



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
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ACCREDITED BY NAAC and Recognized under 2(f) & 12 (b) by UGC, New Delhi)
Tamaram(Village), Makavarapalem(Mandal), Visakhapatnam-531113

**COLLABORATIVE INDUSTRIAL VISITS OF AIET
ACADEMIC YEAR
2018-19**


DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

S No	Name Of The Industry Visited	Batch/Class	Date	No of Students Visited
1	ETIKOPPAKA SUGAR FACTORY, ETIKOPPAKA	II B.TECH-EEE STUDENTS	08/02/2019	52
2	HYDRO ELECTRIC POWER PLANT, UPPER SILERU	IV B.TECH-EEE STUDENTS	08/01/2019	55
3	220KV SUB STATION, GAJUWAKA	II & III B.TECH-EEE STUDENTS	20/09/2018	75
4	HINDUSTAN SHIPYARD, VISAKHAPATNAM	III B.TECH-EEE STUDENTS	08/09/2018	43
5	33/11KV SUB STATION, MAKAVARAPALEM	II B.TECH-EEE STUDENTS	07/09/2018	52


Coordinator


Principal

Avanthi Institute of Engg. & Technology
Tamaram, Makavarapalem Md.,
Visakhapatnam District, Pin-531113


HOD
Head of the Department
Department of Electrical & Electronics Engg.
Avanthi Institute of Engg & Tech.
Makavarapalem, Visakhapatnam - 531113.



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

REPORT ON INDUSTRIAL VISIT

33/11 KV SUBSTATION, MAKAVARAPALEM

DATE: 07-09-2018

SECTION: II YEAR – EEE

TOTAL STUDENTS: 52

EVENT: Industrial Visit

Faculty Coordinators:

- 1) U Anjaiah, Asst.Prof.
- 2) P Varahala Dora, Asst.Prof.

EVENT DESCRIPTION: An industrial visit has been organized by department of Electrical and Electronics Engineering for II-year students on 07th September 2018.


The main objective of the visit was to provide a technical exposure to the students about the manufacturing process and technology. Total 52 students of II-year EEE visited 33/11 KV Substation Makavarapalem.

SESSION ACTIVITIES: The students were accompanied by 2 faculty members. The buses with students have started from our college at 10.30 AM on 07th September 2018 and reached the 33/11 KV Substation Makavarapalem by 10:45 AM.

ABOUT 33/11 KV SUBSTATION, MAKAVARAPALEM

33/11 KV Substation Makavarapalem A substation is a part of an electrical generation transmission, and distribution system. Substations transform voltage from high to low, or the reverse, or perform any of several other important functions. Between the generating station and consumer, electric power may flow through several substations at different voltage levels. 33/11 KV SUBSTATION is located at Makavarapalem, Visakhapatnam-531113


Coordinator


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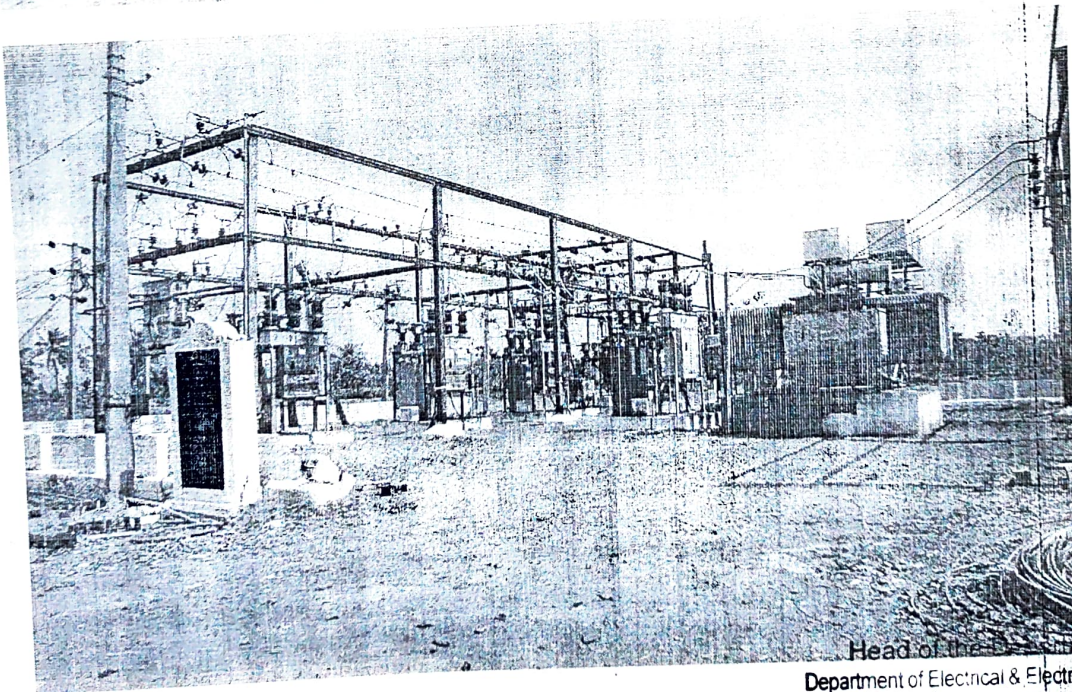
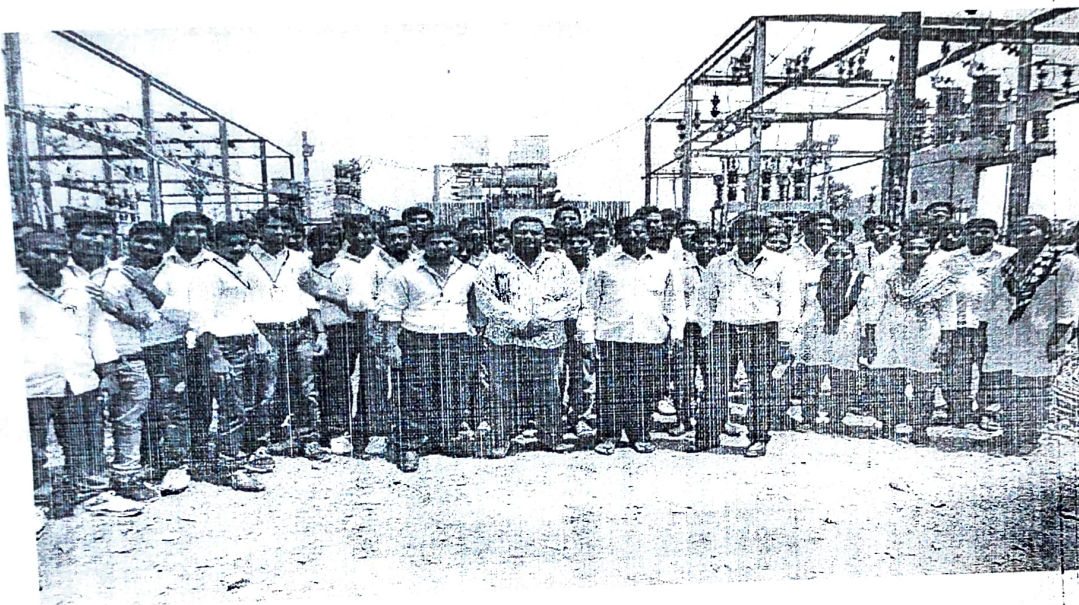
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Year: II B Tech EEE

Date: 07-09-2018

Name of the Industry: 33/11 KV Sub-Station MAKAVARAPALEM

Name of the Faculty: 1. U ANJIAH, Assistant Professor
2. P.VARAHALA DORA, Assistant Professor



Head of the Department
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Signature

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REPORT ON INDUSTRIAL VISIT

220 KV SUBSTATION, GAJUWAKA

DATE: 20-09-2018

SECTION: II & III YEAR -EEE

TOTAL STUDENTS: 75

EVENT: Industrial Visit

Faculty Coordinators:

1) M JayaRaju, Asst.Prof.

2) R Ganesh, Asst.Prof.

EVENT DESCRIPTION: An industrial visit has been organized by department of Electrical and Electronics Engineering for II & III-year students on 20th September 2018.


The main objective of the visit was to provide a technical exposure to the students about the manufacturing process and technology. Total 75 students of II & III-year EEE visited 220 KV Substation Gajuwaka.

SESSION ACTIVITIES: The students were accompanied by 2 faculty members. The buses with students have started from our college at 09.30 AM on 20th September 2018 and reached the 220 KV Substation Gajuwaka by 10:30 AM.

ABOUT 220 KV Substation Gajuwaka:

220 KV Substation Gajuwaka A substations is a part of an electrical generation transmission, and distribution system. Substations transform voltage from high to low, or the reverse, or perform any of several other important functions. Between the generating station and consumer, electric power may flow through several substations at different voltage levels. 220 KV SUBSTATION is located at Auto Nagar, Gajuwaka, Visakhapatnam-530026


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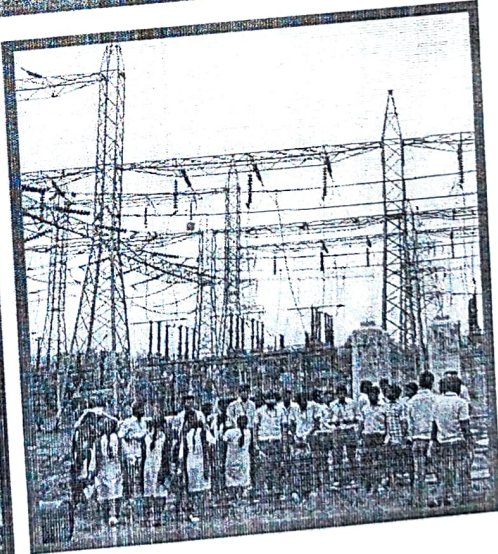
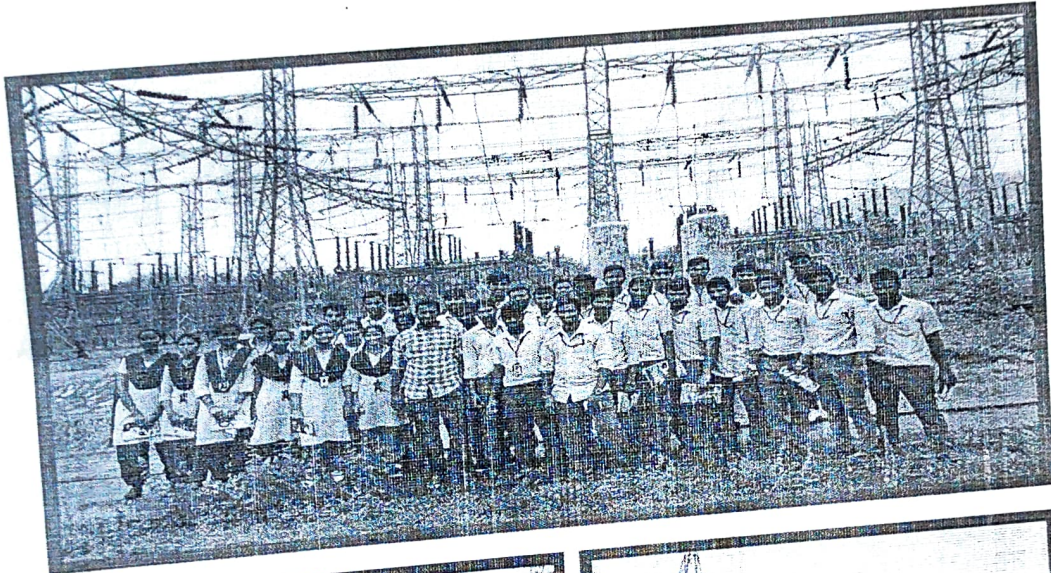
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Year: III B Tech EEE

Date: 20-09-2018

Name of the Industry: 220 KV SUB-STATION- GAJUWAKA

Name of the Faculty: 1. M JAYARAJU, Assistant Professor
2. R GANESH Assistant Professor



Dose

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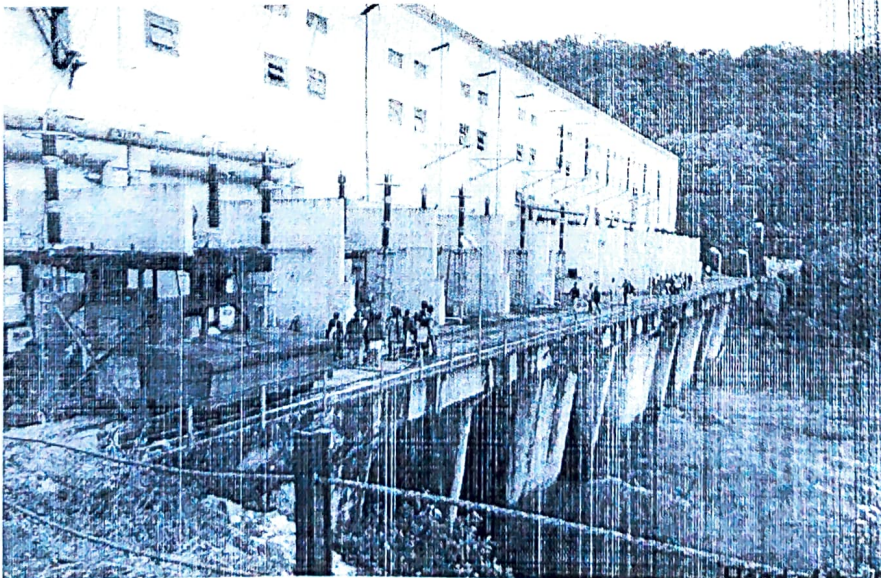
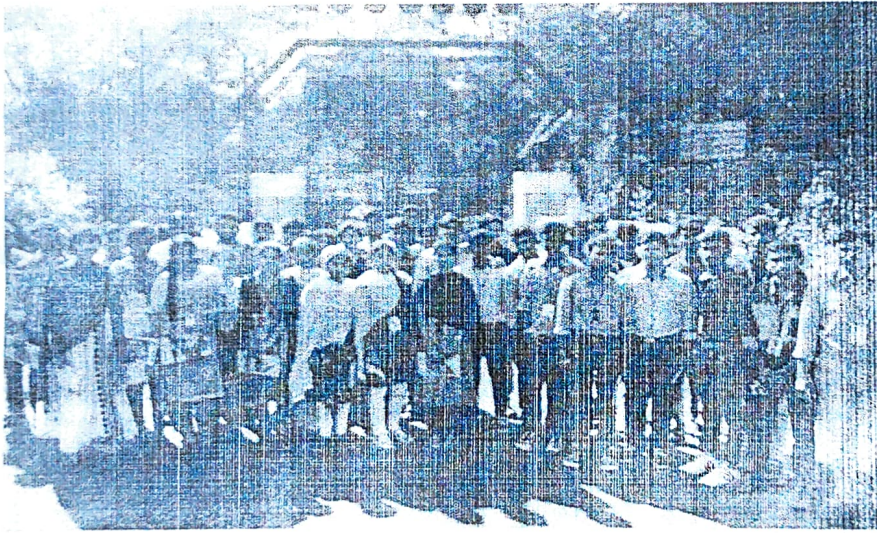
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Year: IV B Tech EEE

Date: 08-01-2019

Name of the Industry: HYDRO POWER PLANT - SILERU

Name of the Faculty: 1. P ANIL KUMAR, Assistant Professor
2. S SUJATHA DEVI Assistant Professor
3. P VARAHALA DORA Assistant Professor



Signature

Head of the Department
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Avanthi Institute of Engg & Tech.
Makavarapalem, Visakhapatnam - 531113.

UPPER SILERU HYDRO ELECTRIC SCHEME (4x60MW)

Preamble:

Upper Sileru Project is situated in the midst of Chintapalli agency in Visakhapatnam District. It is about 130 KM from Narsipatnam and 200 KM from Visakhapatnam. Water is drawn from a weir constructed across Sileru River at Guntawada 9 miles of Balimela Reservoir.

The Project is constructed in two stages. Under first stage, 2 units of 60MW each were commissioned at a cost of Rs. 18.5 Crores and another 2 Units of 60 MW each were commissioned under second stage at a cost of Rs. 47.5 Crores.

Salient Features:

- Location : Upper Sileru in Midst of Chintapalli Agency, 200 KM from VSP
- Category : Hydro Electric Project
- Capacity : $4 \times 60 \text{ MW} = 240 \text{ MW}$
- River : Sileru
- Dam : Fore Bay Dam
- No. of Units : 4 Nos
- Annual Energy Potential : 575 MU

Hydrology:

- Reservoir : Guntawada Reservoir
- Catchment Area : 1994 Sq. miles
- Max. flood discharge : 2,50,000 Cusecs
- Live Storage : 3,108 TMC Ft. (88 M.Cum)
- Gross Storage : 4.33 TMC
- Dead Storage : 0.712 TMC
- Generation Per TMC : 6.43 MU
- Design Head : 290 Ft.
- Net Head Max./Min : 310/290 Ft.
- Net Head Average : 304 Ft.
- Full Reservoir Level(FRL) : 1360.00 Ft.
- Min. Draw Down Level(MDDL) : 1333.50 Ft.
- Tail Race Water Level : 1045 Ft.
- Design Disch. Through Machine : 2592 Cusecs

Financial:

- Estimated Cost : Rs. 18.06 Cr.
- Actual Cost : Rs. 66.04 Cr.
- Assistance : APSEB
- Clearance by : CEA, MOE&F and PLG Commission GOI 09/1973
- Cost of KW Installed : Rs. 15,417/- (Stage - I)
Rs. 39,617/- (Stage-II)

Commissioning Details:

- Unit - I : 14th October, 1967
- Unit - II : 31st March, 1968
- Unit - III : 31st March, 1994
- Unit - IV : 21st March, 1995

Technical:**Turbine**

- Type : Francis Vertical
- Make : Excherwyss, Charmilies Switzerland (Stage - I), BHEL (Stage - II)
- Net Head : 90M
- Rated Output : 95000 BHP
- Normal Speed : 187.5 RPM
- Runway Speed : 350 RPM

Generator

- Type : Synchronous
- Make : Oerlikon, Switzerland (Stage - I), BHEL (Stage - II)
- Rated Voltage : 11KV
- Rated Output : 60MW/ 66.67 MVA
- Current : 3500A
- Speed : 300 RPM
- Power Factor : 0.9 Lag

Generator Transformer:

- Make : TELK, Angamally, Kerala
- Capacity : 25MVA, Single Phase (Out Door Type)
- Voltage Ration : 11KV/ 220KV

Transmission Line:

- 220KV, 3 Nos. (Stage - I)
- 220KV, 2 Nos. (Stage - II)

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

REPORT ON INDUSTRIAL VISIT

The Etikoppaka Co-Op Sugar Limited

DATE : 08-02-2019

SECTION: II YEAR – EEE

TOTAL STUDENTS : 52

EVENT : Industrial Visit

Faculty Coordinators:

- 1) S. Sujatha Devi, Asst.Prof.
- 2) P Varahala Dora, Asst.Prof.

EVENT DESCRIPTION: An industrial visit has been organized by department of Electrical & Electronics Engineering for II-year students on 08th February 2019.


The main objective of the visit was to provide a technical exposure to the students about the manufacturing process and technology. Total 52 students of II-year Electrical & Electronics Engineering visited Etikoppaka co-op Sugar Limited.

SESSION ACTIVITIES: The students were accompanied by 3 faculty members. The buses with students have started from our college at 09.30 AM on 08th February 2019 and reached the Etikoppaka co-op Sugar Limited, Etikoppaka by 10:30 AM.

ABOUT ETIKOPPAKA CO-OP SUGAR LIMITED:

Chodavaram Co-Op Sugar Limited Govadais one among the sugar manufacturing companies in India . Its allied business consists of manufacturing and marketing of Sugar. Company located in Etikoppaka, Visakhapatnam District-531082


Coordinator


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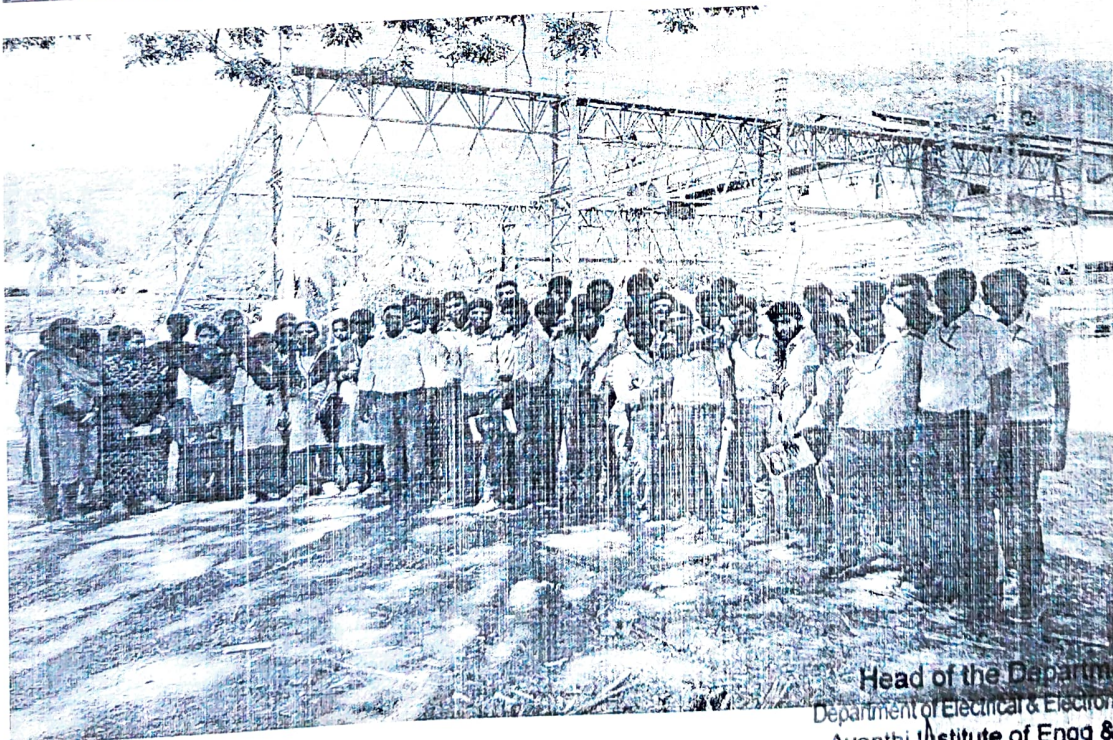
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Year: II B Tech EEE

Date: 08-02-2019

Name of the Industry: ETIKOPPAKA SUGAR FACTORY PVT LIMITED

Name of the Faculty: 1. S SUJATHA DEVI, Assistant Professor
2. P.VARAHALA DORA, Assistant Professor



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REPORT ON INDUSTRIAL VISIT

HINDUSTAN SHIPYARD LIMITED, VISAKHAPATNAM

DATE: 08-09-2018

SECTION: III YEAR -EEE

TOTAL STUDENTS: 43

EVENT: Industrial Visit

Faculty Coordinators:

1) S.Sujatha Devi, Asst.Prof.

2) K Durga Rao, Asst.Prof.

EVENT DESCRIPTION: An industrial visit has been organized by department of Electrical and Electronics Engineering for III-year students on 08th September 2018.


The main objective of the visit was to provide a technical exposure to the students about the manufacturing process and repairing. Total 43 students of III-year EEE visited Hindustan shipyard limited, Visakhapatnam.

SESSION ACTIVITIES: The students were accompanied by 2 faculty members. The buses with students have started from our college at 09.30 AM on 08th September 2018 and reached the Hindustan shipyard limited Visakhapatnam by 11:30 AM.

ABOUT Hindustan shipyard limited Visakhapatnam:

Hindustan shipyard limited Gandhigram post office, Visakhapatnam in India. Its allied business consists of manufacturing and Repairing of ships Company located in Visakhapatnam, Andhra Pradesh-530011.


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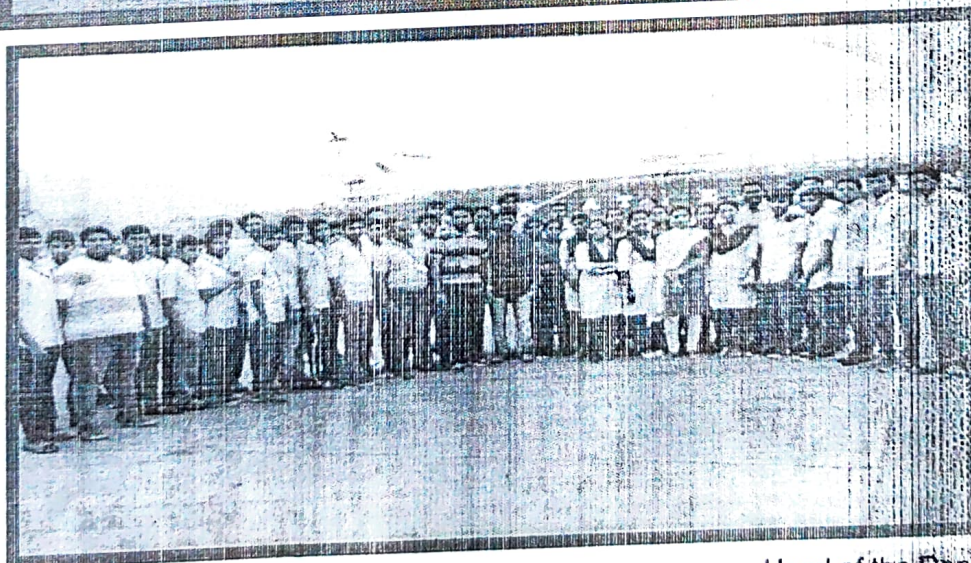
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Year: III B Tech EEE

Date: 08-09-2018

Name of the Industry: HINDUSTAN SHIPYARD LIMITED- VISAKHAPATNAM

Name of the Faculty: 1. K DURGA RAO, Assistant Professor
2. S SUJATHA DEVI, Assistant Professor



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