Industrial Visit Report

Department of Electronics and Telecommunication Engineering
Dr. Babasaheb Ambedkar Technological University, Lonere

The Department of Electronics and Telecommunication Enginnering had successfully organized an Industrial Visit for the Second Year B. Tech. students to Rajyasthan from 29th January 2020 to 2nd February 2020. Fourty Three students from S. Y. B. Tech along with three faculty members visited two companies in Rajyasthan.

We left the University Campus in the morning at 9:30 am of 29th January 2020 for Industrial Visit to Rajyasthan. We visited two companies namely Omega Electronics from Jaipur and Suzlon Gobal Services Ltd. From Jaisalmer.

Fig. 1 Student S.Y. B.Tech. EXTC leaving for Industrial Visit

Visit to Omega Electronics, Jaipur

We reached in Jaipur, Rajyasthan at 11;30 pm of 31st January 2020. There we took some refreshment and had a lunch in nearby hotel named Park Classic.

In the afternoon at 2:30 pm we visited Omega Electronics. The company manufacture and sell Electronic Lab kits to Technical and Engineering colleges. We divided our students in the batch of 15 students per batch for the visit and the interaction with the industry persons one after another. The team members of Omega Electronics interacted with students and showed them process behind manufacturing of electronics lab equipment in real time.

Fig. 2 Visit to Omega Electronics, Jaipur

Fig. 3 (a) Students interacting with staff members of Omega Electronics

Fig. 3 (b) Students interacting with staff members of Omega Electronics

Finally, we left the premises at 4.30 p.m. It was an informative, interesting and a successful visit. As students of Electronics and Telecommunication Engineering, they understand the working of electronic devices, their applications and importance of technology selection, etc. We express our thanks to the Technical Head and all team members of Omega Electronics who spent their valuable time for us.

After that we all had a dinner and then we head towards Jaisalmer at 9:00 pm for our next visit to Suzlon Global Services Ltd.

Visit to Suzlon Global Services Ltd., Jaisalmer

We reached in Jaisalmer at 12 pm of 1st Febuary 2020. There we took some refreshment and had a lunch in Sam San Dunes Dessert Camp.

In the afternoon at 3:00 pm we visited Suzlon Global Services Ltd. The Company develops products in the Wind Energy & Solar energy sector and is a leading wind turbine manufacturer across the globe. The Technical Head of Suzlon Global Services Ltd., Jaisalmer conducted very informative session for the students regarding the working of the power plant and wind turbines. Also, he motivated to the students to select their domain and area of interest.

Fig. 4 Visit to Suzlon Global Services Ltd., Jaisalmer

Fig 5 (a) Interactive session with Technical staff of Suzlon Global Service Ltd., Jaisalmer

Fig 5 (a) Interactive session with Technical staff of Suzlon Global Service Ltd., Jaisalmer

The session was concluded with Question- Answer session. Many of the students asked different questions to the Technical Head on current demanding technologies, market scenarios etc. and he cleared all the doubt and myths which was in students mind about the technologies related field. All students were satisfied after the session. The visit came to an end at 5.00 pm and then we returned to the camp.

In the early morning of 2nd February 2020 at 5:00 am, we started our return journey towards University. We safely returned to University Campus on 7:00 pm of 3rd February 2020.

Report on Industrial Visit to Bangalore

Subject: Industrial visit to Indian Space Research Organization (ISRO), Hindustan Aeronautics Limited (HAL) Museum, Visvesvaraya Industrial and Technological Museum, Bangalore.

Industrial Visit to Bangalore was conducted successfully with three faculty members Prof. Sapana Barphe, Prof. Pranita Jadhav and Prof. Vaibhav Patil along with 38 students from Third year and 08 students from Second year B. Tech. in Information Technology.

It was a three-day Industrial Visit Programme where we acquired knowledge about satellites, fighter planes used by our defence sector and all important scientific engineering principles .

Indian Space Research Organization (ISRO)

Our journey began on 17th January, 2019 from Mangaon at 2.45 am and we reached Bangalore on 18th January from where we headed towards our visit to ISRO. By 11:00 AM, we were at ISRO where we had to go through security checking and we were provided with visitor passes. Along with this we had time for our breakfast in their canteen. At 12:00 PM we were allowed to enter the main ISRO building. We were first taken to the auditorium where a video clip was shown to us which gave us knowledge about right from ground level preparations to the actual launching of a satellite to how a satellite functions in space.

Then we had a series of question-answer regarding queries of students about satellites. We also had discussion about future plans that ISRO has in which we came to know about some missions like Chandrayaan-II, Space mission of 2022 and also the procedure of the organization to be a part of ISRO. Then we were taken to the clean room where we could actually see the designing of satellite and the model of Chandrayaan-II although this all was visible through a transparent glass and we were not allowed to enter inside that room.

Then we visited some more areas and then we were at exhibition room wherein there were the models of all the satellites that are launched till today. Also we had detailed information about famous scientist who had major contribution in making ISRO a successfully organization as the whole world recognizes it today. We also had more information about some basic scientific apparatus and we were also explained about purpose of each satellite that was sent into space.

This whole session lasted for 3 hours and at 3:00 PM we departed from ISRO with much more information that we had earlier about space engineering.

Hindustan Aeronautics Limited (HAL) Museum

On 19th Jan we explored HAL Museum which is India's first Aerospace Museum. We entered the museum at 11:30AM where we had the opportunity to see various aircrafts and helicopters, aircraft engine models, flight stimulators and the complete Indian Aviation history. The museum is well maintained by HAL Company. We could completely observe all the aircrafts some of which included HAL HJT-36 Sitara, HAL Tejas mock-up, HAL Ajeet, HAL Dhruv and many more that showcased the growth of the Indian Aviation industry for six decades. We also had a group discussion about the trending Rafael deal. The museum also displayed information about aviation progress made by various countries. After whole day visit to the museum, we departed at 4:00PM.

Visvesvaraya Industrial and Technological Museum

On 20th Jan we gave a visit to Visvesvaraya Industrial and Technological Museum which is a constituent unit of the National Council of Science Museums, Ministry of Culture, and Government of India. The museum is a vast source of information starting from small science experiments to huge space missions. The museum is divided into various departments of science. First, we explored Engine Hall that exhibits engines of various cars, machines, jet aircrafts and other mechanical devices. Second, we came across Electro Technic Gallery that focused on interactive electrical exhibits which work on basic principles of electricity, electronics and communication. Then we discovered Space Emerging Technology that showed us achievements of mankind in this sector. Next we went to Biotechnological Revolution hall where we understood basics of biotechnology and its applications. Then we gave our visit to hall of Electronics which was in collaboration with Bharat Electronics Limited (BEL) which threw light on basic principles of Electronics and Information Technology. Next we discovered the most amazing part of the museum which was Fun Science Gallery that displayed working models on the science of

sound, optics, fluids, math and many more. The main attraction of the museum was The Alive Dinosaur exhibit which is the moving replica of Spinosaurus. The working models museum made us to understand the scientific principles easily. With this we completed our Industrial Visit which provided us enormous information about various engineering principles.

Department of Civil Engineering
Date 13/11/19

Submitted:

Subject: To grant official order for Industrial Visit.

A Group of 74 students of Second year B.Tech with following 3 faculties and 2 staff member of Department of Civil Engineering are going for an Industrial Visit to Gangapur Dam, Nashik.

1. Mr. Mandar Malandkar
2. Mr. Suraj Bhise
3. Mrs. Pranoti Mahajan
4. Mr. Paresh Tembe
5. Mr. Abhijeet Tembe

It is request to grant official order for the visit on 14nd & 15th November, 2019. The list of students is enclosed here with.

Dr. S. M. Pore
Head,
Department of Civil Engineering.

Through: Dean [Student Welfare],

Forwarded for permission please
14.11.2019

To,
Hon. Vice Chancellor
Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad.

कुलगुरु सचिवालय
आवक क्र. 1804
दिनांक 14/11/19
सही

Printed
14/11/19

कुलगुरु सचिवालय
जावक क्र. 1073
दिनांक 15/11/19
सही

Dr. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY,
Lonere, Tal. Mangaon, Dist.- Raigad-402103.

[Industrial visit - Nashik] (2019-20).

PROVISIONAL ROLL LIST FOR Second YEAR B.TECH.COURSE IN CIVIL ENGINEERING 2019-2020

Sr. No	NAME	Signature
1	GAIKWAD AVANI UDAY	
2	DHEKALE SHARDUL SATISH	
3	WAGH SAGAR KESHAV	
4	GHUGE PRATHMESH ARUN	
5	MAYEKAR ROHIT SANDIP	
6	ANAND MULEY	
7	CHAUDHARI KAMLESH VIVEK	
8	JADHAVAR CHAITANY KAILAS	
9	DWASE VAISHNAVI SHANKAR	
10	ZAKARDE OM EKNATHRAO	
11	PRASHIK DILIP GANVIR	
12	BHIMRAO NARHARI BANDGAR	
13	PAWAR SHRADDHA UDAY	
14	KOMATWAD SUSHANT PANDURANG	
15	GUMME ABHISHEK SHRIMANT	
16	DAHIWALE ABHIJIT DHANPAL	
17	VIJAPURE VITTHAL BALAJIRAO	
18	KADAM AVINASH GOVIND	
19	SANGLE CHANDRAVADAN MOHAN	
20	KHANDARE ADITYA SATISH	
21	GIRAM SHWETA SHIVAJI	
22	KULKARNI ANTARA BALKRISHNA	
23	RATHOD NIKHIL KERASING	
24	CHAPADE SACHIN ASHOK	
25	CHAVAN MIHIR SHIVAJI	
26	TODANKAR SWAGATA SANDESH	
27	POTPALLEWAR OMKAR SANJAY	
28	OMKAR DILIP CHAVAN	
29	TOPAJI HANMANT GOVIND	
30	PAKHAD NAYANA GANPAT	
31	PATIL MANAS RAJESH	
32	BANDEKAR SAMWAD PRAVIN	

33	TEJAL GAJENDRA Shede prathmesh Umesh	
34	BORKAR TEJAL GAJENDRA	
35	AMIT PRABHAKAR YADAV	
36	KODGIRWAR SHUBHAM SURESHRAO	
37	PARDESHI HARSHAD SANJAY	
38	SANJANA JAYARAJ PAWAR	
39	KHARDE HARSHAL KESHAV	
40	WAGHMARE NISHANT MOHAN	
41	SHINDE DEVESH DINESH	
42	MAHADIK DARSHAK DATTATREY	
43	SAWANT SHIVANI SHIVAJI	
44	PANCHAL RAMESH BASVRAJ	
45	MOHAMMAD UMAR MAGRAY	
46	JAMBHALE PRANJALI SHARAD	
47	GAIKWAD RUSHIKESH BALASAHEB	
48	ANIKET POPAT SOMASE	
49	JADHAV JANHAVI MANVESH	
50	KADAM SIMALI JITENDRA	
51	PATHAN REHAN IMAMKHAN	
52	RATATE DHIRAJ DHARMENDRA	
53	SHIRKE ALANKAR PRAMOD	
54	SALVEKAR SIDDHARTH YATIN	
55	MHATRE MAYUR DEVANAND	
56	SAWANT PRAJWAL KIRAN	
57	SHINGADE PRATHAMESH NARAYAN	
58	SODI JAGITSINGH G.	
59	CHAFLE GAURISHANKAR GAJANAN	
60	ARKAM HAMID	
61	SATYAJEET DATTATRAYA GHOGARE	
62	MAHAJAN KALYANI VIJAY	
63	GATTUWAR RAJESH BALAJI	
64	BAVISKAR PRAFULLA DNYANESHWAR	
65	LANDAGE PRADNYA CHITRAGUN	
66	WAGHMARE DHONDIRAM VIJAYKUMAR	
67	DANDEGAONKAR RAJDEEP PRADEEP	
68	SHAIKH PIRSAB MAQBULSAB	
69	PATIL VAISHNAVI BABAN	
70	MUNJE PRAJAKTA RAJKUMAR	
71	MANE SANKALP HANSRAJ	
72	BALORE BASWESHWAR BABAN	
73	KHANDADE SAKSHI ANGAD	
74	RATHOD GOPAL GANESH	

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Dr. S. M. Pore
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Department of Civil Engineering.

Through: Dean [Student Welfare],

Forwarded for permission please
14.11.2019

Sh. Jadhav
for file

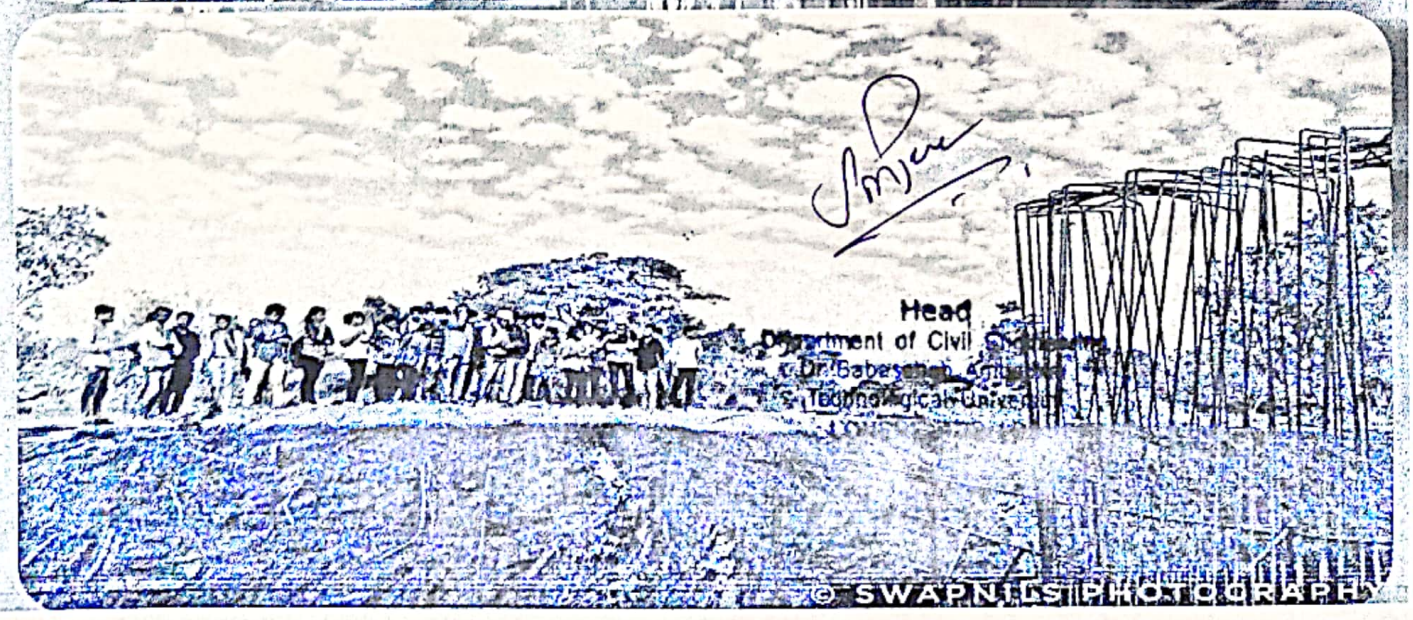
To,
Hon. Vice Chancellor
Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad.

INDUSTRIAL VISIT

In Academic Year 2017-18, Civil department successfully completed 4 Industrial visits, 2 from 2nd year, 1 each from 3rd year and 4th year. Below is brief report and photos of visits:

❖ 2nd year visit to RS mine, Mangaon:

Industrial visit was carried out at RS mines, Mangaon on 11th Feb, 2018. The main objective behind the visit was to make student aware about how mines crushing is done, design of foundation, reinforcement details, types of footings. Students also studied the different levels of soils and ground levels. 2 faculty along with 55 students left for visit at 10 a.m. and took about half an hour to cover the distance. The company is located in Mangaon, Tq. Mangaon Dist.Raigad. As soon as we reached company we were guided engineers present there. Also our staff gave us detailed information about the mining.



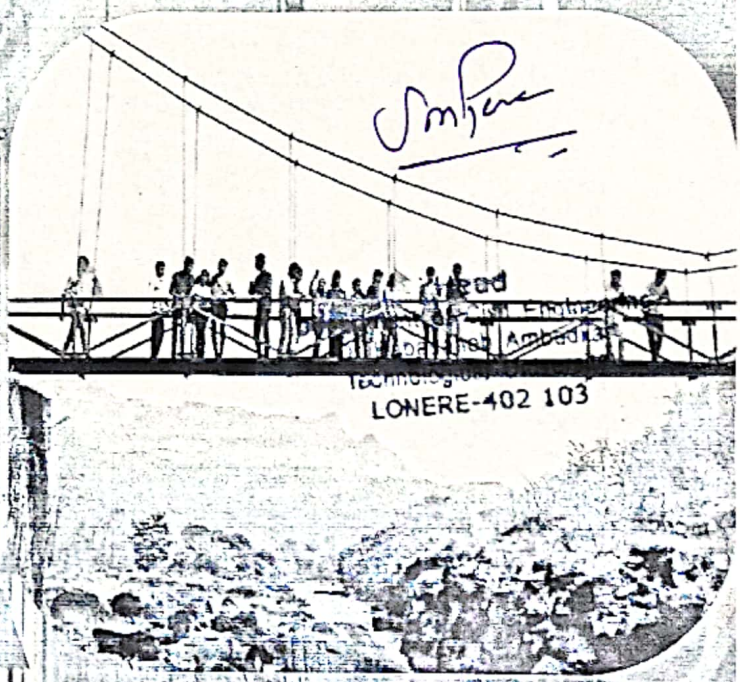
INDUSTRIAL VISIT

❖ 2nd Year visit to Waste Water Treatment Plant, Mahad:

LOCATION : MMA-CETP Co-op. Society Ltd.
P-43, MIDC Industrial Area, Mahad- 402 309
PH: 02145-232285
E-mail : mma.cetp@mmahad.com.

DATE : 07/04/2018

TIME : 11.00 to 5.00 pm



There were 60 students of 2nd year civil B-tech visited waste water treatment plant at Mahad, under the curriculum of subject **Environmental Engineering** guided by prof. Akanksha Darage, prof. Shrikrushna Patil on dated 07/04/2018. The waste water from 90-80 industries received at CETP for purification, details of plant are as follows:

- Capacity of plant - 70-75 lakh m^3/day.
- Design period - 18 years.
- Disposal - treated water disposed to MIDC sump & finally to saline zone of river Savitri.

INDUSTRIAL VISIT

❖ 3rd Year visit to Treatment Plant and Dam at Pune:

On 22nd sept,2017, 40 students of 3rd year along with 4 faculty members of Dr.Babasaheb Ambedkar Technological University, Lonere from civil dept. had visit to **SEWAGE TREATMENT PLANT, Akurdi** and **KHADAKWASALA DAM, Pune.**

❑ **Sewage Treatment Plant:** Students got following info at visit-

- At Sewage Treatment Plant , students got to know about the
- working of each & every unit.
- Students got information about chambers, air diffuser, aeration, sludge settling chamber, combitreat unit.

❑ **Khadakwasla Dam:**

On same day students also visited Khadakwasla Dam where they got the information about the dam by Supervisor.

- Construction Period: 1979-1884.
- Capacity: 10.56 TMC (Thousand Million Cubic Feet).
- Length × Height of dam: 1.5 km × 32m (28m achieved by water
- level)
- Catchment Area: 502 sq.km.
- Live storage + Dead Storage: 2 TMC + 1 TMC.

The supervisor and our faculty informed students about foundation of dam, Spillway used, no. of gates in dam, Vishveshwaraya Gate.

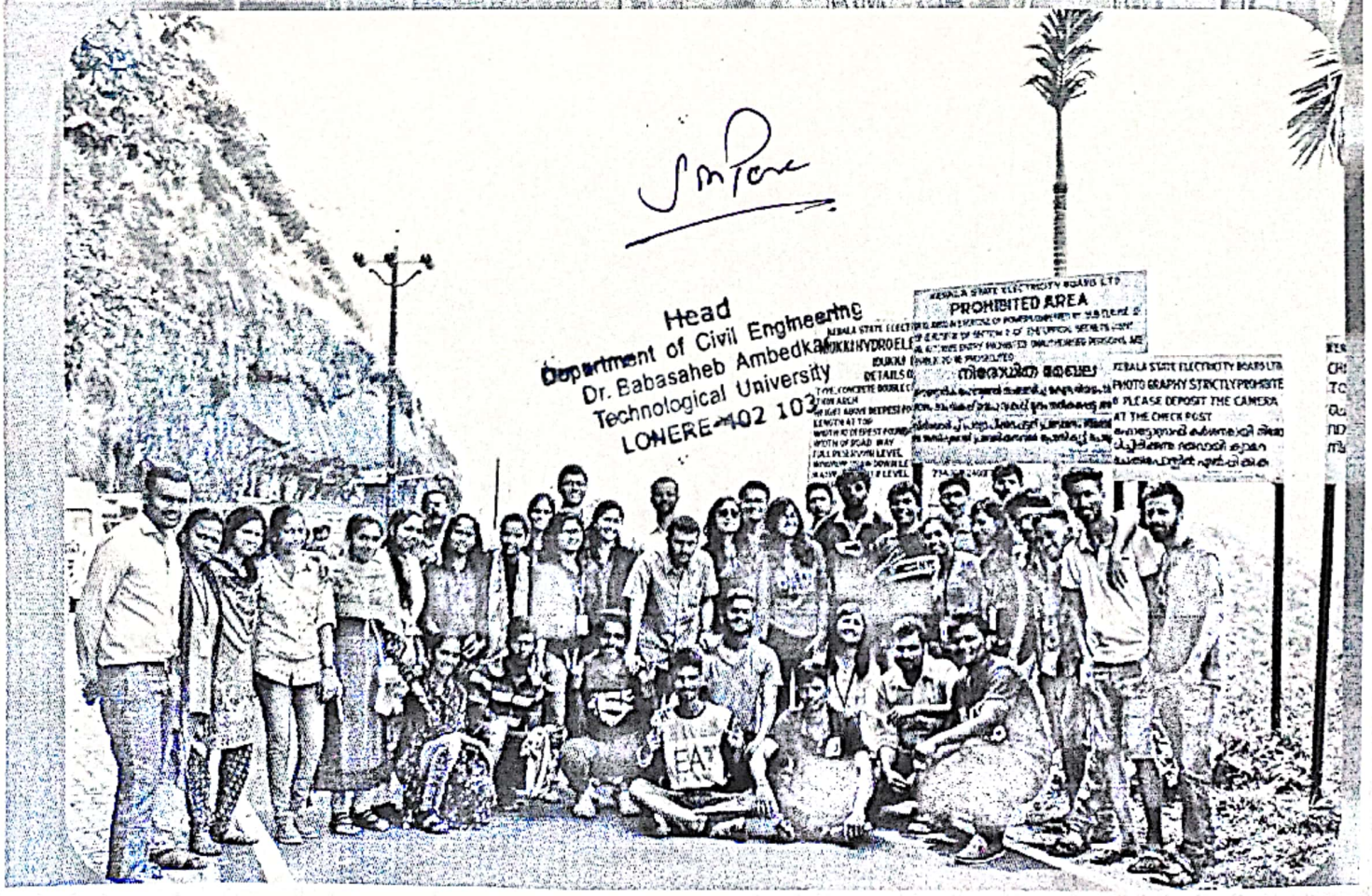
INDUSTRIAL VISIT

❖ 4th Year visit to Kerala:

Industrial visit is a part of the course,during which students visit companies, historical structures and get insight of the working environment of companies , detail of structure information about places .Final year students had visit to Kerala where they studied detail about Idukki Dam and had visit to Maharaja College which is oldest college in our country.

Here is brief description if dam:

- Construction = 30 April 1969.
- Type of dam=Concrete, double curvature parabolic thin arch
- Impounds: Periyar River.
- Height × Length=554f× 1200ft.
- Volume of Dam=450,000m3.
- Capacity=1996×106 m3.
- Catchment Area=649.3 km2.
- Surface Area=60 km2.
- Normal Elevation=732.62m.

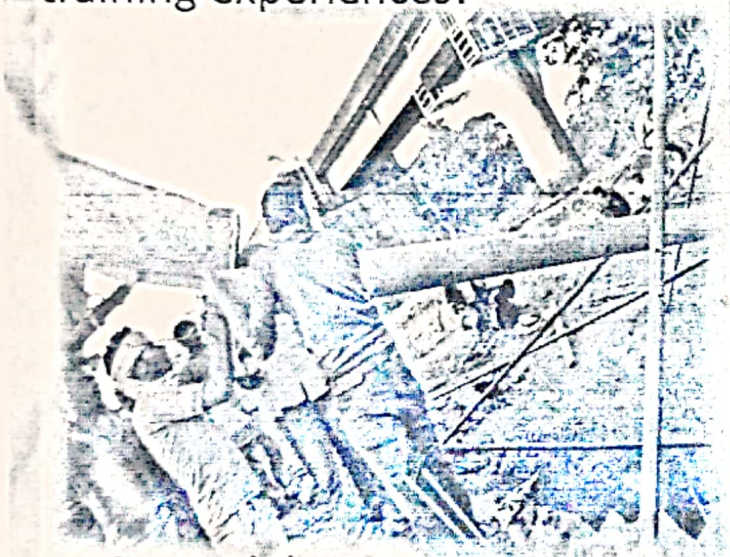


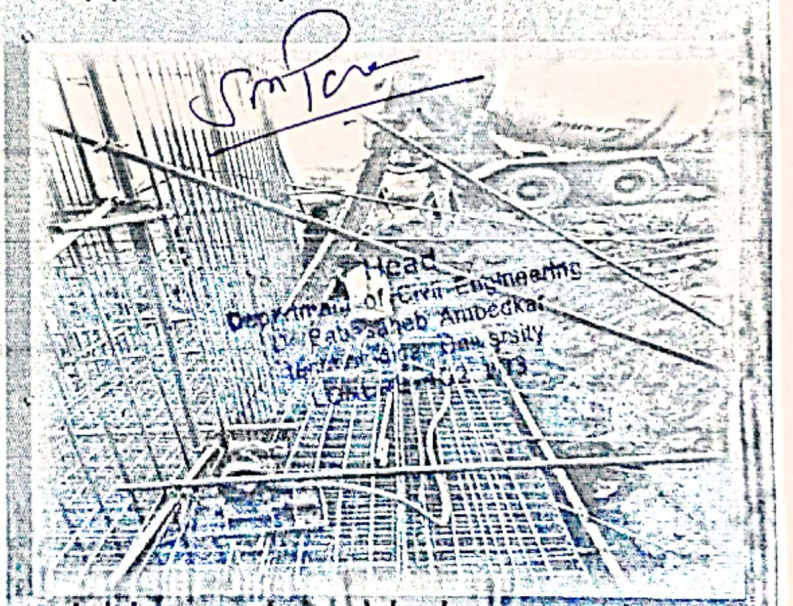
Head
Department of Civil Engineering
Dr. Babasaheb Ambedkar Technological University
LONERE-402 103

KRCL Training

The journey from 'we don't want any training' to 'that was a very great experience' is worth telling.

The main reason for us to join the training was our beloved HOD Dr.S.M. Pore Sir. Industrial training is a mandatory part of our curriculum and every student in their 6th semester vacations had to be a part of any training for a month, learn, experience, and withhold the knowledge for future but for many of us it was to get a certificate, give a presentation and get a good grade or sometimes even get a certificate without training for the grade. When we were told to join KRCL for another month, our entire class demurred the decision, but we would have been insane to miss this opportunity. It is one of the best training experiences!





Our training program was very enriching and enabled us to gain a thorough understanding of how things are worked out on sites. The Doubling of Veer to Roha railway track was being carried out and we were sent to different sites in Mangaon, Goregaon, Kolad be it a bridge site, office, lab or yard. From performing lab tests, observing the railway tracks and function of points & crossing, working of RMC plant, concreting, field tests, surveying, and even post tensioning, a concept we only study about in textbooks, everything was engrossing. Special thanks to Deepak Bonde sir, Senior Lab Assistant at Kolad Yard, who not only made time for us, to explain us things but also talked about the various career alternatives we have in future. The small notes and advices we got from the labourer heads, mostly criticising the bookish knowledge was also an interesting conversation.

Railway construction work as they say is completely perfection and no compensation. Safety was of main importance everywhere, from design to construction, handling at all sites. We even attended a safety seminar. Every day at the training, there was something new to learn.

We still cannot see any disadvantage in participating this training. The training taught us to ask questions, listen, to be patient, to understand and everything that cannot be taught in a classroom. We consider ourselves fortunate, that we got to be a part of the KRCL training.

Thanks to KRCL for allowing students for training. Thanks for your support. It will be pleasure for upcoming civil department students to do training at KRCL. Hope for future training to our students.