



MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

Affiliated to JNTUH, Hyderabad, Approved by AICTE - Accredited by NBA & NAAC – 'A' Grade - ISO 9001:2015 Certified)
Maisammaguda, Dhulapally (Post Via. Kompally), Secunderabad – 500100, Telangana State, India

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

INDUSTRIAL VISIT





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ONE DAY INDUSTRIAL VISIT TO KAKATHIYA THERMAL POWER PLANT, CHELPUR, JAYASHANKAR BHUPALPALLY 11-11-2022

Department of EEE has organized a **ONE DAY INDUSTRIAL VISIT TO KAKATHIYA THERMAL POWER PLANT, CHELPUR, JAYASHANKAR BHUPALPALLY, 11-11-2022** for III EEE Students.

Objective of the Industrial visit: Industrial visit has its own importance in a career of a student who is pursuing a professional degree. It is considered as a part of college curriculum, mainly seen in engineering courses. Objective of Industrial visit are to provide students an insight regarding internal working of companies. We know, theoretical knowledge is not enough for making a good professional career. With an aim to go beyond academics, industrial visit provides student a practical perspective on the world of work. It provides student with an opportunity to learn practically thorough interactive, working methods and employment practices. It gives them exposure to current work practices as opposed to possibly theoretical knowledge being taught at college. Industrial visits provide an excellent opportunity to interact with industries and know more about industrial environment. Industrial visits are arranged by colleges to students with an objective of providing students functional opportunity in different sectors like Manufacturing, Maintenance, distribution, and generation. Industrial visit helps to combine theoretical knowledge with industrial knowledge. Industrial realities are opened to the students through industrial visit.



Benefits of the Industrial visit: Educational institutes in India are largely adopting industrial visits as a value-added learning method for management students. Learning from textbooks, lectures and other study materials does not suffice for holistic learning. Practical, hands-on learning is essential for better understanding of work processes and business functions industrial visits give greater clarity about important management concepts, as student practically experience how these concepts are put into action.

- Industrial visit helps the students to understand the function of the industry
- Provides an insight in to the real working environment which can help them in understanding how an organization works
- Industry visits provide opportunity for active/interactive learning experiences in class as well outside the classroom environment
- With industry visits students are able to better identify their prospective areas of work in the overall organizational function
- A good opportunity to interact with the experts
- Helps to enhance their interpersonal skills and communication techniques
- Industry visits broaden the outlook of students with exposure to different workforces from different industries.

FACULTY COORDINATORS:

Dr. N. Kamala Moorthy

Mr. K .Harish

Mr. CH. Shiva Kumar

Ms. B. Geethika Rani

Mr. CH. Anil Kumar

THE SCHEDULE OF INDUSTRIAL VISIT:

DATE	S.NO	TIME	DESCRIPTION
11-11-22	1	6:00 am	Leaving from institution
	2	10.00 am	Reached KTPP
	3	10.15 am to 10.30	Registering details at plant
	4	10.30 am to 2:30 pm	Visit of industry
	5	2.30 pm to 3:30 pm	Lunch at Canteen
	6	4.00 pm to 5.00 pm	Ramappa Temple visit
	7	5.00 pm to 9.30 pm	Journey back to institution

HISTORY OF KAKATHIYA THERMAL POWER PLANT

Kakathiya Thermal Power plant located near Chelpur village of Ghanpur mandal in Warangal district of the Indian state of Telangana. The power plant is one of the coal based power plants of TSGENCO. This power plant was developed in 2 stages. The first stage

comprised one 500MW unit. The unit was synchronized to grid with oil firing on 31.03.2010 at 06:08 hrs. Coal firing was immediately taken up and the load was raised up to 84 MW and the unit was in service with this load for about 1 hour. Kakathiya TPP Unit-II 1X600MW, was synchronized to the grid at 03:00 hrs. on 22 October 2015 and loaded to 105 MW. BGR Energy Systems was selected to render EPC services for the Kakathiya Thermal Power Plant (Kakathiya Thermal Power Plant Stage I) project. Tecpro Systems was selected to render EPC services for the Kakathiya Thermal Power Plant (Kakathiya Thermal Power Plant Stage II) project. Kakathiya Thermal Power Plant (Kakathiya Thermal Power Plant Stage I) is equipped with Bharat Heavy Electricals steam turbine. The phase consists of 1 steam turbine with 500MW nameplate capacity. Kakathiya Thermal Power project (Kakathiya Thermal Power Plant Stage II) is equipped with Bharat Heavy Electricals steam turbine. The phase consists of 1 steam turbine with 600MW nameplate capacity

INTRODUCTION TO KAKATHIYA THERMAL POWER PLANT

Kakathiya Thermal Power Plant is located near Chelpur village of Ghanpur mandal in Warangal district of the Indian state of Telangana. The power plant is one of the coal based power plants of TSGENCO. This power plant was developed in 2 stages. The first stage comprised one 500MW unit.

1. TURBO GENERATOR (DC):

Type: 3 phase

Ratings: 500MW

Power Factor: 0.8 Lag

Speed: 3000 Rpm

Frequency: 50 Hz

Connection: Double Star

Coolant: Water and hydrogen

Stator: 21KV, 19000 Amps

Rotor: 340V, 4040 Amps

2. PLANT CAPACITY:

Stage	Unit Number	Installed Capacity (MW)	Date of Commissioning	Status
Stage I	1	500	May, 2010	Running
Stage II	2	600	Jan, 2016	Running

3. SUB STATION:



21/400 KVA STEP UP TRANSFORMER

KTPP PERMISSION LETTER



Estd : 2004

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY (Autonomous Institution – UGC, Govt. of India)

(Sponsored by CMR Educational Society)

Recognized under 2(F) and 12 (B) of UGC Act 1956

[Affiliated to JNTUH, Hyderabad, Approved by AICTE- Accredited by NBA & NAAC- 'A' Grade - ISO 9001:2015 Certified]



Dt: 29th OCT 2022.

From,
Principal,
Malla Reddy College of Engineering and Technology (MRCET),
Maisammaguda, Dhulapally,
Secunderabad, TS, 500100.

To,
The Chief Engineer,
Kakathiya Thermal Power Project,
Chelpur, Warangal District,
Telangana- 506168.

Sub: Industrial Visit- Request for grant of permission to Visit Kakathiya Thermal Power Project to our student of III Year B. Tech Electrical & Electronics Engineering- Reg.

Respected sir,

Malla Reddy College of Engineering & Technology, Accredited by NBA and NAAC-A in both Engineering & Management disciplines and is a pioneer in Engineering education since 2004.

The college has excellent teaching faculty, who are doing their best to impart theoretical knowledge of the engineering subjects to our students. Further, the college has excellent laboratory facilities with latest equipment to conduct practicals.

In addition to theory classes and practicals conducted in the college, the visits to Industries have been planned to further strengthen the practical knowledge of the students and also promote the Industry-Institute Interaction.

We will be obliged if our third year students (64 members) of EEE along with 6 faculty members are permitted to visit your esteemed organization i.e., Kakathiya Thermal Power Project on any working day in between 7th Nov 2022 to 12th Nov 2022 (Preferably 11th Nov 2022).

Your acceptance to our request will be highly appreciated. The convenient dates may please be intimated to us at the earliest to enable us to plan the visit.

Thank you sir



MRCET

Yours Sincerely

Dr. S. Srinivasa Rao
Principal

Maisammaguda, Dhulapally, Secunderabad - 500100, Telangana State, India. website: www.mrcet.ac.in
Contact: 9133555162 / 9133555183, E-Mail: mrcet2004@gmail.com; EAMCET/ICET/PGECET Code : MLRD

KTPP ACCEPCANCE LETTER

11/10/22, 6:46 PM



TELANGANA STATE POWER GENERATION CORPORATION LIMITED
(A Government of Telangana Undertaking)
KAKATHIYA THERMAL POWER PROJECT, CHELPUR - 506170

To
Malla Reddy College of Engineering
& Technology ,
Maisammaguda , Dhulapally,
Secunderabad, TS - 500 100.

From
Chief Engineer/O&M,
Kakathiya Thermal Power Project,
Chelpur(V) , Ghanpur(M),
Jayashankar Bhupalpally Dist.506 170

Lr.No.CE/O&M/SE//A&P/Tech/KTPP/F.No.Malla reddy college/D.No.501/2022,Dt-10.11.2022

Sir,

Sub: TSGENCO - KTPP - Industrial visit of B Tech EEE III year students of Malla Reddy College of Engineering and Technology, Maisammaguda, Dhulapally, Secunderabad- Permission to visit KTPP on 11.11.2022-Reg.

Ref: Letter Dated, Dt:29th October 2022.

With reference to letter cited above; 64 No.s students in two batches i.e., 32 Nos students in morning session and 32 Nos students in afternoon session along with 6 No.s of faculty of Malla Reddy College of Engineering and Technology, Maisammaguda , Dhulapally, Secunderabad are permitted to visit M/s KTPP, Chelpur on 11.11.2022 from 10.00 AM to 5.00 PM.

The above permission is tentative and you have to confirm your Permission over phone/person before actual visit of our Plant. Further it is to inform that, they should follow all the safety precautions such as wearing of identity card, shoes, gents tucking in shirts and wearing of helmets etc. during plant visit.

It is requested to contact the following officers for further guidance and they will co-ordinate the plant visit programme.

- 1) Divisional Engineer/E&P, Mobile: 9493545542.
- 2) Divisional Engineer/Factory Manager, Mobile: 9491044462.

11/10/22, 5:46 PM

3) Sri. M. Ravi Kiran AE/Shift C-batch/Stage-I Mobile :7032915442.

Yours faithfully

Chief Engineer/O&M/K

Copy to the:

Superintending Engineer/O&M-I/KTPP for information.

Superintending Engineer/A&P/KTPP for information.

Divisional Engineer/FM/KTPP --To ensure to follow the safety precautions by the above participants.

Divisional Engineer/E&P/KTPP -- To Co-ordinate the above programme.

Sri. M. Ravi Kiran AE/Shift C-batch/Stage-I --- To Co-ordinate the above programme
Vigilance and Security Officer/KTPP.

This document is digitally signed

Participant's list



MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(UGC Autonomous), Maisamimguda, Dhulapally Post, Secunderabad 500 100

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

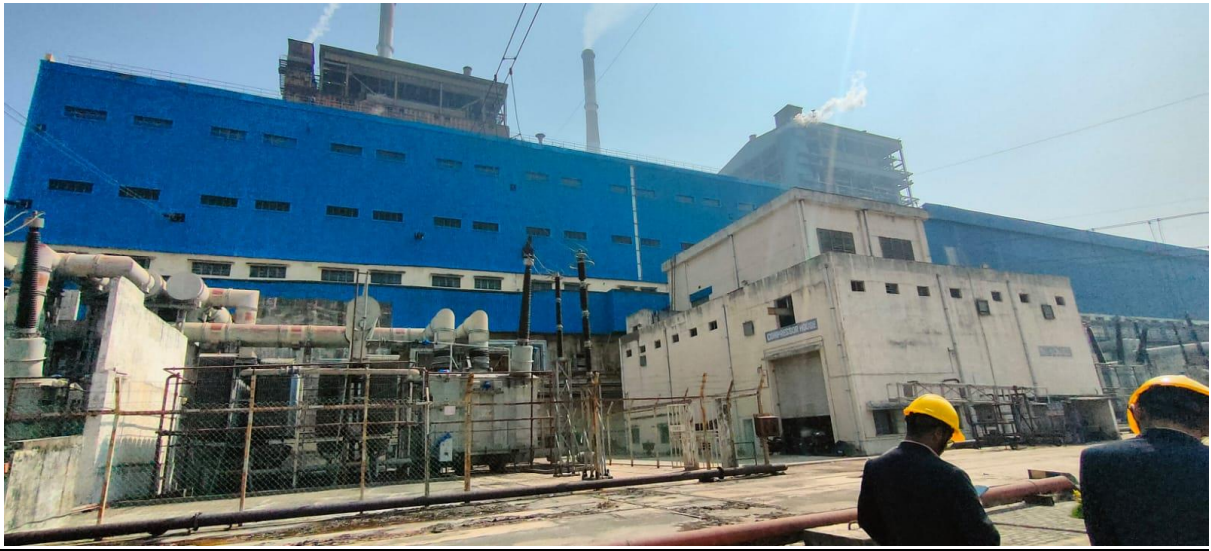
III-I EEE KTPP INDUSTRIAL VISIT STUDENTS LIST

S.No	Roll NO.	Student Name	Signature
1	20N31A0201	AKKALA UDAY KIRAN GOUD	
2	20N31A0202	AKUNURI SNIGDHA	
3	20N31A0203	ALLAM SRITEJA	
4	20N31A0205	BANDA RAHUL	
5	20N31A0207	BANDHUGULA PRASANNA KUMAR	
6	20N31A0209	BHUKYA RAKESH	
7	20N31A0211	BONCHODE RUSHIKA	
8	20N31A0212	CHETTI GANESH	
9	20N31A0213	DURGAM SAILEELA	
10	20N31A0214	DURUSOJU ESHWAR PRASAD	
11	20N31A0215	ELIGETI VISHNU VARDHAN	
12	20N31A0216	G.AJAY	
13	20N31A0217	GUGGILA UMARANI	
14	20N31A0219	KHAMMAMPATI VARUN	
15	20N31A0220	KOLAHALAM KRISHNA PRASAD RAJU	
16	20N31A0222	MALOTHU BHARATH	
17	20N31A0226	PISINI VINAY KUMAR	
18	20N31A0227	RACHAMALLA SREE VARSHA	
19	20N31A0228	RAGUTLA NITHIN	
20	20N31A0231	RASA AASHRITH	
21	20N31A0234	SINGAM SATWIK	
22	20N31A0235	VADLA ABHI RAM	
23	20N31A0236	VADLA SREERAM	
24	20N31A0237	RAHUL SINGH RAWAT	
25	21N35A0202	ALLIPAKA SUNIL	
26	21N35A0204	GANDLA JESHWANT	
27	21N35A0208	KAMSANI KRISHNATEJA	
28	21N35A0209	KANNURI VAMSHI KRISHNA	
29	21N35A0214	MERUGU SAI KIRAN	
29	21N35A0215	MOHAMMAD MINHAJ	
30	21N35A0216	NANDHIKONDA SAIKIRAN	
31	21N35A0217	NUGURWAR SAI SHASHANK	
32	21N35A0218	P SUNIL KUMAR	

34	21N35A0219	PITLA ARAVIND MUDHIRAJ	
35	21N35A0220	PULYALA AJITH KUMAR	
36	21N35A0222	TALLARI NAVEEN	
37	21N35A0224	TUDUMU HARISH	
38	21N35A0225	VADAPALLI PAVAN HARSHA	
39	21N35A0226	VASUKULA RITHVIK RAJ	
40	21N35A0228	YARAMALA MUKUNDH REDDY	

PHOTO GALLERY:









Presenting MEMENTOs to the AE & Field Engineer

CONCLUSION:

To impart theoretical knowledge of the engineering subjects to our students. Further, the college has excellent laboratory facilities with latest equipment to conduct practical. In addition to theory classes and practical's conducted in the college, the visits to Industries have been planned to further strengthen the practical knowledge of the students and also promote the Industry-Institute Interaction.