmission and distribution.</p>

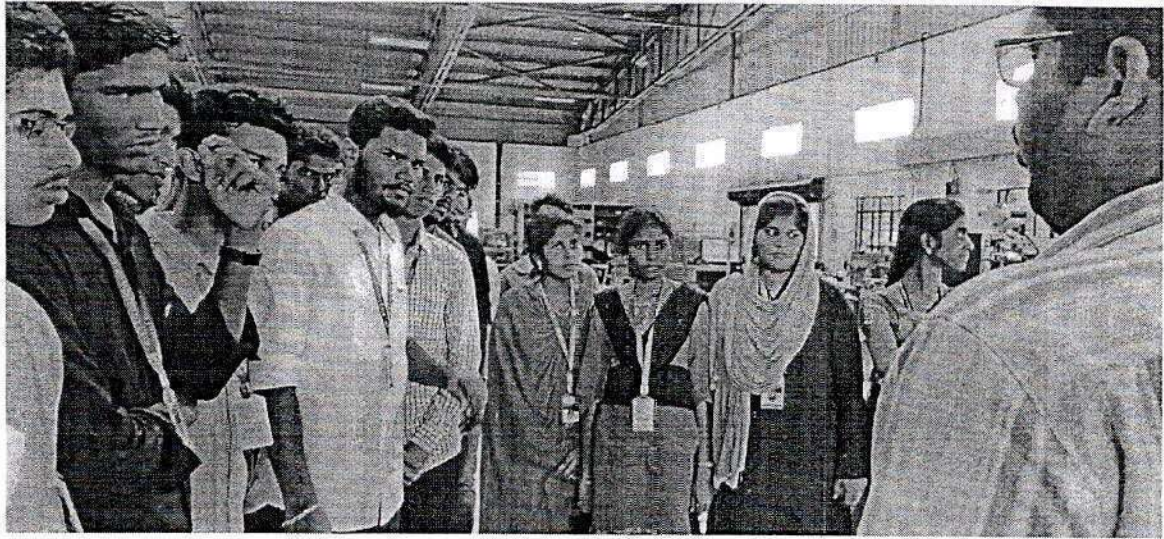
  
 PRINCIPAL  
 MIET ENGINEERING COLLEGE  
 GUNDUR, TIRUCHIRAPALTI - 620 007

07	Attachments (Scanned Photos of the Industrial Visit)	Attached
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**CO, PO and PSO MAPPING**

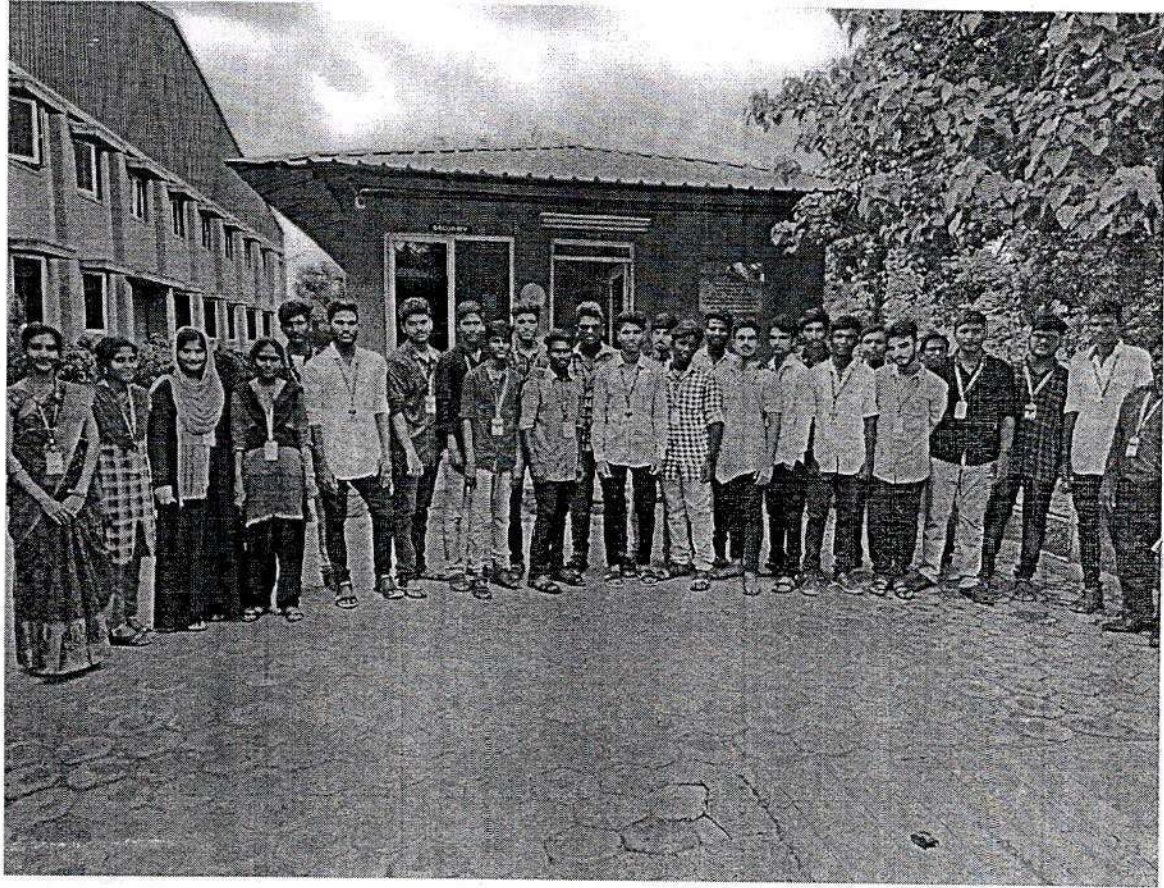
PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO12	PSO 1	PSO 2
H	-	-	-	L	H	L	H	H	-	L	-	H	L

  
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 MIET ENGINEERING COLLEGE  
 SUNDUR, TIRUCHIRAPALI - 620 007

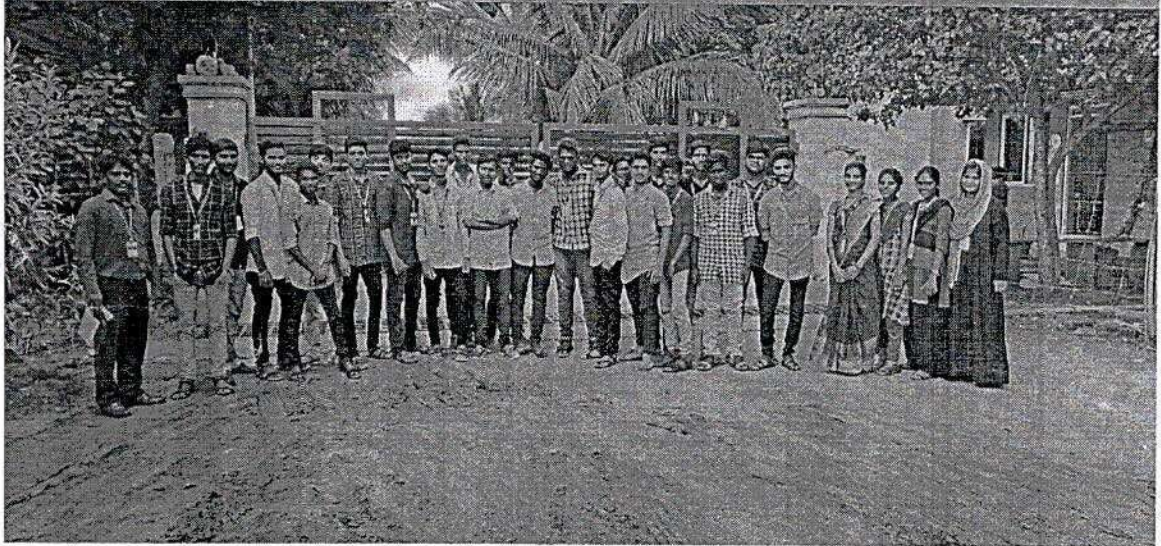
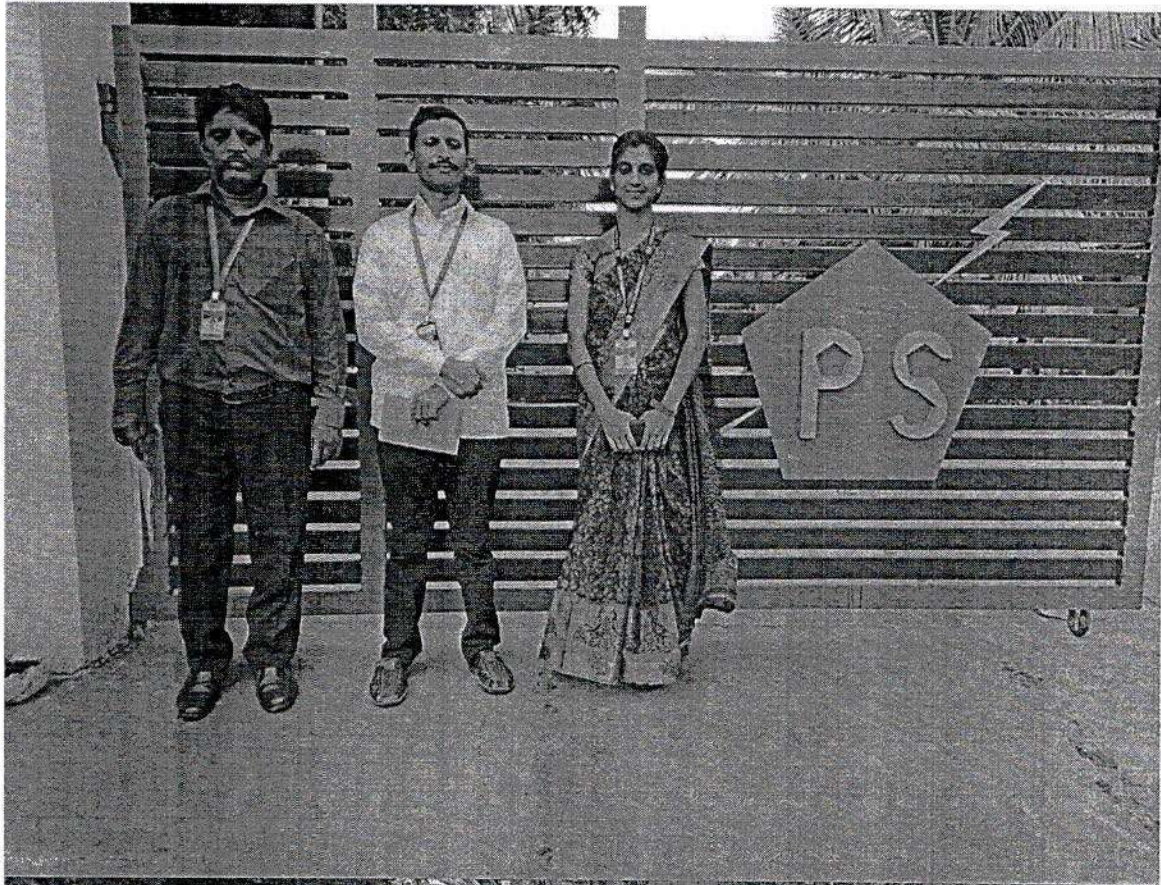


*G. Suresh*  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
SUNDUR, TIRUCHIRAPALI - 620 007





*M. S. S.*  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPALI - 620 007



*A. S. S.*  
PRINCIPAL  
MIET ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPALI - 620 007



# PENTAGON SWITCHGEAR PRIVATE LIMITED

No. 62/1C-4, Kuppepalayam, Sarkar Samakulam Via.,  
Coimbatore - 641 107. Tamilnadu, India.

Landline: 097916 80888, 097897 40444, Mobile: 093611 80888, 093611 40444  
E-mail: info@pentagonswitchgear.in • Web: www.pentagonswitchgearpvtltd.in



PSGPL/LETTER/023/19-20

Date: 22.08.2019

To  
The Principal,  
M.I.E.T Engineering College,  
Tiruchirappalli.

Dear Sir

Sub: Factory visits of BE in Electrical & Electronics Engineering department  
Staffs and Students.

We wish to inform you that, we are manufacturers of HT switchgear products like LBS, VCB, OLI, USS, PCVCB, Instrument Transformers and Distribution Transformers in Coimbatore. The total **25 students** of Second Year **BE in Electrical & Electronics Engineering** and **3 staff** members were visited our factory on 22.08.2019. This is for your kind information.

Thanking you

Your's truly,

For PENTAGON SWITCHGEAR PRIVATE LIMITED,



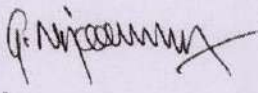
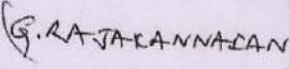

  
PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.


*An Icon of Quality Engineering*

Mfrs. of HT Load Break Switches, Vacuum Circuit Breakers, Off Load Isolators, Vacuum Conductors, Instrument Transformers (Current / Voltage Trf.), Unitized Sub-Stations (USS/CSS), Cast Resin / Oil Cooled Distribution Transformers and all type of HT/LT Control Panels up to 33kV, Authorised OEA for Eicher / TMTL Generating Sets 5kVA to 125kVA etc...

Branches at New Delhi, Secunderabad, Vijayawada, Chennai, Cochin, Trivandrum

**Industrial Visit Feedback form from Industry**

Course & Department	BE & EEE
Sem / Year	III / II Year
Date(s) of Visit and Time	22.08.2019
No. of Students visited	25
Accompanying Staff Members	03
Name & Address of the Company	PENTAGON SWITCHGEAR PRIVATE LIMITED 62/101 to 104, Kuppepalayam, Coimbatore - 641107
Feedback about the students	- Good -
Technical details about the Company	- Manufacturing of HT VCB PANELS. 3.3KV - 33KV Switchgears.
Authorized Signatory with Name / Designation and Seal	  
Any other comments	-

  
**PRINCIPAL**  
 M.I.E.T. ENGINEERING COLLEGE  
 GUNDUR, TIRUCHIRAPPALLI-620 007

# **A MODIFIED SEPIC CONVERTER FOR PHOTOVOLTAIC ENERGY HARVESTING SYSTEM**

**A PROJECT REPORT**

*Submitted by*

<b>ABDULLAH J</b>	<b>812416105001</b>
<b>ARMAN SALIH AHMAD A</b>	<b>812416105005</b>
<b>HAJA NAJIMUDEEN A</b>	<b>812416105018</b>
<b>SAMEER ALI S</b>	<b>812416105050</b>

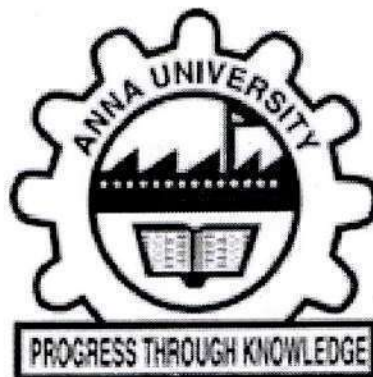
*in partial fulfilment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*

**ELECTRICAL AND ELECTRONICS ENGINEERING**



**M.I.E.T. ENGINEERING COLLEGE, TRICHY**

**ANNA UNIVERSITY :: CHENNAI 600 025**

**SEPTEMBER 2020**

  
PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.

ANNA UNIVERSITY : CHENNAI 600 025

**BONAFIDE CERTIFICATE**

Certified that this project report "A MODIFIED SEPIC CONVERTER FOR PHOTOVOLTAIC ENERGY HARVESTING SYSTEM" is the bonafide work of " ABDULLAH.J (812416105001), ARMAN SALIH AHMAD.A (812416105005), HAJA NAJIMUDEEN.A (812416105018) and SAMEER ALLS(812416105050)" who carried out the project work under my supervision.

  
**SIGNATURE**

Dr.U.SURESHKUMAR, M.E., Ph.D.

**HEAD OF THE DEPARTMENT**

Professor,

Electrical and Electronics Engineering

M.I.E.T. Engineering College,

Trichy-620 007

  
**SIGNATURE**

Mrs.B.MUTHUSELVI, M.E., (Ph.D).

**SUPERVISOR**

Associate Professor,

Electrical and Electronics Engineering

M.I.E.T. Engineering College,

Trichy-620 007

Submitted for the university viva voce held on 22-09-20

  
**INTERNAL EXAMINER**

  
**EXTERNAL EXAMINER**

  
**PRINCIPAL**  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.

## ABSTRACT

A new modified single switch ended primary inductor converter (MS2 – SEPIC) based high step-up DC-DC converter is presented. The proposed topology uses the coupled-inductor (CL) technique and a voltage tripler rectifier which results in a high voltage gain for the converter. The switching loss has been reduced significantly because of the owing to the quasi resonance operation of the circuit created by the leakage inductance of the CL along with circuit capacitors. The main advantage of modified SEPIC converter circuit is that it has a standard gain for a given duty cycle. The operational principles and steady state analysis are discussed. The MS2-SEPIC is interfaced at Dual Input mode with PV system, battery and a resistive load at the output terminal.

## CHAPTER – 8

### CONCLUSION

The MS2-SEPIC converter response was simulated and analyzed using MATLAB Simulink software. A  $100\Omega$  resistive load was used to analyze the output response. A PV module (6V, 14.68A) was connected at the input terminal of the MS2-SEPIC converter and the output response was measured. The irradiance was also varied throughout the simulation time.

The boost factor was found out to be 6.5 with an efficiency of 78.3973%. After simulating this model, a Battery (7.18 V) was used as a backup power supply when the irradiance fell below  $400\text{W}/\text{m}^2$ . An ideal switch was used to facilitate the switch from PV to battery during low irradiance period and again back to PV when irradiance increased. The boost factor was found out to be around 3.6. The efficiency was calculated to be 84.19%.

The entire simulation was carried out with the circuit components being chosen from the Simscape library employing physical signals.

Modified SEPIC converter with magnetic coupling is the most advanced scheme in order to achieve a very high static gain for low input voltage and high output voltage applications. The main advantage of modified SEPIC converter circuit is that it has a standard gain for a given duty cycle.



13.09.2019

From

Azaraf Ali. A (E1182016)  
Class representative/ II year-A Sec  
Department of Mechanical Engineering  
MIET Engineering college  
Trichy-07.

To

The chairman  
MIET Educational Institutions  
Trichy-07

Through the principal,

Respected madam,

Sub: Requesting permission for Industrial visit – reg.

As a part of our curriculum, we are II year -A Sec students of Mechanical Engineering would like to go for an Industrial visit to ICC FORGE, Shed, No-96, SIDCO Industrial Estate, Malumichampatti, Coimbatore on 25/9/2019 . So kindly request you to permit us for the same.


Thanking you,

Yours obediently,

  
(Azaraf Ali. A)

  
Industrial visit co-ordinator/Mech

  
HOD

  
PRINCIPAL

  
PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.



# M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai.)

CSE, EEE & MECH Programs Accredited by NBA, New Delhi.

TRICHY-PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI - 620 007.

Email : principalengg@miet.edu, contact@miet.edu

Website :- www.miet.edu

Ph : 0431 - 2660 303

Dr. X. SUSAN CHRISTINA, M.E., Ph.D.,

Principal

Date :

Date: 20.09.2019

To


ICC FORGE,  
Shed No-96,  
SIDCO Industrial Estate,  
Malumichampatti,  
Coimbatore-641050.

## TO WHOM SOEVER IT MAY CONCERN

This is to certify that the following list of names is Bonafide Students of this institution studying in II Year of Mechanical Engineering Department of our college with the strength of 38 students along with 2 staff members to undergo industrial visit in your organization on 25<sup>th</sup> September 2019.

  
PRINCIPAL

PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.

  
PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.

MIET ENGINEERING COLLEGE		
DEPARTMENT OF Mechanical Engineering		
2ND YEAR MECHANICAL SECTION -B		
Willing -Student List for Industrial Visit - 24.09.2019		
S.No	ROLL NO	Name
1	E1182038	Mohamed Absar. M
2	E1182039	Mohamed Anas Aliyar Abdulla. A
3	E1182041	Mohamed Azharudeen. S
4	E1182043	Mohamed Ismail. J
5	E1182046	Mohamed Risvan. N
6	E1182049	Mohammed Thoufik. HM
7	E1182050	Mufeeth Ahamed. M
8	E1182051	Naina Mohamed. J
9	E1182052	Nanthakumar. K
10	E1182055	Pravinraj. R
11	E1182057	Riyas Mohamed. S
12	E1182058	Santhosh. E
13	E1182059	Sathish. M
14	E1182060	Sathish Kumar. J
15	E1182063	Shanawas. S
16	E1182065	Sivaganesh. M
17	E1182067	Thanzeel Ali. H
18	E1182068	Umar Batcha. S
19	E1182069	Umar Faruk Hussain. J
20	E1182070	Vasanthan. K
21	E1182071	Vimalraj. R
22	E1182072	Vincent Pudhumai Raj. C
23	E1182073	Vishnu. R
24	E2192074	Abinesh. S
25	E2192077	Balamurugan. N
26	E2192082	Harish. K
27	E2192083	Jayakumar. S
28	E2192084	Kalil. U
29	E2192088	Mohamed Yaazar. A
30	E2192089	Mohanraj. TG
31	E2192090	Nevinraj. A
32	E2192091	Novel. A
33	E2192092	Praveen. R
34	E2192093	Ranjith. U
35	E2192094	Rexpatrick. B
36	E2192101	Syed Faizal. S
37	E2192102	Vijay Kaviyaran. V
38	E3182103	Balaji. M


  
HOD/MECH

  
PRINCIPAL

  
PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.

## REPORT ON ONE DAY INDUSTRIAL VISIT

Name of the Industry : ICC FORGE,  
Place of Visit : SIDCO Industrial Estate,Coimbatore  
Date of Visit : 25.09.19


  
PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.

An Industrial Visit to ICC – Forging division, Malumichampatti, Coimbatore, was organized by the Industrial Visit Coordinator of the Mechanical Engineering Department, **Mr. MANIKANDAN E (Assistant Professor, Dept. of ME)**.

On receiving the letter of invitation from **Mr. K P Kanagarajan (Admin Manager)**, ICC – Forging division, Malumichampatti, Coimbatore, the students of 3rd Semester from Mechanical Engineering, enrolled into this program, and undertook the Industrial Visit to ICC – Forging division, Malumichampatti, Coimbatore, Tamilnadu, on Sep 25, 2019. 41 students of Mechanical engineering II – “A” students, accompanied by **Mr. S SenthilKumar**, Assistant Professor, Dept. of Mechanical Engineering, and **Mr. V Nagarajan**, Assistant Professor, Dept. of Mechanical Engineering, assembled in the college at 11:30 PM on 24.09.2019 and proceeded to the destination by Private Travels.

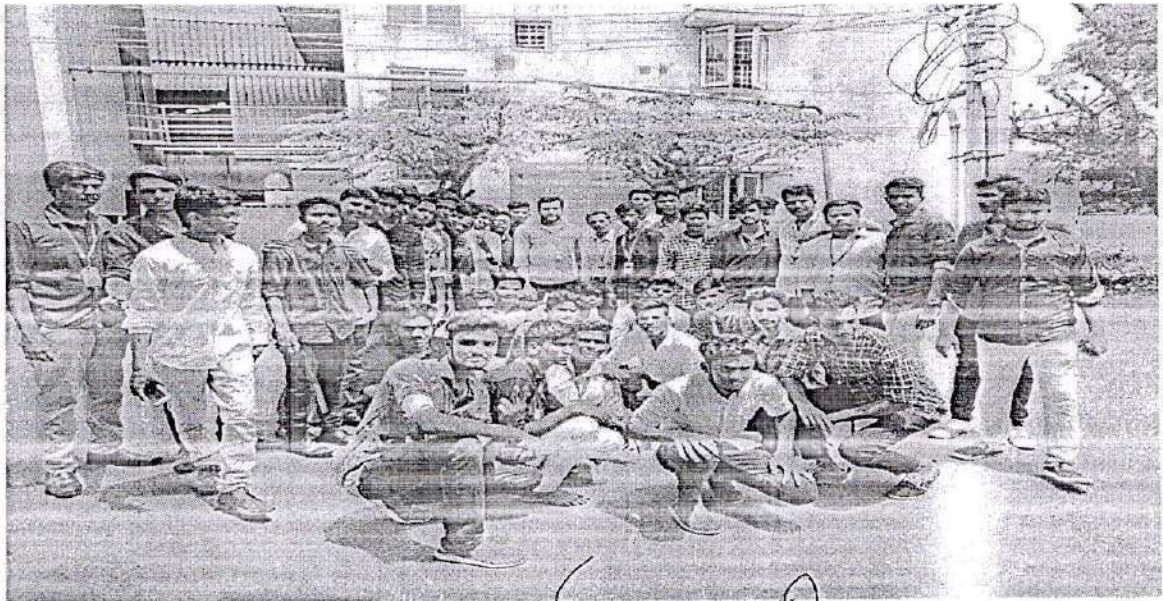
We reached **ICC – Forging division** at 10:00 am on 25.09.2019, and were received by a staff member who guided us to the conference hall, where the students and the faculty members were welcomed by **Mr. K P Kanagarajan (Admin Manager)**, ICC – Forging division. He gave us a briefing regarding the program & the schedule for the day. After refreshment, he started the session by talking to the students about the industry expectations from fresh graduates. He guided the students to be prepared for the road ahead, by detailing some self learning methods. He discussed the topics on Forging, Testing, and Assembly & explained in details about its advantages and its extensive use in today’s world. He also gave us some inputs on the industrial safety. He encouraged the students to work towards their goals, and stressed on the importance of young minds for the development of the country.

After this session, we were taken to workshop, ICC-Forging division. Explanation on its various components and their maintenance system was given to the students, by the Staff members, ICC-Forging division. It was a nice experience. The ICC-Forging division, Tamilnadu is a well maintained one, & we loved it. At 1:30 pm, the session came to a close, & we met **Mr. K P Kanagarajan (Admin Manager)**, ICC – Forging division, Malumichampatti, Coimbatore, in his office room, he welcomed us and we shared our thoughts about learning session. Once again, we express our heartfelt gratitude to the met **Mr. K P Kanagarajan**. We are also thankful to your staff members, ICC-Forging division, who guided us. It was a great learning experience.

  
**PRINCIPAL**  
**M.I.E.T. ENGINEERING COLLEGE**  
**GUNDUR, TIRUCHIRAPPALLI-620 007.**

**Outcome of the Event:**

The students understood the concept of Forging process and the importance of responsibility of young minds for country development. The students saw the various machining process used by ICC-Forging division, and gained knowledge about Forging, Industry expectation and industrial safety.



*A. P. K. K. K. K. K.*  
Signature of the  
Coordinator

*[Handwritten Signature]*  
HoD / Signature

*[Handwritten Signature]*  
HoD / T&P

*[Handwritten Signature]*  
Principal

*[Handwritten Signature]*  
PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.

14.09.2019

From

Syed Faizal C (E219102)  
Class representative/ II year-B Sec  
Department of Mechanical Engineering  
MIET Engineering college  
Trichy-07.

To

The chairman  
MIET Educational Institutions  
Trichy-07

Through the principal,

Respected madam,

Sub: Requesting permission for Industrial visit – reg.

As a part of our curriculum, we are II year -B Sec students of Mechanical Engineering would like to go for an Industrial visit to ICC FORGE, Shed No-96, SIDCO Industrial Estate, Malumichampatti, Coimbatore on 24/9/2019 . So kindly request you to permit us for the same.

Thanking you,

Yours obediently,

*Syed Faizal C*  
(Syed Faizal C)

*E. Anitha Kumar*  
Industrial visit co-ordinator/Mech

*[Signature]*

*[Signature]*  
PRINCIPAL

*[Signature]*  
PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.



# M.I.E.T. ENGINEERING COLLEGE

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Email : principalengg@miet.edu, contact@miet.edu  
Website :- www.miet.edu

Ph : 0431 - 2660 303

Dr. X. SUSAN CHRISTINA, M.E., Ph.D.,  
Principal


Date :  
Date: 20.09.2019

To

ICC FORGE,  
Shed No-96,  
SIDCO Industrial Estate,  
Malumichampatti,  
Coimbatore-641050.

## TO WHOM SOEVER IT MAY CONCERN

This is to certify that the following list of names is Bonafide Students of this institution studying in II Year of Mechanical Engineering Department of our college with the strength of 41 students along with 2 staff members to undergo industrial visit in your organization on 24<sup>th</sup> September 2019.

  
PRINCIPAL

PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007


  
PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007



MIET ENGINEERING COLLEGE DEPARTMENT OF Mechanical Engineering 2ND YEAR MECHANICAL SECTION -A Willing -Student List for Industrial Visit - 25.09.2019		
S.No	ROLL NO	Name
1	E1182001	Abdul Rahman. S
2	E1182002	Adhilahamed. Y
3	E1182004	Ajay Kishore. B
4	E1182005	Ajay Prakash. B
5	E1182007	Akash. S
6	E1182008	Akash. T
7	E1182010	Ameerdeen. S
8	E1182012	Arun. N
9	E1182013	Arun Raj. S
10	E1182014	Ashfaq Ahamed. M
11	E1182015	Ashok. K
12	E1182016	Azaraf Ali. A
13	E1182017	Bava Baqurudeen. S
14	E1182019	Dawood Sherif. M
15	E1182020	Delsin Raj. A
16	E1182023	Fasith Ali. B
17	E1182024	Fazil Ahamed. S
18	E1182025	Guhan. J
19	E1182026	Guhan. M
20	E1182028	Halideen. B
21	E1182029	Hariharan. K
22	E1182030	Harinam. P
23	E1182031	Imrankhan. A
24	E1182033	Livin Kumar. B
25	E1182035	Manoj Kumar. M
26	E1182036	Mathavan. P
27	E1182037	Meera Mohamed. A
28	E2192075	Arshath Khan. J
29	E2192076	Balachandar. N
30	E2192078	Cyprien Paul Clament. S
31	E2192080	Elamvazhuthi. S
32	E2192081	Hariprakash. G
33	E2192085	Karthick. R
34	E2192086	Marvin. K
35	E2192087	Mohamed Muzammil. M
36	E2192095	Sajid Ahamed. AZ
37	E2192096	Sakthivel. P
38	E2192097	Sam. S
39	E2192098	Santhosh Kumar. B
40	E2192099	Sathish. K
41	E2192100	Sivaprakash. T

  
HOD/MECH

  
PRINCIPAL

  
PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.

## REPORT ON ONE DAY INDUSTRIAL VISIT

Name of the Industry : ICC FORGE,  
Place of Visit :SIDCO Industrial Estate, Coimbatore  
Date of Visit : 24.09.19


  
PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007

An Industrial Visit to ICC – Forging division, Malumichampatti, Coimbatore, was organized by the Industrial Visit Coordinator of the Mechanical Engineering Department, **Mr. MANIKANDAN E (Assistant Professor, Dept. of ME)**.

On receiving the letter of invitation from **Mr. K P Kanagarajan (Admin Manager)**, ICC – Forging division, Malumichampatti, Coimbatore, the students of 3rd Semester from Mechanical Engineering, enrolled into this program, and undertook the Industrial Visit to ICC – Forging division, Malumichampatti, Coimbatore, Tamilnadu, on Sep 24, 2019. 38 students of Mechanical engineering II – “B” students, accompanied by **Mr. J Prince Jerome Christopher**, Assistant Professor, Dept. of Mechanical Engineering, and **Mr. K Lakshmana Babu**, Assistant Professor, Dept. of Mechanical Engineering, assembled in the college at 11:00 PM on 23.09.2019 and proceeded to the destination by Private Travels.

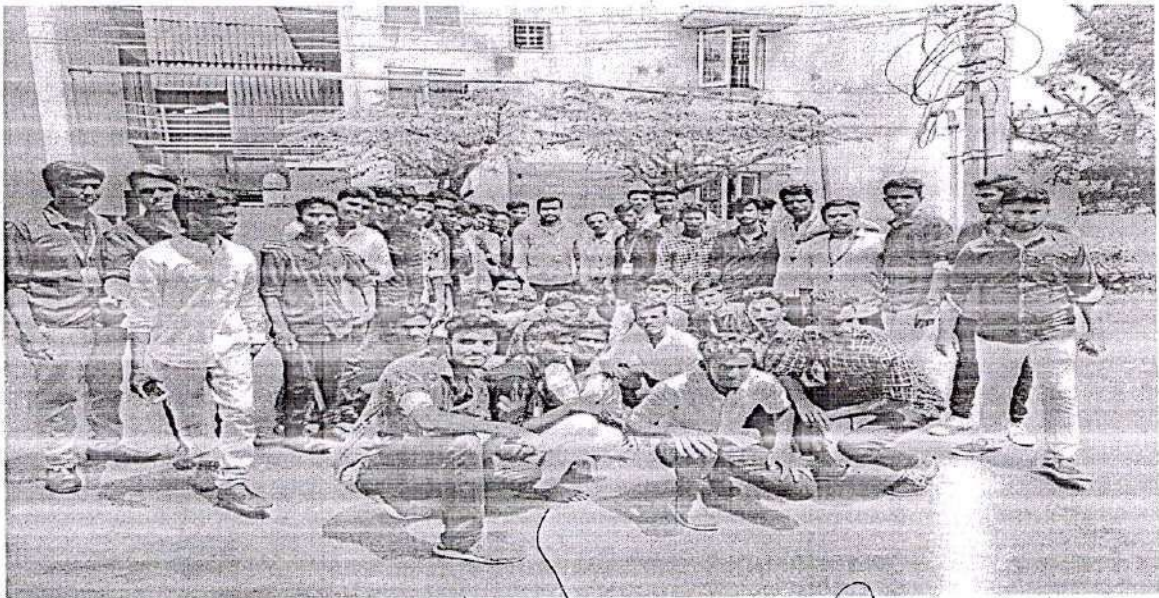
We reached ICC – Forging division at 10:00 am on 24.09.2019, and were received by a staff member who guided us to the conference hall, where the students and the faculty members were welcomed by **Mr. K P Kanagarajan (Admin Manager)**, ICC – Forging division. He gave us a briefing regarding the program & the schedule for the day. After refreshment, he started the session by talking to the students about the industry expectations from fresh graduates. He guided the students to be prepared for the road ahead, by detailing some self learning methods. He discussed the topics on Forging, Testing, and Assembly & explained in details about its advantages and its extensive use in today’s world. He also gave us some inputs on the industrial safety. He encouraged the students to work towards their goals, and stressed on the importance of young minds for the development of the country.

After this session, we were taken to workshop, ICC-Forging division. Explanation on its various components and their maintenance system was given to the students, by the Staff members, ICC-Forging division. It was a nice experience. The ICC-Forging division, Tamilnadu is a well maintained one, & we loved it. At 1:30 pm, the session came to a close, & we met **Mr. K P Kanagarajan (Admin Manager)**, ICC – Forging division, Malumichampatti, Coimbatore, in his office room, he welcomed us and we shared our thoughts about learning session. Once again, we express our heartfelt gratitude to the met **Mr. K P Kanagarajan**. We are also thankful to your staff members, ICC-Forging division, who guided us. It was a great learning experience.

  
**PRINCIPAL**  
**M.I.E.T. ENGINEERING COLLEGE**  
**GUNDUR, TIRUCHIRAPPALLI-620 007.**

**Outcome of the Event:**

The students understood the concept of Forging process and the importance of responsibility of young minds for country development. The students saw the various machining process used by ICC-Forging division, and gained knowledge about Forging, Industry expectation and industrial safety.



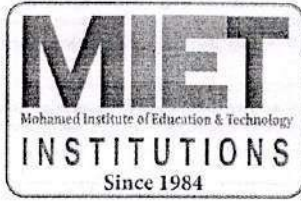
*E. Krishna Kumar*  
Signature of the  
Coordinator

*Lehona*  
HoD / Signature

*HoD / T&P*  
HoD / T&P

*Principal*  
Principal

*Principal*  
PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.



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Email : principalengg@miet.edu, contact@miet.edu

Website :- www.miet.edu

Ph : 0431 - 2660 303

Dr. X. SUSAN CHRISTINA, M.E., Ph.D.,  
Principal

Date :

Date: 20.09.2019

To

IREL,  
Manavalakurichi,  
Kanyakumari - 629252.

## TO WHOM SOEVER IT MAY CONCERN

This is to certify that the following list of names is Bonafide Students of this institution studying in III Year of Mechanical Engineering Department of our college with the strength of 46 students along with 2 staff members to undergo industrial visit in your organization on 1<sup>st</sup> October 2019

~~PRINCIPAL~~

PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.

  
PRINCIPAL

M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.

MIET ENGINEERING COLLEGE		
DEPARTMENT OF Mechanical Engineering		
IIIIRD YEAR MECHANICAL SECTION -A		
Willing -Student List for Industrial Visit - 01.10.2019		
S.No	ROLL NO	Name
1	E1172001	Abdul Ajees. S
2	E1172003	Abdulbagath. B
3	E1172007	Abdul Rahman. A
4	E1172008	Abubaker Siddik. P
5	E1172010	Ahamed Subair. K
6	E1172011	Akash. R
7	E1172013	Akbar Ali. A
8	E1172016	Antony Bright Sun. P
9	E1172017	Antonypraveen. J
10	E1172020	Arulkabiriyal. M
11	E1172021	Arun Kumar. V
12	E1172023	Arun Kumar. M
13	E1172024	Bala Murugan. J
14	E1172025	Basheer Ahamed. A
15	E1172026	Benedict. A
16	E1172027	Bharath. R
17	E1172028	Bharathi. N
18	E1172030	Chandran. C
19	E1172031	Christober. P
20	E1172032	Deepan. V
21	E1172034	Dhinesh. P.K
22	E1172037	Faizudeen. H
23	E1172038	Felix Prabhakar. M
24	E1172039	Haja Kamaludeen. G
25	E1172041	Harishkumar. R
26	E1172045	Jafar Sharif. R
27	E1172046	Jafer Sait. A
28	E1172047	Jakir Hussain. A
29	E1172048	Jamaludheen. S
30	E1172050	John Ezekiah. D
31	E1172051	Kabilan. R
32	E1172052	Kabilan. KB
33	E1172053	Kalaivanan. R
34	E1172055	Kamalesh. M
35	E1172056	Kamal Kishore. M
36	E1172057	Karan K (13.03.2000 ). K
37	E1172058	Karan K (10.05.2000 ). K
38	E3152192	Surender. M
39	E3172193	Nithish Kumar. M
40	E2182168	Abdul Rahuman. T
41	E2182174	Kirubakar. M
42	E2182181	Naveen. A
43	E2182183	Ragul. R
44	E2182185	Rajavel. K
45	E2182186	Rasith Ahamed. S
46	E3172192	Jaser Ahamed. N


HOD/MECH

PRINCIPAL

PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.

## REPORT ON ONE DAY INDUSTRIAL VISIT

Name of the Industry : IREL, Manavalakurichi,  
Place of Visit : Kanyakumari  
Date of Visit : 01.10.19

  
PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.

An Industrial Visit to Indian Rare Earths Limited (IREL), Manavalakurichi, TamilNadu was organized by the Industrial Visit Coordinator of the Mechanical Engineering Department, **Mr. MANIKANDAN E (Assistant Professor, Dept. of ME)**.

On receiving the letter of invitation from **Mr. S. Sudarshan Kumar, DGM (HRM)**, Manavalakurichi, IREL, the students of 5th Semester from Mechanical Engineering, enrolled into this program, and undertook the Industrial Visit to 'Indian Rare Earths Limited (IREL), Manavalakurichi, TamilNadu, on Oct 01, 2019. 40 students of Mechanical engineering III – "A" students, accompanied by **Mr. M Dhandayudhabani**, Associate Professor, Dept. of Mechanical Engineering and **Mr. E Manikandan**, Assistant Professor, Dept. of Mechanical Engineering, assembled in the college at 9:00 PM on 30.09.2019 and proceeded to the destination by Private Travels.

We reached IREL at 09:30 am on 01.10.2019, and were received by a staff member who guided us to the conference hall, where the students and the faculty members were welcomed by **Mr. Binu Balakrishnan, Deputy Manager (HRM), IREL**. He gave us a briefing regarding the program & the schedule for the day. After some refreshments, he started the session by talking to the students about the industry expectations from fresh graduates. He guided the students to be prepared for the road ahead, by detailing some self learning methods. He introduced Rare earth minerals & explained in details about its advantages and its extensive use in today's world. He also gave us some inputs on the industrial safety. He encouraged the students to work towards their goals, and stressed on the importance of young minds for the development of the country.

After this session, we were taken to workshop, IREL. Explanation on its various components and their maintenance system was given to the students, by the Staff members, IREL. It was a nice experience. The IREL, Tamilnadu is a green & well maintained one, & we loved it. At 2:00 pm, the session came to a close, & we met **Mr. S Sudarshan Kumar, Deputy General Manager (HRM), IREL**, in his office room, he welcomed us and we shared our thoughts about learning session. Once again, we express our heartfelt gratitude to the **Mr. S Sudarshan Kumar**. We are also thankful to your staff members, IREL, who guided us. It was a great learning experience.

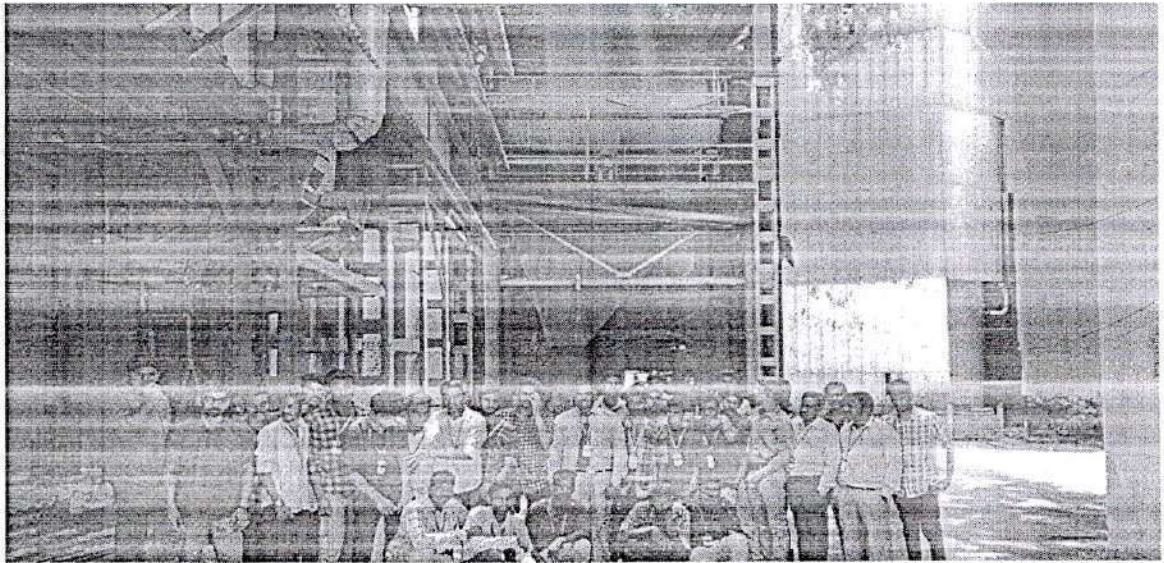
  
**PRINCIPAL**

**M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.**



**Outcome of the Event:**

The students understood the concept of how the Minerals collected and segregated from earth, can be turned into real-time application. The students saw the various machining process used by IREL, and gained knowledge about Minerals collection, Industry expectation and industrial safety.



*E. Anandakumar*  
Signature of the  
Coordinator

HOD / Signature

*[Signature]*  
HoD / T&P

*[Signature]*  
Principal

*[Signature]*  
**PRINCIPAL**  
**M.I.E.T. ENGINEERING COLLEGE**  
**GUNDUR,,TIRUCHIRAPPALLI-620 007.**



**KPR**  
SCHOOL OF BUSINESS  
KPR Knowledge City  
Arasur, Coimbatore - 641 407.

ONE DAY PROGRAMME ON  
PROCESS APPROACH TOWARDS  
**QUALITY &  
QUALITY MANAGEMENT  
SYSTEMS**

Mr/Ms FATHIMA FARVEEN

M.I.E.T Engineering College, Trichy


has participated in One Day Programme on

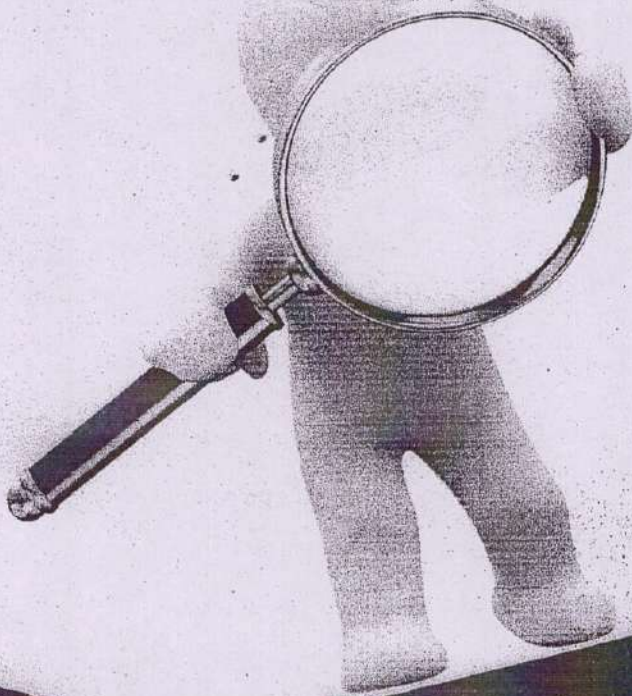
Process Approach Towards Quality & Quality Management Systems

held on 12th June 2019

  
PRINCIPAL

M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 087.

  
Director



**KPR**  
SCHOOL OF BUSINESS  
KPR Knowledge City  
Arasur, Coimbatore - 641 407.

ONE DAY PROGRAMME ON  
PROCESS APPROACH TOWARDS  
**QUALITY &**  
QUALITY MANAGEMENT  
**SYSTEMS**

Mr/Ms K. PASUPATHY

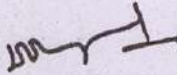
M.I.E.T Engineering College, Trichy

has participated in One Day Programme on

Process Approach Towards Quality & Quality Management Systems

held on 12th June 2019

  
PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.

  
Director



# KPR

SCHOOL OF BUSINESS

KPR Knowledge City

Arasur, Coimbatore - 641 407.

ONE DAY PROGRAMME ON  
PROCESS APPROACH TOWARDS  
**QUALITY &  
QUALITY MANAGEMENT  
SYSTEMS**

Mr/Ms R. SWETHA


M.I.E.T Engineering College, Trichy

has participated in One Day Programme on

Process Approach Towards Quality & Quality Management Systems

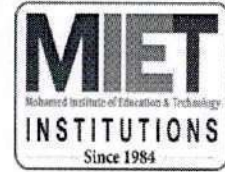
held on 12th June 2010

  
PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.

  
Director



**“A STUDY ON CUSTOMER  
PERCEPTION WITH SPECIAL REFERENCE  
TOWARDS  
ROYAL ENFIELD, TRICHY”**



**A PROJECT REPORT**

*Submitted by*

**MOHAMED ELIYAS.A**

**Reg. No.: 812418631020**

*In partial fulfillment for the award of the degree*

*of*

**MASTER OF BUSINESS ADMINISTRATION**

**In**

**M.I.E.T. ENGINEERING COLLEGE**

(Approved by AICTE and Affiliated to Anna University Chennai)  
TRICHY – PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI – 620 007

**DEPARTMENT OF MANAGEMENT STUDIES**

**JUNE – 2020**

**i**

*A. S. S.*  
**PRINCIPAL**  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.



## M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE and Affiliated to Anna University Chennai)  
TRICHY – PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI – 620  
007

### DEPARTMENT OF MANAGEMENT STUDIES

#### BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON CUSTOMER PERCEPTION WITH SPECIAL REFERENCE TOWARDS ROYAL ENFEILD IN TRICHY", is the bonafide work of MOHAMED ELIYAS.A (Reg. No 812418631020) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation or project on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

Signature of the Supervisor with date

Mr.G.SATHISH KUMAR

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## ABSTRACT

An employee has an important role in the industrial production of the country. The personnel management really concern with the management of the people at work management is an art of getting work done by the people. Therefore, it is very necessary to seek the co-operation of the employees force in order to increase the production and to earn higher profits.

The Co-operation of employees is possible only when they are fully satisfied with their employer and the working conditions on the job. Which is very essential to seek the Co-Operation of the employees for this purpose, provision of better conditions of work like suitable temperature adequate lighting and in general a pleasant atmosphere is very necessary to get them to realize that the management thinks of their welfare.

Such welfare activities benefit not only the workers but also the management in the from the greater productive efficiency. Today progressive managers realize that these welfare facilities pay a good divided in the long-run, for they contribute in a large degree towards the health and efficiency of the workers and towards a high morale.

Labour welfare defined as efforts to make life worth living for workmen. Labor welfare entails all those activities of employer which are directed towards providing the employees with certain facilities and services in addition to wages or salaries.

  
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**Conclusion:**

After interacting with the marketing officer and other employees of Royal Enfield and the survey I made in Trichy city, Royal Enfield adulteration, lack of loyal retailers and unethical competitors who use harmful chemicals to increase thickness and durability to promote sales are the big threat to the Royal Enfield. Although still Royal Enfield is having good reputation and brand image for its factors like less price, health conscious and experienced player in the market.



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**A STUDY ON STRESS MANAGEMENT OF EMPLOYEE IN  
OPAL ENERGY SOLUTIONS PVT LTD, CHENNAI.**

**A PROJECT REPORT**

*Submitted by*

**A. VIJAYALAKSHMI**

**Reg. No.: 812418631038**

*In partial fulfillment for the award of the degree*

*of*

**MASTER OF BUSINESS ADMINISTRATION**

**In**

**M.I.E.T. ENGINEERING COLLEGE**

(Approved by AICTE and Affiliated to Anna University Chennai)

**TRICHY – PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI – 620 007**

**DEPARTMENT OF MANAGEMENT STUDIES**

**JUNE- 2020**

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## DEPARTMENT OF MANAGEMENT STUDIES

### BONAFIDE CERTIFICATE

Certified that this project titled “**THE STUDY ON STRESS MANAGEMENT OF EMPLOYEE IN OPAL ENERGY SOLUTIONS PVT LTD, CHENNAI**” Is the bonafide work **A.VIJAYALAKSHMI (Reg. No:812418631038)** who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation or project on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

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## ABSTRACT

Effective techniques for stress management are varied. They typically include behaviours that improve physical health, such as nutrition and exercise, but may also incorporate strategies that improve cognitive and emotional functioning. The stress reduction approach based on mindfulness practices has recently enjoyed an explosion of interest from a variety of healthcare and epidemiological researchers.

The concept of mindfulness, which originates from practices of Buddhism, is defined as a focused awareness of one's experience, and purposeful and nonjudgmental focus on the present moment. Structured interventions such as the Mindfulness Based Stress Reduction (MBSR) program, provide participants with the opportunity to learn breathing meditation, body scanning techniques, and gentle, Yoga-inspired physical exercises with practice, individuals learn to process emotions, thoughts, and sensations as they arise. Individuals learn to modify their reflexive conditioning from automatically reacting or worrying about the future to a more adaptive, measured response with greater awareness of the present moment.

The literature is replete with evidence suggesting that, with practice, individuals can become more mindful, increasing their capacity to fully process emotions, thoughts, and sensations as they arise. MSBR interventions have been adapted to a wide variety of individuals, from those suffering from chronic or debilitating health conditions to healthy undergraduate or medical students. Randomized controlled trials of MSBR interventions have demonstrated improvements to psychological and physiological processes with relevance to health outcomes and improved stress management.

employees.

- The management should change the training methods in accordance with the present situation.
- The management should setup committee for handling grievances and solve the problem immediately.
- The management should provide career opportunities to enhance the skills in present situation.
- The management should assure the safety of the employees and also providing tools to the employees for safety.
- To give should create awareness among the employees.
- The management should create awareness among the employees.
- The management should periodically change the job within the organisation or change the place in desire of the employees.

#### 4.3 CONCLUSION

There remains much debate about the nature of stress, its determinants and the best way to deal with it in an occupational setting. There are no simple answers because we are dealing with individuals and their perceptions and feelings and there are many confounding factors. A further complication is the rate of change in the HR sector, making it more difficult to make any longer term comparisons. The way people are managed and supported plays a critical role in how people feel and respond to their occupational setting which firmly links any action to the HR function. Process in a rapidly changing and evolving environment. The understanding and evidence base is evolving and we do not predict a steady state in the foreseeable future. Although prevention is always better than cure there remains a significant continuing need for support for staff. The very existence of support in itself a factor affecting perception of staff.