



# Nimra College of Engineering & Technology

Estd. By Nimra Educational Society (A Muslim Minority Society).  
Affiliated to JNTUK, Approved by AICTE, New Delhi, Permitted by Govt. of A.P.  
Nimra Nagar, Ibrahimpatnam, Vijayawada - 521 456, NTR Dt., A.P., India.  
ISO 9001:2015

Ph : +91-866-2882010, Fax : +91-866-2881852  
e-mail : principal\_nimra@yahoo.co.in website : <http://www.nimra.in>

Date: 26-04-2023

Ref : NCET/Industrial Visit /2023

To,  
The Sr. DEE/TRS/ELS/BZA,  
Electric Loco Shed,  
Milk Factory Road,  
Vijayawada.  
NTR District – 520001.  
Dear Sir,

Sub : Request for permitting students to visit the Electric Loco Shed – Reg

Nimra college of Engineering & Technology (NCET) promoted by Nimra Educational Society is established in the year 1997. The Society is founded by veteran philanthropist Dr.Vizarath Rasool Khan and steered by Dynamic secretary & correspondent Dr. MD.Saqib Rasool Khan. The institute offers several UG & PG Courses in Engineering and MBA.

In partial fulfilment of the requirements for the award of B.Tech Degree by JNTU Kakinada, the students are encouraged to visit industries to keep themselves abreast of latest technology available in reputed industries like that of yours. As part of this process, our students want to visit your plant preferably during 16/04/2023. Hence I request you to kindly permit our students.

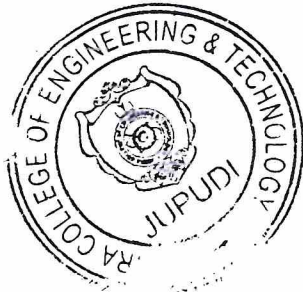
I assure you that the students will strictly adhere to the rules and regulations of your organization and will not in the ways cause disturbance to your routine activities.

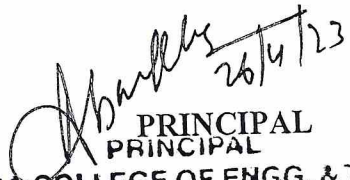
Thanking you.

No. of Students : 70

No. of Staff : 04

Total : 74



  
26/4/23  
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NIMRA COLLEGE OF ENGG. & TECH  
NIMRA NAGAR,  
IBRAHIMPATNAM-521 456  
VIJAYAWADA.

75  
आजादी का  
अमृत महोत्सव

भारत सरकार  
केन्द्रिय मंत्रालय  
रेलवे विभाग  
राज्य मंत्रालय  
राज्य मंत्रालय



भारत रेलवे कोटिंग्स लिमिटेड  
कोटिंग्स विभाग  
कोटिंग्स विभाग  
कोटिंग्स विभाग

Certified with: ISO 9001:2015, EMS 14001:2015, OHSMS 45001:2018, SONS 90001:2018, SA and Lear & Signis

No.B/E.219/TRS/Permission

दिनांक Date: 12.05.2023

**NIMRA COLLEGE OF ENGINEERING & TECHNOLOGY  
IBRAHIMPATNAM,  
VIJAYAWADA.**

Sub: Permission for Industrial visit to ELS/BZA - Reg.,  
Ref : NCET/Industrial Visit/2023/01 Dt 11.05.2023

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Permission has been granted for II & III year B tech Engineering students to visit ELS/BZA on 16.05.2023, per your request in the letter attached. The competent authority has granted a total of 70 students along with 02 staff members in one batch of your institution, Timings from 8:00 a.m. to 12:00 p.m. and 1.00 p.m. to 5:00 p.m.

The students should adhere the following precautions while moving in shed premises

- While in shop floor, should not come in contact with any rotating machines like TM, Auxilliary Motors, EOT Cranes etc, to avoid physical injuries.
- Not to enter any pits to check the under gear equipment of locomotive unless you are accompanied by Railway authorized person.
- Not to enter any loco either in energized or de-energized condition at any location with out accompanying faculty & railway representative.
- Should not cross the pits by jumping.
- Should move as a group only and Wearing of Shoe is compulsory
- Wearing Aprons is mandatory for ladies.

**No photography with mobile or Camera is allowed.**

They shall be responsible for their own safety and Railways will not be responsible for any mishap that may happen during their visit. They should bring their ID proof issued by the college authorities along with them. Necessary guidance will be given by SSE/M/ELS/BZA.

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/- Sr DEE/TRS/ELS/BZA

C/-SSE/M/ELS/TRS/BZA - for Inf., & necessary action  
C/-SI/RPF/ELS/BZA for information and necessary action.

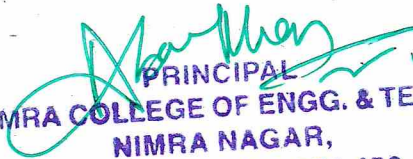
# NIMRA COLLEGE OF ENGINEERING & TECHNOLOGY

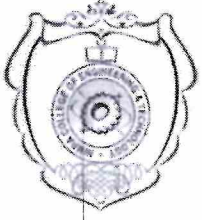
NIMRA NAGAR, JUPUDI, IBM-521456

## INDUSTRIAL VISIT TO ELS STUDENTS LIST

S. No	HTNO	DEPARTMENT	NAME OF THE STUDENT
1	22231A0401	ECE	THOTAKURA BHANU TEJA
2	22231A0402	ECE	UPPALURI KIRAN KUMAR
3	22231A0501	CSE	ANNAM SUSHMITHA
4	22231A0502	CSE	AHIL RAJA IBRAHIM
5	22231A0503	CSE	ALIAR HUSSAIN
6	22231A0504	CSE	ADIL SHEKH
7	22231A0505	CSE	BABIDUL KHAN
8	22231A0506	CSE	WAZID ANSARI
9	22231A0507	CSE	BALLA MADHU
10	22231A0508	CSE	BANDI KUNDANA KRISHNA
11	22231A0509	CSE	ASIF ALI
12	22231A0510	CSE	BUDIMURI DILIP RAHUL
13	22231A0511	CSE	BOBBURI BHARGAV
14	22231A0512	CSE	NAKKA DURGA REDDY
15	22231A0513	CSE	BOLLEDDULA BHAVANI
16	22231A0514	CSE	DASAM POORNA CHANDRIKA
17	22231A0515	CSE	BADDA SIVAJI
18	22231A0516	CSE	ISLAVATH PAVANKALYAN NAIK
19	22231A0517	CSE	GADI RAMYA
20	22231A0518	CSE	GANGIREDDY MOHAN KRISHNA REDDY
21	22231A0519	CSE	GAVIREDDY BALA SAI
22	22231A0520	CSE	GENTENAPALLI MANOHAR
23	22231A0521	CSE	GUVVALA SRI CHARAN
24	22231A0522	CSE	KAMASANI VENKATA PRASAD
25	22231A0523	CSE	KARAMPUDI CHANDRA SEKHAR VARMA
26	22231A0524	CSE	KUNAPALLI SAI SRIDEVI
27	22231A0525	CSE	LAIKE AHMAD
28	22231A0526	CSE	MADAKA NIKHIL SRINIVAS
29	22231A0527	CSE	MADALA BALA KRISHNA VARA PRASAD
30	22231A0528	CSE	MADDIPATI YAMINI
31	22231A0529	CSE	MALLADI MAHESH
32	22231A0530	CSE	MALLEPALLE BHARGAV REDDY
33	22231A0531	CSE	MOGADASU HARSHITHA
34	22231A0532	CSE	PALAPARTHI SAMBA SIVA RAO
35	22231A0533	CSE	MOHAMMAD SAJIDA FATHIMA
36	22231A0534	CSE	PATHAN GOPI GAPHOOR KHAN
37	22231A0535	CSE	NAGANABOYINA VEERABABU
38	22231A0536	CSE	BELLAMKONDA SAI MANI
39	22231A0537	CSE	DHARAVATH VAMSI NAIK
40	22231A0538	CSE	GOLASAM PAVAN KUMAR
41	22231A0539	CSE	POTHINA RAGA SUDHA RANI
42	22231A0540	CSE	RAYAPUDI TONY PRAAJITH
43	22231A0541	CSE	SANAGAVARAPU DURGA MALLESWARI

44	22231A0542	CSE	KANDLAVATH MANJU NAIK
45	22231A0543	CSE	SARIM KHAN
46	22231A0544	CSE	KOKKILAGADDA AJAY BABU
47	22231A0545	CSE	USALA VIVEK
48	22231A0546	CSE	SHAIK ALISHER
49	22231A0547	CSE	SHAIK AMEESHA
50	22231A0548	CSE	UDUMULA SUBBU
51	22231A0549	CSE	SHAIK ASLAM
52	22231A0550	CSE	SHAIK BAJI
53	22231A0551	CSE	SHAIK ISMAIL
54	22231A0552	CSE	SHAIK KARIMULLA
55	22231A0553	CSE	SHAIK LATHIFUNNISA
56	22231A0554	CSE	SHAIK MAHAMMAD SUHAIL
57	22231A0555	CSE	MARRIPALLI NAGA SUDHA RANI
58	22231A0556	CSE	SHAIK MOHAMMAD KHASIM
59	22231A0557	CSE	SYED ADIL BASHA
60	22231A0558	CSE	SHAIK MUSTHAQ AHAMMED
61	22231A0559	CSE	SHAIK RAJIYA SULTHANA
62	22231A0560	CSE	SHAIK RUBEENA
63	22231A0561	CSE	SHAIK THOUSUF AHAMMED
64	22231A0562	CSE	SHAIK MADEENA
65	22231A4201	AI&ML	BANDAPU ROHITH
66	22231A4202	AI&ML	DUDEKULA HUSSAIN BASHA
67	22231A4203	AI&ML	SHAIK ABDUL ARSHAD
68	22231A4204	AI&ML	GARIKAPATI ABHINAYA
69	22231A4205	AI&ML	HAMZA NIZAMUDDIN MANSURI
70	22231A4206	AI&ML	JANJAM DURGA PRASAD

  
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Ph : +91-866-2882010, Fax : +91-866-2881852  
e-mail : principal\_nimra@yahoo.co.in website : http://www.nimra.in

## REPORT ON INDUSTRIAL VISIT TO ELECTRIC LOCO SHED

Name of the Activity: Industrial Visit

Name of the Industry: Electric Loco Shed

Date & Time: 17<sup>th</sup> May 2023/ 10 am to 4:30 pm

Total No. of Students: 70

The banner features the college's logo on the left, a central text area, and a 25th anniversary logo on the right. The central text includes the college name, affiliation details, and the organizing body, the Institution's Innovation Council (IIC), which is part of the Ministry of Education's Innovation Cell. The main title of the visit is 'INDUSTRIAL VISIT TO ELECTRIC LOCO SHED' with the date '16-05-2023'. The banner also includes logos for the IIC and AICTE.


We visited Electrical Loco Shed near Milk Factory Road Vijayawada on 17<sup>th</sup> May 2023. Total 45 students and 4 staff members are accompanied by 3 instructors in Electric Loco Shed.

We gained knowledge about locomotive engine and all locomotive parts. Locomotive receives power through pantograph from a Source of 25KV, 1-phase, AC supply, 50Hz.

Inside of a locomotive two types of supply is in use, one is for low tension supply(LT) for control and other one for main supply for HT supply for driving the motors.

### Electrical locomotive Equipment:

1. Transformer, Rectifier block, Motors(Hitachi), DBR, VCB, CB(DJ), Tap changer(GR), pantograph,
2. Smoothing reactor (SL), Compressor(CP), Bogie frame, Wheel set assembly. Nickel cadmium 110V batteries are used, Total batters are 10 each of 11V. For mechanical and

  
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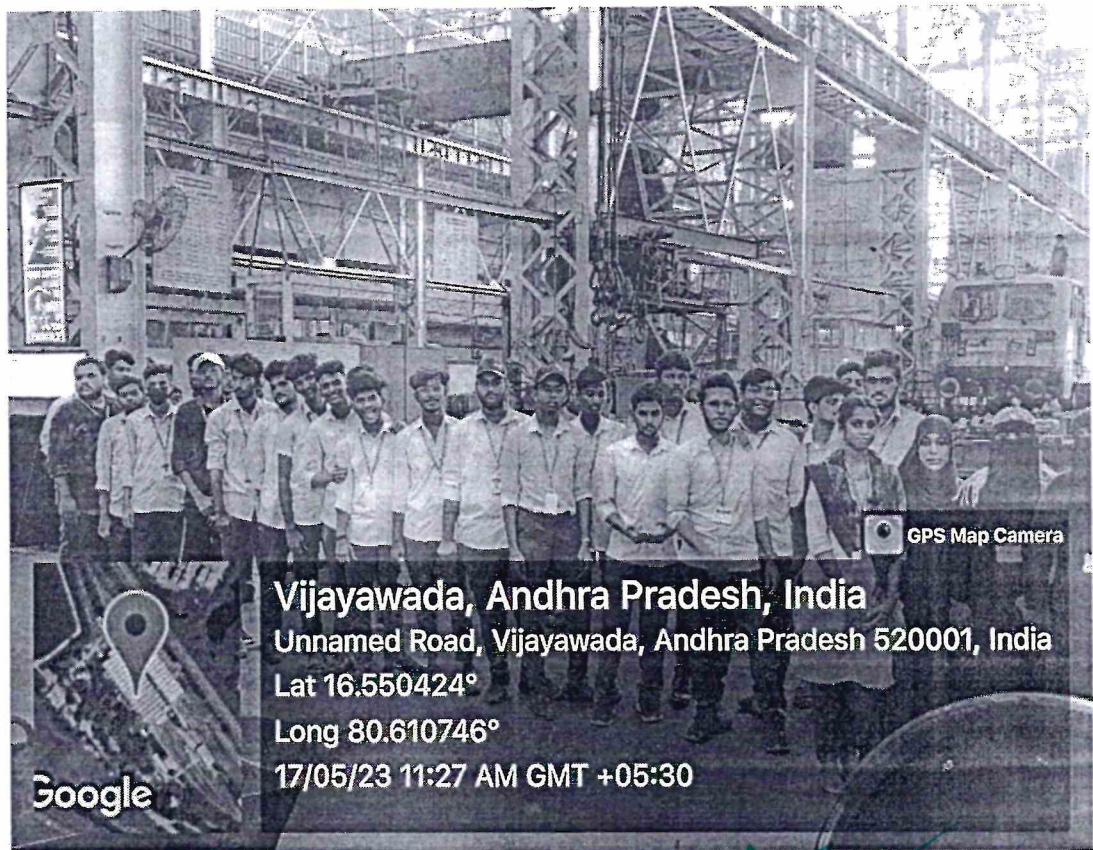
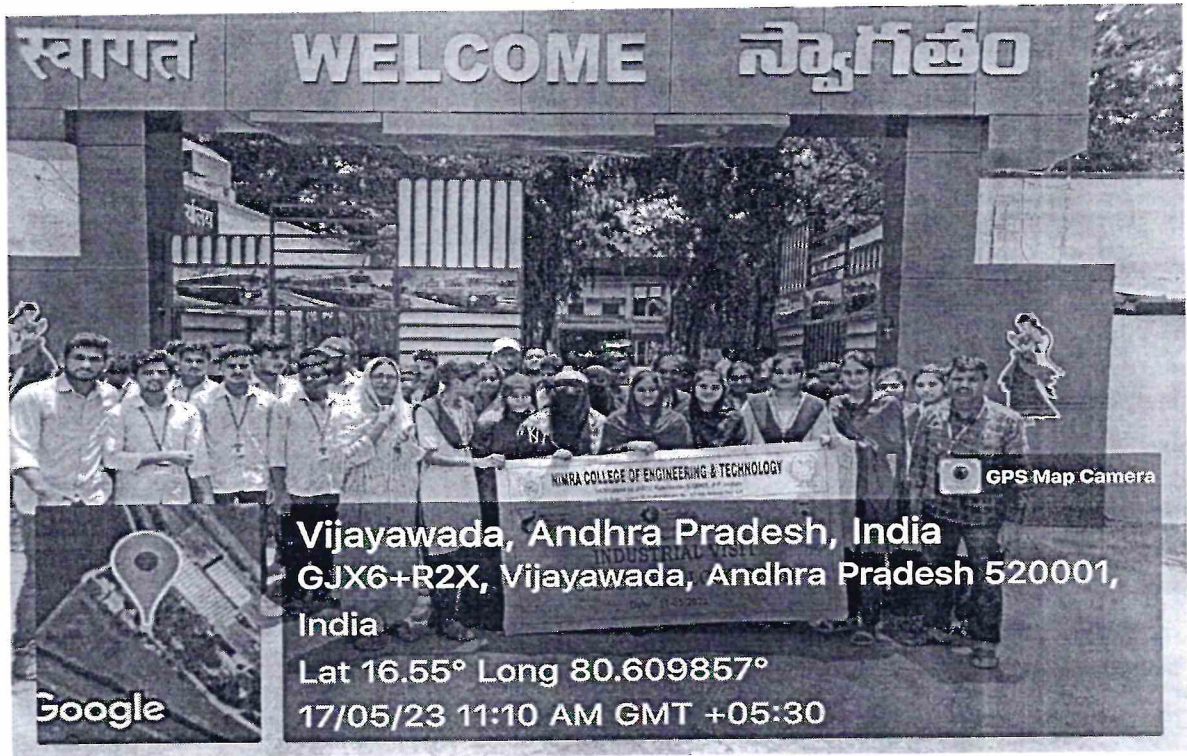
electrical break air compressor are used. Disc jointer use as a MCB; it is operated in millisecond. One step down transformer is used for regulating the supply. 2 pantograph are use above the loco. With the help of rectifier convert AC in to DC to drive the DC series motors. No. of 6 motors are used.

3. This locomotive is capable for the 5000 to 6000 Ton goods wagons.
4. Safety purpose different type of system and relays are used like Over voltage, earth fault, etc. For auxiliary power supply to 3-phase induction motor use Arno-convertor, this Arno-convertor convert 1-phase supply into 3-phase supply.
5. To drive the locomotive 3 keys are used. Fist key is used to on main supply, second key is used for pantograph, and three key is for the loco drive in forward and reversed.
6. Pantograph is a hinged frame that holds the collecting shoes against the wire in a fixed geometry. The pantograph method is best suited for high-speed operation. It is made-up of iron. It uses step-down transformer to convert voltage from 25KV to 440V for the engine.

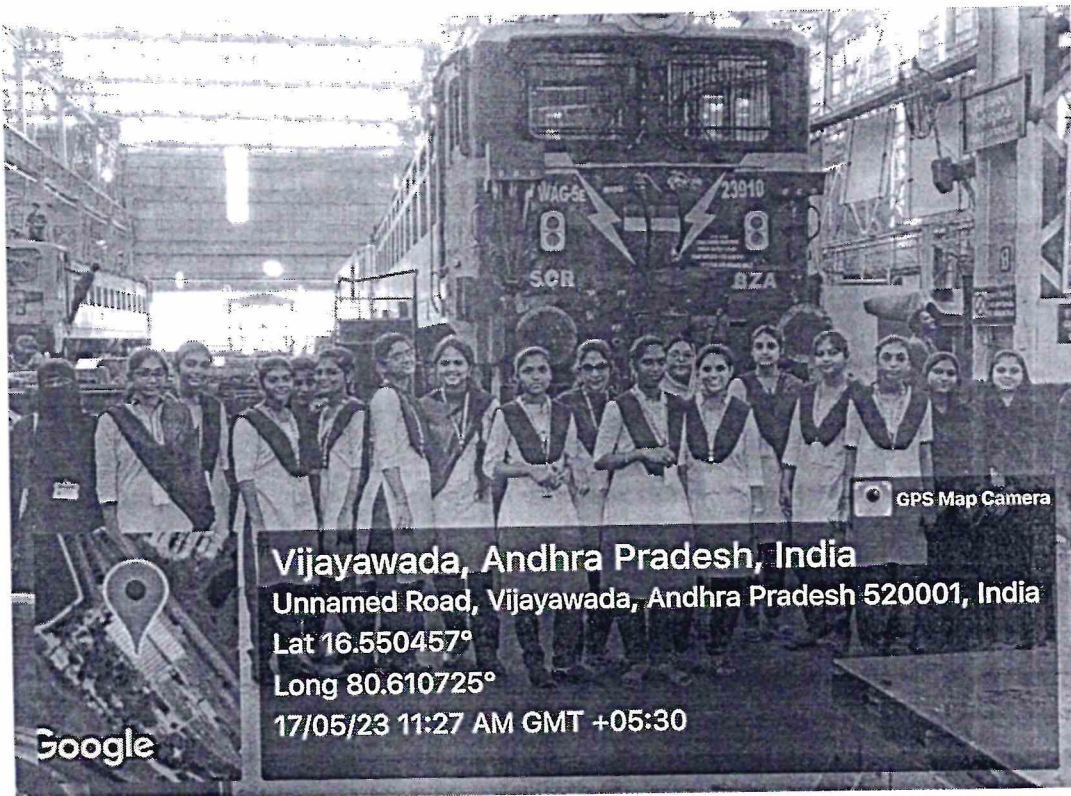
Photographs of the Electric Loco shed are attached below.



*AS*  
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**NIMRA NAGAR,**  
**IBRAHIMPATNAM-521 456**  
**VIJAYAWADA.**

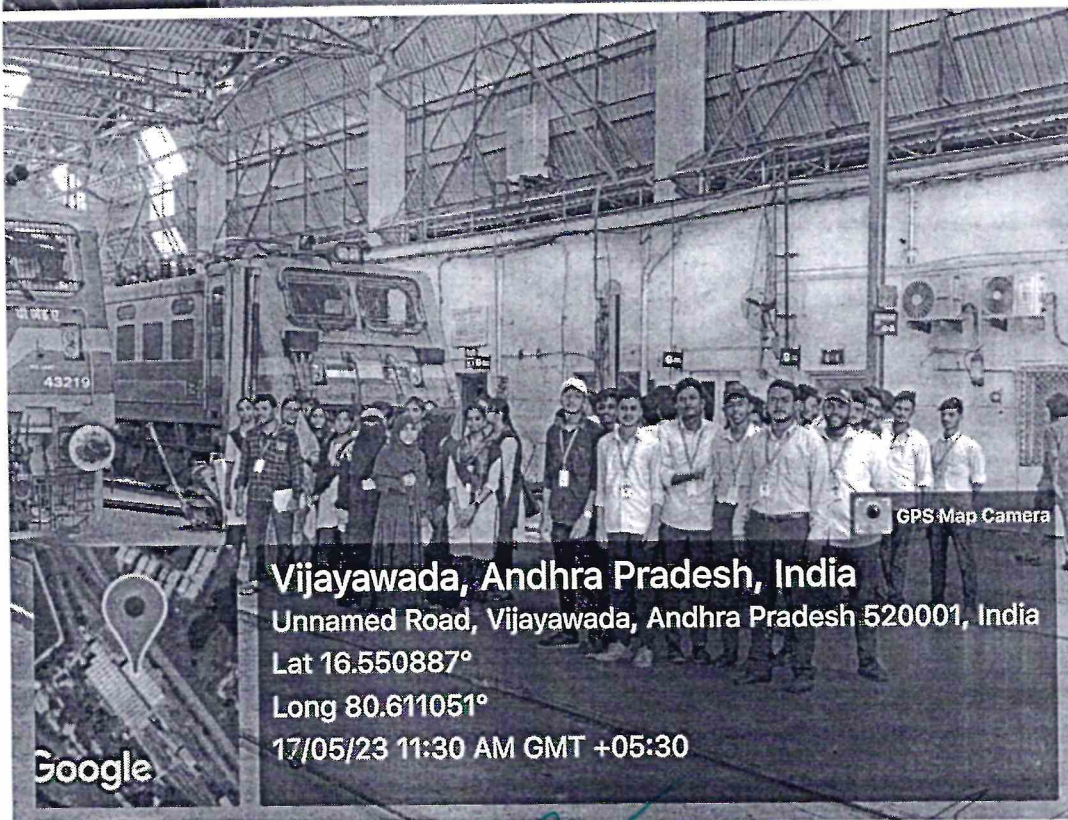


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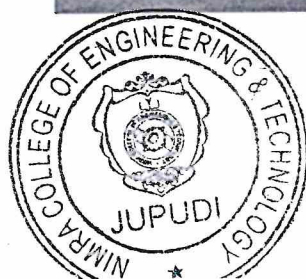
Vijayawada, Andhra Pradesh, India  
 Unnamed Road, Vijayawada, Andhra Pradesh 520001, India  
 Lat 16.550457°  
 Long 80.610725°  
 17/05/23 11:27 AM GMT +05:30

Google



Vijayawada, Andhra Pradesh, India  
 Unnamed Road, Vijayawada, Andhra Pradesh 520001, India  
 Lat 16.550887°  
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 PRINCIPAL  
 NIMRA COLLEGE OF ENGG. & TECH.,  
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*[Handwritten Signature]* 17/5/23  
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