



“EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE”

GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

S. No. 25/1/3, Balewadi, Pune – 411 045

(Approved by AICTE and Govt. of Maharashtra, Affiliated to SavitribaiPhule Pune University)

DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph: 020-27390500 Website: www.gsmozecoe.org Email: gsmoze@yahoo.co.in

Founder President: Shri RambhauMoze

SITE VISITS 2018-22



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GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

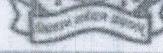
S. No. 25/1/3, Balewadi, Pune – 411 045

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INTERNATIONAL SITE VISIT



Industrial Tour Report

Destination: Thailand Date: 8th Jan 2019

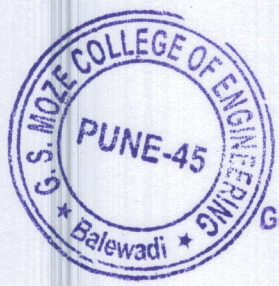
Participants: 34

Introduction:

An industrial tour was organized for the engineering students of Genba Sopran Moze, college of Engineering to Thailand under the Memorandum of Understanding (MOU) signed with Sripatum University Thailand. The objective of this tour was to provide students with exposure to industrial practices, technological advancements, and cultural experiences in Thailand, thereby enhancing their understanding and knowledge in their respective fields of study.

Key Learnings and Observations:

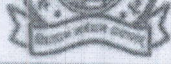
- Exposure to advanced industrial practices and technologies employed in various sectors in Thailand
- Understanding of the cultural nuances and business etiquette prevalent in the Thai corporate environment
- Opportunities for networking and collaboration with professionals from the Thai engineering industry



A. S. Mohi
PRINCIPAL

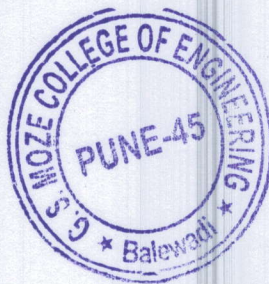
Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, Pune - 411 045

PRINCIPAL
Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, Pune - 411 045



Student List

SR.No.	SURNAME	NAME	BRANCH	MOBILE NO
1	DAMLE	ATHARVASUNIL	CIVIL	7507081479
2	MANANI	MOHITPRAVIN	CIVIL	9762893511
3	RITHE	SAHILMAHESH	CIVIL	7276422149
4	NIPHADKAR	MAYURESHNITIN	CIVIL	7769889174
5	HAWALDAR	KETANBALKRUSHNA	CIVIL	9011699161
6	SANE	AMIT	CIVIL	9130302294
7	THORAT	SWAPNILKAILASH	CIVIL	7507257099
8	KALE	ANIKETBIBHISHAN	CIVIL	8530507020
9	ATOLE	BHAGYASHREEBAB ASAHEB	CIVIL	9623478952
10	SHINDE	SAGARBABAN	CIVIL	9049681554
11	ADE	ROSHANIGOVINDA	CIVIL	8007424192
12	KONDE	PRATHMESHSHRIKANT	CIVIL	9011189977
13	DHADDE	SUPRIYA	CIVIL	7507234692
14	GAJARE	SIDDHARTH	CIVIL	8169618474
15	SHELKE	AMARSURESH	CIVIL	9112050047
16	JADHAV	SAIESHUTTAM	COMP	9890275727
17	KANADE	VICKYVASANTRAO	COMP	9921216974
18	TAKALE	SAURABHDATTATRAY	COMP	9130003721
19	SAYYED	SANIYAMANSOOR	ENTC	7758897786
20	SHARMA	POOJABABULAL	ENTC	8600937139
21	CHAVAN	HARSHALARAJU	ENTC	8149151833
22	IYER	PRAHARSHITASRINI VASAN	IT	7057268490
23	MAHATA	PRATIKPRAKASH	MECH	9168453134
24	SANAP	SAURABHVILAS	MECH	7276228289
25	WABALE	VIKRAMSURESH	MECH	8055385544
26	SINGH	ADITYASURENDRA	MECH	8149431252
27	PAWAR	MAYURLAXMAN	MECH	9762234998
28	KHILLARE	AMAR	MECH	9112050047
29	SHENDGE	TEJASASHOK	MECH	7744958743
30	ATWADKAR	PUSHPANKMANOHAR	MECH	
31	SONAWANE	JAYANTMARUTI	MECH	9975598758
32	KUNDE	PRATHAMESH	MECH	
33	WALKE	MANDAR	MECH	9212121829
34	Shinde	Mahesh	CIVIL	9423863160

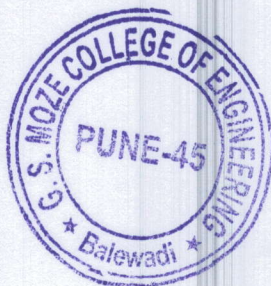
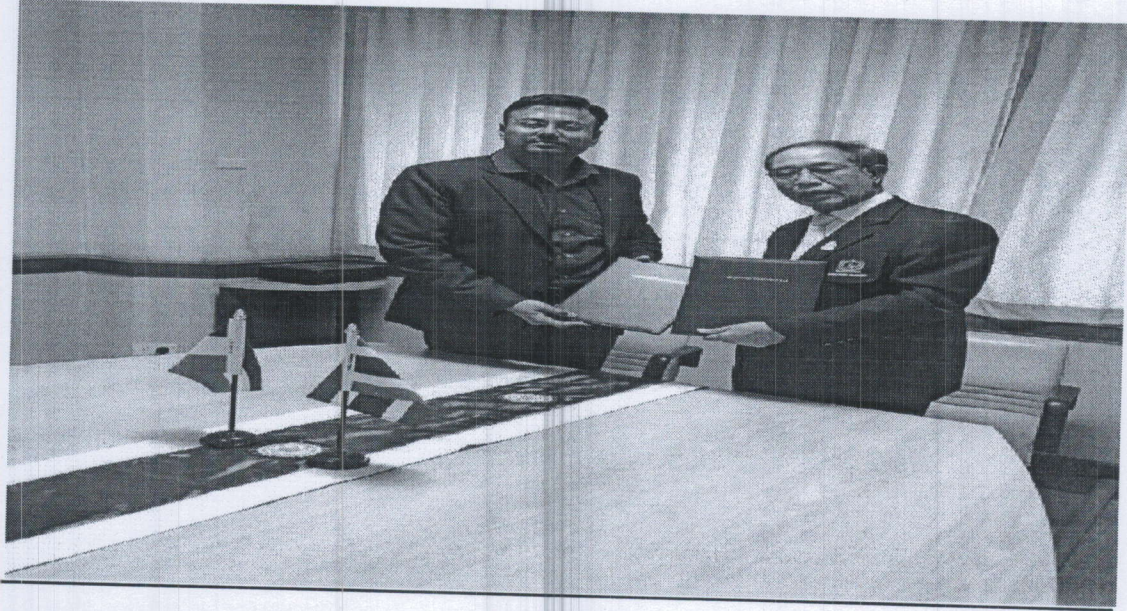


A. Sen

PRINCIPAL
Genba Somanrao Moze College of Engg.
25/1/3, Balewadi, Pune - 411 045



While taking MOU



Asst.

PRINCIPAL
 Genba Sopanrao Moze College of Engg.
 25/1/3, Balewadi, Pune - 411 045



Challenging Issues:

- Overcoming the language barrier. This is probably the most obvious challenge of studying our.
- Calculate your budget. Money is an issue for all students.
- Dealing with a foreign climate
- Running low on cash
- Disagreeing with the customs

Conclusion:

The industrial tour to Thailand provided valuable insights and experiences to the engineering students of Genba Sopanrao Moze college of Engineering, aligning with the objectives of the MOU with Sripatum University Thailand. It not only broadened their perspectives on global industrial practices but also fostered cultural exchange and personal growth. We express our gratitude to Sripatum University Thailand and all the organizations that facilitated this enriching experience.

Coordinator

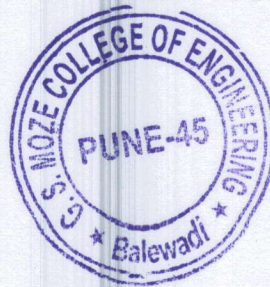
Prof. Kopal Gangarde

Prof. Shilpa Mahajan


HOD

Prof. Ratnaraja Kumar Jambi
Head of Department
COMPUTER ENGG.

Genba Sopanrao Moze College of Engg.
25/1/3 Balewadi Pune-411 045




Principal

Dr.A.B.Auti

PRINCIPAL

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045



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Founder President: Shri RambhauMoze

DEPARTMENT OF CIVIL ENGINEERING



“Empowerment Through Technological Excellence”
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING
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Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in

Department Of Civil Engineering

Date-6/09/2018

SITE VISIT NOTICE

All the students of B.E. are hereby informed that site visit to Waste Water Treatment plant has been arranged on 7/09/2018. All Students must be present at 10 am sharp in college premises.

NOTE:

- **STUDENTS MUST BE PRESENT IN COLLEGE UNIFORM**
- **STUDENTS SHOULD CARRY WATER BOTTLE,CAP, SHOES etc**
- **ATTENDANCE IS COMPULSORY**

Prof.Arun Sankpal

(Faculty coordinator)

Prof.Rahul Hodage

HOD

**Head of the Department
CIVIL ENGINEERING**

**Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045**





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Ph. : 020-27390500 Website : www.gsmozece.org Email : gsmoze@yahoo.co.in

Founder President : Shri. Rambhau Moze

Ref. No. : GSMCOE/ADMIN/18-19/125

Date : 11/9/18

To,

Executive Engineer,
Waste water treatment plant,
Pcmc, Pune.

Subject:- Permission to visit Waste water treatment Plant.

Respected Sir,


We introduce ourselves as G. S. Moze College of engineering Balewadi is affiliated to University of Pune and approved by AICTE New Delhi. The college runs five UG program including Civil Engineering.

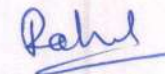
There would be a total of 60 students accompanied by 02 faculty members are interested to Visit your Waste water treatment Plant as a part of BE SPPU Syllabus in EEII Subject. The visit is aimed at enhancing their Practical knowledge. I assure you that no nuisance will be created and the visit will be carried out with proper discipline. I hope you will give us permission to visit the same.

We are expecting visit on date (07/09/18)

Looking forward for your positive consent in this regard.

Thanking you.


Prof. Arun Sankpal
(Faculty coordinator)


Prof. Rahul Hdage
Head of the Department
CIVIL ENGINEERING
HOD
Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045


Dr. A.B. Auti
Principal
PRINCIPAL

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045





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Founder President: Shri Rambhau Moze

Date:29/08/2018

To,
Executive Engineer,
Environmental Engineering department
Pcmc ,Pune-06

Letter of thanks


Respected Sir,

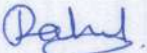
The Genba Sopanrao Moze trust is an educational trust, a pioneer in imparting quality professional's education in field of Engineering. It has established two campuses in Pune at Wagholi & Balewadi.

We Department of Civil Engineering of Genba Sopanrao Moze College of Engineering, Balewadi, Pune, would sincerely thank you for giving us permission to visit your water treatment plant. We really appreciate the time spent with our students and information shared by you. We hope our students received precious knowledge which will definitely help them in their Curriculum.

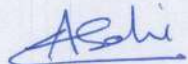
Thanking you.

Yours Regards,


Prof. Arun Sankpal
(Faculty coordinator)


Prof. Rahul Hodage

Hod
Head of the Department
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045


Dr. A.B. Auti
(GSMCOE, Balewadi)

PRINCIPAL
Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045



2018-19/BE/EE-II / site visit

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25/1/3, Balewadi, Pune - 411045. Ph: 020-27390500

Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in

Department of Civil Engineering



Date: 29/8/2018

Ref. No : gsm/ce/2018/Aug/595

To

The Executive Engineer,

Waste Water Treatment Plant,

Pimpri Chinchwad Pune.

Subject: Request to grant the permission for the visit to Waste Water Treatment Plant

Respected Sir,

We are one of the reputed institute offering various technical Degree and Diploma courses, approved by AICTE Delhi, Govt. of Maharashtra, DTE and affiliated to Savitribai Phule Pune University (SPPU).

With reference to above mentioned subject above as per the course curriculum for the subject Environmental Engineering part II of final year Civil Engineering students, we would like to arrange a visit to Waste Water Treatment Plant, and to know the various unit operations involved in waste water treatment plant and working and construction of Sewage Treatment Plant.

It's a kind request to grant us permission for the same along with students and faculties on any working day as per your convenience date (tentatively between 1 September to 15 September 2018). We will be thankful if you do the needful and allot us in-charge person who will explain us in detail the working and construction of Sewage Treatment Plant.

No of Students: 125 65 *Male*

Faculty Member: 3

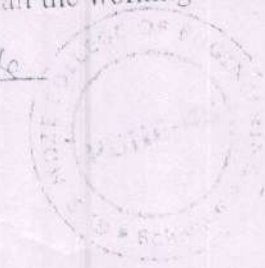
Thank you,

[Signature]
Contact person (Faculty)

Prof. Arun D. Sankpal

Mob: 8600340373

Mob: 8459265866



H.O.D. *[Signature]*

**Head of the Department,
CIVIL ENGINEERING**

Genba Sopanrao Moze College of Engineering,

25/1/3, Balewadi, Pune-411 045.

[Signature]
Principal

Dr. A. B. Auti

PRINCIPAL

विद्या (सर्वज्ञानं)
विद्या-विभवः महान्मर्यादाः

पिंपरी चिंचवड महानगरपालिका, पिंपरी पुणे ४११०१८.
सामान्य पावती

पावती क्रमांक GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING दिनांक :

नाव : श्री/मे. BALEWADI

रा. : RUPEES ONE THOUSAND EIGHT HUNDRED ONLY

यांच्याकडून अक्षरी रुपये :

Visit Fee 1800.00

याबद्दल रोख/चेकने मिळाले.

हस्ते :

रुपये :

Cash Amt 1800.00

CHEQUE/DD 0.00

चेक/डी.डी.नं.:

बँक TOTAL 1800.00

अकॉंट

पिंपरी चिंचवड महानगरपालिका
पिंपरी - १८ रोख विभाग
३०४ SEP 2018
Received / मिळाले
रोखपाल/लिपोक



Create competent Socially Responsible Civil Engineers
Genba Sopanrao Moze Trust's
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING
Balewadi, Pune - 411045.



Civil Engineering Department
Academic Year 2018-2019
BE Students Roll Call

Class - BE **DIV B**

Site Visit Attendance

Roll No	Names of students	Sign
B-01	PANZADE ANIKET	aniket
B-02	PATIL PRASAD NITIN	nitin
B-03	PATKAR SUMANT	-
B-04	PAWAR KAUSTUBH	-
B-05	RAGHUVANSHI SHUBHAM NANDKISHORE	-
B-06	RAJPUT MANTHAN D	-
B-07	RAKSHE SURAJ VASANT	suraj
B-08	RATHOD PRAGATI PARASRAM	rathod
B-09	RAUT AJAY PANDURANG	-
B-10	RAUT AJINKYA DHANRAJ	-
B-11	RAUT GAURAV GULAB	-
B-12	ROSHNI DEVCHANDRA NINGTHOUJAM	roshni
B-13	SAGAR PRATHAM DILIP	sagar
B-14	SAID KAJAL	said
B-15	SAMAGE VIJAY RAJU	vijay
B-16	SANAP AVINASH GANPAT	ganpat
B-17	SANE AMIT VIJAY	-
B-18	SANGLE BABURAO	-
B-19	SAPARIYA BAVESH	-
B-20	SASTE SAGAR RAJARAM	-
B-21	SHAIKH MUBARAK SIRAJ	siraj
B-22	SHARDUL MAHAJAN	shardul
B-23	SHELKE VAIBHAV	vaibhav
B-24	SHINDE JYOTI SURESH	suresh
B-25	SHINDE MAHESH VILAS	vilas
B-26	SHINDE NIKHIL LAXMAN	-
B-27	SHINDE ROHIT MADHAVRAO	-
B-28	SHINDE SHREYASH VINOD	-
B-29	SHINDE SURAJ TANAJI	tanaji
B-30	SHUBHAM SUDHIR NAGARKAR	-
B-31	SWAMI VAISHNAVI	swami
B-32	TANDALE KISHOR HARIBHAU	haribhau
B-33	VATTE BHUSHAN NAGESH	nagesh
B-34	WAGHMODE PRUTHVIRAJ	pruthviraj
B-35	WALKE MANDAR SANJEEV	sanjeev
B-36	WANKHEDE ANKIT SANJAY	ankit
B-37	WANVE PRITI NARAYAN	priti



B-38	WARADE TUSHAR GAJANAN	<i>Wade</i>
B-39	WARUDKAR SANCHIT ANILKUMAR	<i>Wade</i>
B-40	ZINJADE KIRAN SURESH	<i>Zin</i>
P-01	MUNDE NILESH SHIVAJIRAO	—
P-02	NITIN DATTARAY AMBHORE	—
P-03	RAJIKA GURAV	—
P-04	CHOUGULE SOMESH SHIVAJI	—
P-05	HIPPARGI SHADAAB NAUSHADALI	—
P-06	RANGNATH RAMESH NARWADE	—
P-07	TUPE ANANT	—
P-08	SAURABH GAVALI	<i>Saurabh</i>
P-09	SHINDE APURVA	<i>Shinde</i>
P-10	TARATE KRISHNA	<i>Tarate</i>
P-11	RAJPUT KIRAN NANA	—
P-12	DEVANSH AJAYKUMAR DESHMUKH	—
P-13	SACHIN SHETE	<i>Shete</i>
P-14	SHARDUL THIGALE	<i>Shardul</i>
P-15	YELMAME VAIBHAV	<i>Yel</i>
P-16	WAGH CHIRAG GULABRAO	<i>Wagh</i>
P-17	KULDEEP KATALE	<i>Kul</i>
P-18	KATKEMOD POOJA SHIVDAS	<i>Kat</i>
P-19	KOKANE AISHWARYA AMOL	<i>Kokane</i>
P-20	SHAIKH MAAZ	<i>Shai</i>
P-21	RAUT AVINASH G.	<i>Raut</i>

Arun
Prof. Arun sankpal
Faculty Coordinator

Rahul
Prof. Rahul Hodage
H.O.D

Head of the Department
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045.



Create competent Socially Responsible Civil Engineers
Genba Sopanrao Moze Trust's
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING
Balewadi, Pune - 411045.



Civil Engineering Department
Academic Year 2018-2019
BE Students Roll Call
Class - BE **DIV A**
Site visit attendance

Roll No	Names of students	Sign
A-01	ARUN SINGH	<i>Arun</i>
A-02	AUDGE ASHWINI ATMARAM	<i>Audge</i>
A-03	BANSODE RANJANA RAMESH	<i>Bansode</i>
A-04	BHANDARE KISHOR	<i>Kishor</i>
A-05	BHORE VAISHNAVI VIVEKANAND	—
A-06	BHOSALE DIGVIJAY DATTATRAY	—
A-07	BHOSALE SHREYASH SUDHIR	—
A-08	BIRADAR POOJA SHRIRAM	—
A-09	BOTRE RAHUL VITHOBA	<i>Vithoba</i>
A-10	CHAUHAN KANHAYA LAXMINARAYAN	—
A-11	CHAUHAN KRISHNAMOHAN R	<i>KR</i>
A-12	CHOUDHARI GAURI BHAGAWAT	<i>Gauri</i>
A-13	CHOUGULE ANIKET SUNIL	<i>Aniket</i>
A-14	DABHOLKAR SOHAM RAJENDRA	<i>Soham</i>
A-15	DESHMUKH RAJWARDHAN	<i>Rajwardhan</i>
A-16	DEVKAR SHUBHAM RAJABHAU	<i>Shubham</i>
A-17	DIDWAGH DHANAJI HANMANT	<i>Dhanaji</i>
A-18	FARANDE MAYUR NAMDEO	<i>Namdeo</i>
A-19	GANDHI GAURAV HARSHAD	<i>Gaurav</i>
A-20	GARJE VIVEK	—
A-21	GHOLANE MAHESH	—
A-22	GOPALE NIKHIL MANISH	—
A-23	GORE MARUTI DAGADU	—
A-24	HINDRE SWAPNIL	<i>Swapnil</i>
A-25	HULAWALE PRATIK SHIVAJI	<i>Pratik</i>
A-26	JADHAV AKASH VENKATESH	<i>Akash</i>
A-27	JADHAV PRAVIN VILAS	<i>Pravin</i>
A-28	JADHAV ROHAN	<i>Rohan</i>
A-29	JAGDALE SUHAS SHIVAJI	<i>Suhas</i>
A-30	JAGIRDAR A. MOHID A. NAJIB	<i>Mohid</i>
A-31	JAMDADE DNYANESH SHIVAJI	<i>Dnyanesh</i>
A-32	KABUTARE PRASHANT KISAN	<i>Prashant</i>
A-33	KADAM VISHAL DATTATRAY	<i>Vishal</i>
A-34	KAKADE ARJUN RAGHUNATH	—
A-35	KAMBLE PANKAJ RAJESH	—
A-36	KANAME ABHIJEET BALAJI	—
A-37	KAPSE SAGAR ANKUSH	—



A-38	KETAN HAWALDAR	
A-39	KHAIRE AKSHAY BHANUDAS	—
A-40	KHATATE VINIT DINESH	—
A-41	KONJARE CHANDRAKANT P	—
A-42	KULKARNI RUSHIKESH	—
A-43	KUMAR PANKAJ KUMAR PAL S	—
A-44	LOKHANDE AMOL VITTHAL	Amol
A-45	LOMATE PRITAM	Pritam
A-46	MAHALE NEIL	Neil
A-47	MOHITE ROHIT DNYANESHWAR	Rohit
A-48	MURTADAK SHUBHAM	Shubham
A-49	NADAF FARUKH	Farukh
A-50	NAGE AKSHAY	Akshay
A-51	NAIKWADI ROHAN SHIVAJI	Rohan
A-52	NAKHATE NIKHIL	Nikhil
A-53	NANAVARE SANKET	Sanket
A-54	NEAVASE PRUTHIVIRAJ	Pruthiviraj
A-55	PAKHLE ROHAN SHRIKANT	—
A-56	PALKAR DAYANAD TUKARAM	—
A-57	PANCHAL PRAMILA	—

Arun

Prof. Arun Sankpal
Faculty Coordinator

Rahul

Prof. Rahul Hodage

H.O.D
Head of the Department
CIVIL ENGINEERING

Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045



Following are the various unit operations carried out at visited Waste Water Treatment Plant:

1. Receiving Chamber.
2. Coarse Screen.
3. Wet Well.
4. Fine Screen.
5. Mechanical grit chamber.
6. S.B.R. unit.
7. Centrifugation unit.
8. Chlorine contact tank.

1. Receiving Chamber:

Receiving chamber is the first unit where the whole waste water from sewer is first collected in the receiving chamber.

The receiving chamber is designed for the peak flow condition.

The detention time of the receiving chamber is 30 sec.

The main function of the receiving chamber is to collect the waste water and reduce its velocity before transferring the flow to the next unit.

2. Coarse Screen:

Mechanical coarse screen is provided at the visited plant at River Site.

The Ultra sonic transmitters are provided at the top and bottom and the head loss is measured. Depending upon the head loss the screens automatically starts for working.

The maximum head loss is the 300 mm, when it reach this limit it automatically starts working.

The floating matter, debris, are removed by the coarse screen, and conveyed towards the conveyer belt from the conveyer belt it is transfer to the small cart and finally disposed to the in municipal solid waste for landfilling.



3. Wet well:

After passing flow through the screen then it is diverted towards the wet well where it is stored and by means of the pump it is pumped out taken to the grit chamber.

The total eight numbers of pumps are provided in the wet well. Depending upon the flow the no of pumps is operated.

4. Fine Screen:-

The mechanical operated step type screens are provided at the visited site.

The 2mm thickness bars are provided at centre to centre 5mm distance which effectively removes the particle size up to 6mm size flowing matter from the waste water.

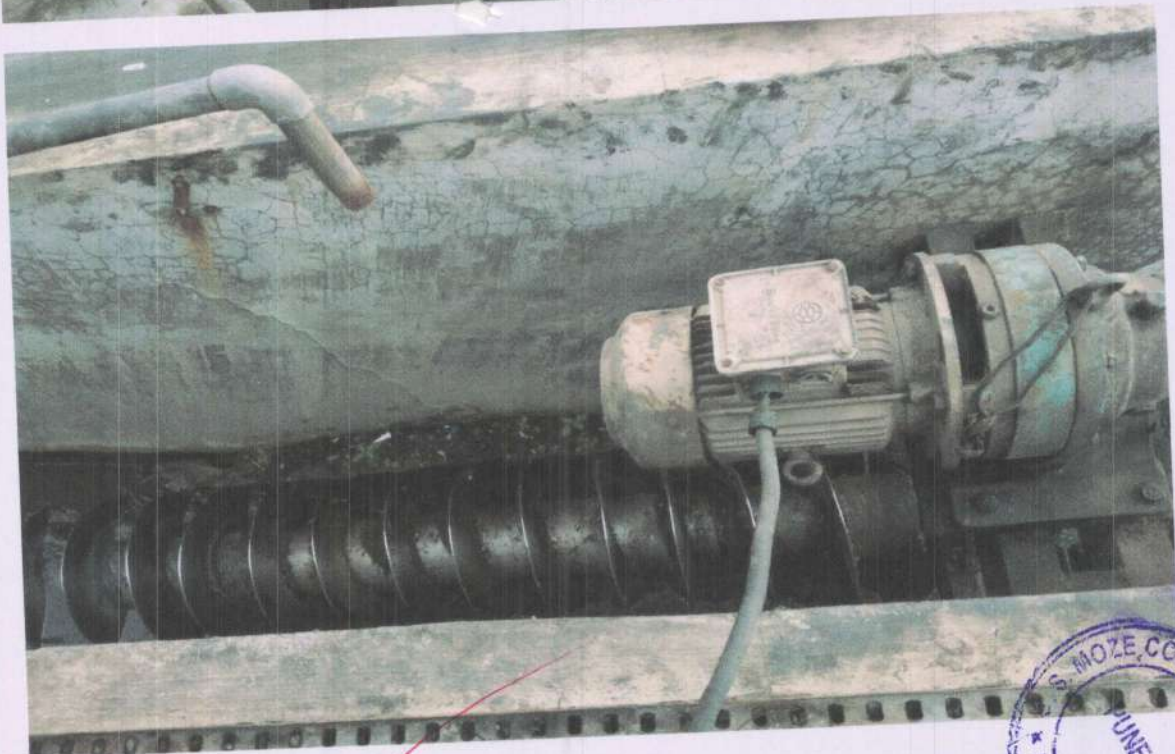


5. Mechanical grit chamber:

Grit chambers are basin to remove the inorganic particles to prevent damage to the pumps, and to prevent their accumulation in sludge digestion process.

At the visited plant the mechanically operated grit chamber are provided.

In mechanically cleaned grit chamber, scraper blades collect the grit settled on the floor of the grit chamber. The grit so collected is carried towards the screw type grit removal system and it is removed.



6. S.B.R. unit:-

The flow from the grit chamber via collecting launder it is taken to the SBR unit for further process.

At the visited plant the Sequencing Batch Reactor (SBR) process is used to treat the waste water.

SBR Process:

The Sequencing Batch Reactor (SBR) process has been extensively used in Europe and the United States in the past two decades. Its use in India has been limited to date, although within the last few years approximately treatment plants using this technology were constructed in various cities of India. One of the obstacles in the acceptability of SBR process has traditionally been the need for precise, automated and reliable control of various stages of the process. Recent developments in the programmable logic controller (PLC) technology, however, have made the control of an SBR process readily achievable. The SBR process is an activated sludge process in which the sewage is introduced into a Reaction Tank (or SBR Tank), one batch at a time. Wastewater treatment is achieved by a timed sequence of operations which occur in the same SBR Tank, consisting of filling, reaction (aeration), settling, decanting, idling, and sludge wasting. The various stages in the sequence are as follows:

Stage 1: Filling

During this stage the SBR Tank is filled with the influent wastewater. In order to maintain suitable F/M (food to microorganism) ratios, the wastewater should be admitted into the tank in a rapid, controlled manner. This method functions similarly to a selector, which encourages the growth of certain microorganisms with better settling characteristics.

Stage 2: Reaction

This stage involves the utilization of biochemical oxygen demand (BOD) and ammonia nitrogen, where applicable, by microorganisms. The length of the aeration period and the sludge mass determines the degree of treatment. The length of the aeration period depends on the strength of the wastewater and the degree of nitrification (conversion of the ammonia to a less toxic form of nitrate or nitrite) provided for in the treatment.

Stage 3: Settling

During this stage, aeration is stopped and the sludge settles leaving clear, treated effluent above the sludge blanket. Duration for settling varies from 45 to 60 minutes depending on the number of cycles per day.

Stage 4: Decanting

At this stage of the process effluent is removed from the tank through the decanter, without disturbing the settled sludge.

Stage 5: Idling



The SBR Tank waits idle until it is time to commence a new cycle with the filling stage.

Stage 6: Sludge Wasting

Excess activated sludge is wasted periodically during the SBR operation. As with any activated sludge treatment process, sludge wasting is the main control of the effluent quality and microorganism population size. This is how the operator exerts control over the effluent quality by adjusting the mixed liquor suspended solids (MLSS) concentration and the Mean Cell Residence Time (MCRT).

In this process, the SBR Tank acts as the equivalent of several components in the conventional activated sludge treatment process, as follows:

1. **Aeration Tank:** the SBR Tank acts as an aeration tank during the reaction stage where the activated sludge is mixed with the influent under aerated conditions.
2. **Secondary Clarifier:** the SBR Tank acts as a secondary clarifier during the settling and decanting stages where the mixed liquor is allowed to settle under quiescent conditions, and the overflow is discharged to the next stage of treatment.
3. **Sludge Return System:** the activated sludge, following settling in the SBR Tank, is mixed with the influent similar to the sludge return system, except that the feed is transferred to the sludge rather than the sludge being transferred to the front end of the plant.

An advanced sequential batch reactor technology. This technology is extensively used for treating domestic sewage and industrial effluents. A very high degree of treatment of waste water is achieved which makes it suitable for recycle and reuse at a very low cost of treatment and by using minimum space.

Waste water Treatment Process:

It is a **CYCLIC ACTIVATED SLUDGE TREATMENT** process. It provides highest treatment efficiency possible in a single step biological process.

The System is operated in a batch reactor mode this eliminates all the inefficiencies of the continuous processes. A batch reactor is a perfect reactor, which ensures 100% treatment. Two or more modules are provided to ensure continuous treatment. The complete process takes place in a single reactor, within which all biological treatment steps take place sequentially.

No additional settling unit, secondary clarifier is required.

The complete biological operation is divided into cycles. Each cycle is of 3 hrs duration, during which all treatment steps take place.



Explanation of cyclic operation:

A basic cycle comprises:

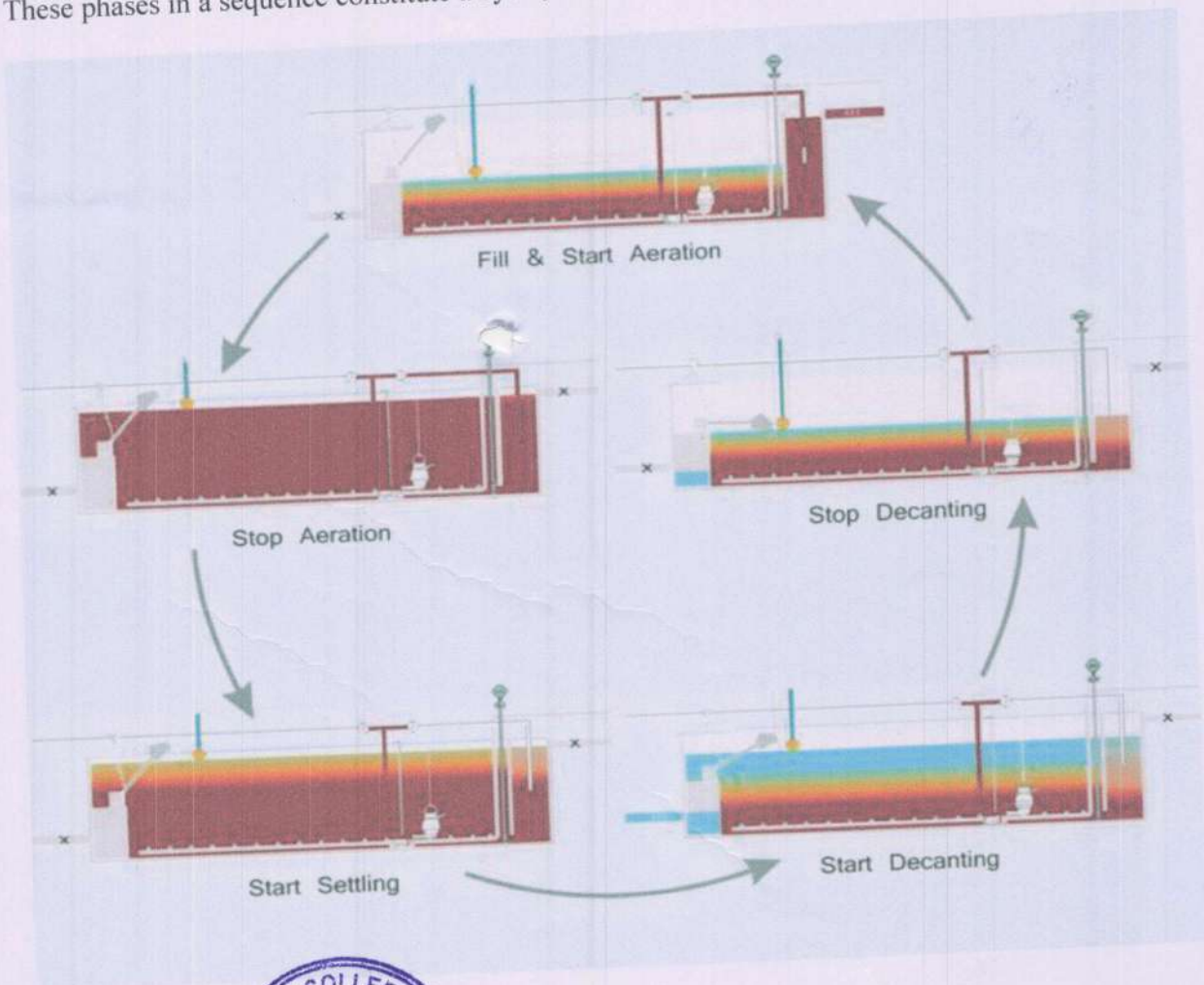
- Fill-Aeration (F/A)
- Settlement (S)
- Decanting (D)

These phases in a sequence constitute a cycle, which is then repeated.

A Typical Cycle:

During the period of a cycle, the liquid is filled in the Basin up to a set operating water level. Aeration Blowers are started for a pre-determined time to aerate the effluent along with the biomass. After the aeration cycle, the biomass settles under perfect settling conditions. Once settled the supernatant is removed from the top using a DECANTER. Solids are wasted from the tanks during the decanting phase.

These phases in a sequence constitute a cycle, which is then repeated.



A Typical Cycle



7. Centrifugation unit:-

The next step after the treatment of waste water is to treat the settled sludge from the SBR unit.

The consistency of the sludge increases by the 20%.

The sludge is passed through this mechanical unit where centrifugation of sludge is carried out and then it is taken to the final disposal.

Centrifuges are effective pieces of equipment for dewatering solids skimmed off most wastewater systems. Centrifuges provide cost saving advantages:

- 70% reduction of total disposal volume.
- Produces stackable cake-like sludge.
- Reduces handling costs.
- Increases options for sludge disposal.

8. Chlorine contact tank:

Disinfection of municipal wastewater is necessary for safe potable water supplies and for healthy rivers and streams. Microorganisms are present in large numbers in sewage treatment plant effluents and waterborne disease outbreaks have been associated with sewage-contaminated water supplies or recreational waters.

Chlorination is by far the most common method of wastewater disinfection and is used worldwide for the disinfection of pathogens before discharge into receiving streams, rivers or oceans. Chlorine is known to be effective in destroying a variety of bacteria, viruses and protozoa, including Salmonella, Shigella and Vibrio cholera.

The detention time for the chlorination unit provided is 30 min.

The dose of chlorine-5ppm.

After the waste water treatment the treated water is used for the construction activity in the nearby areas.

It is also used at the treatment plant for the gardening, and other secondary purposes.



Advantages of SBR Technology:

- 1. All unit operation in Single Reactor Vessel:** One single reactor basin provides all of the unit operations like Equalization, primary clarification (in most cases), biological treatment, and secondary clarification can be achieved in a single reactor vessel.
- 2. High efficiency of removal:** This process can be operated and controlled with flexibility for efficient removal of organic matter, suspended solids, nitrogen, and phosphorus under all loading conditions. Provides enhanced organic phosphorus removal with or without chemical augmentation.
- 3. Reuse of effluent:** An effluent quality suitable for reuse.
- 4. Bulking of Activated sludge:** This process can control the growth of filamentous bacteria and hence prevent bulking of activated sludge. Hence there are no operational problems like sludge bulking.
- 5. Saving of Capital Cost and Area requirement:** This process saves capital cost by eliminating final sedimentation tanks. As secondary sedimentation tanks are not required in this process, the area needed is also minimal as simultaneous multiprocessing takes place in a single reactor basin (approximately 100 m²/1000 m³ only needed for SBR Tanks)
- 6. Easy for Future Expansion:** Allows for easy modular expansion for population growth, modular configurations and cyclic operation is easily managed to provide continuous inflow and outflow hydraulic profiles dispensing with the need for outflow hydraulic balancing

Disadvantages of SBR:

1. High maintenance cost:

Compared to the conventional activated sludge system, a higher level of sophistication and maintenance can be associated with more automated switches and valves.

2. Basin depth: Should be sufficient to provide an adequate clear water depth over the sludge blanket to prevent settled solids entrainment

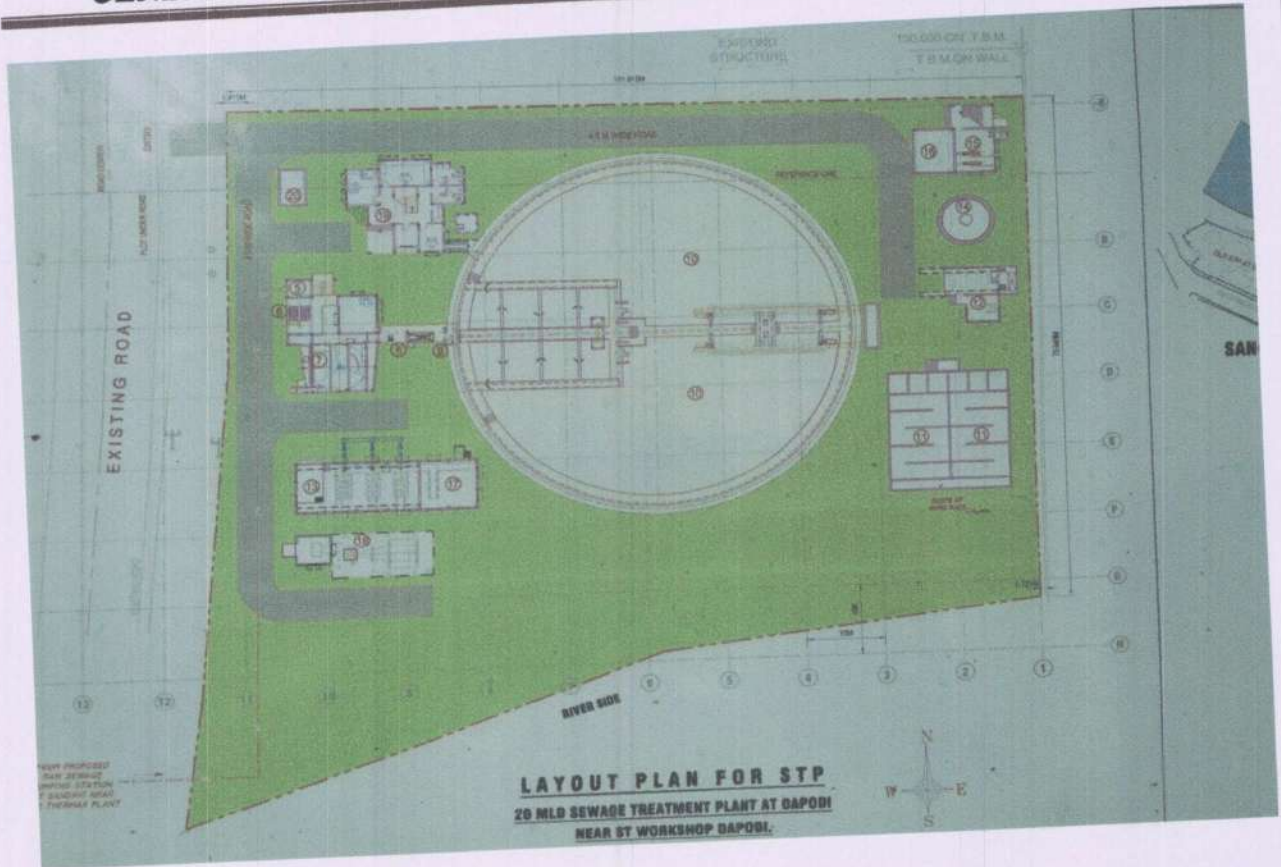
3. Flow balancing: In small single stream SBR systems approximately less than 10 MLD, effluent flow balancing may be needed for downstream processing, such as filtration or disinfection.

4. Larger capacity aeration system relative to aeration time per cycle and per day is required compared as to conventional activated sludge system.

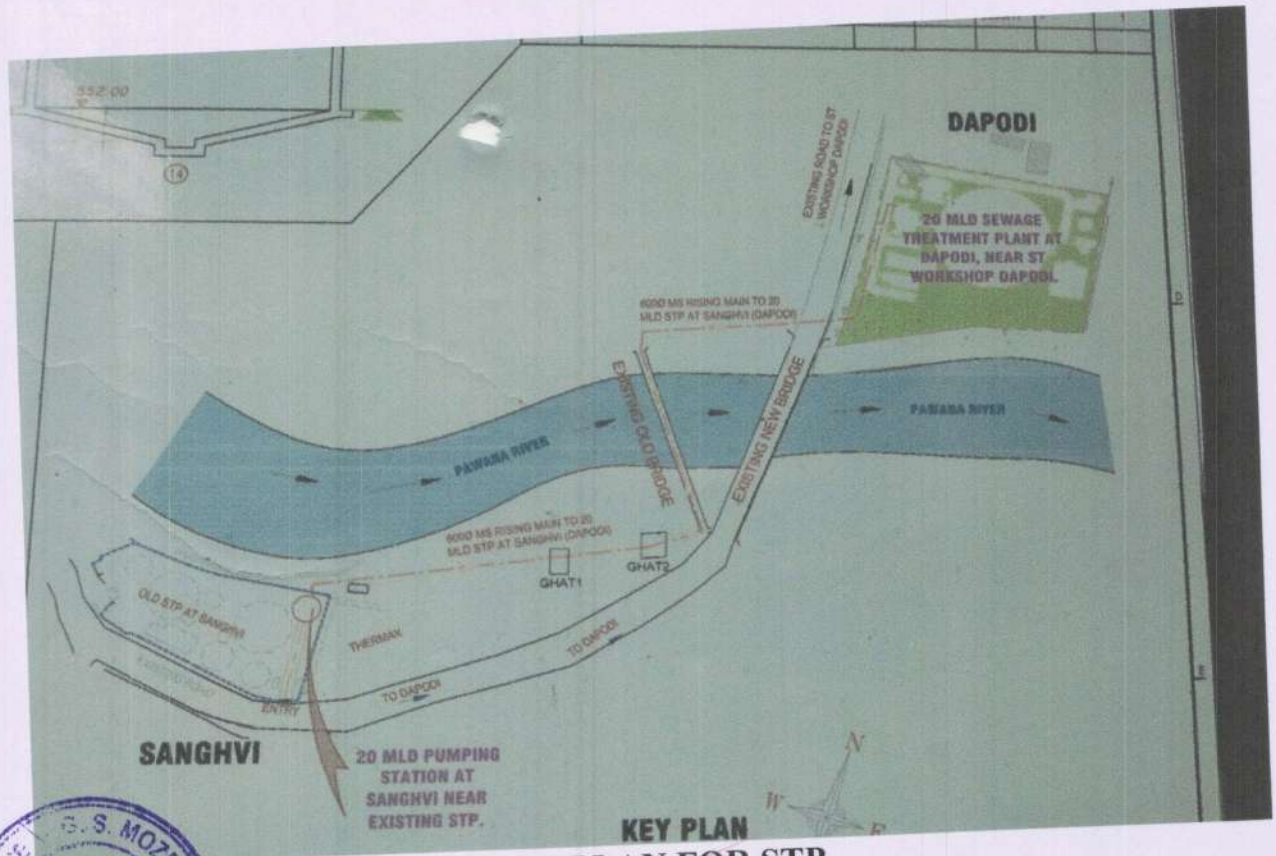
5. All the SBR plants must be designed to cater to the peak flows. A minimum of two tank system is required.



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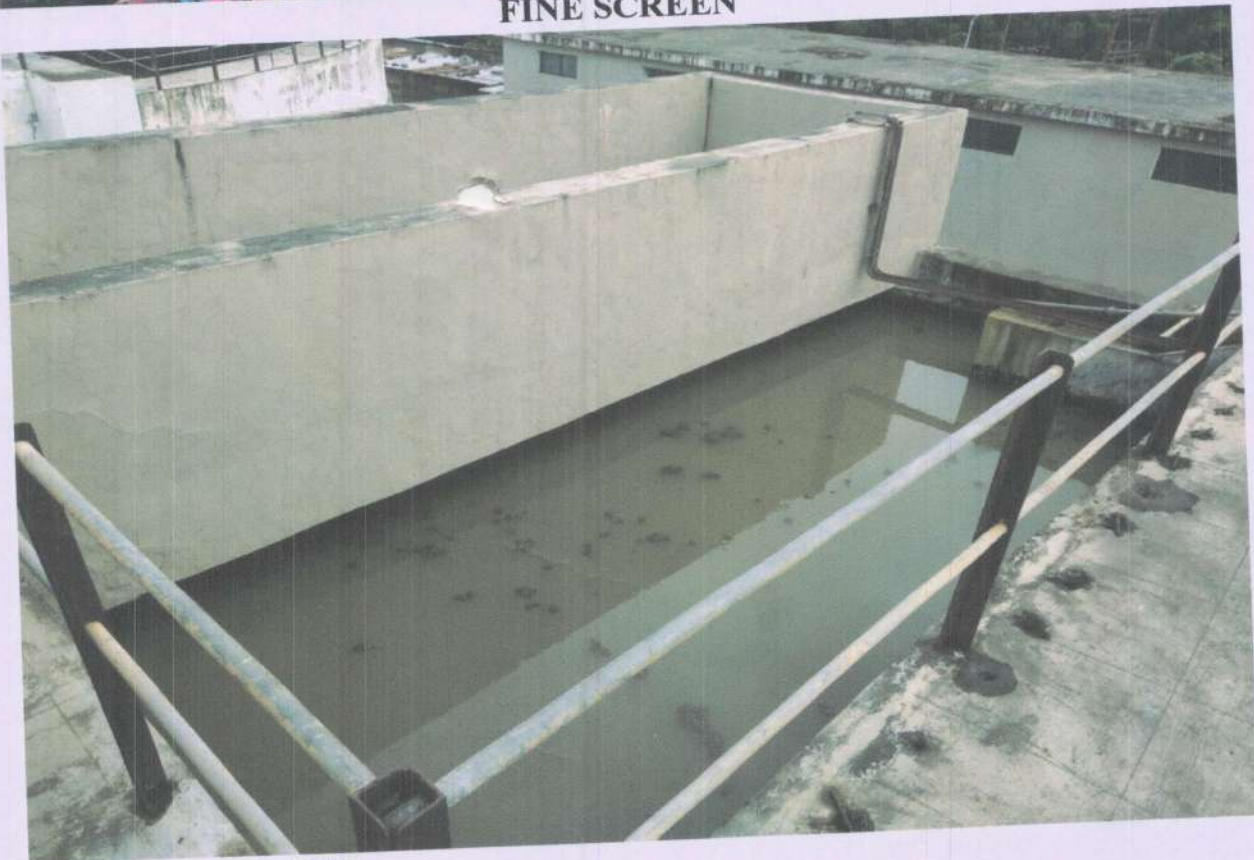


LAYOUT PLAN FOR STP





FINE SCREEN

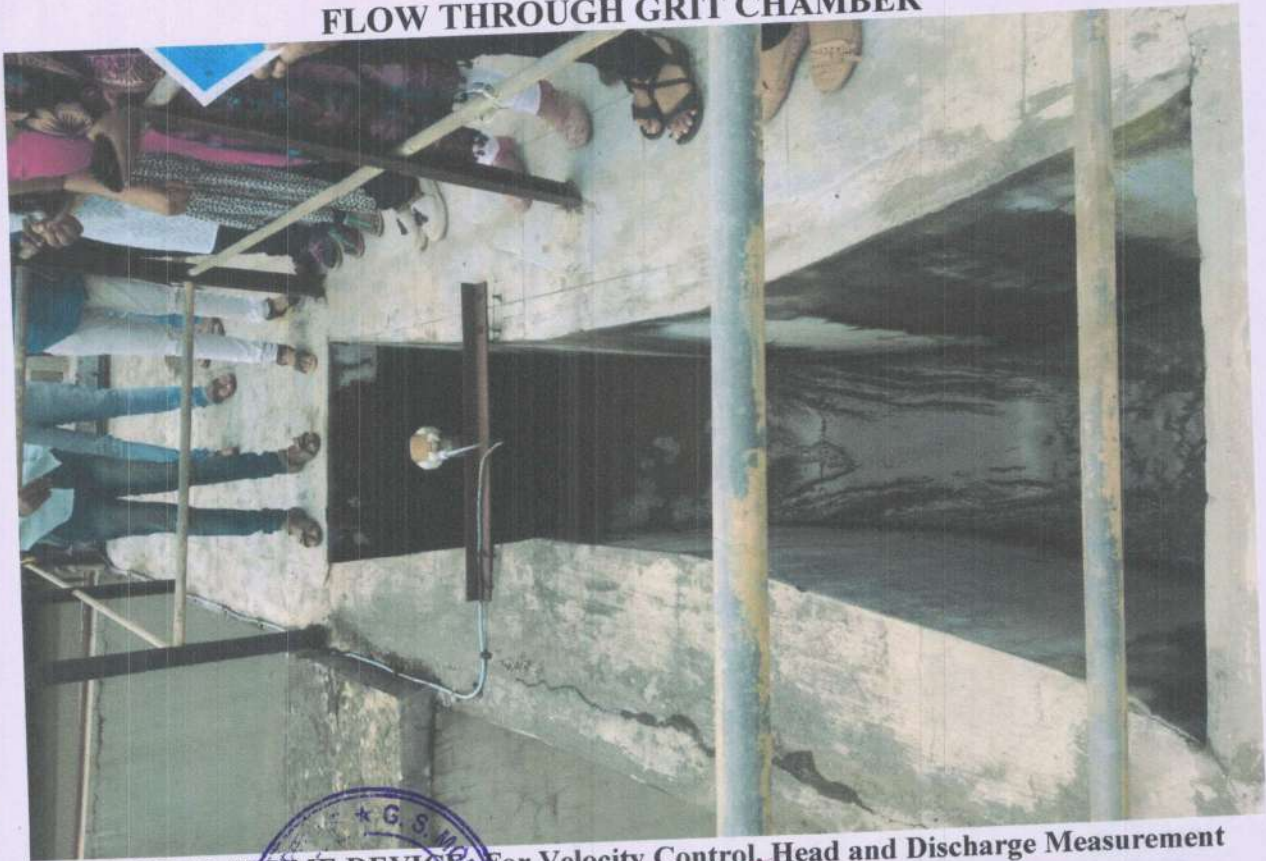


GRIT CHAMBER





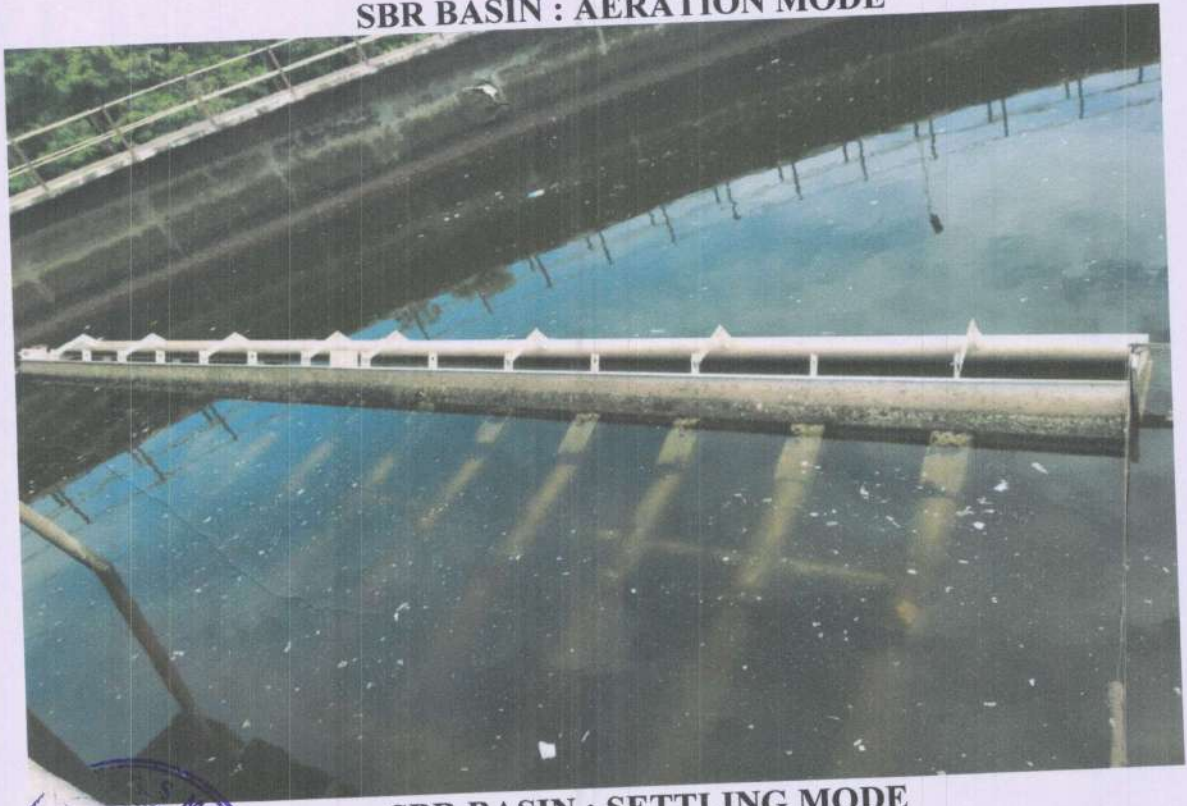
FLOW THROUGH GRIT CHAMBER



PARSHAL FLUME DEVICE For Velocity Control, Head and Discharge Measurement

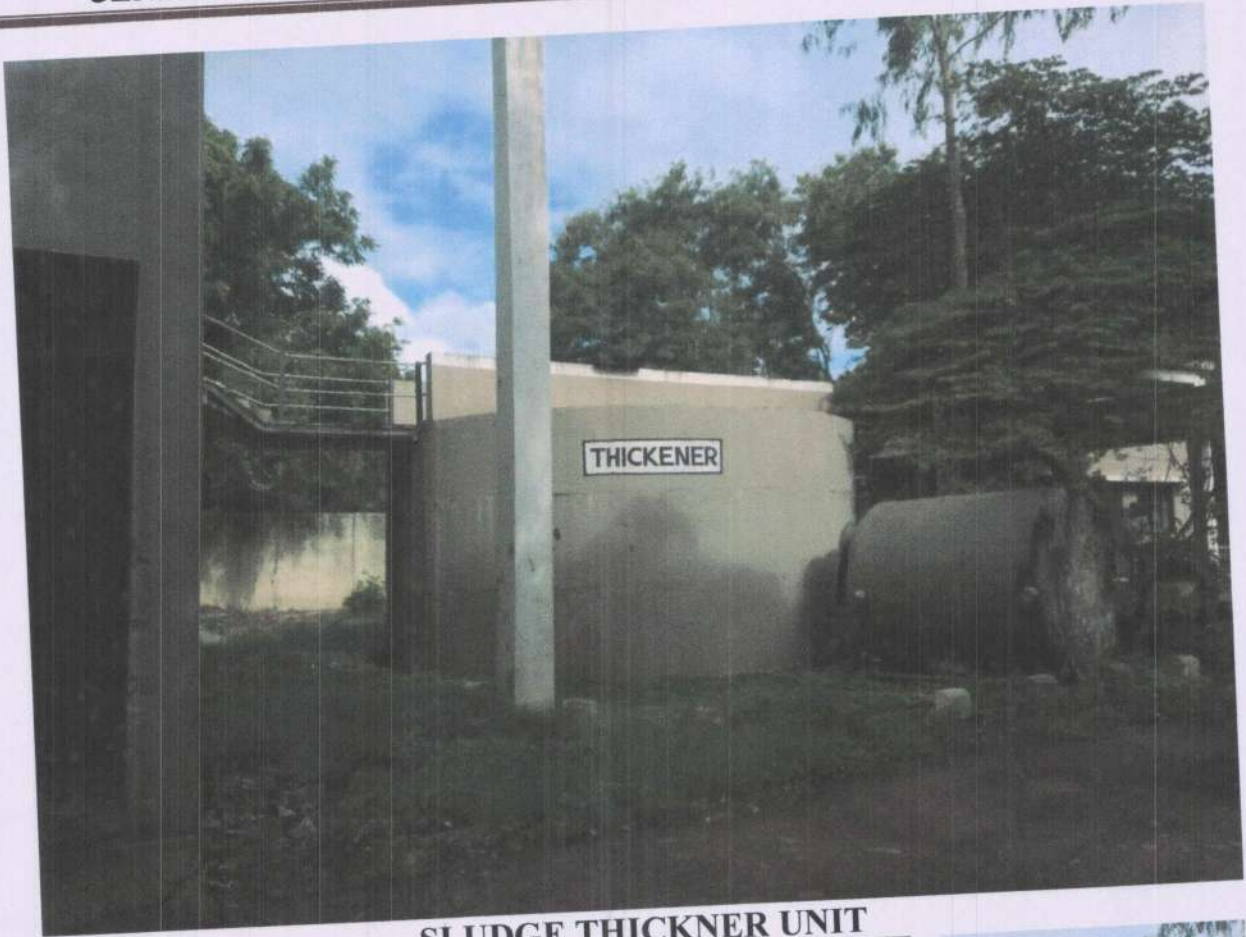


SBR BASIN : AERATION MODE

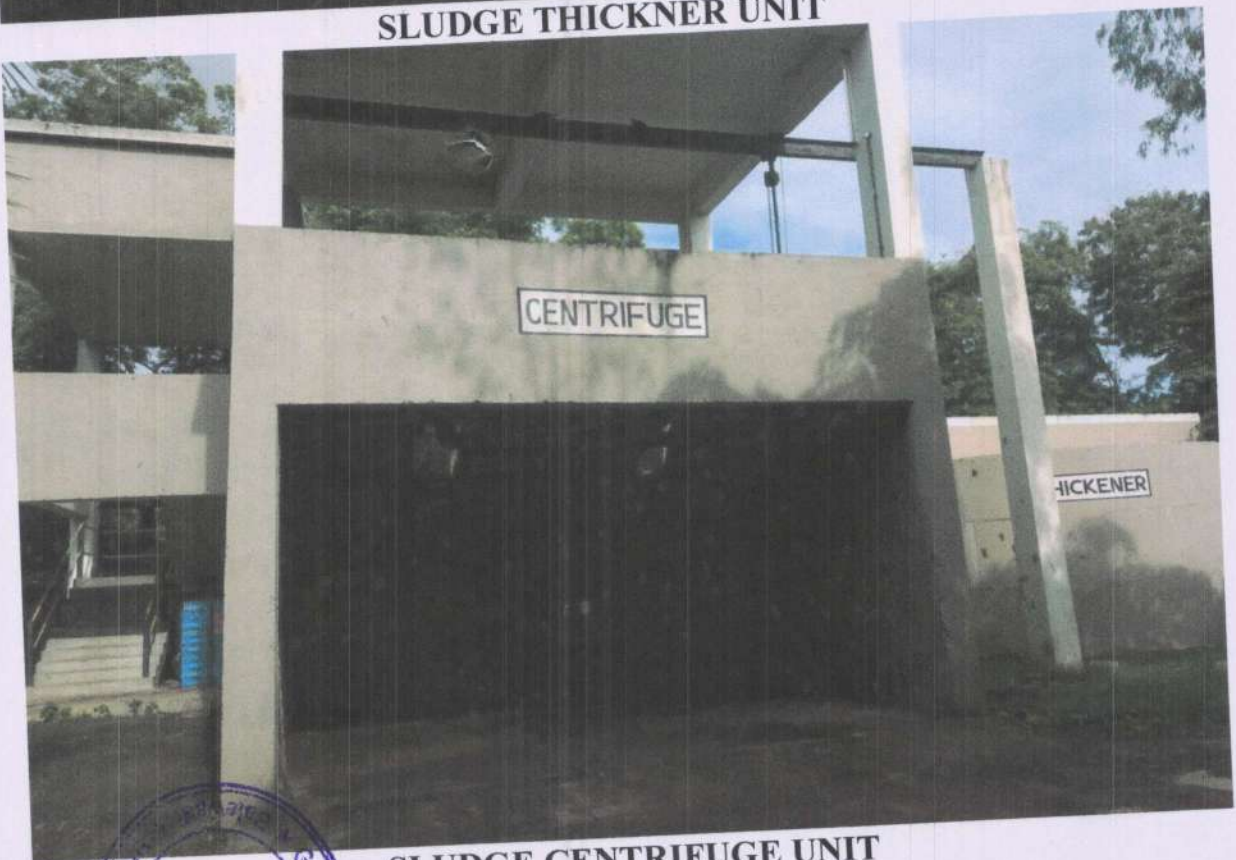


SBR BASIN : SETTLING MODE





SLUDGE THICKNER UNIT

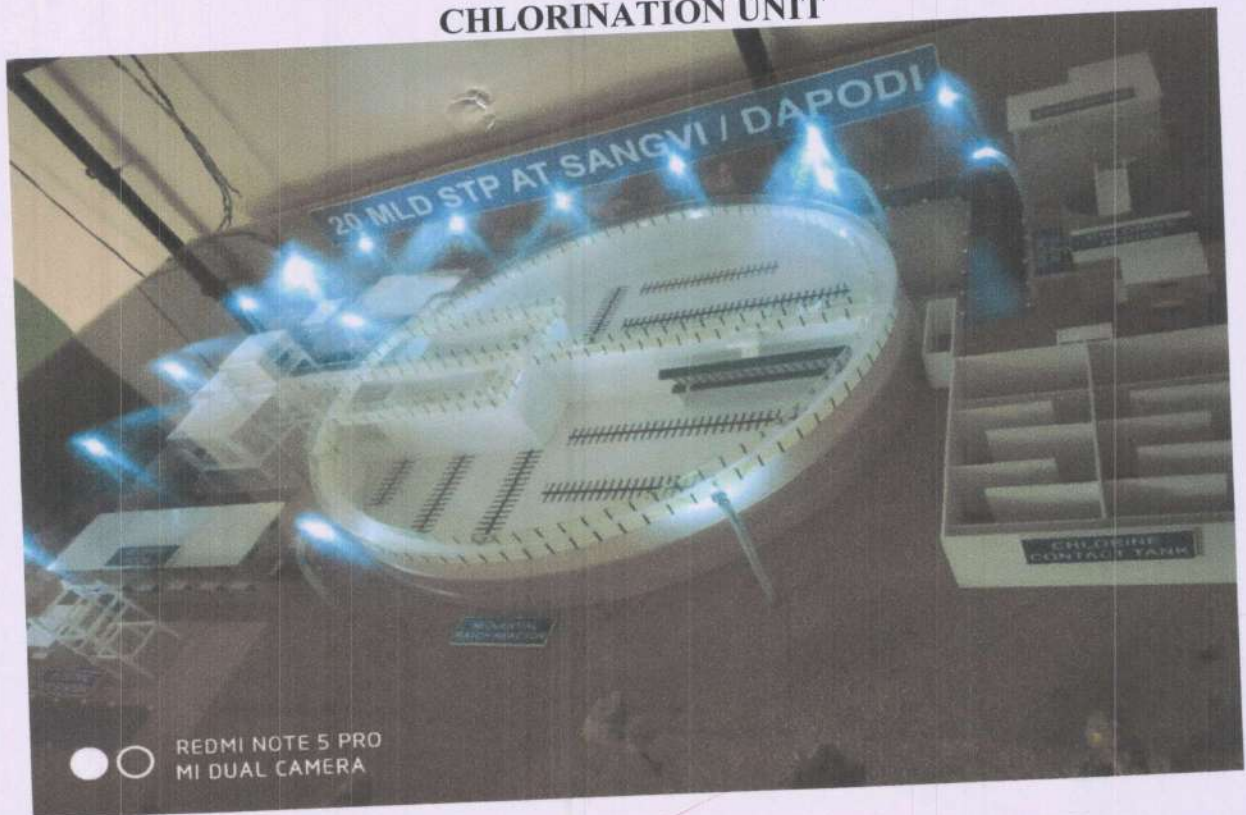


SLUDGE CENTRIFUGE UNIT





CHLORINATION UNIT



3D MODEL VIEW OF 20 MLD STP AT SANGHAVI (DAPODI)

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FINAL YEAR STUDENTS OF BE CIVIL FOR ACADEMIC YEAR 2018-19



Sankpal

Thanking

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Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in



Department Of Civil Engineering


Date-7/04/2019

SITE VISIT NOTICE

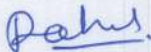
All the students of B.E. are hereby informed that site visit to Water Treatment plant has been arranged on -8/04/2019. All Students must be present at 10 am sharp in college premises.

NOTE:

- **STUDENTS MUST BE PRESENT IN COLLEGE UNIFORM**
- **STUDENTS SHOULD CARRY WATER BOTTLE, CAP, SHOES etc**
- **ATTENDANCE IS COMPULSORY**


Prof. Arun Sankpal

(Faculty coordinator)


Prof. Rahul Hodage

HOD
Head of the Department
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045





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S. No. 25/1/3, Balewadi, Pune - 411 045

(Approved by AICTE and Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University)

DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph. 020-27390500 Website www.gsmozecoe.org Email gsmoze@yahoo.co.in

Founder President **Shri Rambhau Moze**

Ref. No. GSMCOE/ADMIN/18-19/122

Date 2/4/19

To,

The Executive Engineer,
Water Treatment Plant,
Sector No-26A, Nigadi Pradhikaran,
Pimpri-Chinchwad Pune

Subject: Regarding permission to visit site Construction at Wakad

Respected Sir,

We introduce ourselves as G. S. Moze College of engineering Balewadi is affiliated to University of Pune and approved by AICTE New Delhi. The college runs five UG program including Civil Engineering.

There would be a total of 100-120 students accompanied by 02 faculty members are interested to Visit your **Water treatment Plant** as a part of TE SPPU Syllabus in Environmental Engineering Subject. The visit is aimed at enhancing their Practical knowledge. We intend to take a round of the entire Construction. I assure you that no nuisance will be created and the visit will be carried out with proper discipline. I hope you will give us permission to visit the same.

We are expecting visit on date (8/04/19)

Looking forward for your positive consent in this regard.

Thanking you.

Prof. Arun Sankpal

(Faculty coordinator)

Prof. Rahul Hodage

HoD

Head of the Department
CIVIL ENGINEERING

Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045

Dr. A.B. Auti

PRINCIPAL

Principal

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045



2018-19/ TE/EE-I/ SITE VISIT

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Ph. : 020-27390500 Website : www.gsmozecoe.org Email : gsmoze@yahoo.co.in

Founder President : Shri. Rambhau Moze



Ref. No. : Gsm/COE/2019/March/44

Date : 23/03/2019

To
The Executive Engineer,
Water Treatment Plant,
Sector No-26A, Nigadi Pradhikaran
Pimpri- Chinchwad Pune.

जलसुध्दारा केंद्र से.नं.२३
पानीपुरण विभाग
पिंपरी
पुणे
दिनांक
संज्ञक
दस्तावेज संख्या
व दिनांक

222
24/3/19

Subject: Regarding permission for site visit to Water Treatment Plant

Respected Sir,

We are one of the reputed institutes offering various technical degree courses approved by AICTE Delhi, Govt. of Maharashtra, and DTE and affiliated to Savitribai Phule Pune University (SPPU).

With reference to above mentioned subject as per the course curriculum for the subject **Environmental Engineering I** of third year student of Civil Engineering Department, we would like to arrange a site visit to Water Treatment Plant

It's a kind request to grant us permission to visit the site along with **100-120 students** and **2 faculty** members on any working day as per your convenience on tentative duration (**25th March to 2nd April 2019**). We will thankful if you do the needful and allow us in-charge person so that he can explain the details about site.

Thanking you.

Mr. Arun Sankpal

Contact Person

Mobile No: 8600 340 373

8459 265 866

Email: sankpalarun888@gmail.com

Mr. Rahul Hodge

H.O.D

**Head of the Department,
CIVIL ENGINEERING**

Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411 045.

Dr. Abhijeet Auti

Principal

PRINCIPAL

Genba Sopanrao Moze College of Engg
25/1/3, Balewadi, Pune-411 045

Site Visit. 8th & 9th April 2019
at 9:00 a.m.





GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

Founder - President : **Shri Rambhau Moze.**

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S. No. 25/1/3, Balewadi, Pune - 45. Telephone : (020)27290500, Fax : (020)27290500, E-mail : gsmoze@yahoo.co.in

Ref. No.:

Date : 08/04/2019.

To
The Executive Engineer,
Water Treatment Plant,
Sector No-26A, Nigadi Pradhikaran
Pimpri- Chinchwad Pune.

Subject: Letter of thanks for permission and Guidance for Water Treatment Plant Visit.

Respected Sir,

The GENBASOPANRAO MOZE TRUST is an educational trust; a pioneer in imparting quality professional education in the field of engineering it has established two campuses in Pune at Wagholi and Balewadi.

We department of Civil Engineering of Genaba Sopanrao Moze College of Engineering, Balewadi , Pune, would sincerely thanks for allowing and guiding our TE CIVIL Students at Water Treatment Plant. Our TE CIVIL students also want to thank you again for giving the opportunity to study and understand the various unit operations in water treatment plant. We really appreciate the time spent with our students and provided the valuable information .We hope our students received precious knowledge in Environmental Engineering I from you.

Thanking you.


Asst. Prof. Arun Sankpal

Subject In charge

Mobile No: 8600 340 373

8459 265 866

Email: sankpalarun888@gmail.com


Asst. Prof. Rahul Hodge

Head of Civil Engineering Department

**Head of the Department,
CIVIL ENGINEERING**

Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411 045.



Received
8/4/2019

08/04/2019



Genba Sopanrao Moze Trust's
GENBA SOPANRAO MOZÉ COLLEGE OF ENGINEERING

Balewadi, Pune - 411045.

Civil Engineering Department

Create competent Socially Responsible Civil Engineers

Academic Year 2018-2019

Class - TE

DIV: A and B

WATER TREATMENT PLANT SITE VISIT ATTENDANCE

Sr.No.	Roll No	Names of students	Signature
1	A4	ATTARDE BHUSHAN ANIL	Bhushan
2	A7	BADADE SURAJ SHRIKISHAN	S.S. Badade
3	A8	BADE APURVA UTTAM	Abhale
4	A9	BAJABALE SAGAR DINKAR	Sagar
5	A11	BANKAR PRIYA SUBHASH	Priya
6	A12	BELVALKAR SURBHI SUNIL	Surbhi
7	A14	BHUNDE GANESH PANDHARINATH	Bhunde
8	A16	BIRAJDAR GURUSHANT SHANKAR	Birajdar
9	A18	CHATE SACHIN RAMCHANDRA	Sachin
10	A19	CHAVAN SHUBHAM PRADIP	Shubham
11	A21	CHONDHE AJINKYA MANOHAR	Ajinkya
12	A22	CHONDHE SHUBHAM NAMDEV	Shubham
13	A24	DAGADE SHUBHAM PANDURANG	Shubham
14	A25	DANGADE SHUBHAM DHANRAJ	Shubham
15	A32	DHAINJE SOURABH RAVINDRA	Sourabh
16	A33	DHANGAR AKSHAY KASHIRAM	Akshay
17	A34	DHONDDEV PRATIK RAJU	Pratik
18	A36	DONGALE SANGRAM TANAJI	Sangram
19	A39	EKHANDE MAHESH POPAT	Mahesh
20	A43	GAJARE SIDDHARTH ANIL	Siddharth
21	A45	GHADGE SAURABH SUMITRA	Saurabh
22	A46	GITTE MAHESH BAJIRAO	Mahesh
23	A47	GORE SHRIKANT SHIWANNA	Shrikant
24	A50	HIRAVE VISHAL SHIVAJI	Vishal
25	A51	HIRAY POOJA PADMAKAR	Pooja
26	A52	HULPALLE CHAITANYA RAJKUMAR	Chaitanya
27	A53	JADHAV LAXMAN SIDRAMAPPA	Laxman
28	A54	JAYBHAYE MOHIT GOVINDRAO	Mohit
29	A55	JUNGHARE JAYASHREE GAJANAN	Jayashree
30	A57	KALYANI NANASAHEB KALOKHE	Nanasaheb
31	A60	KASHID VEERA UPKAR	Veera
32	A61	KATE ROHAN RAJU	Rohan
33	A64	KOKARE SURAJ POPAT	Suraj
34	A68	LAMBADE AJAY DILIP	Ajay
35	A69	LOKHANDE SHIVANI BHAUSAHEB	Shivani
36	A70	MAGARE RAMABAI NAMDEV	Ramabai
37	A72	MAYUR NAKHATE	Mayur
38	A75	MORE VIKAS CHANDRAKANT	Vikas
39	B4	NIKAM ROMA YASHWANT	Roma
40	B6	PADWAL NILESH SHAM	Nilesh
41	B7	PANDEY ASHUTOSH VINODKUMAR	Ashutosh
42	B16	PAWAR AKSHAY BHAU	Akshay
43	B19	PAWAR YOGESHVAREE LAXMAN	Yogeshvaree
44	B29	RATHOD VIKRAM BHIMRAO	Vikram
45	B32	SAPATE HANUMANT SHIVAJI	Hanumant
46	B33	SARAF SWARALI ANANT	Swarali
47	B37	SHENDRE SUMIT VINODRAO	Sumit
48	B38	SHINDE AMIT BALASAHEB	Amit



49	B39	SHINDE CHETAN KASHINATH	
50	B41	SHINDE SMITA KRISHNADEV	
51	B43	SHIRSATH PRATIK PRALHAD	
52	B46	SOLAPURE SAGAR SURYAKANT	
53	B51	SONKAMBLE AJAY GANESH	
54	B55	TANDALE AKSHAY MANOHAR	
55	B56	TAPKEER JAYDATTA KISHOR	
56	B58	THETE PRAJWAL VILAS	
57	B59	THIKEKAR PURVA DHARMANATH	
58	B66	ZINJADE RAVINDRA SHIVAJI	
59	B67	CHAVHAN AMOL KISHOR	
60	B75	VENGURLEKAR MIHIR BHANUDAS	

B2 Tammay Nagane
A56 Rushikesh Kankar
AA1 Prashant Gaitwad

Tannay

Subject Incharge: 1

1. Asst. Prof. Arun Sankpal

2. Asst. Prof. Sonam Agrawal

Head of The Civil Department

Asst. Prof. Rahul Hodge

Head of the Department,
CIVIL ENGINEERING

Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411 045.



A
Site Visit Report
On
Water Treatment Plant

Corporation	PimpariChinchwadMunicipal Corporation
Location	Water treatment Plant, near Appughar, Akurdi , PimpariChinchwad
Average Flow	428 MLD

Submitted By

Third Year Civil Engineering

Under The Guidance Of

Asst. Prof. ArunSankpal

Academic Year : 2018-19



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Website: www.gsmozecoe.co.in Email : gsmoze@yahoo.co.in



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• **Purpose/ Aim of Water treatment :**

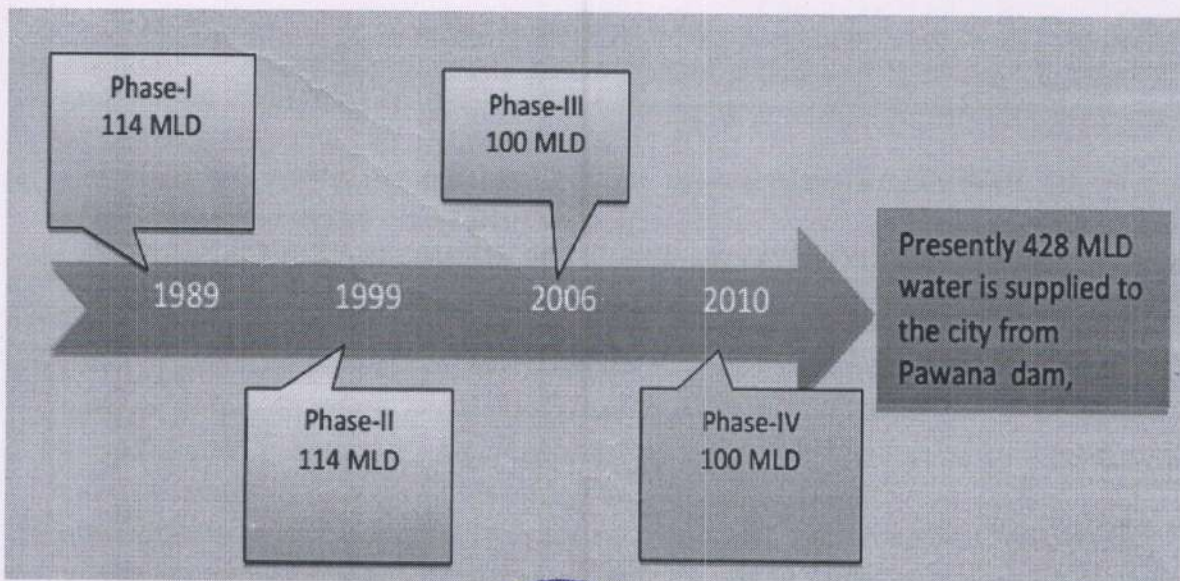
The aim of Water treatment is to produce & maintain water that is Hygienically Safe, Aesthetically attractive & palatable in an economical manner.

The method of treatment to be employed depends on the nature of raw water constituents the desired standards of water quality

• **Typical unit processes used for the water treatment includes:**

1. Source of water: Intake Structure
2. Pre-chlorination
3. Aeration
4. Plain sedimentation Tank (PST)
5. Flash mix (Rapid mixing)
6. Flocculation-slow mixing
7. Clari-flocculator
8. Granular filtration-Rapid sand filtration
9. Post-chlorination
10. Sump: to store clear treated water
11. Treated water to E.S.R
12. Treated water (E.S.R) –To distribution system

History of Pimpri-Chinchwad water supply is shown in Figure:



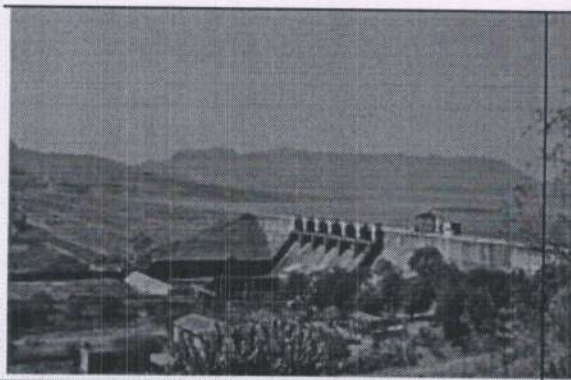
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The existing water supply to the Pimpri-Chinchwad city is managed by Pimpri-Chinchwad Municipal Corporation (PCMC). The City Engineer of the city and his team of Executive engineers and staff are responsible for ensuring protected drinking water supply in the city.

1. Source of water:

Main source of the Pimpri-Chinchwad water supply system is Pawana dam which is shown in Figure This dam is 35 kilometres away from the city and is in the West direction. There is a pick up weir (Ravet- Punavale) on downstream side of the dam

Water is pumped from the pickup weir at Ravet -Punavale dam and conveyed to water treatment plant by three mild steel (MS) pipe pumping mains (1053 mm for 228 MLD, 1165 mm for 100 MLD and 1400 mm 100 MLD). Treated water is pumped to Master Balancing Reservoirs (MBR) at WTP site and then transmitted by pumping/gravity to 85 Elevated Service Reservoirs (ESR) s in the city.

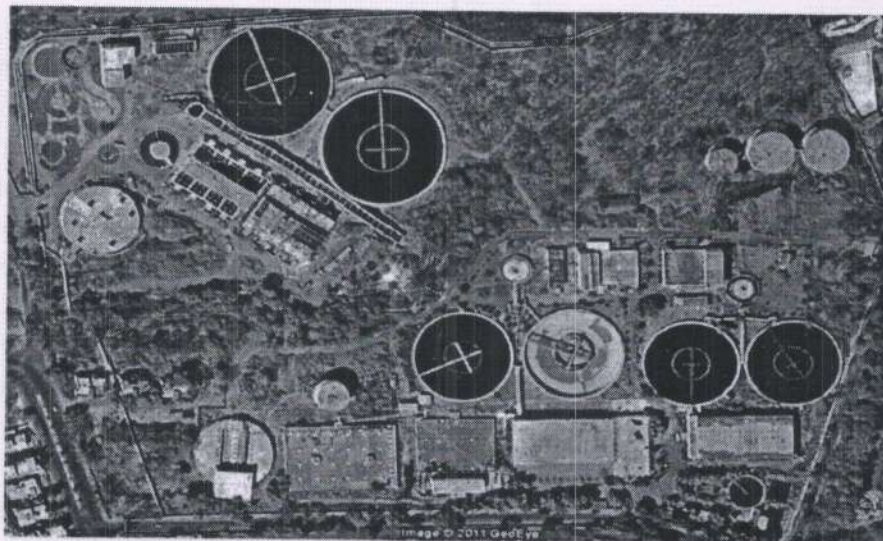


(a):Pawana dam



(b): Ravet-Punavale weir

Aerial View of water treatment Plant:



2. Pre-chlorination:

- Pre chlorination is the process of applying chlorine to water before filtration
- It helps in improving coagulation and reduces the loads can reduce the loads on the filters. It also reduces the taste odour, algae and other organisms.
- Pre chlorination is the process of applying chlorine to water before filtration /rather before sedimentation coagulation.

Uses of Prechlorination:

- It helps in removing coagulation and reduces the load on the filter.
- It reduces the test odour algae and other organisms.
- Chlorine dose = 0.1-0.5 mg/lit prechlorination is followed by the post chlorination.
- It controls the growth or algae in sedimentation tank.
- It prevents the putrefaction of sludge in setting tank.

3. Aeration:

- In this method the water to be treated is brought in close contact with air.

Purpose of aeration:

- Under the process of aeration water is brought in intimate contact with air.
- Aeration is necessary to promote the exchange of gases between the water and atmosphere.

In water treatment, aeration is practiced for three purposes:

- To add oxygen to water for imparting freshness (because the water from underground sources deficient in oxygen).
- Expulsion of CO₂, H₂S and other volatile substance causing taste and odour.
- To precipitate impurities like iron and magnesium in certain forms (if the water from the underground sources)

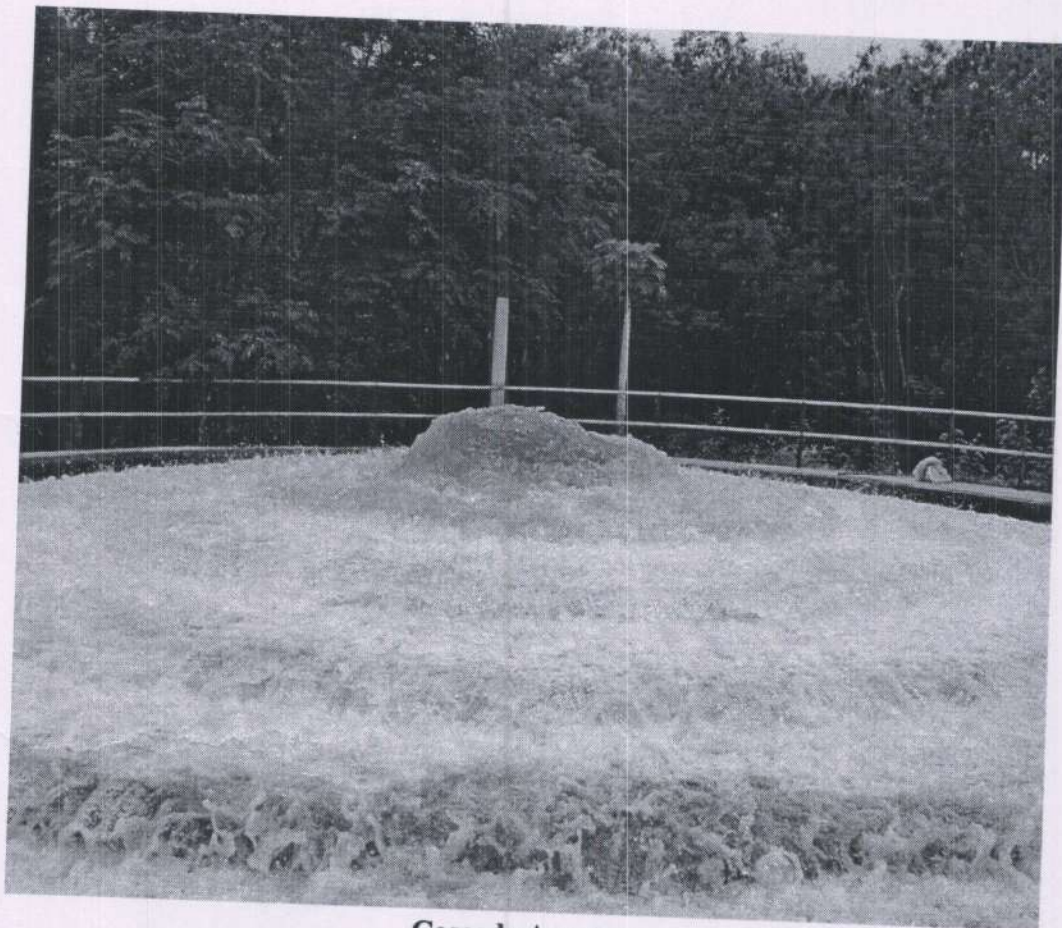
Limitation of aeration:

- **Requirement of significant head:** The unit operation of aeration require significant head of water
- **Increase the property of corrosiveness:** When the dissolve O₂ content is increased it causes for the corrosion of system
- **Residual Carbon di oxide:** The aeration cannot remove 100% CO₂, so the residue of 3.5 mg/liter remains in water.
- **For the removal of taste and odour**



3.1 Cascade Aerator:

- In this method the water is made to fall through a certain height (1 – 3m) over a series of steps (3 to 10 no.) with a fall about 0.15m – 0.2m in each step. The stricter so formed as free fall aerator.
- The simplest type of free fall aerator is known as cascade aerator.
- The cascade aerator can carry large quantity of water in comparatively small area small area at low head.
- The steps/plates can be made of cast iron, RCC or timber.
- The aerator is preferably installed in an open air. When the water is mixed with air gets purified.
- The cascade aerator is efficient in raising dissolve oxygen content of water, but not for co₂ removal, which is only removed in range of 60- 70%.
- The water flows down the step or trays in the form of thin sheets providing a large water surface. And creating aeration.



Cascade Aerator



4. Plain Sedimentation Tank (PST):

- When the water is highly turbid in that case to reduce the suspended load,
- The suspended particle whose specific gravity is greater than 1, that can be removed in primary sedimentation tank.

5. Flash mix / rapid mix:

- The chemicals coagulant added to raw water is vigorously mixed & agitated by flash mixer for its rapid dispersion in raw water.
- Addition of chemicals such as ferric chloride, alum, polymers to destabilize particles found in water.

6. Flocculation: Clari-flocculator

- Aggregation of particles (or Agglomeration) of the floc particles called flocculation
- Used to create larger particle that can be more radially removed by other processes such as gravity sedimentation tank.



7. Filtration:

- **The Sedimentation Tank:** Remove the large percentage of the suspended solid and organic matter present in raw water.
- **The process of coagulation:** The process of coagulation of water further assist in the removal of impurities present in water.

- But even the resultant water is not pure and may contain some very fine suspended particles bacteria.
- In order to remove the very fine suspended particles bacteria, the water is filtered through the beds of fine granular materials like sand.
- The process of passing the water through the beds of such granular materials called filters is known as filtration.
- The filtration may help in removing colloidal / colour / odour / turbidity / pathogenic bacteria from water.

7.1 Theory of Filtration:

- The process of passing of water through bed of such granular material is known as the filtration

Effect of Filtration:

1. The suspended and colloidal impurities which are present in water in finely divided state are removed to a great extent
2. The chemical characteristics of water are altered
3. The load of pathogenic bacteria is reduced.

Theory of filtration is based on following four mechanisms:

1. Mechanical straining
2. Sedimentation
3. Biological metabolism
4. Electrolytic charge

1. Mechanical straining:

- The suspended particles present in water and which is bigger size than the size of voids in sand layer of the filter cannot pass through these voids and get arrested in them.
- Most of the particles removed in the upper sand layers.
- The mat formed by the arrested particles and flocs which further helps in straining out impurities.

2. Flocculation and Sedimentation:

- The voids present in the sand grains of filter act as like small sedimentation tank.
- The particles of impurities arrested in voids adhere to the particles of sand grains mainly for the following reasons:
 1. Due to presence of a gelatinous film/coating developed on sand grains by previously adhered bacteria and colloidal matter.
 2. Due to physical attraction between the two particles of matter.

- Thus suspended impurities are removed by the action of sedimentation.

3. Biological metabolism:

- Certain presence of bacteria and microorganisms in voids which forms the coating over the sand grains.
- These organism require organic impurities- such as (Algae, plankton as their food for survival.
- The organism utilities such organic impurities and convert them into harmless compound by the process of Biological Metabolism.
- The layer formed by the harmless compound called as dirt skin /Schmutzdeche
- .This layer further helps in absorbing and staining out impurities.

4. Electrolytic Charge:

- The action of filter is also explained by the Ionic theory.
- The sand grains in filter media and impurities in water carry electrical charge of opposite nature.

7.3 Rapid Sand Filter:

Purpose:

- The great disadvantage of S.S.F. is low rate of filtration and requires large area to deliver filtered water.
- To increase the rate of filtration in rapid sand filter by increasing the size of sand so that the friction to the water passing through the filter media is minimized.
- The R.S.F may yield as high as 30 times more than the slow sand filter.
- Water from the coagulation and sedimentation tank are used in these filter.
- The filtered water is treated with the disinfectant.

Essential Parts of Rapid Sand filter:

1. Enclosure tank
 2. Under drainage system
 3. Base material
 4. Filter media of sand
 5. Appurtenances
1. Enclosure Tank



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- It consists of an open water tight rectangular tank made up of masonry / concrete.
- The depth of the tank varies from - 2.5 m to 3.5 m.
- The sides of the tank and bottom floor coated with the water proof material.

2. Under – drainage system

Purpose / function:

- To receive and collect the filtered water.
- Back – washing for the cleaning of filter.

There are various forms of the under – drainage system following are the two common types:

- A. Perforated Pipe System
- B. Pipe and Strainer system

A. Perforated Pipe system

- In this system there is a central drain / manifold the various lateral drains are attached to the central drain.
- **Lateral drains:** The lateral drains are placed at distance of 150 mm to 300 mm. The lateral drains provided with hole of dia. 10 mm at angle 30° with vertical. The holes are drilled at c/c distance of 7.5 cm to 20 cm.
- **Wash water:**
- The wash water is requiring for the backwashing of the filter, the compressed air is used for the purpose of washing. This results saving of water.
- Water required = 250 liters / min / m² of filter area.
- It is called low velocity wash.

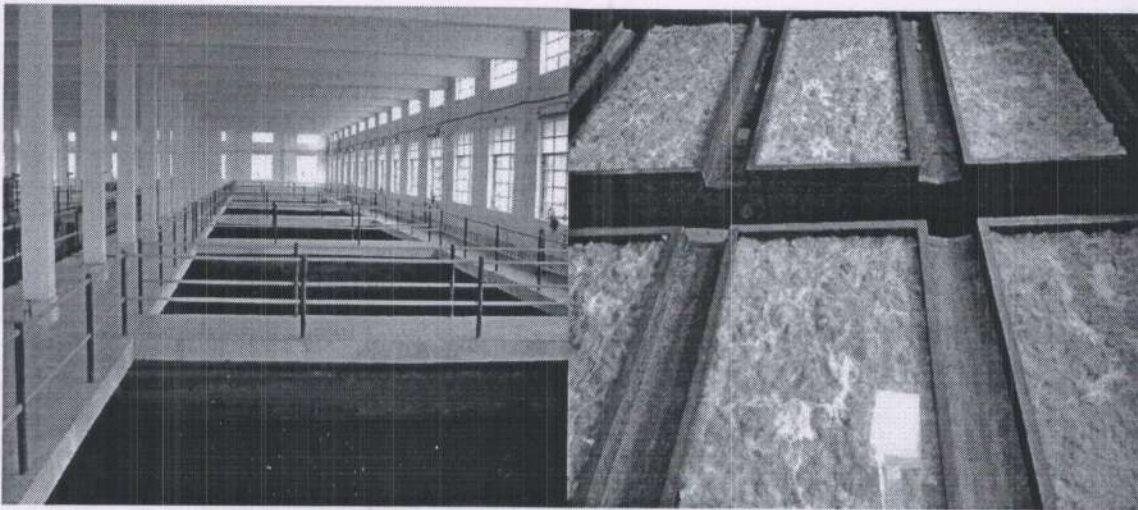
Base Material:

- The base material is gravel and it is placed on the top of under drainage system.
- The depth of the gravel varies from – 450 mm to 600 mm.
- The gravel is laid in layers of 150 mm.
- The top most layers are of small size gravel and the lowest layer is of big size gravel.
- Typical section of Gravel –
Top most layer = 150 mm, Size – 3mm to 6mm
- Intermediate layer = 150 mm Size = 6 mm to 12 mm
- Lowest layer = 150 mm, Size = 20 mm to 40 mm
- Total depth = 600 mm



Filter media of sand

- A layer of sand is placed above gravel.
- The depth of the sand layer varies from = 600 mm to 750 mm.
- The coarse sand is used as filter media.
- The effective size of sand = 0.5 mm to 1 mm.
- Uniformity coefficient = 1.20 to 1.70
- The space of voids between sand particles is increased and results in the rate of filtration.



R.S.F and Appurtenances

Following are the special devices are to be provided in case of Rapid Sand Filter:

- **Air Compressor:** During the washing of filter → the agitation of sand grains carried out by → compressed air or by water jet, or by mechanical rake.
When the air is used, then the compressor of capacity of supplying air at the rate of 0.60 to $0.80 \text{ m}^3 / \text{min/m}^2$ of filter area for duration of 5 min.
The compressed air may be supplied through laterals or through a separate pipe system.
- **Wash water trough:** The dirty water after washing of filter is collected in wash water trough, which is placed above the sand bed level. The wash water trough may be made up of - cast Iron, concrete, steel, and wrought iron.
- **Venturi rate controller:** To control the rate of flow, the venture ate controller is provided; It works on the principle of venturimetre.



8. Post-chlorination (Disinfection):

- The addition of the oxidising chemical agents to kill the pathogenic bacteria from water.
- Disinfection of water with chlorine, chlorine compounds, or ozone.
-
- Post chlorination / simply called chlorination is the normal standard process of applying chlorine in the end , When all others treatment have been completed.
- The post- chlorination is adopted after filtration and before the water enters the distribution system.
- The dose of chlorine should be such that to leave a residual chlorine of about 0.1/0.2 mg/lit.
- Contact period of chlorination = 20 min.
- The residual chlorine helps to prevent the recontamination of water.
- DISINFECTION- disinfection is the process of killing of diseases producing organisms (pathogenic bacteria) from water called as disinfection.
- Following are the three main types of human enteric pathogen.
- Bacteria
- Viruses
- Amoebic cysts
- Helminthes are responsible for the water borne diseases
- The chemicals used for killing the bacteria are known as disinfectant.

Modern disinfection process includes:

1. Physical methods: Such as thermal treatment and ultrasonic waves
2. Chemical treatment by use of :
 - -Chlorine and its compound
 - -Bromine
 - -Iodine
 - -Potassium permanganate
 - -Ozone and metals like silver
3. Radiation

8.1 Mechanism of disinfection:

The mechanism of killing the pathogen are largely depend on the

1. Nature of disinfectant
2. Type of micro organism

1. **Damage to cell wall:** It leads to cell lysis and death.
2. **Alteration of cell permeability:**



It refers to the destruction of selective permeability of cytoplasmic membrane because of the outflow from the cell nutrients as nitrogen and phosphorus takes place

3. Changing the colloidal nature of the cell protoplasm:

The cell protoplasm which contains the proteins which are converted into acids and bases leads to destruction of cell. In activation of critical enzyme system responsible for metabolic activities for the growth of cell the metabolism of enzyme are required but because of the inactivation of critical enzyme are destruction of the pathogen take place.

Chemical disinfectant proceeds normally in two steps:

1. Penetration of disinfectant through cell wall
2. Reaction with enzyme within the cell

8.2 Properties of Chlorine

- It is represented by symbol =CL
- It is soluble in water.
- The chlorine gas greenish yellow colour pungent order which cause irritation when inhaled
- The chlorine gas is not combustible
- In the presence of moisture it is very active and corrosive to the metal'
- It is cheap , reliable , easy to handle and measurable
- It is capable of providing the residual disinfecting effect for long period , thus avoid future recontamination of water

8.3 Residual Chlorine:

- When all the demand of chlorine is satisfied the chlorine will appear as free chlorine.
- After the completion of chlorination treatment, the treatment water may get contaminated due to faulty pipes distribution system.
- To take care of the future recontamination the purposely 0.2 mg/lit residual chlorine is kept.

9. E.S.R:

The elevated storage reservoir is used to store the treated water. To store the treated water

1. They are also known as Overhead Tank
2. Shape of ESR- Rectangular, Circular or Elliptical
3. Material for construction=RCC, Steel, Prestressed concrete

9.1 Purpose/Function of the service /distribution ESR

1. for meeting fluctuating daily demand

They finish the facility of storage of water for meeting the fluctuating daily demand

2. Pressure: To maintain the constant pressure in the mains

3. Economical:

They make the design & construction of treatment & distribution system economically

4. Storage of Emergencies:

- a) Break-down of pumps
- b) Bursting of mains
- c) Heavy fire demand
- d) Interruption in power supply

5. Pump rate

The provision of the reservoir makes to run pumps at uniform rate in case of gravity system the provision of these reservoirs will result in mains of smaller diameter

9.2 Suitability of Construction

1. Combined Gravity and Pumping system if adopted from W.T.P & from E.S.R. The water is supplied to distribution network under gravity.
2. When there is necessity of Pressure requirement.

9.3 Accessories of ESR:

1. Inlet pipe: for the entry of water
2. Manhole: to provide the entry to the inside of the Reservoir for inspection
3. Outlet Pipe: For exit of water
4. Ventilator: for circulation of air
5. Washout Pipe: Removing water after cleaning of reservoir



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6. Water Level Indicator: to know the level of water inside the tank
7. Overflow Pipe: for the exit of water above full supply level.



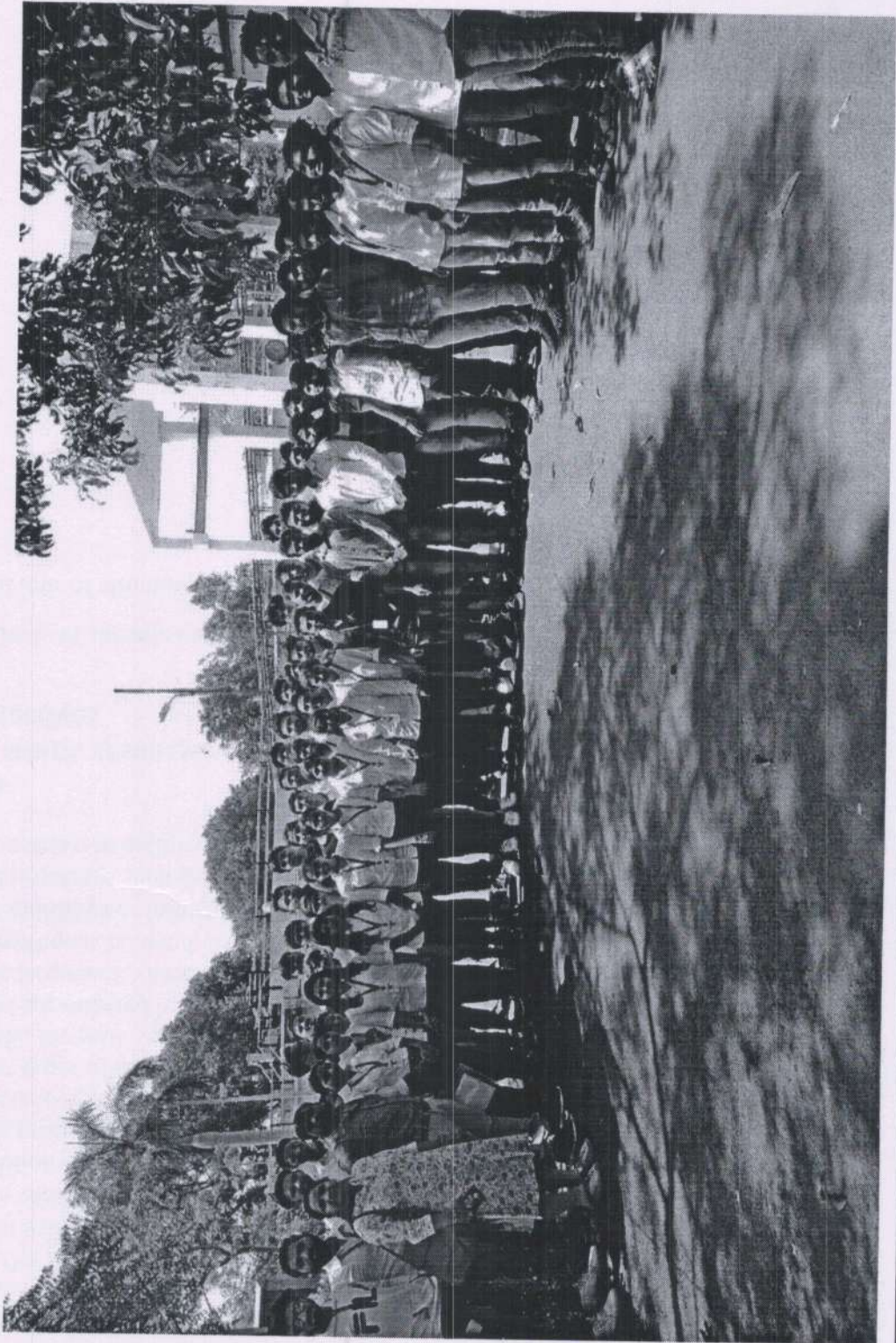
View of ESR

10. Distribution network:

The function of carrying the water from the treatment plant to the individual homes is done through the well planned distribution network.

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TE CIVIL BATCH 2018-2019



Sub: Environmental Engineering I,
Under the Guidance of Prof. Arun D. Sankpal



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25/1/3, Balewadi, Pune – 411045. Ph: 020-27390500

Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in

Department Of Civil Engineering



Date-20/02/2019

SITE VISIT NOTICE

All the students of B.E. are hereby informed that site visit to Visit to Koyna Dam has been arranged on **23/02/2019**. All Students must be present at 10 am sharp in college premises.

NOTE:

- **STUDENTS MUST BE PRESENT IN COLLEGE UNIFORM**
- **STUDENTS SHOULD CARRY WATER BOTTLE,CAP, SHOES etc**
- **ATTENDANCE IS COMPULSORY**

Prof. Priyanka Garsole

(Faculty coordinator)

Prof. Rahul Hodage

HOD

Head of the Department

CIVIL ENGINEERING

Genba Sopanrao Moze College of Engineering

25/1/3, Balewadi, Pune-411045





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DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph. 020-27390500 Website www.gsmozecoe.org Email gsmoze@yahoo.co.in

Founder President **Shri Rambhau Moze**

Ref. No. GSM/COE/DEC/2018/682

Date 10/12/2018

To,

Chief Engineer/Executive Engineer
Irrigation Department,
Pune

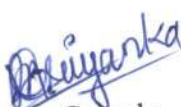
Subject: Permission for students visit to koyana dam


Respected Sir/Madam,

We are one of the reputed institutes offering various technical degree courses approved by AICTE Delhi, Govt of Maharashtra, DTE and affiliated to Savitribai Phule Pune University (SPPU).

With reference to above mentioned subject as per the course curriculum for the subject visit is aimed at enhancing their knowledge. We intend to take a round of the entire Hydro-power station, dam structure such as gallery, spillways, canals, lake tapping etc and show the tasks handled in different departments to our students.

It's a kind request to grant us permission for the same along with 130 students and 5 faculties on any working day as per your convenience (tentatively 1st feb to 20 Feb). We will be thankful if you do the needful and allot us Incharge person who will explain us in detail about models.


Priyanka Garsole
Dept Coordinator
(8149298837)


Rahul Hodage
HOD Civil

Head of the Department,
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411 045.
(9021043275)


Dr. Abhijeet Auti
Principal





2018-19) BE/DHS/site visit

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Founder President: Shri Rambhau Moze

Ref. No.:

Date: 23/02/2019

To

Executive Engineers

Koyna Irrigation Department,
Koynanagar

Subject: Letter of thanks for Permission & Guidance for **Koyna Dam Visit**

Respected Sir,

The GENBA SOPANRAO MOZE TRUST is an educational trust, a pioneer in imparting quality professional's education in field of Engineering. It has established two campuses in Pune at Wagholi & Balewadi.

We department of Civil Engineering of Genba Sopanrao Moze College of Engineering, Balewadi, Pune, would sincerely thank for allowing and guiding our BE Civil students at **Koyna Dam**. Our BE (Civil) students want to thank you again for giving the opportunity to study and understand the actual design considerations at site. We really appreciate the time spend with our students and information shared by you.

We hope our students received precious knowledge in **Dams & Hydraulics Structure (DHS)** from you. Thanking you.

Yours,

[Signature]

Head

Department of Civil Engineering

**Head of the Department,
CIVIL ENGINEERING**

**Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411 045.**



[Signature]
Principal,
GSMCOE, Balewadi, Pune

PRINCIPAL

**Genba Sopanrao Moze College of Engg
25/1/3, Balewadi, Pune-411 045**

[Signature]
23/2/20

उपकार्यकारी अभियंता
कोयना सिंचन विभाग
कोयनानगर

परिपत्रक

शाखाधिकारी, वारणा पाटबंधारे शाखा
वारणावती, यांचे कार्यालय
दिनांक : २६/०२/२०१९

प्रति, २१५००००
U GSMCOE Balewadi
Pune

विषय :- वारणा धरण व परिसर पाहण्यास परवानगी मिळणेबाबत
संदर्भ :- आपला दिनांक २६/०२/२०१९ चा विनंती अर्ज.

संदर्भिय पत्रान्वये आपल्या समवेत असणाऱ्या२.... व्यक्तींना दिनांक २६/०२/२०१९ रोजी वारणा धरण (वारणा प्रकल्प) परिसर पाहण्यास शासनाच्या प्रचलित नियमास व अटीस आधीन राहून परवानगी देणेत येत आहे.

धरण व परिसर पाहताना खालील अटींचे पालन करावे.

- १) धरण व परिसर पाहतेवेळी आपल्या कुटुंबाची / विद्यार्थ्यांची सुरक्षिततेची जबाबदारी पूर्णतः अर्जदार / प्राचार्य / संबंधित महाविद्यालयाच्या संस्थेवर राहिल.
- २) धरण स्थळी छायाचित्रण करू नये. नोबाईल व कॅमेरा वरती नेण्यास सक्त मनाई आहे.
- ३) धरणक्षेत्र फक्त दिवसा सकाळी ९.०० ते सायंकाळी ५.०० वाजेपर्यंतच पाहणेस परवानगी असून रात्रीच्या वेळी धरण स्थळावर राहण्याची अनुमती राहणार नाही.
- ४) धरण क्षेत्रामध्ये कोणत्याही प्रकारचे नुकसान होणार नाही त्याची दक्षता घेण्याची आहे. नुकसान झालेस कायदेशीर कारवाई केली जाईल. धरण स्थळ पाहत असताना आपणास कसल्याही प्रकारचा धोका झाल्यास पाटबंधारे खाते जबाबदार राहणार नाही.
- ५) धरणावती खाजगी वाहने सोडता येणार नाही.
- ६) धरणाच्या पाणी साठ्यात पोहण्यास अगर उतरण्यास मनाई असून याची संपूर्ण जबाबदारी संबंधित अर्जदार / प्राचार्य यांची राहिल.

या अटीवर परवानगी देण्यात आलेली आहे.

सोबत :-

व्यक्तीची यादी

हकूमावरून

प्रत :- वारणा धरण स्थळ, पाटबंधारे कार्यालय चांदोली यांना, सदर धरण पाहणेस परवानगी दिलेल्या खाजगी व्यक्ती / कुटुंब / विद्यार्थी / शिक्षक यांचे धरण पाहणे परवानगी रजिस्टरमध्ये नोंद करून व स्वाक्षरी घेऊन त्यांना धरण पाहणेस मार्गदर्शन व सहकार्य करावे.





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Founder President: Shri Rambhau Moze

Ref. No.:

Date: 23/02/2019

To

Executive Engineer,

Kolhapur Irrigation Division,
North Kolhapur

Subject: Letter of thanks for Permission & Guidance for **Chandoli Dam** Visit

Respected Sir,

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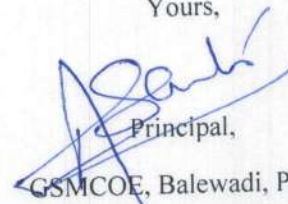
We hope our students received precious knowledge in **Dams & Hydraulics Structure (DHS)** from you. Thanking you.

Yours,



Head

Department of Civil Engineering
Head of the Department,
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411 045.




Principal,
GSMCOE, Balewadi, Pune

PRINCIPAL
Genba Sopanrao Moze College of Engg
25/1/3, Balewadi, Pune-411 045


शाखा लिपिक
वारणा भद्रबधारे शाखा,
वारणावर्दी



Genba Sopanrao Moze Trust's
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

Balewadi, Pune - 411045.

Civil Engineering Department

Create competent Socially Responsible Civil Engineers

Academic Year 2018-2019

Site Visit Attendance - DHS

Date: 25 & 26 Feb 2019

Sem - II

Class - BE (A div)

Sr.No.	Roll No.	Names of students	Sign
1	A - 1	ARUN SINGH	
2	A - 2	AUDGE ASHWINI ATMARAM	
3	A - 3	BHORE VAISHNAVI VIVEKANAND	
4	A - 4	BHOSALE DIGVIJAY DATTATRAY	
5	A - 5	BHOSALE SHREYASH SUDHIR	
6	A - 6	BIRADAR POOJA SHRIRAM	
7	A - 7	CHAUHAN KRISHNAMOHAN R	
8	A - 8	CHOUGULE ANIKET SUNIL	
9	A - 9	CHOUGULE SOMESH SHIVAJI	
10	A - 10	DABHOLKAR SOHAM RAJENDRA	
11	A - 11	DESHMUKH RAJWARDHAN	
12	A - 12	DEVKAR SHUBHAM RAJABHAU	
13	A - 13	FARANDE MAYUR NAMDEO	
14	A - 14	GANDHI GAURAV HARSHAD	
15	A - 15	GOPALE NIKHIL MANISH	
16	A - 16	HIPPARGI SHADAAB NAUSHADALI	
17	A - 17	HULAWALE PRATIK	
18	A - 18	JADHAV AKASH VENKATESH	
19	A - 19	JADHAV PRAVIN VILAS	
20	A - 20	JAGDALE SUHAS SHIVAJI	
21	A - 21	JAMDADE DNYANESH SHIVAJI	
22	A - 22	KABUTARE PRASHANT KISAN	
23	A - 23	KADAM VISHAL DATTATRAY	
24	A - 24	KAKADE ARJUN RAGHUNATH	
25	A - 25	KAMBLE PANKAJ RAJESH	
26	A - 26	KANAME ABHIJEET BALAJI	
27	A - 27	KHAIRE AKSHAY BHANUDAS	
28	A - 28	KHATATE VINIT DINESH	
29	A - 29	KONJARE CHANDRAKANT P	
30	A - 30	KUMAR PANKAJ KUMAR PAL S	
31	A - 31	LOKHANDE AMOL VITTHAL	
32	A - 32	MOHITE ROHIT DNYANESHWAR	
33	A - 33	PAKHLE ROHAN SHRIKANT	



34	A - 34	PALKAR DAYANAD TUKARAM	
35	A - 35	PATIL PRASAD NITIN	
36	A - 36	RAHUL VITHOBA BOTRE	
37	A - 37	RAJPUT KIRAN NANA	
38	A - 38	RAJPUT MANTHAN D	
39	A - 39	RAKSHE SURAJ VASANT	
40	A - 40	RATHOD PRAGATI PARASRAM	
41	A - 41	RAUT AJAY PANDURANG	Ajay
42	A - 42	RAUT AVINASH G	
43	A - 43	ROHAN SHIVAJI NAIKWADI	
44	A - 44	ROSHNI DEVCHANDRA NINGTHOUJAM	
45	A - 45	SAGAR PRATHAM DILIP	
46	A - 46	SAMAGE VIJAY RAJU	
47	A - 47	SANAP AVINASH GANPAT	
48	A - 48	SANE AMIT VIJAY	
49	A - 49	SASTE SAGAR RAJARAM	
50	A - 50	SHINDE APURVA	
51	A - 51	SHINDE JYOTI SURESH	
52	A - 52	SHINDE MAHESH VILAS	
53	A - 53	SHINDE NIKHIL LAXMAN	
54	A - 54	SHINDE ROHIT MADHAVRAO	
55	A - 55	SHUBHAM SUDHIR NAGARKAR	
56	A - 56	TANDALE KISHOR HARIBHAU	
57	A - 57	VATTE BHUSHAN NAGESH	
58	A - 58	WALKE MANDAR SANJEEV	
59	A - 59	WANKHEDE ANKIT SANJAY	
60	A - 60	WANVE PRITI NARAYAN	
61	A - 61	WARADE TUSHAR GAJANAN	
62	A - 62	WARUDKAR SANCHIT ANILKUMAR	
63	A - 63	ZINJADE KIRAN SURESH	
64	A - 64	BANSODE RANJANA RAMESH	
65	A - 65	BHANDARE KISHOR	
66	A - 66	LAXMINARAYAN	
67	A - 67	CHOUDHARI GAURI BHAGAWAT	
68	A - 68	DIDWAGH DHANAJI HANMANT	
69	A - 69	GHOLAVE MAHESH	
70	A - 70	GORE MARUTI DAGADU	
71	A - 71	HAWALDAR KETAN	
72	A - 72	HINDRE SWAPNIL	
73	A - 73	JADHAV ROHAN ASHOK	
74	A - 74	JAGIRDAR A. MOHID A. NAJIB	
75	A - 75	JALKOTE SHWETA V.	
76	A - 76	KAPSE SAGAR ANKUSH	

77	A - 77	KULKARNI RUSHIKESH	
78	A - 78	LOMATE PRITAM	
79	A - 79	MAHAJAN SHARDUL	
80	✓ A - 80	MANMODE SAURABH	
81	A - 81	MUNDE NILESH SHIVAJIRAO	
82	A - 82	MURTADAK SHUBHAM	
83	A - 83	NAGE AKSHAY	
84	✓ A - 84	NAKHATE NIKHIL	
85	A - 85	NANAVARE SANKET	
86	A - 86	NEAVASE PRUTHIVIRAJ	
87	A - 87	NITIN DATTARAY AMBHORE	
88	A - 88	PANCHAL PRAMILA	
89	A - 89	PANZADE ANIKET	
90	A - 90	PATKAR SUMANT	
91	A - 91	PAWAR KAUSTUBH	
92	✓ A - 92	NANDKISHORE	
93	A - 93	RAUT AJINKYA DHANRAJ	
94	A - 94	RAUT GAURAV GULAB	
95	A - 95	SAID KAJAL	
96	✓ A - 96	SANGLE BABURAO	
97	✓ A - 97	SAPARIYA BAVESH	
98	✓ A - 98	SHAIKH MUBARAK SIRAJ	
99	A - 99	SHINDE SHREYASH VINOD	
100	A - 100	SHINDE SURAJ TANAJI	
101	A - 101	SWAMI VAISHNAVI	
102	A - 102	TARATE KRISHNA	
103	✓ A - 103	WAGHMODE PRUTHIVIRAJ	

Priyanka Garsole
Subject Teacher

Asst. Prof. Priyanka Garsole

Rahul Hodge
HOD

Asst. Prof. Rahul Hodge

Head of the Department
ENGINEERING

Genba
25/1/15, Balewadi, Pune-411045



Akshay Anil Kshirsagar
Prajakta Kakade

Akshay
Prajakta



“EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE”
**GENBA SOPANRAO MOZE COLLEGE OF
ENGINEERING**

S. No. 25/1/3, Balewadi, Pune – 411 045

(Approved by AICTE and Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University)

DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph: 020-27390500 Website: www.gsmozecoe.org Email: gsmoze@yahoo.co.in

Founder President: Shri Rambhau Moze

Date:23/02/2019

To,
Executive Engineer,
Kolhapur Irrigation Division,
Kolhapur

Letter of thanks

Respected Sir,

The Genba Sopanrao Moze trust is an educational trust, a pioneer in imparting quality professional's education in field of Engineering. It has established two campuses in Pune at Wagholi & Balewadi.

We Department of Civil Engineering of Genba Sopanrao Moze College of Engineering, Balewadi, Pune, would sincerely thank you for giving us permission to visit your Chandoli Dam. We really appreciate the time spent with our students and information shared by you. We hope our students received precious knowledge which will definitely help them in their Curriculum.

Thanking you.

Yours Regards,

Prof. Priyanka Garsole

(Faculty coordinator)

Prof. Rahul Hodage

Hod

Head of the Department
CIVIL ENGINEERING

Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045

Dr. A.B. Auti

(GSMCOE, Balewadi)

PRINCIPAL

Genba Sopanrao Moze College of Engg
25/1/3, Balewadi, PUNE-411 045





Genba Sopanrao Moze college of Engineering, Balewadi
Department of Civil Engineering

Visit Report

Visit Location: Koyna Dam & Chandoli (Varna) Dam

Report Submitted by: Ms. Priyanka Garsole

Subject: Dams & Hydraulic Structure (DHS)

Visit Date: 25 & 26 Feb 2019

Under course curriculum requirement of Dams & Hydraulic Structure, BE Civil (SPPU), our BE Civil students visited to Koyana Dam & Warna Dam. Koyana dam is situated at Koyana Nagar, Satara District, nested in Western Ghats, on state highway between Karad & Chiplun.

Koyana is massive rubble-concrete gravity dam. It is known one of the largest projects in Maharashtra. Its construction started in 1956 and completed on 1964 by Govt of Maharashtra. Catchment area impounds the Koyana river and forms Shivasagar Lake which approximately 50 kms in length. Dam plays major role in controlling flood in monsoon season. Koyana is the largest completed hydroelectric power plant in India, which has total installed capacity of 1960 MW.

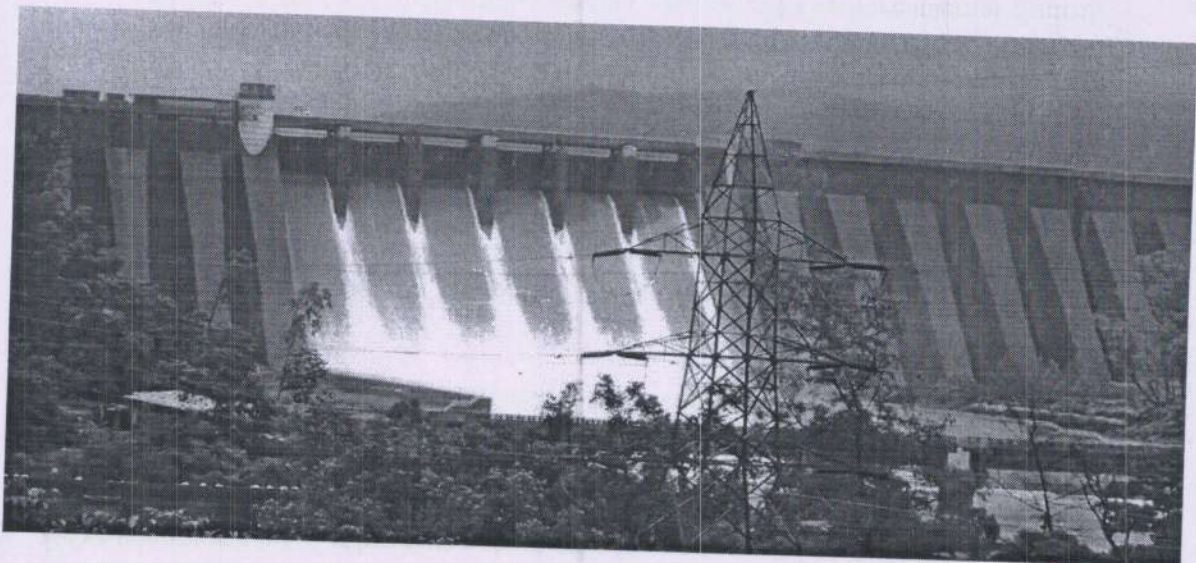


Fig.(a) Koyana Dam Spillways



The total height of dam is 103.2 m (3389 ft) & length is 807.2 m (2648 ft). Spillway of the dam is located at the centre. It has 6 radial gates to discharge water to downstream.

Hydropower Generation:

Stage 1: 4*70 MW (Since Feb 1963)

Stage 2: 4*75 MW (Since March 1966)

Stage 3: 4*80 MW (Since 1977)

Stage 4: 4*250 MW (Since 1988)

Koyna dam foot power house: 2*20 MW.

There are total 8 Pelton & 10 Francis turbines. Hydropower plant is having 1960 MW installed capacity.

Day 1: Students visited Koyna dam. Information about dam site, gravity cross section, capacity & discharge schedule and energy dissipation structure was given to students by junior engineers & faculty from WRE, Asst. Prof. Priyanka Garsole.

Video demonstration about construction stages, lake tapping & other details information about dam was given to students at Nehru Garden situated nearby. This garden is developed for providing information about dam site along with photographs, video demonstration, backwater view & aesthetic purpose.

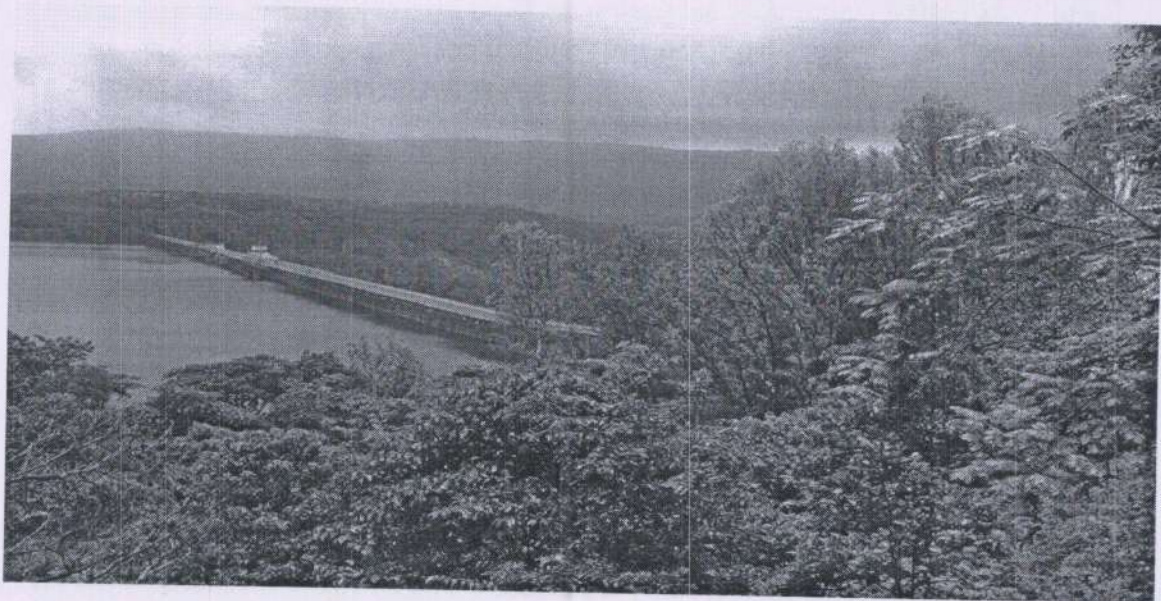


Fig.(b) Koyna Backwater



Day 2: Students visited Chandoli dam; an earthen dam situated in Satara District. Its construction started in 1976. The dam is built on Varna river which forms a boundary between Satara & Kolhapur District.

Chandoli dam is one of the oldest earthen dam in country; having its upstream & downstream slopes protected with stone pitching. There are berms provided on downstream face for slope protection at certain constant interval. Chandoli dam having concrete gravity non-overflow section with radial gates inserted on it. There are 4 radial gates provided for the discharge of water to downstream.



Fig. (c) Chandoli Dam Upstream side



Subject Incharge

Asst. Prof. Priyanka Garsole



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25/1/3, Balewadi, Pune – 411045. Ph: 020-27390500

(Recognized by AICTE, New Delhi; Approved by Govt. of Maharashtra; Affiliated to Savitribai Phule Pune University)

Website: www.gsmozece.co.in Email: gsmoze@yahoo.co.in

Department of Civil Engineering

Date: ___ / ___ / ___


NOTICE

All the students of B.E. are hereby informed that, your site visit of Construction Management subject has been arranged on 03/04/2019 at western Avenue wakad. So all of you have to be present in college at 10.30 am sharp.

Site Address: *Next to Ford Motors Showroom, Near Sayaji Hotel, Pune-Mumbai By Pass,, Wakad, Pimpri-Chinchwad, Maharashtra 411057*

Note :

- STUDENTS MUST BE PRESENT IN COLLEGE UNIFORM with Id card
- STUDENTS SHOULD CARRY WATER BOTTLE, CAP, SHOES etc
- ATTENDANCE IS COMPULSORY


Faculty Coordinator

Rahul Hodage


HOD

**Head of the Department,
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411 045.**





GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

Founder - President : **Shri Rambhau Moze.**

(Recognized by AICTE, New Delhi; Approved by Govt. of Maharashtra; Affiliated to University of Pune.)

S. No. 25/1/3, Balewadi, Pune - 45. Telephone : (020)27290500, Fax : (020)27290500, E-mail : gsmoze@yahoo.co.in

Ref. No.: GSM/COE/2019/APRIL/57

Date : 02/04/2019

To

Project Manager,

Western Avenue,

Waked, Pune

Subject: Regarding visit to Construction site

Respected Sir/Ma'am,

We are one of the reputed institutes offering various Technical Degree, Diploma and Post Graduate Courses, approved by AICTE Delhi, Govt. of Maharashtra, DTE and affiliated to Savitribai Phule Pune University (SPPU).

With reference to above mentioned subject above as per the course curriculum for the subject **Construction Management** of Final year students, we would like to arrange a visit to your construction site (**Western Avenue, Wakad**) and to know the information about the management at site.

It's a kind request to grant us permission for the same along with students and faculties on any working day as per your convenience (tentatively in April 1st week). We will be thankful if you do the needful and allot us in-charge person who will explain us in detail the information given below.

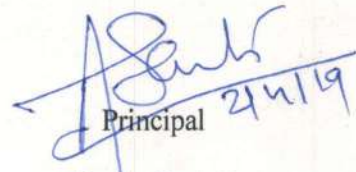
- Project Cash Flow Analysis.
- Project Balance Sheet.
- Work Break Down Structure. (WBS)
- Materials Flow System in the Project.

Thank you in advance.


H.O.D.

Prof. Rahul Hodage
(9021043275)

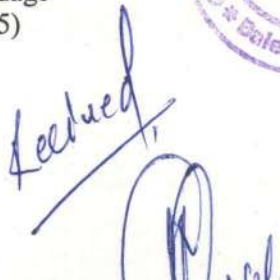



Principal 24/19

Dr. A. B. Auti

PRINCIPAL

Genba Sopanrao Moze College of Engg
25/1/3, Balewadi, Pune-411 045





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Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in
Department of Civil Engineering

Date: 03/04/2019

To,
Project Manager
Western Avenue,

Wakad, PCMC

Subject:- Thanks Letter

Dear Sir,

We at the Genba Sopanrao Moze College of Engineering, Balewadi, would like to thank to you for the valuable contribution you made during the site visit at Western Avenue Wakad.

We appreciate the time you took out of your busy schedule to join us and thank you for sharing your insights and expertise with our attendees. Your willingness to volunteer your time, energy and support is greatly appreciated.

HOD

**Head of the Department,
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411 045.**



SITE VISIT REPORT

Name of Site: Western Avenue by Kolte Patil

Address: Wakad,
Pimpri Chinchwad- 411057

Date of Visit: Wednesday, 3rd April 2019

Name of Guide: Mr. Pankaj Chaudhary (Quality Manager)
Mr. Nilesh Kharche (Store In-charge)

Faculty Guide: Prof. Rahul Hodage
Prof. Rajesh Patil

Objective:

To study the ERP module utilised on site with the focus on Aspects of Material Management, Construction Scheduling, Cash Flow Analysis, Balance Sheet and Work Breakdown Structure.

Introduction:

As per the syllabus of the subject Construction Management, students of BE Civil from GSM COE visited a construction site in progress. We gathered in the college premises and then travelled to the site. The site is named 'Western Avenue' and is being developed by Kolte Patil Developers. It is located in Wakad near Sayaji Hotel along the Bangalore Highway. We were guided by Mr. Pankaj Chaudhary who is a Quality Manager at the site and Mr. Nilesh Kharche who is the store in-charge.

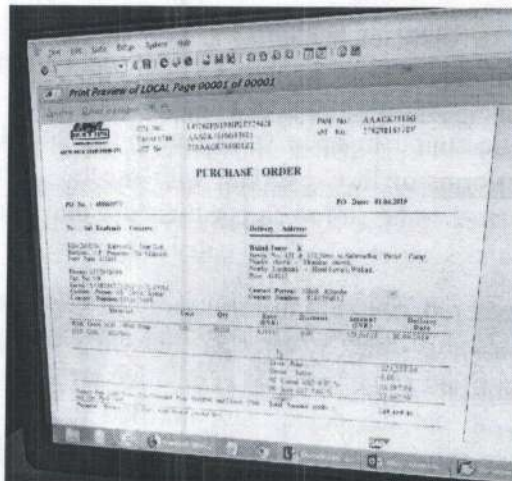
The site, spread over 35 acres, is a residential township with a few commercial spaces. A Sewage Treatment Plant and a Water Treatment Plant has also been provided. The work of the residential units is underway and a few of the wings are yet to be developed. The STP unit is being developed. The WTP unit however is operational. An extensive firefighting system has also been provided using High

Material Flow System in Project:

A proposal for any project includes the detailed design drawing and the approximate material requirements and the specifications of material and technical requirements. An approximate estimate of material quantities and specifications by PMC methods including wastage is downloaded to SAP before the project work is initiated. If there is more than one phase of work each independent structure is assigned a Plan Number. In every plan each activity is designated according to priority and the relative position in the construction schedule. The materials are coded in the system according to the grades and quality. SAP is linked with activity and the quantities are well defined for every activity

Material Purchase:

When the engineer opens an activity a Purchase Requisition (PR) is filed for the required quantity using material code is sent out to the Purchase Department. For economy in purchase the Purchase Order (PO) is sent out in bulk to contractors. Now, the order can be sent directly to Purchase or a dual release by the Project Manager (PM) and the Chief Engineer can be set up for activity confirmation.



The Purchase Order is sent from the Head Office; however, the selection of the supplier is being automated through SAP. A list of suppliers is attached to every code of material. When a PO is to be filed the system automatically identifies the most reliable and economical supplier and the PO is sent out to them once approved. The project delivery cycle for every material depends on the quantity, quality specification, supplier, mode of transport, etc. The typical delivery cycle for Cement is 45 to 50 days at the site. Thus, the PR for every activity is filed in advance.

Material Quality Check and Storage:

When the delivery of the material reaches the gate, a MIGO (Movement in Goods Out) entry is booked in SAP. This MIGO entry generates a Goods Received



KOYTE-PATIL GROUP
MATERIAL ISSUE SLIP

No. 3384 DATE: 03/04/14
 To store: M/resh SITE: M/8/da
 Issued to Contractor: Rubej Sanitation
 Through his representative: Pam

Sl. No.	ITEM WITH SIZE	Qty	Orig. No. Location
X	7" PVC End caps	300	MS
X	4" PVC End caps	200	MS
X	1/2" x 1/2" R. bulb PVC	150	MS
X	1" x 3/4" R. bulb PVC	100	MS

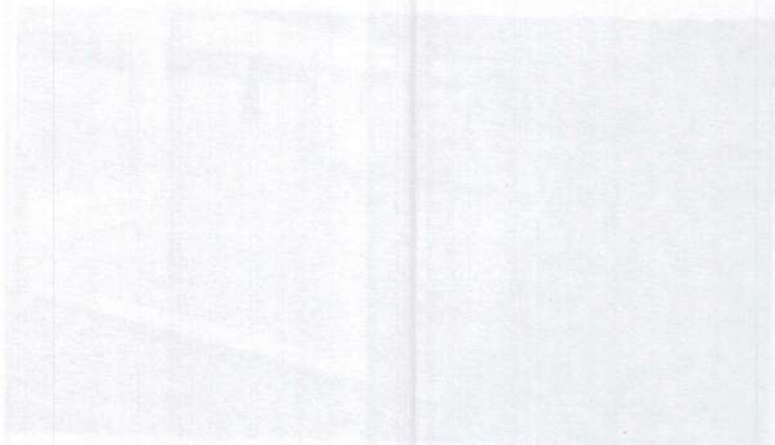
ISSUED BY: [Signature] STOREKEEPER: _____
 RECD. BY: _____ SUPERVISOR: _____

Material Consumption:

The contractor is expected to consume the material issued to them for a particular activity. It is recommended that the specified quantities be used in every activity however the engineer can authorize changes in specification. A consumption report is filed upon completion of activity by booking a MIGO entry. The report contains the actual quantity of material that was used for the activity, and changes or corrections if any are mentioned in the report. If a smaller quantity of material was consumed in an activity, the remaining material can be used in other activities and must be mentioned in the corresponding reports.



released. Once the work for the full project is handed over, the remaining payment is calculated. Any defects are penalized and the final payment may be processed.



Advantages:

- ❖ Total project cost against a plan no or project no. is instantaneously available, even for a particular flat.
- ❖ Management can keep track of multiple sites. All modules are connected and thus a senior level authority can keep track of work with various regular reports; daily cross checking, reconciliation, schedule, planning can be verified
- ❖ Alerts are sent to management for any suspicious activity.
- ❖ Shelf life for material can be specified; alerts for better reconciliation and efficient use can be set up.



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Balewadi, Pune - 411045.



Civil Engineering Department

Academic Year 2018-2019

BE Students Roll Call

Class - BE

DIV A

Site visit attendance

Roll No	Names of students	Sign
A-01	ARUN SINGH	
A-02	AUDGE ASHWINI ATMARAM	<i>aw</i>
A-03	BANSODE RANJANA RAMESH	<i>Ran</i>
A-04	BHANDARE KISHOR	—
A-05	BHORE VAISHNAVI VIVEKANAND	<i>Rhu</i>
A-06	BHOSALE DIGVIJAY DATTATRAY	<i>Dr</i>
A-07	BHOSALE SHREYASH SUDHIR	<i>Re</i>
A-08	BIRADAR POOJA SHRIRAM	<i>Dr</i>
A-09	BOTRE RAHUL VITHOBA	—
A-10	CHAUHAN KANHAYA LAXMINARAYAN	<i>Rahul</i>
A-11	CHAUHAN KRISHNAMOHAN R	<i>Ka</i>
A-12	CHODHARI GAURI BHAGAWAT	—
A-13	CHOUGULE ANIKET SUNIL	<i>Coneri</i>
A-14	DABHOLKAR SOHAM RAJENDRA	<i>anik</i>
A-15	DESHMUKH RAJWARDHAN	—
A-16	DEVKAR SHUBHAM RAJABHAU	<i>Rajan</i>
A-17	DIDWAGH DHANAJI HANMANT	<i>rd</i>
A-18	FARANDE MAYUR NAMDEO	<i>ria</i>
A-19	GANDHI GAURAV HARSHAD	<i>gaur</i>
A-20	GARJE VIVEK	<i>gv</i>
A-21	GHOLANE MAHESH	—
A-22	GOPALE NIKHIL MANISH	—
A-23	GORE MARUTI DAGADU	<i>gare</i>
A-24	HINDRE SWAPNIL	<i>Hinde</i>
A-25	HULAWALE PRATIK SHIVAJI	—
A-26	JADHAV AKASH VENKATESH	<i>Tash</i>
A-27	JADHAV PRAVIN VILAS	<i>Pravin</i>
A-28	JADHAV ROHAN	<i>roha</i>
A-29	JAGDALE SUHAS SHIVAJI	<i>Roh</i>
A-30	JAGIRDAR A. MOHID A. NAJIB	<i>Shroji</i>
A-31	JAMDADE DNYANESH SHIVAJI	<i>ant</i>
A-32	KABUTARE PRASHANT KISAN	—
A-33	KADAM VISHAL DATTATRAY	—
A-34	KAKADE ARJUN RAGHUNATH	<i>Prash</i>
A-35	KAMBLE PANKAJ RAJESH	<i>ajp</i>
A-36	KANAME ABHIJEET BALAJI	—
A-37	KAPSE SAGAR ANKUSH	—



A-38	KETAN HAWALDAR	<i>Ketan</i>
A-39	KHAIRE AKSHAY BHANUDAS	<i>Akhair</i>
A-40	KHATATE VINIT DINESH	—
A-41	KONJARE CHANDRAKANT P	—
A-42	KULKARNI RUSHIKESH	<i>Kulkarni</i>
A-43	KUMAR PANKAJ KUMAR PAL S	<i>Kumar</i>
A-44	LOKHANDE AMOL VITTHAL	—
A-45	LOMATE PRITAM	—
A-46	MAHALE NEIL	<i>lomate</i>
A-47	MOHITE ROHIT DNYANESHWAR	<i>neil</i>
A-48	MURTADAK SHUBHAM	<i>mu</i>
A-49	NADAF FARUKH	<i>nadaf</i>
A-50	NAGE AKSHAY	<i>Nage</i>
A-51	NAIKWADI ROHAN SHIVAJI	—
A-52	NAKHATE NIKHIL	—
A-53	NANAVARE SANKET	—
A-54	NEAVASE PRUTHIVIRAJ	<i>neav</i>
A-55	PAKHLE ROHAN SHRIKANT	—
A-56	PALKAR DAYANAD TUKARAM	—
A-57	PANCHAL PRAMILA	<i>Panchal</i>

Rahul

Prof. Rahul Hodage
Faculty Coordinator

Rahul

Prof. Rahul Hodage

H.O.D

Head of the Department
CIVIL ENGINEERING

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 Balewadi, Pune - 411045.



Civil Engineering Department

Academic Year 2018-2019

BE Students Roll Call

Class - BE

DIV B

Site Visit Attendance

Roll No	Names of students	Sign
B-01	PANZADE ANIKET	
B-02	PATIL PRASAD NITIN	
B-03	PATKAR SUMANT	
B-04	PAWAR KAUSTUBH	
B-05	RAGHUVANSHI SHUBHAM NANDKISHORE	
B-06	RAJPUT MANTHAN D	
B-07	RAKSHE SURAJ VASANT	
B-08	RATHOD PRAGATI PARASRAM	
B-09	RAUT AJAY PANDURANG	
B-10	RAUT AJINKYA DHANRAJ	
B-11	RAUT GAURAV GULAB	
B-12	ROSHNI DEVCHANDRA NINGTHOUJAM	
B-13	SAGAR PRATHAM DILIP	
B-14	SAID KAJAL	
B-15	SAMAGE VIJAY RAJU	
B-16	SANAP AVINASH GANPAT	
B-17	SANE AMIT VIJAY	
B-18	SANGLE BABURAO	
B-19	SAPARIYA BAVESH	
B-20	SASTE SAGAR RAJARAM	
B-21	SHAIKH MUBARAK SIRAJ	
B-22	SHARDUL MAHAJAN	
B-23	SHELKE VAIBHAV	
B-24	SHINDE JYOTI SURESH	
B-25	SHINDE MAHESH VILAS	
B-26	SHINDE NIKHIL LAXMAN	
B-27	SHINDE ROHIT MADHAVRAO	
B-28	SHINDE SHREYASH VINOD	
B-29	SHINDE SURAJ TANAJI	
B-30	SHUBHAM SUDHIR NAGARKAR	
B-31	SWAMI VAISHNAVI	
B-32	TANDALE KISHOR HARIBHAU	
B-33	VATTE BHUSHAN NAGESH	
B-34	WAGHMODE PRUTHVIRAJ	
B-35	WALKE MANDAR SANJEEV	
B-36	WANKHEDE ANKIT SANJAY	
B-37	WANVE PRITI NARAYAN	



B-38	WARADE TUSHAR GAJANAN	warade
B-39	WARUDKAR SANCHIT ANILKUMAR	warud
B-40	ZINJADE KIRAN SURESH	zinz
P-01	MUNDE NILESH SHIVAJIRAO	munde
P-02	NITIN DATTARAY AMBHORE	nitin
P-03	RAJIKA GURAV	rajika
P-04	CHOUGULE SOMESH SHIVAJI	chou
P-05	HIPPARGI SHADAAB NAUSHADALI	-
P-06	RANGNATH RAMESH NARWADE	-
P-07	TUPE ANANT	-
P-08	SAURABH GAVALI	Tupe
P-09	SHINDE APURVA	-
P-10	TARATE KRISHNA	-
P-11	RAJPUT KIRAN NANA	-
P-12	DEVANSH AJAYKUMAR DESHMUKH	nan
P-13	SACHIN SHETE	-
P-14	SHARDUL THIGALE	sachin
P-15	YELMAME VAIBHAV	shu
P-16	WAGH CHIRAG GULABRAO	yel
P-17	KULDEEP KATALE	wag
P-18	KATKEMOD POOJA SHIVDAS	katal
P-19	KOKANE AISHWARYA AMOL	-
P-20	SHAIKH MAAZ	-
P-21	RAUT AVINASH G.	-

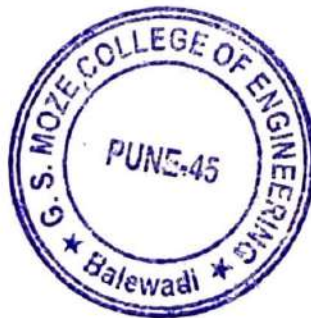
Rahul

Prof. Rahul Hodage
Faculty Coordinator

Rahul

Prof. Rahul Hodage
H.O.D

Head of the Department
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045



19/04/2019 / site visit

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25/1/3, Balewadi, Pune - 411045, Ph: 020-27390500
Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in

Department of Civil Engineering



Date: - 01/04/2019

NOTICE

It is hereby informed to all TE (A & B) students that, Site visit of Structural Design II subject to RCC Residential Project is arranged on 2/4/ 2019 Tuesday.

All students must present at 11.30 am sharp at college premises.

NOTE:

- ❖ Students must present in college uniform
- ❖ Students should carry water bottle, cap and shoes.
- ❖ Attendance is compulsory

Faculty Incharge

Asst. Prof. Nivedita Thorat

Asst. Prof. Vinayak Kulkarni

N Thorat

V Kulkarni

Rahul

HOD

Prof. Rahul Hodage





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DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph. 020-27390500

Website www.gsmozecoe.org

Email gsmoze@yahoo.co.in

Founder President **Shri Rambhau Moze**

Date 26/03/2019

Ref. No. GSM/COE/2019/April/56

To, Project Manager

Western Avenue, Wakad

Subject : Regarding site visit permission of Structural Design II

Respected Sir,

We are one of the reputed institutes offering various technical degree courses approved by AICTE Delhi, Govt. of Maharashtra, DTE and affiliated to Savitribai Phule Pune University (SPPU).

With reference to above mentioned subject as per the course curriculum for the subject **Structural Design II** of Third year student of Civil Engineering Department, we would like to arrange a site visit to ongoing RCC construction.

It's a kind request to grant us permission to visit the site along with 150 students and 2 faculty members on any working day as per your convenience on tentative duration (28th March or 29th March 2019). We will be thankful if you do the needful and allow us In-charge person so that he can explain the details about site.

Thanking you.

Nivedita Thorat

Nivedita Thorat

Contact Person

(7721819160)

Rahul Hodge
26/03/19

Rahul Hodge

Head of the Department,
H.O.D
CIVIL ENGINEERING

Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411 045.

Dr. Abhijeet Auti

Dr. Abhijeet Auti

Principal

PRINCIPAL

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045



Dr. Abhijeet Auti
02/04/19

Create competent Socially Responsible Civil Engineers
Genba Sopanrao Moze Trust's
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING
Balewadi, Pune - 411045.



Civil Engineering Department
Academic Year 2018-2019
Site visit attendance TE A

Roll No	Name of Student	Sign
1	ATTARDE BHUSHAN ANIL	Anil
2	AVHAD SHUBHAM BHASKAR	Avhad
3	BAJABALE SAGAR DINKAR	S.D. Bajabale
4	BANDE BASWESHWAR SANJAY	B. B. Bande
5	BANKAR PRIYA SUBHASH	Priya
6	BELVALKAR SURBHI SUNIL	B. Surabhi
7	BHUNDE GANESH PANDHARINATH	
8	BIRADAR GEETASHRI BALAJI	
9	BIRAJDAR AKASH BHIMRAO	Akash
10	BOBADE AKSHAY ANANT	Akshay
11	CHATE SACHIN RAMCHANDRA	
12	CHAVAN SHUBHAM PRADIP	Shubham
13	CHENDKE AMAR SHIVAJI	
14	CHIPPA NITESH VYANKATESH	
15	CHONDHE SHUBHAM NAMDEV	
16	DAGADE SHUBHAM PANDURANG	Dagade
17	DANGADE SHUBHAM DHANRAJ	
18	DARSHALE SURAJ ASHOK	Suraj
19	DESHMUKHE ADITYA VIVEKANAND	
20	DESHPANDE DURGESH GANESH	
21	DEVDADE ADINATH BALASAHEB	
22	DHAINJE SOURABH RAVINDRA	Sourabh
23	DHANGAR AKSHAY KASHIRAM	Dhangar
24	DHONDDEV PRATIK RAJU	
25	DIXIT SHUBHAM SHIRISH	Dixit
26	DONGALE SANGRAM TANAJI	
27	DUTARE SACHIN SANTOSH	Sachin
28	EDAKE BHUSAN VILAS	E. D. Vilas
29	GAIKWAD PRASHANT PANDHARINATH	
30	GAJARE SIDDHARTH ANIL	Gajare
31	GAWADE DHANANJAY SUBHASH	
32	GAWALI ROSHANI BHANUDAS	R. Gawali
33	GHADGE SAURABH SUMITRA	
34	GORE SHRIKANT SHIWANNA	
35	HIRAVE VISHAL SHIVAJI	V. S. Hirave
36	HIROY POOJA PADMAKAR	Pooja
37	HULPALLE CHAITANYA RAJKUMAR	
38	JUNGHARE JAYASHREE GAJANAN	
39	KADAM OMKAR SHANTARAM	
40	KALBHOR RUSHIKESH SATISH	Satish
41	KALOKHE KALYANI NANSASHEB	
42	KAMBLE NARESH BHAGWAN	Naresh
43	KAMBLE SHRADDHA RAMESH	
44	KANAWARE PRADNYA SUBHASH	Pradnya
45	KASHID VEERA UPKAR	Veera



Roll No	Name of Student	Sign
46	KATE ROHAN RAJU	Kate
47	KHARAMBALE SURAJ RACHANA	S.R.K
48	KHEDKAR YOGESH SOMNATH	Yogesh
49	KOKARE SURAJ POPAT	Suraj
50	LABDE RISHIKESH HANUMAN	R.H.L
51	LAMHADE AJAY DILIP	Ajay
52	MAGARE RAMABAI NAMDEV	R.P.M.
53	MASKE SHUBHAM MANOJ	S.M.M
54	MOHITE VISHAL RAMESH	Vishal
55	MORE VIKAS CHANDRAKANT	V.K.C
56	MORE RAVINDRA GORAKH	R.G.M
57	MULE SHRIDHAR DATTA	Mule
58	NAGANE TANMAY PRADIP	T.P.D.
59	NARHARE RUSHIKESH DHARAMPAL	Rushikesh
60	NATAMBE AKSHAY ANKUSH	
61	NIKAM ROMA YASHWANT	
62	NILEWAR SURESH RAJARAM	
63	PADAWAL NILESH SHAN	
64	PAWAR YOGESHVAREE LAXMAN	
65	THETE PRAJWAL VILAS	Prajwal
66	SURAJ SHRIKISHAN BADADE	S.S.B
67	SIRSAT GANESH	Ganesh
68	TUSHAR TARADE	Tushar
69	YADAV SWAPNIL	Swapnil
70	BUDALE AMOL	Amol
71	KETAN CHOUDHARI	Ketan
72	KULKARNI CHAITANYA	
73	ABHANG AKASH SURESH	
74	BHAVSAR SHUBHAM	
75	DESHMUKH AISHWARYA	Aishwarya
76	HARIDAS AKSHAY JAYANT	
77	SHELKE PRASAD (F.E. 2012)	
78	MORE SANJAY	more
79	YOGESH NAIK	Naik
80	KOKATE PRASAD	Kokate

Thorat

Prof.Nivedita Thorat
Faculty coordinator

Rahul

Prof.Rahul Hodage
H.O.D

Head of the Department
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045



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Balewadi, Pune - 411045.
Civil Engineering Department
Academic Year 2018-2019
SITE VISIT ATTENDANCE - TE B



Roll No	Name of Student	Sign
1	PAGARE ARJUN DINESH	<i>Arjun</i>
2	PANDEY ASHUTOSH VINODKUMAR	<i>Ashu</i>
3	PARMAR VIREN RAMESH	<i>Viren</i>
4	PATEL HARSH HASMUKH	<i>Harsh</i>
5	PATIL RAJASHRI GULABRAO	<i>Rajashri</i>
6	PATIL MAMTA VISHWAS	<i>Mamta</i>
7	PATOLE SANKET BALU	
8	PAWAR KARTIK CHANDRASHEKHAR	
9	PAWAR ADITYA DASHRATH	<i>Aditya</i>
10	PAWNE ANAS MAQSOOD	
11	POL RACHNA RAVI	<i>Rachna</i>
12	POUL VIJAY RUPCHANDE	<i>Vijay</i>
13	RAJPUT SANGRAMSINGH RAJENDRASINGH	<i>Sangram</i>
14	RAKSHE SAURABH SUBHASH	
15	RANDHE SHRADDHA VIKAS	
16	RANE PRATIK PRABHAKAR	<i>Pratik</i>
17	RATHOD AMOL RAJARAM	
18	RATHOD VIKRAM BHIMRAO	<i>Vikram</i>
19	SANGOLKAR KIRAN PANDHARINATH	
20	SAPATE HANUMANT SHIVAJI	<i>Hanuman</i>
21	SARAF SWARALI ANANT	<i>Saraf</i>
22	SASANE HRUSHIKESH BALASAHEB	
23	SATHE VAIBHAV BHARAT	<i>Sathe</i>
24	SHENDRE SUMIT VINODRAO	
25	SHINDE AMIT BALASAHAEB	<i>Amit</i>
26	SHINDE CHETAN KASHINATH	<i>Chetan</i>
27	SHINDE SMITA KRISHNADEV	<i>Smita</i>
28	SHINDE RAMESHWAR RAJENDRA	<i>Rameshwar</i>
29	SHIRSATH PRATIK PRAHLAD	<i>Pratik</i>
30	SOLAPURE SAGAR SURYAKANT	<i>Sagar</i>
31	SONAWANE VISHAL BALASAHEB	
32	SONDE SAHIM ABDUL KARIM	<i>Sahim</i>
33	SONGIRE DARSHAN SURESH	
34	SONKAMBLE AJAY GANESH	<i>Ajay</i>
35	SURVASE SIDDHARTH MACHHINDRA	<i>Survase</i>
36	TAKAWANE SHUBHAM SUNIL	<i>Shubham</i>
37	TANDALE AKSHAY MANOHAR	
38	TAPKEER JAYDATTA KISHORE	<i>Tapkeer</i>
39	THIKEKAR PURVA DHARMANATH	
40	THORAT SWAPNIL KAILASH	<i>Swapnil</i>
41	UGALE MONIKA ASHOK	
42	UPADE PRANALI BALASAHEB	<i>Pranali</i>
43	VALECHHA MOHIT RAJESH	<i>Mohit</i>
44	VYAS ANAGHA AJAY	<i>Anagha</i>
45	WAGHMARE ASHOK VISHNU	<i>Waghmare</i>
46	YEDAVE AVINASH SUKHADEV	<i>Yedave</i>
47	CHAVAN ADITYA	
48	BADE APURVA UTTAM	<i>Bade</i>
49	GAIKWAD TEJAS VINOD	<i>Tejas</i>
50	GITTE MAHESH BAJIRAO	<i>Gitte</i>

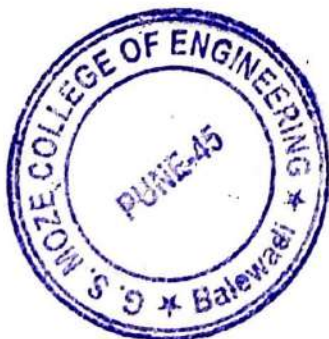


Roll No	Name of Student	Sign
51	GURAV ANIKET ANIL	<i>Ceuss</i>
52	JADHAV LAXMAN SIDRAMAPPA	<i>ms</i>
53	LOKHANDE SHIVANI BHAUSAHEB	<i>ms</i>
54	RAWADE LALESH RAOSAHEB	<i>ms</i>
55	SHAIKH AFTAB ANWAR	<i>ms</i>
56	SISODE VAIBHAV DILIPSING	<i>ms</i>
57	TONAGE NIKITA NAVANATH	<i>ms</i>
58	ZINJADE RAVINDRA SHIVAJI	
59	ALKUNTE KRISHNA ARJUN	<i>ms</i>
60	BACHHAV ROHAN RAVINDRA	<i>ms</i>
61	SONAWANE BHUSHAN LAXMAN	
62	AMOL K CHAVAN	<i>ms</i>
63	PAWAR SWAPNIL VIKAS	<i>ms</i>
64	KAUSTHUBH TATYASAHEB WALKE	<i>ms</i>
65	DHEERAJ VISHWAS SURYAVAMSHI	
66	ATUL JAWALE	<i>ms</i>
67	MAYUR NAKHATE	<i>ms</i>
68	SWARALI PAWAR	<i>ms</i>
69	EKHANDE MAHESH POPAT	<i>ms</i>
70	SHINDE VIVEK	<i>ms</i>
71	BIRAJDAR GURUSHANT SHANKAR	<i>ms</i>
72	MOHIT JAYBHAYE	<i>ms</i>
73	YANAMAWAR PRATIK	<i>ms</i>
74	CHONDHE AJINKYA MANOHAR	<i>ms</i>
75	DESHMUKH HITESH	<i>ms</i>
76	ANIKET LAKHPATI	<i>ms</i>
77	KORE SHEKHAR	<i>ms</i>
78	PAWAR AKSHAY BHAU	<i>ms</i>
79	PARIT AMOL	<i>ms</i>
80	JAIPHALKAR AKSHAY	<i>ms</i>
81	AKSHAY ASHOK KALE	<i>ms</i>

N
 Prof.Nivedita Thorat
 Class Teacher

Rahul
 Prof.Rahul Hodage
 H.O.D

Head of the Department
 CIVIL ENGINEERING
 Genba Sopanrao Moze College of Engineering
 25/1/3, Balewadi, Pune-411045



GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING, BALEWADI

Civil Department

Site Visit Report – Structural Design –II

Under Savitribai Phule Pune University, for Third year of civil engineering syllabus in Structural design II students are supposed to visit RCC structures. According to syllabus we arranged site visit at Western Avenue waked.

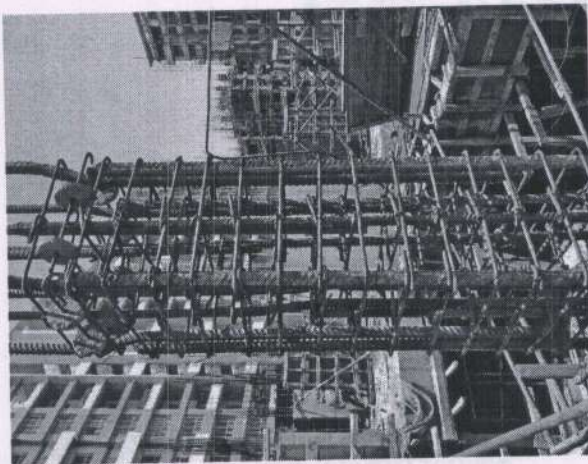
Total No of students = 150

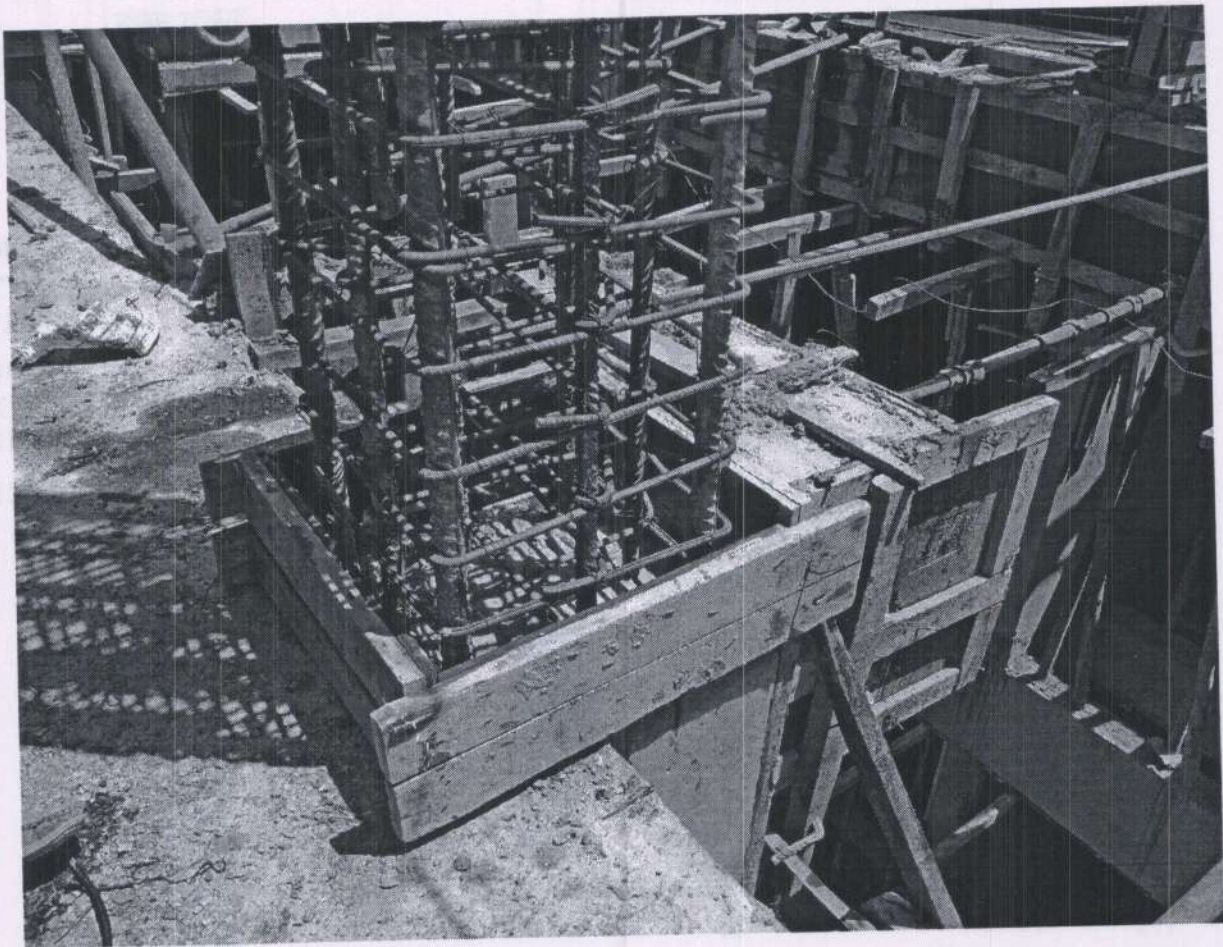
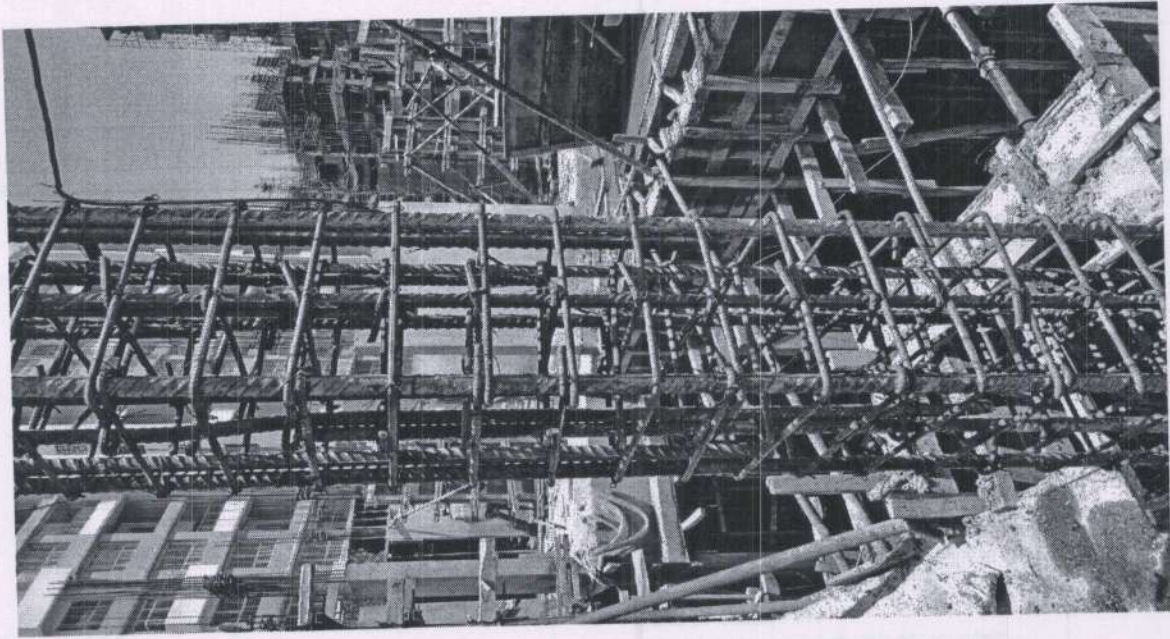
Name of faculties = 1. Asst. Prof. Nivedita Thorat

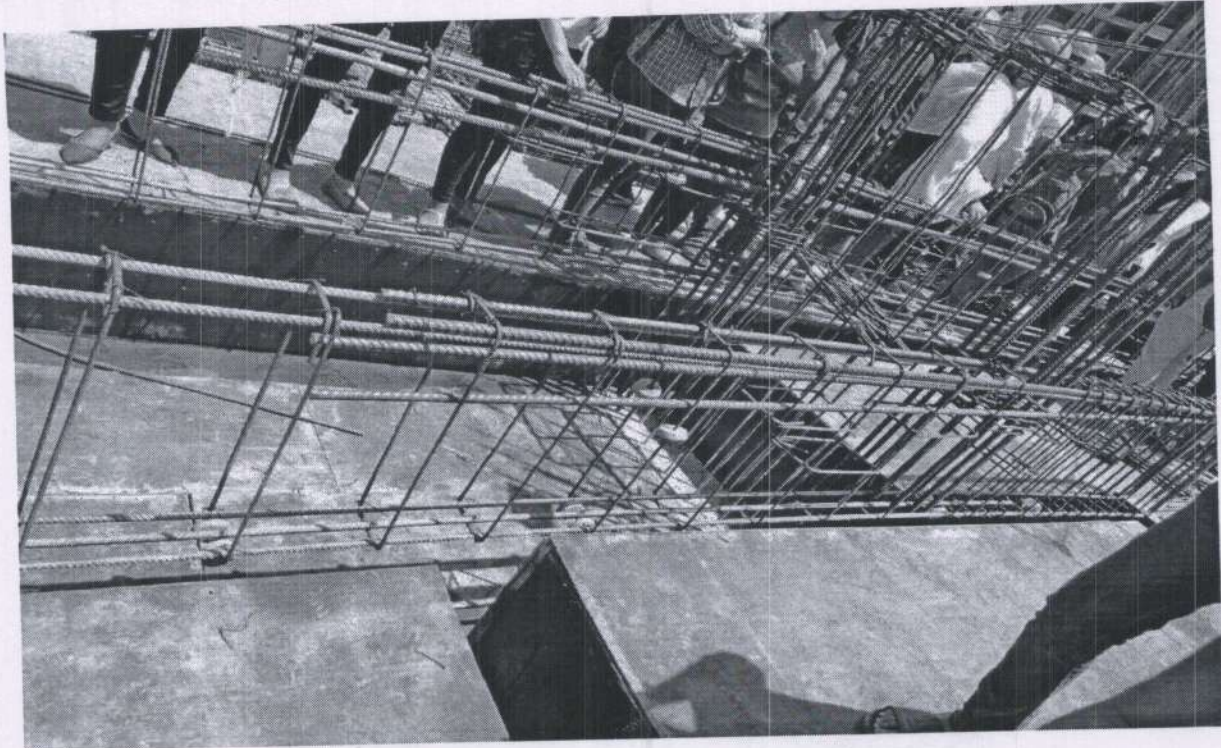
2. Asst. Prof. Vinyak Kulkarni

As per syllabus of structural design II students are supposed to study execution and reinforcement of RCC structures. In our site visit at wakad students got opportunity to understand design detailing of rcc members as Beams, Columns and Staircase.

Site Engineer was available at site explained first of all the detail drawings of various slab, beam and column and then we proceed to actual site. Following are the photos of detailing of structural members.









GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

Founder - President : **Shri Rambhau Moze.**

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S. No. 25/1/3, Balewadi, Pune - 45. Telephone : (020)27290500, Fax : (020)27290500, E-mail : gsmoze@yahoo.co.in

Ref. No.: GSM/COE/2019/April/56/01

Date : 02/04/2019

To, Project Manager

Western Avenue, Wakad.

Dear Sir,

We at the Genba Sopanrao Moze College of Engineering, Balewadi, would like to thank to you for the valuable contribution you made during the site visit at Western Avenue Wakad.

We appreciate the time you took out of your busy schedule to join us and thank you for sharing your insights and expertise with our attendees. Your willingness to volunteer your time, energy and support is greatly appreciated.




HOD

Civil Department,

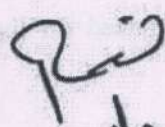
GSMCOE, Balewadi

Head of the Department,

CIVIL ENGINEERING

Genba Sopanrao Moze College of Engineering,

25/1/3, Balewadi, Pune-411 045.


02/4/19



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S. No. 25/1/3, Balewadi, Pune – 411 045

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University)

DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph: 020-27390500 Website: www.gsmozecoe.org Email: gsmoze@yahoo.co.in

Founder President: Shri Rambhau Moze

Date:1/04/2019

To,
Project Manager
Western Avenue Wakad, Pune

Thanking Letter

Respected Sir,

The Genba Sopanrao Moze trust is an educational trust, a pioneer in imparting quality professional's education in field of Engineering. It has established two campuses in Pune at Wagholi & Balewadi.

We Department of Civil Engineering of Genba Sopanrao Moze College of Engineering, Balewadi, Pune, would sincerely thank you for giving us permission to visit your Railway Track visit We really appreciate the time spent with our students and information shared by you. We hope our students received precious knowledge which will definitely help them in their Curriculum.

Thanking you.

N.T.

Prof. Nivedita Thorat

Faculty coordinator

Rahul

Prof. Rahul Hodage

HOD

Head of the Department
CIVIL ENGINEERING

Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045

A. B. Auti

Dr. A. B. Auti

Principal GSMCOE

PRINCIPAL

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045



2018-19/BE/APC/site Visit/29/03/19/By Asst Prof Shalaka Barshetty

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25/1/3, Balewadi, Pune - 411045. Ph: 020-27390500

Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in

Department Of Civil Engineering

Date : 28/03/2019

NOTICE

All students of B.E Civil are hereby informed that, your site visit for APC to "Shree Sant Tukaram Sahakar Sakhar Karkhana" has been arranged on **29/03/2019 Friday**. All students must be present at sharp **9.30 am** to Sugar factory directly.

NOTE:

- Students must be present in college uniform
- Attendance is compulsory

Subject Faculty

Prof. Shalaka Barshetty

Prof. Sheetal Marawar

H.O.D

Prof. Rahul Hodage

Head of the Department,
CIVIL ENGINEERING

Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411 045.



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DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph. : 020-27390500 Website : www.gsmozecoe.org Email : gsmoze@yahoo.co.in

Founder President : Shri. Rambhau Moze



Ref. No. :

Date :

To,

Managing Director,
Shri Sant Tukaram Sahakari Sakhar Karkhana,
Pune

Subject: Regarding permission to site visit to Shri Sant Tukaram Sahakari Sakhar Karkhana, Kasarsai dam Pune.

Respected Sir,

We introduce ourselves as G. S. Moze College of engineering Balewadi is affiliated to University of Pune and approved by AICTE New Delhi. The college runs five UG program including Civil Engineering.

There would be a total of 104 students accompanied by 02 faculty members are interested to Visit your Shri Sant Tukaram Sahakari Sakhar Karkhana as a part of BE SPPU Syllabus in Air pollution control Subject. The visit is aimed at enhancing their Practical knowledge. We intend to take a round of the entire Construction. I assure you that no nuisance will be created and the visit will be carried out with proper discipline. I hope you will give us permission to visit the same.

We are expecting visit on date (29/03/19)

Looking forward for your positive consent in this regard.

Thanking you.

Prof. Shalaka Barshetty

(Faculty coordinator)

Prof. Rahul Hodage

HoD

Head of the Department
CIVIL ENGINEERING

Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045

Dr. A.B. Auti
PRINCIPAL

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045





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(Approved by AICTE and Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University)

DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph. : 020-27390500 Website : www.gsmozecoe.org Email : gsmoze@yahoo.co.in

Founder President : Shri. Rambhau Moze

Ref. No. :

Date : 15/03/2019

To
Managing Director
Shri Sant Tukaram Sahakari Sakhar Karkhana
Pune- 412108

Subject: Regarding permission for site visit to Shri Sant Tukaram Sahakari Sakhar Karkhana, Kasarsai Pune.

Respected Sir,

We are one of the reputed institutes offering various technical degree courses approved by AICTE Delhi, Govt. of Maharashtra, DTE and affiliated to Savitribai Phule Pune University (SPPU).

With reference to above mentioned subject as per the course curriculum for the subject **Air Pollution & Control** of final year student of Civil Engineering Department, we would like to arrange a site visit to Shri Sant Tukaram Sahakari Sakhar Karkhana.

It's a kind request to grant us permission to visit the site along with 104 students and 2 faculty members on any working day as per your convenience on tentative duration (29th March or 5th April 2019). We will be thankful if you do the needful and allow us in-charge person so that he can explain the details about site.

Thanking you.

Sol/CC
nr
Shalaka
Shalaka Barshetty

Contact Person

(9145176665)

Rahul
Rahul Hodge

H.O.D

Head of the Department,
CIVIL ENGINEERING

Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411 045.

Dr. Abhijeet
Dr. Abhijeet Auti
Principal

25/1/3, Balewadi, Pune-411 045
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING
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25/1/3, Balewadi, Pune – 411045. Ph: 020-27390500

Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in

Department Of Civil Engineering

Date : 28/03/2019

To

The Director,

Shri Sant Tukaram Sahakari Sakhar Karkhana,

Kasarsai.

Subject: Letter of thanks for permission & guidance for Sugar Factory & Air pollution control devices.

Respected Sir,


The GENBA SOPANRAO MOZE TRUST is an educational trust, a pioneer in imparting quality professional's education in field of Engineering. It has established two campuses in Pune at Wagholi & Balewadi.

We department of Civil Engineering o Genba Sopanrao Moze College of Engineering, Balewadi, Pune, would sincerely thank for allowing and guiding our BE Civil students at Shri Sant Tukaram Sugar factory . Our BE students want to thank you again for giving the opportunity to study and understand the actual design considerations at site. We really appreciate the time spend with our students and information shared by you.

We hope our students received precious knowledge in Air pollution control devices from you. Thanking you.


HOD

Department of Civil Engineering


Principal 28/3
GSMCOE, Balewadi, Pune
PRINCIPAL

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, Pune-411 045



Successfully visited.
E.O 28.3.2019
Shri Sant Tukaram Sah. Sakhar Kar. Ltd



Genba Sopanrao Moze Trust's
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING
Balewadi, Pune - 411045.

Civil Engineering Department
Create competent Socially Responsible Civil Engineers
Academic Year 2018-2019

Sem - II Class - BE (A div) Date: 29/03/2019
APC Site Visit at Shri Sant Tukaram Sahakari Sakhar Karkhana

Sr.No.	Roll No.	Names of students	Sign
1	A - 1	ARUN SINGH	
2	A - 2	AUDGE ASHWINI ATMARAM	
3	A - 3	BHORE VAISHNAVI VIVEKANAND	
4	A - 4	BHOSALE DIGVIJAY DATTATRAY	Bhosale
5	A - 5	BHOSALE SHREYASH SUDHIR	Bhosale
6	A - 6	BIRADAR POOJA SHRIRAM	
7	A - 7	CHAUHAN KRISHNAMOHAN R	Chauhan
8	A - 8	CHOUGULE ANIKET SUNIL	
9	A - 9	CHOUGULE SOMESH SHIVAJI	Somesh
10	A - 10	DABHOLKAR SOHAM RAJENDRA	
11	A - 11	DESHMUKH RAJWARDHAN	
12	A - 12	DEVKAR SHUBHAM RAJABHAU	Devkar
13	A - 13	FARANDE MAYUR NAMDEO	Faran
14	A - 14	GANDHI GAURAV HARSHAD	
15	A - 15	GOPALE NIKHIL MANISH	
16	A - 16	HIPPARGI SHADAAB NAUSHADALI	Hippargi
17	A - 17	HULAWALE PRATIK	Hulawale
18	A - 18	JADHAV AKASH VENKATESH	
19	A - 19	JADHAV PRAVIN VILAS	
20	A - 20	JAGDALE SUHAS SHIVAJI	Jagdale
21	A - 21	JAMDADE DNYANESH SHIVAJI	
22	A - 22	KABUTARE PRASHANT KISAN	
23	A - 23	KADAM VISHAL DATTATRAY	
24	A - 24	KAKADE ARJUN RAGHUNATH	
25	A - 25	KAMBLE PANKAJ RAJESH	
26	A - 26	KANAME ABHIJEET BALAJI	
27	A - 27	KHAIRE AKSHAY BHANUDAS	Khaire
28	A - 28	KHATATE VINIT DINESH	
29	A - 29	KONJARE CHANDRAKANT P	
30	A - 30	KUMAR PANKAJ KUMAR PAL S	
31	A - 31	LOKHANDE AMOL VITTHAL	
32	A - 32	MOHITE ROHIT DNYANESHWAR	Mohite
33	A - 33	PAKHLE ROHAN SHRIKANT	



34	A - 34	PALKAR DAYANAD TUKARAM	
35	A - 35	PATIL PRASAD NITIN	<i>Nitin</i>
36	A - 36	RAHUL VITHOBA BOTRE	
37	A - 37	RAJPUT KIRAN NANA	
38	A - 38	RAJPUT MANTHAN D	<i>MB</i>
39	A - 39	RAKSHE SURAJ VASANT	<i>Prakash Prasad</i>
40	A - 40	RATHOD PRAGATI PARASRAM	
41	A - 41	RAUT AJAY PANDURANG	<i>Ajay</i>
42	A - 42	RAUT AVINASH G	
43	A - 43	ROHAN SHIVAJI NAIKWADI	
44	A - 44	ROSHNI DEVCHANDRA NINGTHOUJAM	<i>Roshni</i>
45	A - 45	SAGAR PRATHAM DILIP	<i>Pratham</i>
46	A - 46	SAMAGE VIJAY RAJU	<i>VR</i>
47	A - 47	SANAP AVINASH GANPAT	<i>Sanap</i>
48	A - 48	SANE AMIT VIJAY	<i>Amit</i>
49	A - 49	SASTE SAGAR RAJARAM	<i>Sagar</i>
50	A - 50	SHINDE APURVA	
51	A - 51	SHINDE JYOTI SURESH	
52	A - 52	SHINDE MAHESH VILAS	
53	A - 53	SHINDE NIKHIL LAXMAN	
54	A - 54	SHINDE ROHIT MADHAVRAO	
55	A - 55	SHUBHAM SUDHIR NAGARKAR	
56	A - 56	TANDALE KISHOR HARIBHAU	
57	A - 57	VATTE BHUSHAN NAGESH	<i>Bhushan</i>
58	A - 58	WALKE MANDAR SANJEEV	<i>Mandar</i>
59	A - 59	WANKHEDE ANKIT SANJAY	
60	A - 60	WANVE PRITI NARAYAN	
61	A - 61	WARADE TUSHAR GAJANAN	
62	A - 62	WARUDKAR SANCHIT ANILKUMAR	<i>Sanjit</i>
63	A - 63	ZINJADE KIRAN SURESH	<i>Kiran</i>
64	A - 64	BANSODE RANJANA RAMESH	<i>Ranjana</i>
65	A - 65	BHANDARE KISHOR	<i>Kishor</i>
66	A - 66	CHAUHAN KANHAYA LAXMINARAYAN	
67	A - 67	CHOUDHARI GAURI BHAGAWAT	<i>Gauri</i>
68	A - 68	DIDWAGH DHANAJI HANMANT	<i>Didwagh</i>
69	A - 69	GARJE VIVEK	
70	A - 70	GHOLAVE MAHESH	
71	A - 71	GORE MARUTI DAGADU	
72	A - 72	HAWALDAR KETAN	<i>Ketan</i>
73	A - 73	HINDRE SWAPNIL	
74	A - 74	JADHAV ROHAN ASHOK	
75	A - 75	JAGIRDAR A. MOHID A. NAJIB	
76	A - 76	JALKOTE SHWETA V.	<i>Shweta</i>



77	A - 77	KAPSE SAGAR ANKUSH	
78	A - 78	KULKARNI RUSHIKESH	
79	A - 79	LOMATE PRITAM	Mahajan
80	A - 80	MAHAJAN SHARDUL	Shardul
81	A - 81	MANMODE SAURABH	Saurabh
82	A - 82	MUNDE NILESH SHIVAJIRAO	
83	A - 83	MURTADAK SHUBHAM	
84	A - 84	NAGE AKSHAY	AA
85	A - 85	NAKHATE NIKHIL	NA
86	A - 86	NANAVARE SANKET	
87	A - 87	NEAVASE PRUTHIVIRAJ	Pruthi
88	A - 88	NITIN DATTARAY AMBHORE	Palkar
89	A - 89	PANCHAL PRAMILA	Prithvi
90	A - 90	PANZADE ANIKET	
91	A - 91	PATKAR SUMANT	
92	A - 92	PAWAR KAUSTUBH	
93	A - 93	RAGHUVANSHI SHUBHAM NANDKISHORE	
94	A - 94	RAUT AJINKYA DHANRAJ	Shubham
95	A - 95	RAUT GAURAV GULAB	Gulab
96	A - 96	SAID KAJAL	Kajal
97	A - 97	SANGLE BABURAO	
98	A - 98	SAPARIYA BAVESH	
99	A - 99	SHAIKH MUBARAK SIRAJ	
100	A - 100	SHINDE SHREYASH VINOD	
101	A - 101	SHINDE SURAJ TANAJI	Suraj
102	A - 102	SWAMI VAISHNAVI	
103	A - 103	TARATE KRISHNA	Krishna
104	A - 104	WAGHMODE PRUTHIVIRAJ	Pruthi

Rangnath L. Morawade



AIR POLLUTION & CONTROL

SITE VISIT REPORT

SUBJECT : Air Pollution & Control

NAME& ADDRESS: SHRI SANT TUKARAM SAHAKARI SAKHAR
KARKHANA, PUNE, 412108

DAY & DATE: Friday , 29/03/2009

OBJECTIVE: STUDY OF AIR POLLUTION CONTROL TECHNIQUE

GUIDED BY: Asst. Prof. Shalaka Barshetty

Asst.Prof. Sheetal Marawar

EXPERTS FROM SITE: Project Manager – Mr. Manoj Naikwade

Number of student's present- 51

Number of faculties - 02

Overview

We have arranged the visit for Sugar factory at Kasarsai for BE civil A & B division. with reference to subject mentioned above as per the course curriculum. At site after Introduction part he took us to his factory site where he showed us various equipments which is used for controlling air pollution. Then Mr. Manoj Naikwade explained us about various components of Gravity Settlers and ESP. Efficiencies of Gravity Settler and ESP are 75% and 99%. These equipments are used for controlling dust particles which produced in sugar factory.



Specification of Sources creating Air Pollution:

1. Electrostatic Precipitator

2. Gravity Settling Chamber

At present there are 173 cooperative sugar factories in operation, employing 165,000 people. Almost 800,000 people are engaged in the harvesting and transportation of sugarcane to factories from the fields. The sugar industry provides annual revenue of over 22 billion to the government. Due to the cooperative sugar industry, allied businesses including milk cooperatives, fertilizer supply, and irrigation systems have flourished. The presence of this industry has led to development of rural places, from which the sugarcane is drawn to factories, including an improved road network, transportation facilities, medical facilities, education facilities, and banking.

1.1 ELECTROSTATIC PRECIPITATOR



Principle

The electrostatic precipitator (ESP) is suitable for the precipitation of solid particles. The particles are charged by a flow of ions from the discharge electrode and drift under the influence of the electrical field towards the collecting electrode. The cleaning of the collecting electrodes is achieved by periodic rapping for dry precipitators and by flushing for wet precipitator.



Working

The dust laden gas is passed between the oppositely charged conductors and is becomes ionized as the voltage applied between the conductors is sufficiently large (30kV to 60kV depending upon the electrodes spacing). As the dust laden gas is passed through the highly charged electrodes, both negative and positive ions are formed (positive ions will be a high as 80%).

The ionized gas is further passed through the collecting unit which consists of set of metal plates. Alternate plates are charged and earthed. As the alternate plates are grounded, high intensity electrostatic field exerts a force on the positive charged dust particles and drives them towards the ground plate. The deposited dust particles are removed from the plates by giving the shaking motion of the plates with the help of cams driving by external means. The dust removed from the plates with the help of shaking motion is collected in the dust hoppers. Care should be taken that the dust collected in the hopper should not be entrained in the clean gas.

Advantages

- Electrostatic Precipitators (ESP) is also most effective for high dust loaded gas (as high as 100 grams per cu meter). Its efficiency is as high as 99.5%
- The drought loss of the separator is the least of all forms
- The maintenance charges are less compared to all other separators
- Electrostatic Precipitators provides ease of operation
- The dust or fly-ash is collected in dry form and can be removed either dry or wet.

Disadvantages

- The direct current (DC) is not available with the modern thermal power plants. Hence considerable electrical equipment is required to convert from ac to dc (60kV dc). This increases the capital cost of the equipment.
- The running charges is also high as the amount of power required for charging is considerably high
- The space required for electrostatic precipitators is larger than wet system
- The efficiency of the electrostatic precipitators is not maintained if the gas velocity exceeds that for which the plant is designed. The dust carried with the gases increases with an increase of gas velocity.



Gravity Settling Chamber:



Settling chambers are generally built in the form of long, horizontal, rectangular chambers with an inlet at one end and an exit at the side or top of the opposite end. Flow within the chamber must be uniform and without any macroscopic mixing. Hoppers are used to collect the settled particles.

Advantages

1. Low capital cost;
2. Very low energy cost;
3. No moving parts, therefore, few maintenance requirements and low operating costs;
4. Excellent reliability;
5. Efficiency of chamber is 77%

Disadvantages



1. Unable to handle sticky or tacky materials
2. Large physical size
3. Relatively low PM collection efficiencies, particularly for particulate matter less than $50\mu\text{m}$ in size





Conclusion:

We have studied various uses and applications along with efficiency of Electrostatic precipitator and gravity settling chamber.

We are really thankful for such valuable guidance and information.



2018-19/ SE/CT/ Site Visit/ 29/03/19/ By Asst Prof Shilpa Mahajan
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Department Of Civil Engineering

DATE: 28/03/2019

NOTICE

All the students of S.E. are hereby informed that , your site visit of RMC Plant has been arranged on 29/03/19 FRIDAY. So you all have to present at 11.30 am sharp in college premises.

NOTE:

- STUDENTS MUST BE PRESENT IN COLLEGE UNIFORM
- STUDENTS SHOULD CARRY WATER BOTTLE,CAP, SHOES etc
- ATTENDANCE IS COMPULSORY

Subject Faculty:

Prof. Shilpa Mahajan
Prof. Sonam Agrawal

H.O.D.

Prof. Rahul Hodage





"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"
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S. No. 25/1/3, Balewadi, Pune - 411 045

(Approved by AICTE and Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University)

DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph. 020-27390500 Website www.gsmozecoe.org Email gsmoze@yahoo.co.in

Founder President **Shri Rambhau Moze**

Ref. No. GSHCOE/ADMIN/2018/99

Date 20/3/2019

To,

VRS Concrete,

Near Bhumkar Chowk, Wakad

Pune

Subject: Regarding permission visit to VRS Concrete Pune.

Respected Sir,

We introduce ourselves as G. S. Moze College of engineering Balewadi is affiliated to University of Pune and approved by AICTE New Delhi. The college runs five UG program including Civil Engineering.

There would be a total of 50 students accompanied by 02 faculty members are interested to Visit your VRS Concrete Pune a as a part of SE SPPU Syllabus in Concrete Technilogy Subject. The visit is aimed at enhancing their Practical knowledge. We intend to take a round of the entire Construction. I assure you that no nuisance will be created and the visit will be carried out with proper discipline. I hope you will give us permission to visit the same.

We are expecting visit on date (29/03/19)

Looking forward for your positive consent in this regard.

Thanking you.

Prof. Shilpa Mahajan

(Faculty coordinator)

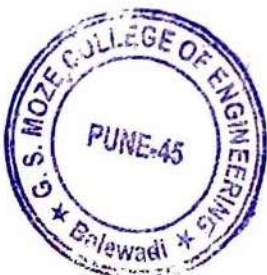
Prof. Rahul Hodage

HoD
Head of the Department
CIVIL ENGINEERING

Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045

Dr. A. B. Auti
PRINCIPAL

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045





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Founder President: Shri Rambhau Moze

Ref. No.

Date: 29/3/2019


To,
VRS Concrete
Near Bhumkar Chowk, Wakad

Dear Sir,

We at the Genba Sopanrao Moze College of Engineering, Balewadi, would like to thank to you for the valuable contribution you made during the site visit at VRS RMC Plant Wakad.

We appreciate the time you took out of your busy schedule to join us and thank you for sharing your insights and expertise with our attendees. Your willingness to volunteer your time, energy and support is greatly appreciated.

Thanks and Regards


Prof. Rahul Hodage

HoD, Civil Engineering Department,

GSMCOE, Balewadi

**Head of the Department,
CIVIL ENGINEERING**
Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411 045.



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Genba Sopanrao Moze Trust's

GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

Balewadi, Pune - 411045



Civil Engineering Department

A.Y. 2018-19

Site Visit Attendance

Class: SE Div: A

Roll no	Name of Student	sign
1	ATOLE BHAGYASHREE	—
2	BIDAVE SNEHAL	—
3	GAWADE SHUBHAM	—
4	MIRASHI VISHAKHA	—
5	PAGARE AKSHAYKUMAR	Pagare
6	PAWAR GAURAV	Pawar
7	RAIPURE KSHITIJ	Kshitiy
8	SHETEWAD MANISHA	Shetewad
9	SHINDE OMKAR G	—
10	WALUNJ NIKHIL	Walunj
11	ADAGALE SURAJ NAMDEV	Adagale
12	ADE ROSHNI GOVINDA	—
13	AMBORE AKSHAY MANIKRAO	Ambore
14	BADE NIKHIL LALAJI	Lalaji
15	BADGUJAR JITENDRA VASANTBHAI	—
16	BAGUE SAURABH ANANT	Anant
17	BEHAL PRABJYOT SINGH PRADEEP SINGH	Singh
18	BHAGAT HARSHVARDHAN RAJENDRA	Rajendra
19	BHANDWALKAR AKSHAY RAJENDRA	BK
20	BHOIR AKASH SAHADEV	Sahdev
21	BHOITE RHISHIKESH TANAJI	Tareji
22	BHOSALE SHUBHAM SUNIL	Sunil
23	BONAKRUTI PARTH NANDKUMAR	Parth
24	BORADE VAIBHAV ANIL	Anil
25	BORSE SHUBHAM PANJABRAO	Ranjibbhai
26	BOTRE RUSHIKESH VITTHAL	Vitthal
27	CHAUDHARI AKSHAY KASHINATH	Kashinath
28	CHAURE KUNAL GOJIR	Gopid
29	DAMLE ATHARVA SUNIL	Seenil
30	DANGE OMKAR TUKARAM	Tukaram
31	DHADDE SUPRIYA RAJKUMAR	Rajkumar
32	DHAMAL AKSHAY DATTATRAY	Dattatray



33	DHIDE AJAY ANKUSH	Dhide
34	GAIKWAD ABHIJIT SUNIL	Sunil
35	GAIKWAD LAHU DHARMARAJ	Lahu
36	GAIKWAD ROHIT RAMDAS	Rohit
37	GAIKWAD SANDESH SUNIL	Sunil
38	GAIKWAD SHUBHAM NAGESH	Nagesh
39	GAIKWAD SWARAJ SADANAND	Sadanand
40	GAIKWAD VISHVAJEET BALAJIRAO	Balajirao
41	GALANDE POOJA SHIVAJI	Pooja
42	GHANERI SHIVAM SUNIL	Sunil
43	GHARE AMAR PRAKASH	Amar
44	GHODKE VISHAL BALIRAM	Vishal
45	GORDE SURAJ PIRBHAU	—
46	GUND SAURABH GOPALKRUSHNA	—
47	INGLE PRATHAMESH EKNATH	—
48	JADHAV KIRAN DATTATRYA	—
49	JADHAV NIKHIL PRADEEP	—
50	JADHAV RANJIT RAJARAM	—
51	KADAM RAVIRAJ DADASO	—
52	KAHANDAL VIKAS DATTATRAYA	—
53	KALAMBATE HARSHAD JAYAWANT	—
54	KALE ANIKET BIBHISHAN	Aniket
55	KAMBALE YOGESH BHIKAJI	Bhikaji
56	KAMBLE SHUBHAM	Shubham
57	KAMTE TANISHK SHEKHAR	Shekhar
58	KAMTHEKAR VIJAY SOMNATH	Vijay
59	KAWATHE AVINASH BALAJI	Avinash
60	KEDAR AVINASH APPASO	Appaso
61	KHADE AKSHAY VIJAY	Akshay
62	KHAJURE ISHWAR UMAKANT	Ishwar
63	KHEDEKAR SHUBHAM DIPAK	Shubham
64	KHILLARE SHUBHAM S.	Shubham
65	KHOLIYA HARSHAL HARESH	Harshal

Prof. Shilpa Mahajan
Faculty Coordinator

Prof. Rahul Hodage

HOD

Head of the Department
CIVIL ENGINEERING

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Balewadi, Pune - 411045

Civil Engineering Department

A.Y. 2018-19

Site Visit attendance

Class: SE Div: B



Sr.No.	Name of Student	sign
1	KONDE PRATHAMESH SHRIKANT	Kohela
2	KRITESH KUMAR	Kritesh
3	KSHIRSAGAR SANJANA RAJENDRA	Sanjana
4	KSHIRSAGAR VAIBHAV BHIMRAO	Vaibhav
5	KUMBHAR SUMIT BABASAHEB	Sumit
6	LABADE ROHAN HARIDAS	Rohaan
7	LAWARDE BHAVESH BHARAT	—
8	LOKHANDE NILESH MAHADEV	—
9	MANANI MOHIT PRAVIN	—
10	MANWATKAR VISHWANIL KIRAN	—
11	MASHETTE AVINASH RAMESH	—
12	MAZIRE KIRAN SURESH	Kiran
13	MIRGALE NANDINI ANANT	Anant
14	MISHRA TEJAS RAJESH	Mishra
15	MORE HARSHAVARDHAN PRAMOD	Pramod
16	NAGDIVE ASHUTOSH SATISH	Satish
17	NAIKWADE DHANJAY SAINATH	—
18	NARSAPURE ABHIJEET MADHUKAR	—
19	NIMBALKAR SAURABH RAJENDRA	Pur
20	NIPHADKAR MAYURESH NITIN	Nitin
21	PANCHAL RUSHIKESH HARISH	Rushikesh
22	PANDHRE AKASH DHONDIRAM	Akash
23	PARGADE AJINKYA RAMDAS	Ramdas
24	PARGAVE SUNIL KISHANRAO	—
25	PATIL SACHIN BALU	—
26	PATIL SHAHURAJ RAJKUMAR	—
27	PATIL SHUBHAM VINAYAK	—
28	PATIL VISHAL VIJAYKUMAR	—
29	PAWAR ANIKET NAMDEV	—
30	PAWAR PRAFULLA BHAUSAHEB	—
31	PAWAR RAHUL SHIVAJI	—
32	PAWAR VAIBHAV RAVSAHEB	—
33	RANSING SANKET SUDAMRAO	Sanket
34	RATHOD ASHWINI RANGNATH	Ashwini
35	RATHOD HARSHAL MUKESH	Harshal
36	RAUT MOHAN BHARAT	Mohan
37	RAWATE ROHIT DNYANESHWAR	Rohit
38	RITHE SAHIL MAHESH	Sahil
39	SABALE SNEHAL BHAGAVAT	Snehal
40	SAKHALKAR KUNAL SHARAD	Kunal



41	SALUNKHE SHUBHAM MAHADEV	Shubham
42	SAPARIYA ANKIT JAGDISH	ankit
43	SAVANT YASH RAMCHANDRA	yash
44	SHAH NIRAJ SANJAY	Niraj
45	SHEDOLE BHAKTRAJ GOVINDRAO	Bhaktraj
46	SHELKE SHRADDHA BALU	Shelke
47	SHENDE PUNDLIK JAIRAM	Pundlik
48	SHINDE GANESH HARIDAS	Shinde
49	SHINDE SAGAR BABAN	Sagar
50	SHINDE SANJYOT SANDEEP	Sanjyot
51	SHINDE SAURABH SURENDRA	Saurabh
52	SHINDE SWAPNIL RAJENDRA	Swapnil
53	SHITOLE PRADNYESH PANDIT	Pradnyesh
54	SHIVSHARAN BHAKTI UTTAM	Shivsharan
55	SOMWASHI SUPRIYA BALAJI	Supriya
56	SONTAKE SHRIKANT S	Shrikant
57	SURVE SAIDEEP DEEPAK	Deepak
58	SURYAWANSHI HARISHCHANDRA SHANKAR	Suryawanshi
59	TADGE SAURABH SANJAY	Tadge
60	TAWARE SWAPNIL KALIDAS	Swapnil
61	THAKARE VARSHA GOKUL	Varsha
62	THEHTE PRAMOD SHIVAJI	Pramod
63	TODALBAGI ONKAR ASHOK	Onkar
64	WALUNJ CHAITANYA KUNDLIK	Chaitanya
65	BHOSALE TEJAS	Tejas
66	LONDHE SIDDHI RAJENDRA	Siddhi

Shilpa Mahajan

Prof. Shilpa Mahajan
Faculty Coordinator

Rahul Hodage

Prof. Rahul Hodage
HOD

Head of the Department
CIVIL ENGINEERING

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Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in

Department Of Civil Engineering

CONCRETE TECHNOLOGY VISIT REPORT

NAME & ADDRESS: 'VRS CONCRETE PVT LTD, S.NO. 1190, ASKSHARA INTERNATIONAL SCHOOL, BHUMKAR CHOWK, PUNE-11033

DAY & DATE :-Friday 29/03/19

OBJECTIVE: STUDY OF RMC, TRANSIT MIXER AND BATCHING.

GUIDED BY: Asst. Prof. SHILPA MAHAJAN

Asst. Prof. SONAM AGRAWAL

EXPERTS FROM SITE: Project Manager – RAJU MORE,

Overview

We had arranged the visit for RMC plant at Wakad for SE civil A & B division. with reference to subject mentioned above as per the course curriculum.

Mr. Vinod first introduced us to the laboratory where various test on concrete and cement are carried out i.e initial and final setting time, slump cone test, standard consistency test etc. The machine and equipments which were preparing the concrete mix was by IDF company named CP30. The capacity or volume of per Batch was to be found of half m³. There were two silos each containing cement and fly ash.

The admixture used for the particular batch was named BSF which is a local superplasticizer. The main assembly consisted of a hopper and mixing station. The hopper contained coarse aggregate, fine aggregate upto size of 20mm. The Hopper itself weighs the aggregate, cement and water as per the inputted mix. Then the proportion is further taken near the mixer by the means of conveyer. The mixer mixes every constituent as per the command given. After mixing the concrete is then poured into the trucks for transportation. After each mix the mixer is cleaned to assure the quality of each batch. The trucks have capacity of 6m³, 8m³, 10m³ respectively. To fill 6m³ truck the mixer takes 15 mins. The maximum grade of concrete available was of M60 grade. The price of 0.5m³ of concrete was 4500 rupees. The plant usually manufactures 80-100 m³ concrete daily. The whole set-up is controlled by the IDF software which contains all the details of clients such as site location, grade of concrete, amount of concrete, no of trucks supplied, contact details etc. Most of the process is automated but it also can be manually controlled Mr. Vinod explained everything quite precisely. We are thankful to each and everyone who made the visit successful.





Fig 1. READY MIX CONCRETE PLANT



Fig 2 : SILOS CONTAINING CEMENT, FLY ASH AND GGBS RESPECTIVELY



**VRS CONCRETE LLP.
WAKAD**

MONTHLY TEST REPORTS OF Jan -2019

Sr.NO	NAME OF TESTS
1	Sieve analysis of coarse & fine Aggregate
2	Aggregate impact value
3	Aggregate crushing value
4	Flakiness index of coarse Aggregate
5	D.L.B.D of coarse & fine Aggregate
6	SPECIFIC GRAVITY OF CORSE AND FINE AGG.
7	TEST CERTIFICATE OF CEMENT
8	TEST CERTIFICATE OF FLYASH
9	TEST CERTIFICATE OF ADMIXTURE
	<p>_____ LAB TECHNICIAN</p> <p>_____ QA-QC INCHARGE</p> <p>_____ CLIENT</p>





VRS CONCRETE LLP
WAKAD

TEST FOR AGGREGATES

AGGREGATE SIEVE ANALYSIS REPORT

1. SOURCE : Talegaon KAKADE STONE CRUSHER
2. SIZE OF AGGR. : 20 MM
3. DATE OF TESTING: : 1/1/2019

SL. No.	IS SIEVE (MM)	WEIGHT RETAINED (GMS)	PERCENT RETAINED	CUM. PERCENT		IS REQ. *	REMARKS
				RETAINED	PASSING		
1	40	0				100	
2	25	0	0.00	100.00	100.00	100	
3	20	150	3.00	3.00	97.00	85-100	
4	10	4695	93.90	96.90	3.10	0-20	
5	4.75	155	3.10	100.00	0.00	0-5	
6	PAN	0	0.00	100.00		-	
Total		5000					

*Note:- As per Limits given in IS:383 - 1970 Table 2, Clauses 4.1 & 4.2

LAB TECHNICIAN

QC INCHARGE





VRS CONCRETE LLP

WAKAD

TEST FOR AGGREGATES

AGGREGATE SIEVE ANALYSIS REPORT
(IS.2386 / IS.383)

1. SOURCE : Talegaon KAKADE STONE CRUSHER
2. SIZE OF AGGR. :10 MM
4. DATE OF TESTING :1/1/2019

SL. No.	IS SIEVE (MM)	WEIGHT RETAINED (GMS)	PERCENT RETAINED	CUM. PERCENT		IS REQ. *	REMARKS
				RETAINED	PASSING		
1	20	-	-	-	-		
3	12.5	0				100	
6	10	290	5.80	5.80	94.20	85-100	
8	4.75	4580	91.60	97.40	2.60	0-20	
9	2.36	110	2.20	99.60	0.40	0-5	
14	PAN	20	0.40	100.00	0.00	-	
Total		5000					

*Note:- As per Limits given in IS:383 - 1970 Table 2, Clauses 4.1 & 4.2

LAB-TECHNICIAN

QC- INCHARGE





VRS CONCRETE LLP
WAKAD

TEST FOR AGGREGATES

AGGREGATE SIEVE ANALYSIS REPORT
(IS.2386 / IS.383)

1. SOURCE : Talegaon KAKADE STONE CRU:
2. SIZE OF AGGR. : Cr/Sand
3. DATE OF TESTING : 1/1/2019

SL. No.	IS SIEVE (MM)	WEIGHT RETAINED (GMS)	PERCENT RETAINED	CUM. PERCENT		IS REQ. ZONE-1	REMARKS
				RETAINED	PASSING		
		-	-	-	-	ZONE-I	ZONE-II
1	10	0	-	-	100.00	100	
2	4.75	80	4.00	4.00	96.00	90-100	90-100
3	2.36	280	14.00	18.00	82.00	60-95	75-100
4	1.18	416	20.80	38.80	61.20	30-70	55-90
5	0.6	493	24.65	63.45	36.55	15-34	35-59
6	0.3	311	15.55	79.00	21.00	5-20	8-30
7	0.15	198	9.90	88.90	11.10	0-10	0-10
9	Pan	222	11.10	100.00	0.00	-	

Total 2000

FM : 2.92

*Note:- As per Limits given in IS:383 - 1970 Table 4, Clause 4.3 (Note 1)

LAB TECHNICIAN

QC INCHARGE





VRS CONCRETE LLP

WAKAD

TEST OF AGGREGATES

AGGREGATE IMPACT TEST

Aggregate - coarse aggregate IS : 2386 / IS : 383.

1 SOURCE : KAKADE STONE CRUSHER
2 DATE : 1/1/2019
3 SIZE OF AGGR. : 10mm
4 TEST FREQUENCY : Once in a month

SL. No.	DETAILS	TRIAL NO.		AVERAGE
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure (Gm)	388	387	6.97
2	Weight of aggt. passing through 2.36 mmsieve after the test (Gm)	26	28	
3	weight of aggt. Retained on 2.36 mm sieve after test (Gm)	362	359	
4	Aggregate impact value (%)	6.70	7.24	

Note:- As per Limits given in IS:383 - 1970, 3.4

Results : Selected / Rejected under the Clause

Remarks : _____

LAB TECHNICIAN

QC - INCHARGE





VRS CONCRETE LLP

WAKAD

TEST OF AGGREGATES

SPECIFIC GRAVITY TEST (IS - 2386 / 383)

1 SOURCE : Talegoan KAKADE STONE CRUSHER
2 DATE : 1/1/2019
3 SAMPLE NO. : 00
4 SIZE OF AGGR. : 20mm
5 TEST FREQU 01-10-15 : Once in a month

SL NO.	DETAILS	TRAIL NO.	
		1	2
1	WEIGHT OF PYCNOMETER (GMS) -- W1	485	485
2	WEIGHT OF PYCNOMETER + DRY. AGG.,(GMS) --W2	1380	1398
3	WEIGHT OF PYCNOMETER + AGG.+ WATER , (GMS) -- W3	1881	1892
4	WEIGHT OF PYCNOMETER + WATER , (GMS) -- W4	1278	1278
5	SPECIFIC GRAVITY $\frac{(W2 - W1)}{(W4 - W1) - (W3 - W2)}$	3.065	3.054
AVERAGE =		3.059	

TEST ACCEPTED / REJECTED - (Limits not specified)

REMARKS :

LAB TECHNICIAN

QC INCHARGE





VRS CONCRETE LLP

WAKAD

TEST OF AGGREGATES

SPECIFIC GRAVITY TEST (IS - 2386 / 383)

1 SOURCE : Talegaon KAKADE STONE CRUSHER
2 DATE : 1/1/2019
4 SIZE OF AGGR. : 10mm
5 TEST FREQUENCY : Once in a month

SL NO.	DETAILS	TRAIL NO.	
		1	2
1	WEIGHT OF PYCNOMETER (GMS) -- W1	485	485
2	WEIGHT OF PYCNOMETER + DRY. AGG.,(GMS) --W2	1355	1334
3	WEIGHT OF PYCNOMETER + AGG.+ WATER , (GMS) -- W3	1850	1836
4	WEIGHT OF PYCNOMETER + WATER , (GMS) -- W4	1278	1278
5	SPECIFIC GRAVITY $\frac{(W2 - W1)}{(W4 - W1) - (W3 - W2)}$	2.919	2.918

AVERAGE = **2.918**

TEST ACCEPTED / REJECTED - (Limits not specified)

REMARKS :

LAB TECHNICIAN

QC INCHARGE





VRS CONCRETE

WAKAD

TEST OF AGGREGATES

SPECIFIC GRAVITY TEST (IS - 2386 / 383)

1 SOURCE : Talegaon KAKADE STONE CRUSHER
2 DATE : 1/1/2019
3 SIZE OF AGGR. : Crushed Sand
4 TEST FREQU 01-10-15 : Once in a month

SL NO.	DETAILS	TRAIL NO.	
		1	2
1	WEIGHT OF PYCNOMETER (GMS) -- W1	485	485
2	WEIGHT OF PYCNOMETER + DRY. AGG.,(GMS) --W2	1364	1349
3	WEIGHT OF PYCNOMETER + AGG.+ WATER , (GMS) -- W3	1845	1835
4	WEIGHT OF PYCNOMETER + WATER , (GMS) -- W4	1278	1278
5	SPECIFIC GRAVITY $\frac{(W2 - W1)}{(W4 - W1) - (W3 - W2)}$	2.817	2.814

AVERAGE = **2.816**

TEST ACCEPTED / REJECTED - (Limits not specified)

REMARKS :

LAB TECHNICIAN

QC INCHARGE





VRS CONCRETE LLP

WAKAD

TEST OF AGGREGATES

WATER ABSORPTION TEST

1 SOURCE : Talegaon KAKADE STONE CRUSHER
2 DATE : 2/1/2019
3 SAMPLE NO. : 00
4 SIZE OF AGGR. : 20mm
5 TEST FREQUENCY : Once in a month

SL NO.	DETAILS	TRAIL NO.	
		1	2
1	WT. OF SSD SAMPLE, (GMS) -- W1	1000	1000
2	WT. OF OVEN DRIED SAMPLE, (GMS) -- W2	984	983
5	WATER ABSORPTION = $\frac{(W1 - W2)}{W2} \times 100$	1.63	1.73
AVERAGE =		1.68	

TEST ACCEPTED / REJECTED - (Limits not specified)

REMARKS :

LAB TECHICIAN

(QC INCHARGE)





VRS CONCRETE LLP

WAKAD

TAST OF AGGREGATES

WATER ABSORPTION TEST

1 SOURCE : Talegaon KAKADE STONE CRUSHER
2 DATE : 2/1/2019
3 SIZE OF AGGR. : 10mm
4 TEST FREQUENCY : Once in a month

SL NO.	DETAILS	TRAIL NO.	
		1	2
1	WT. OF SSD SAMPLE, (GMS) -- W1	1000	1000
2	WT. OF OVEN-DRIED SAMPLE, (GMS) -- W2	981	982
5	WATER ABSORPTION = $\frac{(W1 - W2)}{W2} \times 100$	1.94	1.83
AVERAGE =		1.88	

TEST ACCEPTED / REJECTED - (Limits not specified)

REMARKS :

LAB TECHICIAN

(QC INCHARGE)





**VRS CONCRETE LLP
WAKAD**

TAST OF AGGREGATES

WATER ABSORPTION TEST

1 SOURCE : Talegaon KAKADE STONE CRUSHER
2 DATE : 2/1/2019
3 SIZE OF AGGR. : 10mm
4 TEST FREQUENCY : Once in a month

SL NO.	DETAILS	TRAIL NO.	
		1	2
1	WT. OF SSD SAMPLE, (GMS) -- W1	1000	1000
2	WT. OF OVEN-DRIED SAMPLE, (GMS) -- W2	981	982
5	WATER ABSORPTION = $\frac{(W1 - W2)}{W2} \times 100$	1.94	1.83
AVERAGE =		1.88	

TEST ACCEPTED / REJECTED - (Limits not specified)

REMARKS :

LAB TECHICIAN

(QC INCHARGE)





VRS CONCRETE LLP

WAKAD

TEST OF AGGREGATES

WATER ABSORPTION TEST

1 SOURCE : Talegaon KAKADE STONE CRUSHER
2 DATE : 2/1/2019
4 SIZE OF AGGR. : Crushed Sand
5 TEST FREQUENCY : Once in a month

SL NO.	DETAILS	TRAIL NO.	
		1	2
1	WT. OF SSD SAMPLE, (GMS) -- W1	1000	1000
2	WT. OF OVEN-DRIED SAMPLE, (GMS) -- W2	965	966
5	WATER ABSORPTION = $\frac{(W1 - W2)}{W2} \times 100$	3.63	3.52
AVERAGE =		3.57	

TEST ACCEPTED / REJECTED UNDER CLAUSE _____

REMARKS :

LAB TECHNICIAN _____

(QC INCHARGE)





VRS CONCRETE LLP
WAKAD
TEST FOR AGGREGATES

FLAKINESS INDEX TEST (IS . 2386)

1 SOURCE : Talegaon KAKADE STONE CRUSHER
2 DATE OF TESTING : 2/1/2019
3 TOTAL WT. OF SAMPLE : 5652Gms
4 SIZE OF AGGREGATE : 20mm
5 FREQUENCY OF TEST : Once in a month

SL NO.	SIZE OF AGGREGAT		NO. OF PARTICLES			X I PERCENT	WEIGHT OF PARTICLES	Y I PERCENT	(X I x Y I)/100
	PASS THROUGH SIEVE (MM)	RETAINED ON SIEVE (MM)	PASS THROUGH (MM)	RETAINED ON GAUGE	TOTAL				
1	63	50							
2	50	40							
3	40	31.5							
4	31.5	25							
5	25	20	28	172	200	14.00	2290	40.52	5.67
6	20	16	26	174	200	13.00	1840	32.55	4.23
7	16	12.5	25	175	200	12.50	864	15.29	1.91
8	12.5	10	17	183	200	8.50	519	9.18	0.78
9	10	6.3	8	192	200	4.00	139	2.46	0.10

TOTAL (%) = **12.69**

FLAKINESS INDEX = $\frac{X I \times Y I}{100} = 12.69 \%$

TEST ACCEPTED / REJECTED

REMARKS :

LAB TECHNICIAN

(QC INCHARGE)





VRS CONCRETE LLP
WAKAD
TEST FOR AGGREGATES

ELONGATION INDEX

1 SOURCE : Talegaon KAKADE STONE CRUSHER
2 DATE OF TESTING : 2/1/2019
4 TOTAL WT. OF SAMPLE : 5652Gms
5 SIZE OF AGGREGATE : 20mm
6 FREQUENCY OF TEST : Once in a month

SL NO.	SIZE OF AGGREGATE		WEIGHT OF PARTICLES (GMS)	
	PASS THROUGH SIEVE (MM)	RETAINED ON SIEVE (MM)	PASS THROUGH	RETAINED ON XI
1	63	50		
2	50	40		
3	40	31.5		
4	31.5	25		
5	25	20	2134	156
6	20	16	1688	152
7	16	12.5	679	185
8	12.5	10	414	105
9	10	6.3	115	24
TOTAL SAMPLE			Y1 = 5030	622

5030

ELONGATION INDEX : $\frac{XI}{YI} = 12.37\%$

TEST ACCEPTED / REJECTED

REMARKS :

LAB TECHNICIAN

(QC INCHARGE) |





VRS CONCRETE LLP
WAKAD
TEST FOR AGGREGATES

FLAKINESS INDEX TEST (IS . 2386)

1 SOURCE : Talegaon KAKADE STONE CRUSHER
2 DATE OF TESTING : 2/1/2019
4 TOTAL WT. OF SAMPLE : 618Gms
5 SIZE OF AGGREGATE : 10mm
6 FREQUENCY OF TEST : Once in a month

SL NO.	SIZE OF AGGREGAT		PASS THROUGH (MM)	RETAINED ON GAUGE	TOTAL	X I PERCENT	WEIGHT OF PARTICLES	Y I PERCENT	(X I x Y I)/100
	PASS THROUGH SIEVE (MM)	RETAINED ON SIEVE (MM)							
1	63	50							
2	50	40							
3	40	31.5							
4	31.5	25							
5	25	20							
6	20	16							
7	16	12.5							
8	12.5	10	20	180	200	10.0	318	51.46	5.15
9	10	6.3	19	181	200	9.5	300	48.54	4.61

TOTAL (%)= 9.76

FLAKINESS INDEX = $\frac{X I \times Y I}{100}$ = 09.76 %

TEST ACCEPTED / REJECTED

REMARKS :

LAB TECHNICIAN

(QC INCHARGE)





VRS CONCRETE LLP
WAKAD
TEST FOR AGGREGATES

ELONGATION INDEX

1 SOURCE
2 DATE OF TESTING
4 TOTAL WT. OF SAMPLE
5 SIZE OF AGGREGATE
6 FREQUENCY OF TEST

: Talegaon KAKADE STONE CRUSHER
: 2/1/2019
: 618Gms
: 10mm
: Once in a month

SL NO.	SIZE OF AGGREGATE		WEIGHT OF PARTICLES (GMS)	
	PASS THROUGH SIEVE (MM)	RETAINED ON SIEVE (MM)	PASS THROUGH	RETAINED ON XI
1	63	50		
2	50	40		
3	40	31.5		
4	31.5	25		
5	25	20		
6	20	16		
7	16	12.5		
8	12.5	10	286	32
9	10	6.3	280	20
TOTAL SAMPLE			Y1 = 566	52

ELONGATION INDEX :

$$\frac{XI}{YI} = 9.19\%$$

TEST ACCEPTED / REJECTED

REMARKS :

LAB TECHICIAN

(QC INCHARGE)





VRS CONCRETE LLP
WAKAD
TEST FOR AGGREGATES

BULK DENSITY (IS. 2386 / 383)
(D. L. B. D)

1 SOURCE : Talegaon KAKADE STONE CRUSHER
2 DATE : 3/1/2019
3 SAMPLE NO. : 00
4 SIZE OF AGGR. : 20mm
5 TEST FREQUENCY : Once in a month

SL NO.	DETAILS	TRAIL NO.	
		1	2
1	WOLUME OF CONTAINER (LIT.), V	15	15
2	WEIGHT OF EMPTY CONTAINER, (GMS) -- W1	8404	8404
3	WEIGHT OF EMPTY CONTAINER + AGGREGATE, (GMS)-- W2	31822	31710
4	WEIGHT OF AGGREGATE (GMS), W3 = (W2 - W1)	23418	23306
5	DENSITY = $\frac{W3}{V}$	1.561	1.554
AVERAGE =		1.557	

TEST ACCEPTED / REJECTED - (Limits not specified)

REMARKS :

LAB TECHICIAN

(QC INCHARGE)





VRS CONCRETE LLP
WAKAD
TEST FOR AGGREGATES

BULK DENSITY (IS. 2386 / 383)
(D. L. B. D)

1 SOURCE : Talegaon KAKADE STONE CRUSHER
2 DATE : 3/1/2019
4 SIZE OF AGGR. : 10mm
5 TEST FREQUENCY : Once in a month

SL NO.	DETAILS	TRAIL NO.	
		1	2
1	VOLUME OF CONTAINER (LIT.), V	15	15
2	WEIGHT OF EMPTY CONTAINER, (GMS) -- W1	8404	8404
3	WEIGHT OF EMPTY CONTAINER + AGGREGATE, (GMS)-- W2	32110	32139
4	WEIGHT OF AGGREGATE (GMS), W3 = (W2 - W1)	23706	23735
5	DENSITY = $\frac{W3}{V}$	1.580	1.582
AVERAGE =		1.581	

TEST ACCEPTED / REJECTED - (Limits not specified)

REMARKS :

LAB TECHICIAN

(QC INCHARGE)





VRS CONCRETE LLP
WAKAD
TEST FOR AGGREGATES

BULK DENSITY (IS. 2386 / 383)
(D. L. B. D)

1 SOURCE : Talegaon KAKADE STONE CRUSHER
2 DATE : 3/1/2019
4 SIZE OF AGGR. : Crushed Sand
5 TEST FREQUENCY : Once in a month

SL NO.	DETAILS	TRAIL NO.	
		1	2
1	WOLUME OF CONTAINER (LIT.), V	15	15
2	WEIGHT OF EMPTY CONTAINER, (GMS) -- W1	8695	8695
3	WEIGHT OF EMPTY CONTAINER + AGGREGATE, (GMS)-- W2	34761	34751
4	WEIGHT OF AGGREGATE (GMS), W3 = (W2 - W1)	26066	26056
5	DENSITY = $\frac{W3}{V}$	1.738	1.737
AVERAGE =		1.737	

TEST ACCEPTED / REJECTED - (Limits not specified)

REMARKS :

LAB TECHICIAN

(QC INCHARGE)



$$\text{Cost Saving} = 6.32 - 3.65$$

$$= \text{Rs.}2.60 \text{ 7.3.}$$

Total cost of conventional brick masonry = cost of bricks + cost of cement + cost of sand + labour cost

Cost of Bricks:

No. of bricks used = 300

$$\text{Cost for 300 bricks} = 300 \times 6.32$$

$$= \text{Rs.}1896$$

Cost of cement:

Cement required = 20Kg

$$\text{Cost for 1 bag (50 Kg) cement} = \text{Rs.}400$$

$$\text{Cost for 20 Kg cement} = (400 \times 20)/50$$

$$= \text{Rs.}160$$

Cost of Sand:

Sand required = 100 Kg

$$\text{Cost for 100 cub ft sand} = \text{Rs.}4000$$

$$1 \text{ cub ft.} = 68.15 \text{ Kg}$$

$$\text{Cost for 100Kg sand} = (4000 \times 100)/6815$$

$$= \text{Rs.}58.70$$

Labour Cost:

Labour cost for mason for brick Work-I Class/day = Rs.451

Labour cost for mazdoor category II per day = Rs.255

Total Labour cost = Rs.706

$$\text{Total Cost} = 1896 + 160 + 58.7 + 706$$

$$= \text{Rs.}2820 \text{ 7.4.}$$

Total cost for BB masonry

Total cost = cost of BB + cost of cement + cost of sand + labour cost





2018-19/BE/AET/site visit/30-08-18/By Asst Prof Sonam Agrawal
"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

S. No. 25/1/3, Balewadi, Pune - 411 045

(Approved by AICTE and Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University)

DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph: 020-27390500 Website: www.gsmozecoe.org Email: gsmoze@yahoo.co.in

Founder President: Shri Rambhau Moze

Ref. No. GSM/COE/2018/AVG/592

Date 29/08/18

To

S.J. RMC Plant

Baner, Pune

Subject: Request to grant permission for RMC plant site visit


Dear Sir/Mam,

The Genba Sopanrao Moze trust is an educational trust, a pioneer in offering technical Degree approved by AICTE Delhi, Government of Maharashtra, DTE and affiliated to Savitribai Phule Pune University.

We the department of civil Engineering of GSMCOE, Balewadi Pune want to arrange site visit at your RMC plant for our final year students

Kindly grant us permission for the site visit along with 125 students and 5 faculties.

Thank you


Subject Faculty


Asst.Prof. Sonam Agrawal


HOD

Prof. K. Pramod
Head of the Department,
CIVIL ENGINEERING

Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411 045.




Principal

Dr. Auti

PRINCIPAL

Genba Sopanrao Moze College of Engg
25/1/3, Balewadi, Pune-411 045

Received
M. K. Kulkarni
Banarade

"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"

GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

S. No. 25/1/3, Balewadi, 411 045.

(Approved by AICTE and Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University)

DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph. : 020-27390500 Website : www.gsmozecoe.org Email : gsmoze@yahoo.co.in

Founder President : Shri. Rambhau Moze



Ref. No. : GSMCOE/ADMIN/18-19/104

Date : 29/8/2018

To,

S.J .RMC Plant ,
Baner,Pune

Subject: Regarding permission visit to RMC Plant Visit.

Respected Sir,

We introduce ourselves as G. S. Moze College of engineering Balewadi is affiliated to University of Pune and approved by AICTE New Delhi. The college runs five UG program including Civil Engineering.

There would be a total of 125 students accompanied by 05 faculty members are interested to Visit your S.J .RMC Plant Pune a as a part of BE SPPU Syllabus in Advance Concrete Technology Subject. The visit is aimed at enhancing their Practical knowledge. We intend to take a round of the entire Construction. I assure you that no nuisance will be created and the visit will be carried out with proper discipline. I hope you will give us permission to visit the same.

We are expecting visit on date (30/08/18)

Looking forward for your positive consent in this regard.

Thanking you.

Prof.Sonam Agrawal

(Faculty coordinator)

Prof.K.Pramod

HoD

Head of the Department
CIVIL ENGINEERING

Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045

Dr.A.B.Auti

Principal
PRINCIPAL

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045

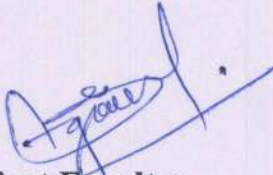


NOTICE

All the students of B.E. are hereby informed that , your ACT site visit of RMC Plant has been arranged on 30/08/18. So you all have to present at 10 am sharp in college premises.

NOTE:

- **STUDENTS MUST BE PRESENT IN COLLEGE UNIFORM**
- **STUDENTS SHOULD CARRY WATER BOTTLE,CAP, SHOES etc**
- **ATTENDANCE IS COMPULSORY**



Subject Faculty:
Prof. Sonam Agrawal



H.O.D.
Prof. K. Pramod
Head of the Department,
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411 045.



Create competent Socially Responsible Civil Engineers
Genba Sopanrao Moze Trust's
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING
Balewadi, Pune - 411045.



Civil Engineering Department
Academic Year 2018-2019

BE Students Roll Call

Class - BE


DIV A

Site visit attendance

Roll No	Names of students	Sign
A-01	ARUN SINGH	
A-02	AUDGE ASHWINI ATMARAM	Audge
A-03	BANSODE RANJANA RAMESH	-
A-04	BHANDARE KISHOR	-
A-05	BHORE VAISHNAVI VIVEKANAND	Bhore
A-06	BHOSALE DIGVIJAY DATTATRAY	Bhosale
A-07	BHOSALE SHREYASH SUDHIR	-
A-08	BIRADAR POOJA SHRIRAM	-
A-09	BOTRE RAHUL VITHOBA	-
A-10	CHAUHAN KANHAYA LAXMINARAYAN	Chauhan
A-11	CHAUHAN KRISHNAMOHAN R	-
A-12	CHOUDHARI GAURI BHAGAWAT	Chaudhari
A-13	CHOUGULE ANIKET SUNIL	-
A-14	DABHOLKAR SOHAM RAJENDRA	-
A-15	DESHMUKH RAJWARDHAN	-
A-16	DEVKAR SHUBHAM RAJABHAU	Devkar
A-17	DIDWAGH DHANAJI HANMANT	-
A-18	FARANDE MAYUR NAMDEO	-
A-19	GANDHI GAURAV HARSHAD	Hande
A-20	GARJE VIVEK	-
A-21	GHOLANE MAHESH	Gholane
A-22	GOPALE NIKHIL MANISH	Gopale
A-23	GORE MARUTI DAGADU	Gore
A-24	HINDRE SWAPNIL	Hindre
A-25	HULAWALE PRATIK SHIVAJI	Hulawale
A-26	JADHAV AKASH VENKATESH	-
A-27	JADHAV PRAVIN VILAS	-
A-28	JADHAV ROHAN	Jadhav
A-29	JAGDALE SUHAS SHIVAJI	Jagdale
A-30	JAGIRDAR A. MOHID A. NAJIB	Jagirdar
A-31	JAMDADE DNYANESH SHIVAJI	Jamdade
A-32	KABUTARE PRASHANT KISAN	Kabutare
A-33	KADAM VISHAL DATTATRAY	Kadam
A-34	KAKADE ARJUN RAGHUNATH	Kakade
A-35	KAMBLE PANKAJ RAJESH	Kamble
A-36	KANAME ABHIJEET BALAJI	Kaname
A-37	KAPSE SAGAR ANKUSH	Kapse



A-38	KETAN HAWALDAR	Ketan
A-39	KHAIRE AKSHAY BHANUDAS	-
A-40	KHATATE VINIT DINESH	Vinit
A-41	KONJARE CHANDRAKANT P	-
A-42	KULKARNI RUSHIKESH	-
A-43	KUMAR PANKAJ KUMAR PAL S	-
A-44	LOKHANDE AMOL VITTHAL	-
A-45	LOMATE PRITAM	-
A-46	MAHALE NEIL	Neil
A-47	MOHITE ROHIT DNYANESHWAR	Rohit
A-48	MURTADAK SHUBHAM	Shubham
A-49	NADAF FARUKH	Farukh
A-50	NAGE AKSHAY	Akshay
A-51	NAIKWADI ROHAN SHIVAJI	Rohan
A-52	NAKHATE NIKHIL	-
A-53	NANAVARE SANKET	-
A-54	NEAVASE PRUTHIVIRAJ	Pruthi
A-55	PAKHLE ROHAN SHRIKANT	Rohan
A-56	PALKAR DAYANAD TUKARAM	Reedy
A-57	PANCHAL PRAMILA	Panku


Prof. Sonam Agrawal
Faculty Coordinator


Prof. K. Pramod
H.O.D

Head of the Department
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045



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Balewadi, Pune - 411045.



Civil Engineering Department
Academic Year 2018-2019

BE Students Roll Call

Class - BE

DIV B

Site Visit Attendance

Roll No	Names of students	Sign
B-01	PANZADE ANIKET	
B-02	PATIL PRASAD NITIN	dniket
B-03	PATKAR SUMANT	Wine
B-04	PAWAR KAUSTUBH	sumant
B-05	RAGHUVANSHI SHUBHAM NANDKISHORE	
B-06	RAJPUT MANTHAN D	rajput
B-07	RAKSHE SURAJ VASANT	suraj
B-08	RATHOD PRAGATI PARASRAM	pragati
B-09	RAUT AJAY PANDURANG	ajay
B-10	RAUT AJINKYA DHANRAJ	dhankaj
B-11	RAUT GAURAV GULAB	gulab
B-12	ROSHNI DEVCHANDRA NINGTHOUJAM	roshni
B-13	SAGAR PRATHAM DILIP	sagar
B-14	SAID KAJAL	said
B-15	SAMAGE VIJAY RAJU	raju
B-16	SANAP AVINASH GANPAT	ganpat
B-17	SANE AMIT VIJAY	vijay
B-18	SANGLE BABURAO	baburao
B-19	SAPARIYA BAVESH	bash
B-20	SASTE SAGAR RAJARAM	sagar
B-21	SHAIKH MUBARAK SIRAJ	sheikh
B-22	SHARDUL MAHAJAN	
B-23	SHELKE VAIBHAV	
B-24	SHINDE JYOTI SURESH	
B-25	SHINDE MAHESH VILAS	
B-26	SHINDE NIKHIL LAXMAN	
B-27	SHINDE ROHIT MADHAVRAO	laxman
B-28	SHINDE SHREYASH VINOD	
B-29	SHINDE SURAJ TANAJI	vinod
B-30	SHUBHAM SUDHIR NAGARKAR	Tanaji
B-31	SWAMI VAISHNAVI	
B-32	TANDALE KISHOR HARIBHAU	Vaishavi
B-33	VATTE BHUSHAN NAGESH	
B-34	WAGHMODE PRUTHVIRAJ	
B-35	WALKE MANDAR SANJEEV	
B-36	WANKHEDE ANKIT SANJAY	wankhe
B-37	WANVE PRITI NARAYAN	priti

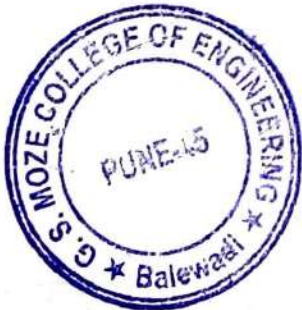


B-38	WARADE TUSHAR GAJANAN	<i>Warade</i>
B-39	WARUDKAR SANCHIT ANILKUMAR	<i>Warudkar</i>
B-40	ZINJADE KIRAN SURESH	<i>Zinjade</i>
P-01	MUNDE NILESH SHIVAJIRAO	<i>Munde</i>
P-02	NITIN DATTARAY AMBHORE	<i>Nitin</i>
P-03	RAJIKA GURAV	<i>Rajika</i>
P-04	CHOUGULE SOMESH SHIVAJI	<i>Chougule</i>
P-05	HIPPARGI SHADAAB NAUSHADALI	<i>Hippargi</i>
P-06	RANGNATH RAMESH NARWADE	<i>Rangnath</i>
P-07	TUPE ANANT	<i>Tupe</i>
P-08	SAURABH GAVALI	<i>Saurabh</i>
P-09	SHINDE APURVA	<i>Shinde</i>
P-10	TARATE KRISHNA	<i>Tarate</i>
P-11	RAJPUT KIRAN NANA	<i>Rajput</i>
P-12	DEVANSH AJAYKUMAR DESHMUKH	<i>Devansh</i>
P-13	SACHIN SHETE	<i>Sachin</i>
P-14	SHARDUL THIGALE	-
P-15	YELMAME VAIBHAV	-
P-16	WAGH CHIRAG GULABRAO	<i>Wagh</i>
P-17	KULDEEP KATALE	<i>Kuldeep</i>
P-18	KATKEMOD POOJA SHIVDAS	<i>Katkemod</i>
P-19	KOKANE AISHWARYA AMOL	<i>Kokane</i>
P-20	SHAIKH MAAZ	-
P-21	RAUT AVINASH G.	<i>Raut</i>

Sonam
Prof. Sonam Agrawal
Faculty Coordinator

K.S.
Prof. K. Pramod
H.O.D

Head of the Department
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045





“EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE”
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

S. No. 25/1/3, Balewadi, Pune – 411 045

(Approved by AICTE and Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University)

DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph: 020-27390500 Website: www.gsmozecoe.org Email: gsmoze@yahoo.co.in

Founder President: Shri Rambhau Moze

Ref. No. CIVIL/2018/AUG/40

Date: 30/08/18

Letter of Thanks

To,

SJ RMC Plant

Baner Pune

Dear Sir,

We at the Genba Sopanrao Moze College of Engineering, Balewadi, would like to thank to you for the valuable contribution you made during the site visit.

We appreciate the time you took out of your busy schedule to join us and thank you for sharing your insights and expertise with our attendees. Your willingness to volunteer your time, energy and support is greatly appreciated.

Thanks and Regards

Prof. K. Pramod

HoD, Civil Engineering Department,

GSMCOE, Balewadi

**Head of the Department,
CIVIL ENGINEERING**

Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411 045.

Received
Plant Incharge
Mohit
30/08/18



ADVANCE CONCRETE ENGG.

SITE

VISIT

REPORT

ON

RMC PLANT

DATE:-~~20~~/08/18

30/08/18



❖ **Name:- SJ Construction Nande plant**

❖ **ADD:- Nande-gaon near ACC Cement plant behind
balewadi stadium mahalunge, pune 411-045**

❖ **Capacity of plant:- 1 m³.**

❖ **Total no of silos:- 3nos**

❖ **Capacity of each silos: - 1 silo – 120 tons (cement)
2 silo – 100 tons (GGBS)**

❖ **Type of cement used :- OPC 53 grade and above.**

❖ **Type of admixture used:- GGBS.**

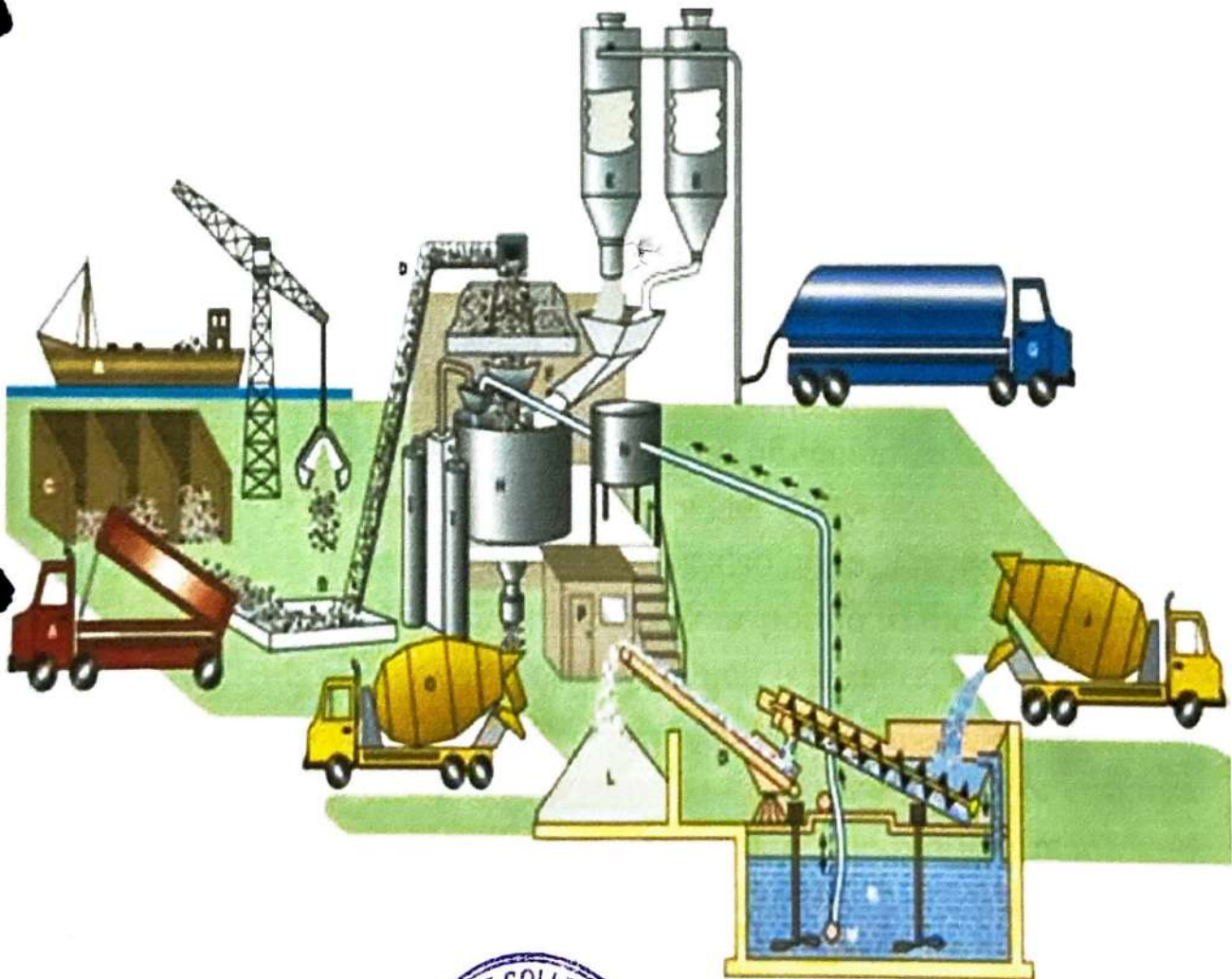
❖ **Faculty: - 1. Prof. Sonam Agrawal.
2. Prof. Priyanka Gharsole.
3. Prof. Vishal Panchal.**

* Total No. of students attended = 48



Content

Acknowledgement
General Information
Purpose of Visit
What we learnt
Conclusion



Purpose of Visit

Technical exposure of Concrete Technology, Manufacturing Processes and other Engineering aspects of Concrete Technology Subject. Students have learnt Process of making concrete, Material used in making of concrete, Test conducted over Concrete Blocks, Curing process for Concrete Blocks etc. With this kind of industrial visit, we gained more knowledge on Concrete Technology application aside from the theoretical aspect learned from the classrooms and laboratory.

What We Learnt

First a technical Explanation by Mr. Mohit sir, Plant Supervisor. First, he explained us regarding the Concrete Mix Plant Capacity, Testing Unit of Concrete, Compressive Strength of Concrete, and Curing Tank for Curing of Concrete, Transit Mixer, Material used in Concrete, Design parameters, etc. He also shared some Knowledge about their Experience regarding to Concrete Mix.

They also prepared the dry mix mixing of cement, sand and aggregate. After that by adding the water the concrete is prepared. The green concrete test like slump is also done. The concrete is filling in the transporting truck and transported to the construction site. Students show the laboratory which is situated at the plant. Laboratory assistance show us the test conducting on materials as well as on concrete. They perform the compression test of concrete also. Student also show the software use for the running plant, and also give the report of bath mixing of concrete for that day, Which is enclosed in the report.





“Empowerment Through Technological Excellence”
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

(Recognized by AICTE, New Delhi; Approved by Govt. of Maharashtra; Affiliated to Pune University)
25/1/3, Balewadi, Pune – 411045. Ph: 020-27390500

Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in

Department Of Civil Engineering

Date-16/09/2019

SITE VISIT NOTICE

All the students of B.E. are hereby informed that site visit to Railway Track has been arranged on **17/09/2019**. All Students must be present at 10 am sharp in college premises.

NOTE:

- **STUDENTS MUST BE PRESENT IN COLLEGE UNIFORM**
- **STUDENTS SHOULD CARRY WATER BOTTLE,CAP, SHOES etc**
- **ATTENDANCE IS COMPULSORY**

Prof. S.R.Mahajan

(Faculty coordinator)

Prof.Sahu Pali

HOD

**Head of the Department
CIVIL ENGINEERING**

**Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045**





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S. No. 25/1/3, Balewadi, 411 045.

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DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph. : 020-27390500 Website : www.gsmozecoe.org Email : gsmoze@yahoo.co.in

Founder President : Shri. Rambhau Moze

Ref. No. :

Date :

To,

Railway,(Executive Engineer),
Dept.of Railway,
Pune.

Subject:- Permission to Railway track visit

Respected Sir,

We introduce ourselves as G. S. Moze College of engineering Balewadi is affiliated to University of Pune and approved by AICTE New Delhi. The college runs five UG program including Civil Engineering.

There would be a total of 80 students accompanied by 02 faculty members are interested to Visit your Railway track visit as a part of TE SPPU Syllabus. The visit is aimed at enhancing their Practical knowledge.I assure you that no nuisance will be created and the visit will be carried out with proper discipline. I hope you will give us permission to visit the same.

We are expecting visit on date (13/05/22)

Looking forward for your positive consent in this regard.

Thanking you.

Prof.Shilpa Mahajan
(Faculty coordinator)

Prof.Pali Sahu
HOD

Head of the Department
CIVIL ENGINEERING

Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045

Dr. A.B.Auti
Principal

PRINCIPAL

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045





"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"
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DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999
Ph. : 020-27390500 Website : www.gsmozecoe.org Email : gsmoze@yahoo.co.in
Founder President : Shri. Rambhau Moze

Ref. No. : GSMYCOE/2019/Sept./246

Date : 5/9/19

To,
Railway, (Executive Engineer)
Dept. of Railway
Pune.


Subject: Regarding permission for Railway Track Visit

Respected Sir,


We introduce ourselves as G. S. Moze College of engineering Pune. We offer courses at the under graduate level in various areas of engineering. As a part of education tour to a fully functioning of Railway Track , our students are very eager to visit various process areas. There would be a total of 80 students accompanied by 02 faculty members from our college. The visit is aimed at enhancing their knowledge. We intend to take a round of the entire area and show the tasks handled in different departments to our students.

I assure you that no nuisance will be created and the visit will be carried out with proper discipline. I hope you will give us an opportunity to visit Railway Track and meet your skilled staff. Please reply us with possible date on which we can visit your premises. I anticipate a positive response from your end.

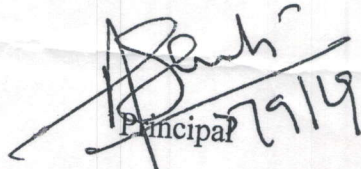
Thanking you.


Subject Teacher

(Asst.Prof.S.R.Mahajan)


HoD
Pali Salu
(Civil Dept.,

Head of the Department,
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411 045.


Principal
(Dr.A.B.Auti)



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Genba Sopanrao Moze Trust's
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING



Balewadi, Pune - 411045.

Civil Engineering Department

Academic Year 2018-2019

Site visit attendance

TEB

Date-17/9/2019

Roll No	Name of Student	Sign
1	ATTARDE BHUSHAN ANIL	<i>[Signature]</i>
2	AVHAD SHUBHAM BHASKAR	<i>[Signature]</i>
3	BAJABALE SAGAR DINKAR	<i>[Signature]</i>
4	BANDE BASWESHWAR SANJAY	<i>[Signature]</i>
5	BANKAR PRIYA SUBHASH	<i>[Signature]</i>
6	BELVALKAR SURBHI SUNIL	<i>[Signature]</i>
7	BHUNDE GANESH PANDHARINATH	<i>[Signature]</i>
8	BIRADAR GEETASHRI BALAJI	<i>[Signature]</i>
9	BIRAJDAR AKASH BHIMRAO	<i>[Signature]</i>
10	BOBADE AKSHAY ANANT	
11	CHATE SACHIN RAMCHANDRA	
12	CHAVAN SHUBHAM PRADIP	<i>[Signature]</i>
13	CHENDKE AMAR SHIVAJI	<i>[Signature]</i>
14	CHIPPA NITESH VYANKATESH	
15	CHONDHE SHUBHAM NAMDEV	
16	DAGADE SHUBHAM PANDURANG	
17	DANGADE SHUBHAM DHANRAJ	
18	DARSHALE SURAJ ASHOK	
19	DESHMUKHE ADITYA VIVEKANAND	<i>[Signature]</i>
20	DESHPANDE DURGESH GANESH	<i>[Signature]</i>
21	DEVDADE ADINATH BALASAHEB	<i>[Signature]</i>
22	DHAINJE SOURABH RAVINDRA	<i>[Signature]</i>
23	DHANGAR AKSHAY KASHIRAM	<i>[Signature]</i>
24	DHONDDEV PRATIK RAJU	<i>[Signature]</i>
25	DIXIT SHUBHAM SHIRISH	<i>[Signature]</i>
26	DONGALE SANGRAM TANAJI	
27	DUTARE SACHIN SANTOSH	<i>[Signature]</i>
28	EDAKE BHUSAN VILAS	<i>[Signature]</i>
29	GAIKWAD PRASHANT PANDHARINATH	<i>[Signature]</i>
30	GAJARE SIDDHARTH ANIL	<i>[Signature]</i>
31	GAWADE DHANANJAY SUBHASH	<i>[Signature]</i>
32	GAWALI ROSHANI BHANUDAS	<i>[Signature]</i>
33	GHADGE SAURABH SUMITRA	<i>[Signature]</i>
34	GORE SHRIKANT SHIWANNA	<i>[Signature]</i>
35	HIRAVE VISHAL SHIVAJI	<i>[Signature]</i>
36	HIREY POOJA PADMAKAR	<i>[Signature]</i>
37	HULPALLE CHAITANYA RAJKUMAR	<i>[Signature]</i>
38	JUNGHARE JAYASHREE GAJANAN	<i>[Signature]</i>
39	KADAM OMKAR SHANTARAM	<i>[Signature]</i>
40	KALBHOR RUSHIKESH SATISH	<i>[Signature]</i>
41	KALOKHE KALYANI NANSASHEB	<i>[Signature]</i>
42	KAMBLE NARESH BHAGWAN	<i>[Signature]</i>
43	KAMBLE SHRADDHA RAMESH	<i>[Signature]</i>
44	KANAWADE PRADNYA SUBHASH	<i>[Signature]</i>
45	KASHID VEERA UPKAR	<i>[Signature]</i>

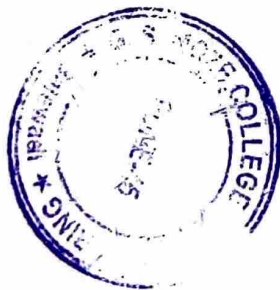


Roll No	Name of Student	Sign
46	KATE ROHAN RAJU	
47	KHARAMBALE SURAJ RACHANA	
48	KHEDKAR YOGESH SOMNATH	
49	KOKARE SURAJ POPAT	
50	LABDE RISHIKESH HANUMAN	
51	LAMBHADE AJAY DILIP	
52	MAGARE RAMABAI NAMDEV	
53	MASKE SHUBHAM MANOJ	
54	MOHITE VISHAL RAMESH	
55	MORE VIKAS CHANDRAKANT	
56	MORE RAVINDRA GORAKH	
57	MULE SHRIDHAR DATTA	
58	NAGANE TANMAY PRADIP	
59	NARHARE RUSHIKESH DHARAMPAL	
60	NATAMBE AKSHAY ANKUSH	
61	NIKAM ROMA YASHWANT	
62	NILEWAR SURESH RAJARAM	
63	PADAWAL NILESH SHAN	
64	PAWAR YOGESHVAREE LAXMAN	
65	THETE PRAJWAL VILAS	
66	SURAJ SHRIKISHAN BADADE	
67	SIRSAT GANESH	
68	TUSHAR TARADE	
69	YADAV SWAPNIL	
70	BUDALE AMOL	
71	KETAN CHOUDHARI	
72	KULKARNI CHAITANYA	
73	ABHANG AKASH SURESH	
74	BHAVSAR SHUBHAM	
75	DESHMUKH AISHWARYA	
76	HARIDAS AKSHAY JAYANT	
77	SHELKE PRASAD (F.E. 2012)	
78	MORE SANJAY	
79	YOGESH NAIK	
80	KOKATE PRASAD	

Prof.S.R.Mahajan
Course Incharge

Prof.Rahul Hodage
H.O.D

Head of the Department
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Balewadi, Pune - 411045.
Civil Engineering Department
Academic Year 2018-2019



Site visit attendance

T.E.A

Date-17/9/2019

Roll No	Name of Student	Sign
1	PAGARE ARJUN DINESH	
2	PANDEY ASHUTOSH VINODKUMAR	
3	PARMAR VIREN RAMESH	
4	PATEL HARSH HASMUKH	
5	PATIL RAJASHRI GULABRAO	
6	PATIL MAMTA VISHWAS	
7	PATOLE SANKET BALU	
8	PAWAR KARTIK CHANDRASHEKHAR	
9	PAWAR ADITYA DASHRATH	
10	PAWNE ANAS MAQSOOD	
11	POL RACHNA RAVI	
12	POUL VIJAY RUPCHANDE	
13	RAJPUT SANGRAMSINGH RAJENDRASINGH	
14	RAKSHE SAURABH SUBHASH	
15	RANDHE SHRADDHA VIKAS	
16	RANE PRATIK PRABHAKAR	
17	RATHOD AMOL RAJARAM	
18	RATHOD VIKRAM BHIMRAO	
19	SANGOLKAR KIRAN PANDHARINATH	
20	SAPATE HANUMANT SHIVAJI	
21	SARAF SWARALI ANANT	
22	SASANE HRUSHIKESH BALASAHEB	
23	SATHE VAIBHAV BHARAT	
24	SHENDRE SUMIT VINODRAO	
25	SHINDE AMIT BALASAHAEB	
26	SHINDE CHETAN KASHINATH	
27	SHINDE SMITA KRISHNADEV	
28	SHINDE RAMESHWAR RAJENDRA	
29	SHIRSATH PRATIK PRAHLAD	
30	SOLAPURE SAGAR SURYAKANT	
31	SONAWANE VISHAL BALASAHEB	
32	SONDE SAHIM ABDUL KARIM	
33	SONGIRE DARSHAN SURESH	
34	SONKAMBLE AJAY GANESH	
35	SURVASE SIDDHARTH MACHHINDRA	
36	TAKAWANE SHUBHAM SUNIL	
37	TANDALE AKSHAY MANOHAR	
38	TAPKEER JAYDATTA KISHORE	
39	THIKEKAR PURVA DHARMANATH	
40	THORAT SWAPNIL KAILASH	
41	UGALE MONIKA ASHOK	
42	UPADE PRANALI BALASAHEB	
43	VALECHHA MOHIT RAJESH	
44	VYAS ANAGHA AJAY	
45	WAGHMARE ASHOK VISHNU	
46	YEDAVE AVINASH SUKHADEV	
47	CHAVAN ADITYA	
48	BADE APURVA UTTAM	
49	GAIKWAD TEJAS VINOD	
50	GITTE MAHESH BAJIRAO	



Roll No	Name of Student	Sign
51	GURAV ANIKET ANIL	
52	JADHAV LAXMAN SIDRAMAPPA	
53	LOKHANDE SHIVANI BHAUSAHEB	
54	RAWADE LALESH RAOSAHEB	
55	SHAIKH AFTAB ANWAR	
56	SISODE VAIBHAV DILIPSING	
57	TONAGE NIKITA NAVANATH	
58	ZINJADE RAVINDRA SHIVAJI	
59	ALKUNTE KRISHNA ARJUN	
60	BACHHAV ROHAN RAVINDRA	
61	SONAWANE BHUSHAN LAXMAN	
62	AMOL K CHAVAN	
63	PAWAR SWAPNIL VIKAS	
64	KAUSTHUBH TATYASAHEB WALKE	
65	DHEERAJ VISHWAS SURYAVAMSHI	
66	ATUL JAWALE	
67	MAYUR NAKHATE	
68	SWARALI PAWAR	
69	EKHANDE MAHESH POPAT	
70	SHINDE VIVEK	
71	BIRAJDAR GURUSHANT SHANKAR	
72	MOHIT JAYBHAYE	
73	YANAMAWAR PRATIK	
74	CHONDHE AJINKYA MANOHAR	
75	DESHMUKH HITESH	
76	ANIKET LAKHPATI	
77	KORE SHEKHAR	
78	PAWAR AKSHAY BHAU	
79	PARIT AMOL	
80	JAIPHALKAR AKSHAY	
81	AKSHAY ASHOK KALE	

Prof.S.R.Mahajan
Course Incharge

Prof.Rahul Hodage
H.O.D
Head of the Department
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045





“EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE”
**GENBA SOPANRAO MOZE COLLEGE OF
ENGINEERING**

S. No. 25/1/3, Balewadi, Pune – 411 045
(Approved by AICTE and Govt. of Maharashtra, Affiliated to Savitribai Phule Pune
University)

DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999
Ph: 020-27390500 Website: www.gsmozece.org Email: gsmoze@yahoo.co.in
Founder President: Shri Rambhau Moze

Date:17/09/2019

To,
Railway ,Executive Engineer
Dept.of Railway
Pune

Thanking Letter

Respected Sir,

The Genba Sopanrao Moze trust is an educational trust, a pioneer in imparting quality professional's education in field of Engineering. It has established two campuses in Pune at Wagholi & Balewadi.

We Department of Civil Engineering of Genba Sopanrao Moze College of Engineering, Balewadi, Pune, would sincerely thank you for giving us permission to visit your Railway Track visit We really appreciate the time spent with our students and information shared by you. We hope our students received precious knowledge which will definitely help them in their Curriculum.

Thanking you.

Prof. S.R.Mahajan
(Faculty coordinator)

Prof. Sahu Pali

HOD

Head of the Department
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045

Dr.A.B.Auti

(GSMCOE)

PRINCIPAL

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045



• site visit Report •

• site visit report: →

An site visit for third year civil engg. student was organised at hadapsar railway station (Railtracks Introduction). Ramtekdi. pune.

• Date - on 17th sept 2019.

• purpose →

This visit was related to basic & practical introduction of Railtracks concept related to railtracks.

• Point covered during the visit →

A) All technical term & brief.

Explanation of them

B) Actual construction of site

C) All important points regarding how to prepared for placement interview of any company

This visit organised by →

i) Prof: Shilpa Mahajan

ii) Prof: Thorat Nivedita.

Other.

Total. no. of student & staff.

60 students (boy's & girl's).

following are the introduction regarding visit.



- Introduction →

The department of civil engg G.S.M.C.O.E. Balewadi, pune organised one day educational visit on railway tracks at hadapsar (pune) on 17 sept. 2019 for T:E civil engg. students

sites visit was organised as per pune universities guidelines & the recommendation regarding of T:E civil engg.

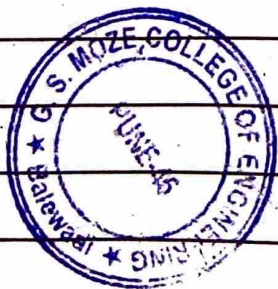
visit was organised with the perios permission & guidance of honorable HOD of civil dept Pali sahu & by the initiative & hard efforts of head of visit Shilpa mahajan mam, continuous guidance miss Thorat Nivedita mam which makes this visit a gard success.

- Location →

pune, Hadapsar (Railway tracks)

- Guide By →

- i) Prof. S. mahajan mam
- ii) Prof. N. Thorat mam.



Railways :- (concept covered in visit)

• Railway Engineering :->

Railway Engg. is a branch of civil engg which deals with design development, construction & maintenance of railway.

Tracks for safe & efficient movement of trains.

- Rails :-> Rails are the rolled steel section laid end to end in two parallel line over sleepers to form of railway tracks is called rail

Types :->

- (i) Bowler headed
- (ii) Bull headed
- (iii) Flat headed.

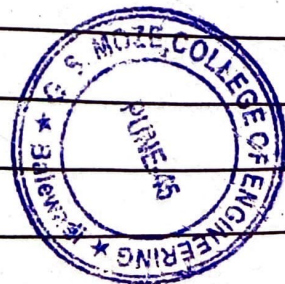
• Sleepers Types :->

- (i) wooden
- (ii) metal
- (iii) concrete

- Rail joints :-> To ensure continuity of railway tracks rails joint are necessary. This connection of any two adjacent rails in correct position is called rails joint.

• Type :->

- (i) supported
- (ii) suspended



- iii) Bridge
- iv) welded
- v) welded
- vi) square
- vii) staggered
- viii) compromise
- ix) Insulated

• point of crossing \Rightarrow

- i) A pair of tongue rails.
- ii) A pair of stock rails.
- iii) stretchers bar.
- iv) distance blocks
- v) Toe of switch
- vi) cheek rails
- vii) wing rails
- viii) splice rails
- ix) point rail
- x) main tracks
- x) Brant tracks

point of crossing is special arrangement provided on railway tracks facilitate trains to be diverted from one track to another.

• switches of point \Rightarrow

- i) simple split.
- ii) stub switches.



- Turnouts \rightarrow

Turnouts is a combination of turnout of point & crossing by which train is diverted from one track to another track.

- Types \rightarrow

i) Right hand

ii) Left hand turnout's

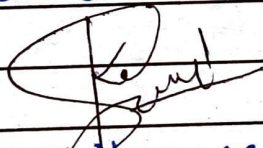
&

other important tracks maintenance & other object of the tracks

- Summary \rightarrow

This visit conveys all points required for students to know about the how the railway tracks is made or how does it looks.

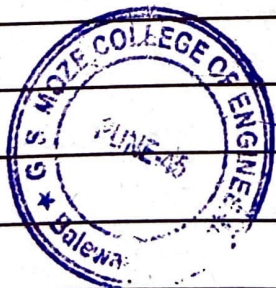
The point on point & crossing, turnouts were discussed too.

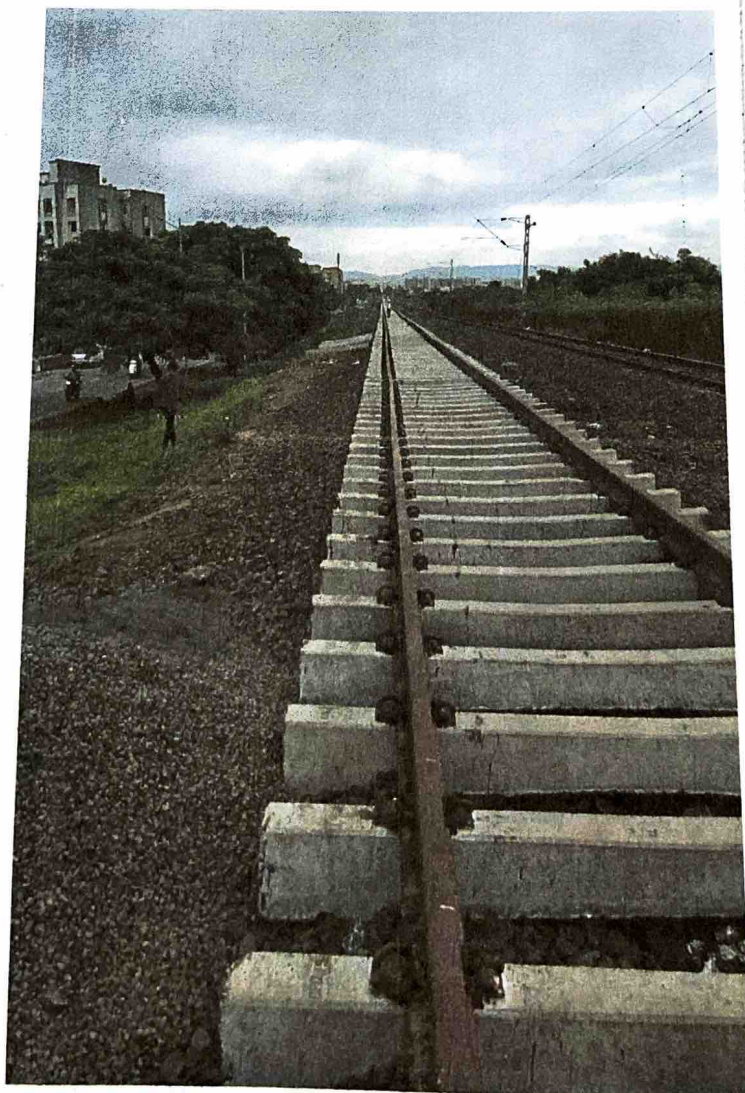


- Prof. Shilpa Mahajan
(subject incharge)



- Prof. Pali shahu.
(H.O.D. of Dept.)









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GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

(Recognized by AICTE, New Delhi; Approved by Govt. of Maharashtra; Affiliated to Pune University)

25/1/3, Balewadi, Pune – 411045. Ph: 020-27390500

Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in

Department Of Civil Engineering

DATE: 10/05/2022


NOTICE


All the students of S.E. are hereby informed that , your site visit of RMC Plant has been arranged on 13/05/2022 FRIDAY. So you all have to present at 9:30 am sharp in college premises .Or directly report at site sharp 10am. Location of RMC site will inform you one day before the schedule.

NOTE:

- STUDENTS MUST BE PRESENT IN COLLEGE UNIFORM ALSO CARRY COLLEGE ID
- STUDENTS SHOULD CARRY WATER BOTTLE,CAP, SHOES etc
- ATTENDANCE IS COMPULSORY

Subject Faculty:


Prof. Shilpa Mahajan


H.O.D.

Prof. Seema Shiyekar

Head of the Department,
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411 045.





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DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph. : 020-29513395 Website : www.gsmozecoe.org Email : gsmoze@yahoo.co.in

Founder President : Shri. Rambhau Moze

Ref. No. :

Date : 10/5/22

To,

Mr.Pawan Dhagate,
QC Manager,
Hella RMC India.

Subject:- Permission to visit RMC Plant.

Respected Sir,


We introduce ourselves as G. S. Moze College of engineering Balewadi is affiliated to University of Pune and approved by AICTE New Delhi. The college runs five UG program including Civil Engineering.


There would be a total of 40 students accompanied by 02 faculty members are interested to Visit your RMC Plant as a part of SE SPPU Syllabus in EEII Subject. The visit is aimed at enhancing their Practical knowledge.I assure you that no nuisance will be created and the visit will be carried out with proper discipline. I hope you will give us permission to visit the same.

We are expecting visit on date (13/05/22)

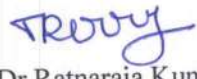
Looking forward for your positive consent in this regard.

Thanking you.


Prof.Shilpa Mahajan
(Faculty coordinator)


Prof.Seema Shiyekar
HOD

Head of the Department
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045


Dr. Dr.Ratnaraja Kumar Jambhi
Principal
PRINCIPAL

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045





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25/1/3, Balewadi, Pune – 411045. Ph: 020-27390500

Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in

Department Of Civil Engineering

DATE: 10/05/2022

To,
The Principal
GSMCOE Balewadi
Pune

Subject: Request to grant the permission for RMC plant site visit.

Respected Sir,

With reference to subject mentioned above we want to arrange site visit for the subject **Concrete Technology** for Second Year students of Civil Engineering Dept.

The site is situated near Nande Gaon (Hella RMC India) which is 10 km approx away from our college.

It's a kind request to grant us permission for the same along with 70 students and 2 faculty member to visit this site on **13/05/2022(FRIDAY)** at 11 am.

Thanking You,

Faculty

Prof. Shilpa Mahajan

Prof. Nivedita Thorat

H.O.D.

Prof. Seema Shiyekar

**Head of the Department,
CIVIL ENGINEERING**

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, Pune-411 045.

Principal

Dr. Ratnarajakumar Jambi

PRINCIPAL

**Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045**





“ EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE ”
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

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DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph: 020-27390500 Website: www.gsmozecoe.org Email: gsmoze@yahoo.co.in

Founder President: Shri Rambhau Moze

Date: 17/05/2022

To,

Mr.Pawan Dhagate(QC Manager)

&Entire Team

Infra Market. Pvt. Ltd.

Pune-412115

Subject: Letter of Appreciation

Respected Sir,

The Genba Sopanrao Moze trust is an educational trust, a pioneer in imparting quality professional's education in field of Engineering. It has established two campuses in Pune at Wagholi & Balewadi.

We Department of Civil Engineering of Genba Sopanrao Moze College of Engineering, Balewadi, Pune, would sincerely thank you for giving us permission to visit your renowned RMC plant at Nande. Our SE students are satisfied with the knowledge given by entire team and very good cooperation we got from the whole team of Infra. Market .We really appreciates the time spent by **Mr.Pawan Dhagate &Team** with our students and information shared.

Thanking you.

Yours Regards,

Prof. Shilpa Mahajan

(Faculty coordinator)

Prof. Seema Shiyekar

HoD

**Head of the Department,
CIVIL ENGINEERING**

Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411 045.

Dr. Ratnarajkumar Jambi

Principal

PRINCIPAL

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045





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Ph: 020-27390500 Website: www.gsmozece.org Email: gsmoze@yahoo.co.in

Founder President: Shri Rambhau Moze

Date:13/05/2022

To,
Mr.Pawan Dhagate ,
QC Manager ,
RMC India

Letter of thanks

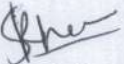
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We Department of Civil Engineering of Genba Sopanrao Moze College of Engineering, Balewadi, Pune, would sincerely thank you for giving us permission to RMC plant. We really appreciate the time spent with our students and information shared by you. We hope our students received precious knowledge which will definitely help them in their Curriculum.

Thanking you.

Yours Regards,


Prof. Shilpa Mahajan


(Faculty coordinator)

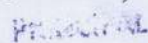

Prof. Seema Shiyekar

Hod

**Head of the Department
CIVIL ENGINEERING**

Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045


Dr. Ratnaraja Kumar Jambi
(GSMCOE, Balewadi)


Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045





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DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph: 020-27390500 Website: www.gsmozecoe.org Email: gsmoze@yahoo.co.in

Founder President: Shri Rambhau Moze

Date: 5/5/2022

To,
Mr. Pawan Dhagate
(QC manager)
Hella RMC India

Subject: Regarding permission to visit RMC plant

Respected Sir,

We introduce ourselves as G. S. Moze College of engineering Balewadi is affiliated to University of Pune and approved by AICTE New Delhi. The college runs five UG program including Civil Engineering.

There would be a total of 40 students accompanied by 02 faculty members are interested to visit RMC plant as a part of curriculum.. The visit is aimed at enhancing their knowledge. We intend to take a round of the entire RMC plant. **(Various operation involved to prepare concrete mix. additionally if we get any information about admixtures which is used to prepare special concrete)** I assure you that no nuisance will be created and the visit will be carried out with proper discipline. I hope you will give us permission to visit the same.

After the approval from your side college will provide identity cards of Students and Faculty

Members and will do the needful. **we are expecting visit on date (7/5/22 or 9/5/22)**

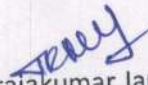
Looking forward for your positive consent in this regard.

Thanking you.


Prof. Shilpa Mahajan

(Faculty Incharge)


Prof. Seema Shiyekar
(H.o.D Civil Dept)


Dr. Ratnarajakumar Jambi
(Principal, GSMCOE)

Received and Accepted


Pawan Dhagate
Technical

PRINCIPAL

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045



G S Moze College of Engineering Balewadi Pune

Second Year AY 2021-22

Department of Civil Engineering

RMC Site Visit Attendance



Course -Concrete Technology

Date- 16/05/2022

Roll. NO.	Class	Student Name	Sign
1	SE	BANAGAR SHASHANK SHIVASHANKAR	
2	SE	GAIKWAD RUTUJA JEEVA	
3	SE	NALWADE ADITYA DEEPAK	
4	SE	SHINDE HINDRAJ MILIND	
5	SE	AGJIL SHRIPAD MUKUNDRAO	
6	SE	AMBRE SAHIL NAGESH	
7	SE	AMIT KUMAR	
8	SE	BADGUJAR ASHUTOSH VIJAY	
9	SE	BARVE SAKSHI NITIN	
10	SE	BHALKE NIKHIL RAJKUMAR	
11	SE	BHISE SAURABH SAMPAT	
12	SE	BURUD AADESH SITARAM	
13	SE	CHINCHOLI NAGESH SHIVSHARANAPPA	
14	SE	DESHMUKH MUKUND GAJANAN	
15	SE	DHANGE ABHISHEK BHAGWAN	
16	SE	DHANKUDE SWARAJ SUHAS	
17	SE	DHAR SOUMK	
18	SE	DHEWADE CHAITANYA NARWIN	
19	SE	DHORE SUJAL SHAM	
20	SE	DIXIT SAISH SUNIL	
21	SE	GADE KAUSTUBH VIVEK	
22	SE	GADE SANKET SHAHAJI	
23	SE	GAIKWAD ABHIJEET SHANKAR	
24	SE	GAWALI ANIKET BAPU	
25	SE	GIRI NIKHIL AMVRUSHI	
26	SE	GUNDAL ANUJ CHANDRAKANT	
27	SE	INDORE AJAY JAGARNATH	

63	SE	SHAIKH MUZIB AZIZ	<i>Haik</i> <i>Recepive</i>
64	SE	SHELAR PRATIK PRADIP	<i>Shelar</i>
65	SE	SHINDE RUSHIKESH SHIVAJI	<i>Shubham</i>
66	SE	SHUBHAM CHANDRAKANT BARKUL	<i>Shubham</i>
67	SE	SUTAR PRASAD GULAB	<i>Prasad</i>
68	SE	TAKALE JITENDRA MAHENDRA	<i>Takale</i>
69	SE	TARE SHARAD RAMKRISHRAO	<i>Tare</i>
70	SE	TAYDE CHAITANYA SANJAY	<i>Tayde</i>
71	SE	TELMORE ANUPRIYA RAMESH	<i>Telmore</i> <i>Ramesh</i>
72	SE	UNDE SAHIL ASHOK	<i>Unde</i>
73	SE	VEDNERE ANANT PROMOD	<i>Vedner</i>
74	SE	VETALE VIVEK SOPAN	<i>Vetale</i>
75	SE	WAKADE PRANAV SANDEEP	<i>Wakade</i> <i>Pranav</i>
76	SE	KEDARI HARSHAD POPAT	<i>Kedari</i>

Shilpa
Prof. Shilpa Mahajan
Course Incharge

Seema
Prof. Seema Shiyekar
H.O.D



Visit on
RMC Plant
Hella Infra Market Pvt. Ltd.

G S MOZE COLLEGE OF
ENGINEERING, BALEWADI

Department of civil engineering

CONCRETE TECHNOLOGY

Academic year 2021-2022



NAME: HELLA INFRA MARKET PVT LTO, Sr.No71, Nande Gaon, Mulshi, PUNE-412115

DAY & DATE : -Saturday & 13 May 2022

OBJECTIVE: STUDY OF RMC, TRANSIT MIXER AND BATCHING.

GUIDED BY: Prof. SHILPA MAHAJAN,

EXPERTS FROM SITE: Project Manager - . Pawan Dhagate and Team

We, second year students had a visit to: HELLA INFRA MARKET PVT LTO, Sr.No71, Nande Gaon, Mulshi. It is a Ready Mix Concrete Plant. Nearly about at 11 A.M we reached at plant. The project manager Mr. Pawan Dhagate greeted us with warm welcome.

After Introduction part he took us to his testing laboratory where he showed us various equipments which is used for testing of fresh as well as hardened concrete.

Introduction:

Few things are more aggregating to produce on a worse than concrete, bags of cement, sand, aggregate & possibly other additive must be delivered to the construction area. A supply of clean water is also necessary, along with a rented concrete mixing hopper. Even after all the dusty & heavy ingredients have been loaded into the hopper, one shall error in wet dry ratio can ruin an entire batch of concrete usable. One common solution to this messy & time consuming problem is ready mix concrete.

PROCESS

QUALITY CHECK

When all the raw materials come to site they do some field test on them and then materials are accepted and then they do required checking limit W/c ratio, workability and compression test on cubes made by that materials as per grades of cement. Some laboratory test are done in their own lab in Pune.

STORAGE YARD

In the storage yard they store 20mm, 10mm, aggregate and crushed sand, they also have attached the sprinkler above the materials to absorb water to increase workability of aggregate. Once the trial



test are done then they move materials to storage yard for lading of RMC.
There were 3 Silos to store fly ash, cement and GGBS about 100ton capacity each and they silos dont allow moisture to be absorbed in materials to maintain the quality.

PNEUMATIC HOPPERS

From storage yard a (JCB) load all the materials in different hoppers as per requirement.

CONVEYER BELT

From hopper all materials fall on conveyer belt as per requirement with the help of automated pneumatic arm. All mechanism is controlled with software .



CONTROL CABIN

From cabin they send all materials to mixers as per client requirement with help of software they start loading.

MIXERS



In mixer all materials, admixtures, cement from silos connected to mixer and water is mixed as per proportion entered in software by the engineer

LOADING

Once the RMC is ready for loading, the transit mixer comes under the opening of mixer.

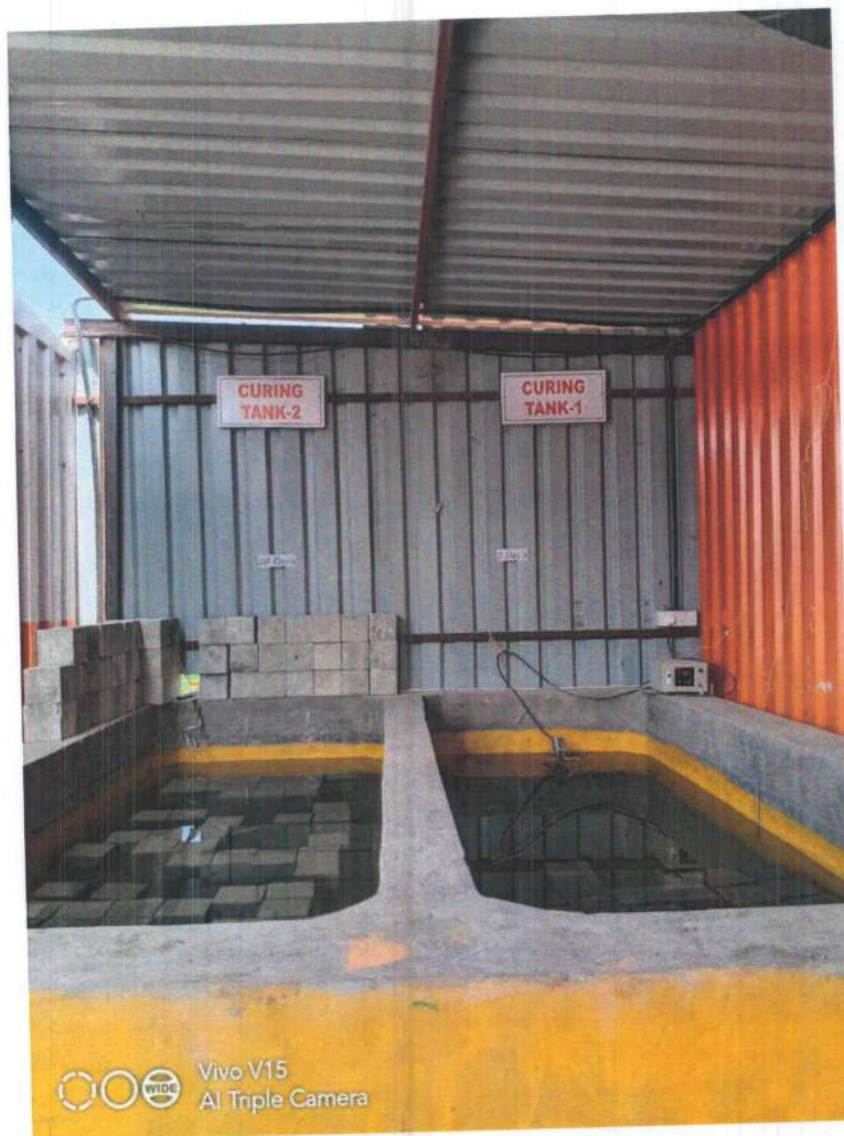
And then transit mixer is loaded, and a final horn is honked as a signal regarding transit mixer is loaded and ready to go.

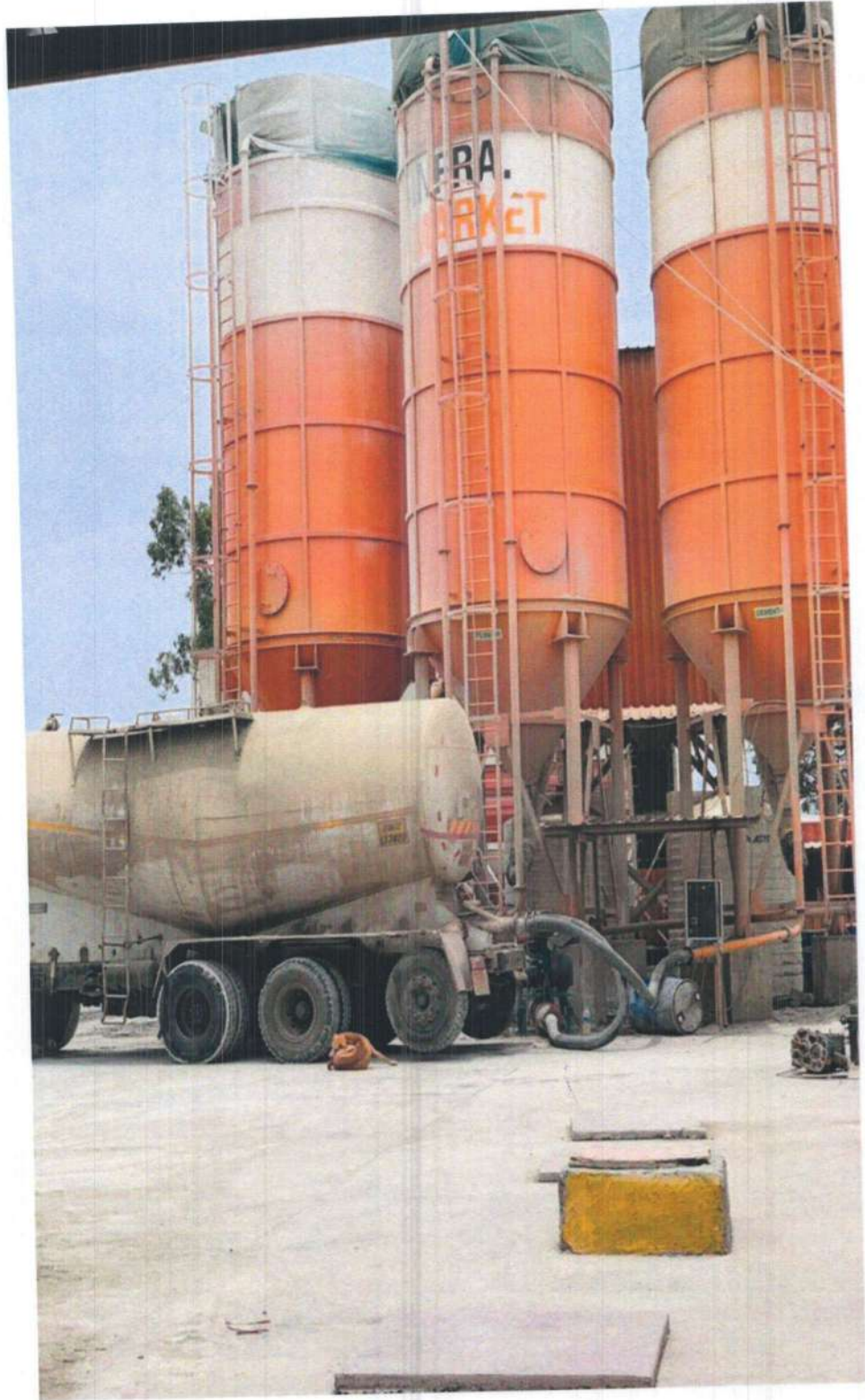
A final checking is done by engineers so confirm that loaded transit mixer is filled with proper grade and Quality



of materials. Transit mixer were had the capacity of 7m³ on site but truck also comes with different sizes like 6m³, 8m³, 9m³. With capacity of 25 to 50 tone.

After that they showed us compression test on cubes which they had made 28days ago, cured in 28 degree celcius controlled with thermostat.









Conclusion:

This visit was really helpful to us for understanding working and benefits of READY MIX CONCRETE PLANT.



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Website: www.gsmozece.co.in Email: gsmoze@yahoo.co.in

Department Of Civil Engineering

UNDERTAKING

Subject: Undertaking for Educational visit

Sir/Madam,I, the undersigned with name & roll no. listed below, student of “SE A Div “ CIVIL” hereby give the following undertakir

1. That I am joining the site visit to RMC PLANT ~~NANDE~~Pune.on 13th May 2022 at my own risk & cost.
2. That I will not hold responsible either G. S. MOZE COLLEGE OF ENGINEERING, CIVIL ENGINEERING DEPARTMENT or ORGANIZERS for any eventuality.
3. That I am giving this undertaking in my full consciousness and alertness.
4. I will follow all the instructions given to me by ORGANIZERS & FACULTY MEMBERS.
5. I will follow all disciplines and rules from start to end of the tour.
6. I will not smoke, consume alcohol, tobacco in the tour at any time.

I am aware that I will be detained for a year if I violate the undertaking.

I have informed my parents about the study tour and they have permitted me for the same. My parents know the schedule of this study Visit.

Roll No.	Name of Student	Sign	Roll No.	Name of Student	sign
✓ A1	BANAGAR SHASHANK SHIVASHANKAR		A19	DHORE SUJAL SHAM	
✓ A2	GAIKWAD RUTUJA JEEVA N		A20	DIXIT SAISH SUNIL	
✓ A3	NALWADE ADITYA DEEPAK		A21	GADE KAUSTUBH VIVEK	
A4	SHINDE HINDRAJ MILIND		A22	GADE SANKET SHAHAJI	
✓ A5	AGJIL SHRIPAD MUKUNDRAO		✓ A23	GAIKWAD ABHIJEET SHANKAR	
A6	AMBRE SAHIL NAGESH		A24	GAWALI ANIKET BAPU	
A7	AMIT KUMAR		A25	GIRI NIKHIL AMVRUSHI	
A8	BADGUJAR ASHUTOSH VIJAY		A26	GUNDAL ANUJ CHANDRAKANT	
✓ A9	BARVE SAKSHI NITIN		A27	INDORE AJAY JAGARNATH	
A10	BHALKE NIKHIL RAJKUMAR		✓ A28	JADHAV DIPALI MARUTI	
A11	BHISE SAURABH SAMPAT		A29	JADHAV MAHADEV RAJENDRA	
A12	BURUD AADESH SITARAM		A30	JAGTAP KARAN SANJAY	
A13	CHINCHOLI NAGESH SHIVSHARANAPPA		A31	KAMBLE SHWETA JAYANT	
A14	DESHMUKH MUKUND GAJANAN		A32	KARWADE PRAGATI PRAKASH	
✓ A15	DHANGE ABHISHEK BHAGWAN		A33	KEDARI HARSHAD POPAT	
A16	DHANKUDE SWARAJ SUHAS		A34	KHUPSE VYANKTESH MURLIDHARRAO	
A17	DHAR SOUMK		✓ A35	KIRVE POOJA BABAN	





“Empowerment Through Technological Excellence”
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

(Recognized by AICTE, New Delhi; Approved by Govt. of Maharashtra; Affiliated to Pune University)

25/1/3, Balewadi, Pune – 411045. Ph: 020-27390500

Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in

Department Of Civil Engineering

Roll No.	Name of Student	Sign	Roll No.	Name of Student	sign
A37	KOLEKAR YUVRAJ MOHAN		A65	SHINDE RUSHIKESH SHIVAJI	
A38	KONDEVILKAR JAGRUTI TUKARAM	<i>Jagruti</i>	A66	SHUBHAM CHANDRAKANT BARKUL	
A39	LAGOTE SHAILESH RANGNATHRAO		A67	SUTAR PRASAD GULAB	
A40	MAHATRE SHUBHAM BALU		A68	TAKALE JITENDRA MAHENDRA	
A41	MAKASARE SANKET MANOJ		A69	TARE SHARAD RAMKRISHRAO	
A42	NAGTILAK PRATHAMESH TANAJI		A70	TAYDE CHAITANYA SANJAY	
A43	NAIK DATTA VENKATRAO		A71	TELMORE ANUPRIYA RAMESH	
A44	NANGARE MADHRI NAMDEO		A72	UNDE SAHIL ASHOK	
A45	OVHAL PRADNYA DILIP		A73	VEDNERE ANANT PROMOD	<i>[Signature]</i>
A46	PADULE MANGESH SAHEBRAO	<i>[Signature]</i>	A74	VETALE VIVEK SOPAN	
A47	PANDIT AKSHATA BALASAHEB	<i>[Signature]</i>	A75	WAKADE PRANAV SANDEEP	
A48	PATANKAR PRAJAKTA RAMCHANDRA				
A49	PAVAL KARAN SUNIL				
A50	PAWAR PRACHODAY MAHADEV				
A51	PAWAR SAKSHI GOVIND	<i>Sakshi</i>			
A52	PILLE SURAJ BALKRISHNA				
A53	PISAL PRATHAMESH SUNIL	<i>[Signature]</i>			
A54	PRADHI ROHAN KASHINATH				
A55	RAJPUT AKSHAY MAHESH				
A56	RAKSHE GAURAV DATTATRAY	<i>[Signature]</i>			
A57	ROKADE PRAKASH VILAS				
A58	SANAP HANUMANT SUKHDEV				
A59	SARODE POOJA RAVINDRA				
A60	SATPUTE SNEHA JYOTIRAM				
A61	SHAHA ANIKET MOHAN				
A62	SHAIKH KASHAF EJAZ AHMED				
A63	SHAIKH MUZIB AZIZ				





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Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in

Department of Civil Engineering

Date: - 09/04/2022

NOTICE

It is to inform all the Third Year Civil Engineering Students that a site visit for Waste water Engineering subject has been arranged on 12/04/2022 at Sewage Treatment plant, Akurdi. Attendance is mandatory to all the students. Amount of Rs 40 will be collected from each student for the same. Transaction Details will be shared on the official group shortly.

Prof. Poonam Nandihalli

Subject Teacher

Prof. Seema Shiyekar

H.O.D



"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

S. No. 25/1/3, Balewadi, 411 045.

(Approved by AICTE and Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University)

DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph. : 020-29513395 Website : www.gsmozecoe.org Email : gsmoze@yahoo.co.in

Founder President : Shri. Rambhau Moze

Ref. No. :

Date :

To,
Executive Engineer,
Environmental engineering department,
Pcmc, Pune.

Subject:- Permission to visit Sewage Treatment Plant, Akurdi .

Respected Sir,

We introduce ourselves as G. S. Moze College of engineering Balewadi is affiliated to University of Pune and approved by AICTE New Delhi. The college runs five UG program including Civil Engineering.

There would be a total of 30 students accompanied by 02 faculty members are interested to Visit your Sewage Treatment Plant ,Akurdi as a part of TE SPPU Syllabus in WWE Subject. The visit is aimed at enhancing their Practical knowledge. We intend to take a round of the entire Sewage Treatment Plant. I assure you that no nuisance will be created and the visit will be carried out with proper discipline. I hope you will give us permission to visit the same.

We are expecting visit on date (12/04/22)

Looking forward for your positive consent in this regard.

Thanking you.



Prof. Poonam Nandihalli

(Faculty coordinator)


Prof. Seema Shiyekar

HOD
Head of the Department
CIVIL ENGINEERING

Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411045


Dr. Ratnaraja Kumar Jambi

Principal

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045





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DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph. : 020-27390500 Website : www.gsmozecoe.org Email : gsmoze@yahoo.co.in

Founder President : Shri. Rambhau Moze

Ref. No. : GSMCOE/2022/ADMIN/223

Date : 11/04/2022

To
Executive Engineer,
Environment Engineering Department,
Pimpri Chinchwad Municipal Corporation, Pimpri,
Pune- 411018.

Subject: Regarding Permission for Site Visit to Sewage Treatment Plant, Akrudi.

Respected Sir,

We are one of the reputed institutes offering various technical degree courses approved by AICTE Delhi, Govt. of Maharashtra, DTE and affiliated to Savitribai Phule Pune University (SPPU).

With reference to above mentioned subject as per the course curriculum for the subject **Waste Water Engg.** of Third year student of Civil Engineering Department, we would like to arrange a site visit to Sewage Treatment Plant for the same.

It's a kind request to grant us permission to visit the site along with the students and 2 faculty members on 12/04/2022. We will be thankful if you do the needful and allow us In-charge person so that he can explain the details about site.

Thanking you.

Prof. Poonam Nandihalli

Subject Incharge

(8867845069)

Prof. Seema Shiyekar

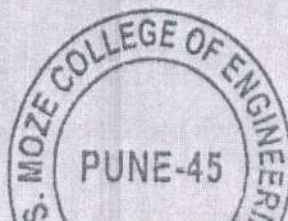
H.O.D

Dr. Ratnaraja Kumar Jambhi

Principal

PRINCIPAL

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045





G S MOZE COLLEGE OF ENGINEERING

Department of Civil Engineering

Roll call list

Class TE A A.Y. 2021-22

Sewage Treatment Plant Visit Attendance

Course -Waste water Engineering

Date-09/04/2022

Roll No	Name of Student	Sign
TE A 1	SURYAWANSHI ABHISHEK BHANUDAS	
TE A 2	SURYAWANSHI RUSHIKESH RAJENDRA	
TE A 3	SANDEEP NEBBOOLAL PRAJAPATI	
TE A 4	CHAVAN RUTVI PRADEEP	
TE A 5	PHADE SHUBHAM KRUSHNAJI	
TE A 6	BHANGE SAIPRASAD SANJAY	
TE A 7	DHANGEKAR ABHISHEK MAHADEV	
TE A 8	GAURAV TAPKIR	
TE A 9	ALKUNTE PRATIK SHANKAR	
TE A 10	ANDHALE PRUTHVIRAJ YUVRAJ	
TE A 11	ANIKET UDDHAV MANDHARE	
TE A 12	ANIMESH SANJAY NAGWANSHI	
TE A 13	BACHCHE SHAILESH VASANT	
TE A 14	BARKULE SHUBHAM CHANDRAKANT	
TE A 15	BHAGWAT ADITYA GOPALA	
TE A 16	BHANAWASE SUJIT JOYTIRM	
TE A 17	BHELSAIKAR AJINKYA RAJU	
TE A 18	BIRADAR GAURAV DNYANESHWAR	
TE A 19	CHAUDHARI DHIRAJ POPATRAO	
TE A 20	CHAVAN MANASI VITTHAL	
TE A 21	CHAVAN SANGRAM MANSING	
TE A 22	CHAVAN SURAJ RAMESH	
TE A 23	CHIPLUNKAR SAHIL SANJAY	
TE A 24	DESAI POOJA DINKAR	
TE A 25	DUBALE ATHARV HANUMANT	
TE A 26	DUDHAL SHUBHAM SANJAY	
TE A 27	GADEKAR SHRADDHA GAJANAN	
TE A 28	GAIKWAD NIKHIL VISHNU	
TE A 29	GANDHARE JANHAVI AJAY	
TE A 30	GHOHARE REVANSIDDHA NAMDEV	
TE A 31	GODAGE SAMEER SURESH	
TE A 32	GOLE SANJAY BABURAO	
TE A 33	GUNJAL SHIVRAJ BRAMANAND	
TE A 34	HAWALDAR SANKET BALU PUSHPA	

TE A 35	INDRALE PRITI ASHOKRAO	INDRALE
TE A 36	ITKALE SHUBHAM DILIP	ITKALE
TE A 37	JADHAV NIKHIL SHIVAJI	JADHAV
TE A 38	JADHAV PRATIK NANDKUMAR	JADHAV
TE A 39	JADHAV VAIBHAV PRAKASH	JADHAV
TE A 40	JAGTAP GURUPRASAD AJAY	JAGTAP
TE A 41	JAGTAP SACHIN RAJENDRA	JAGTAP
TE A 42	JAYESH SUDAM SAINDANE	JAYESH
TE A 43	JOSHI SOHAM SANJOT	JOSHI
TE A 44	KADAM AKASH BABASAHEB	KADAM
TE A 45	KADAM AKASH BHAUSAHEB	KADAM
TE A 46	KADAM GANESH MAHADEV	KADAM
TE A 47	KALE RUSHIKESH BABASAHEB	KALE
TE A 48	KALOKHE SURAJ AVINASH	KALOKHE
TE A 49	KAMBLE PRAJAKTA JITENDRA	KAMBLE
TE A 50	KAMBLE PRASHIK BHARATBHUSHAN	KAMBLE
TE A 51	KHAN HUMA JAVEDKHAN	KHAN
TE A 52	KHANDARE RAJESHWAR RAMESHRAO	KHANDARE
TE A 53	KHARAT AVINASH VINAYAK	KHARAT
TE A 54	KHARAT GANESH ARJUN	KHARAT
TE A 55	KOLEKAR AMOL SURESH	KOLEKAR
TE A 56	KORKE SAGAR DATTATRAY	KORKE
TE A 57	KSHIRSAGAR VISHWANATH BHAGWAN	KSHIRSAGAR
TE A 58	LAKKAM SUDHANSHU SANJAY	LAKKAM
TE A 59	MADAKE SAYALI BALU	MADAKE
TE A 60	MAGARE PREETI DATTATRY	MAGARE
TE A 61	MAHALE DEVENDRA SHIRISH	MAHALE
TE A 62	MANE GEETANJALI GHANSHYAM	MANE
TE A 63	MANSUTE GAURAV SUDHAKAR	MANSUTE
TE A 64	MATERE PRADIP RAMESH	MATERE
TE A 65	MHALUNGEKAR SAURABH SAMBHAJI	MHALUNGEKAR
TE A 66	MOHITE PRANAV PRAKASH	MOHITE
TE A 67	MOKASHI SUHEL DAUD	MOKASHI
TE A 68	MORE RAHUL VASANT	MORE
TE A 69	NAWALI SAGAR VILAS	NAWALI
TE A 70	NIKHIL DATIR	NIKHIL
TE A 71	PIMPLE VIKESH MANIK	PIMPLE
TE A 72	MESHARAM RAVINDRA	MESHARAM
TE A 73	NIKHIL SHIMPI	NIKHIL
TE A 74	PRATHMESH KHONDE	PRATHMESH

Prof. Poonam N.
Course Incharge



Prof. Seema Shiyekar
H.O.D

Head of the Department
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411045



G S MOZE COLLEGE OF ENGINEERING

Department of Civil Engineering

Roll Call

Class TE B A.Y. 2021-22

Sewage Treatment Plant Visit Attendance

Course -Waste water Engineering

Date-09/04/2022

Roll No	Name of Student	Sign
TE B 1	BAWANKAR AMIT DNYANESHWAR	
TE B 2	PAWAR RACHANA NANDRAM	
TE B 3	GADIWADD SWAPNIL TIPANA	
TE B 4	RAYMANE AKASH MACHHINDRANATH	
TE B 5	BIJAWA PRITI RAMDASRAO	
TE B 6	NAKHATE VANITA MARUTI	
TE B 7	JYOTI DNYANESHWAR RAJAPURE	
TE B 8	NEHARKAR DINESH BABASAHEB	
TE B 9	KUMBHAR RAJU ANNA	
TE B 10	KAMBLE RUSHIKESH SUDESHKUMAR	
TE B 11	MORE VANDANA BHAGWANRAO	
TE B 12	CHAVAN AVINASH REVAN	
TE B 13	GIR SWATI KHUSHAL	
TE B 14	DEVAKAR TANAJI TUKARAM	
TE B 15	JADHAV PRATIK RAVINDRA	
TE B 16	GUNDAL CHANDRAKANT RAMDAS	
TE B 17	ADISHERLAWAR VITTHALNATH LAXMANRAO	
TE B 18	ARBUNE VAIBHAV PANDURANG	
TE B 19	BHAGAT RUSHIKESH HARISHCHANDRA	
TE B 20	BHANDARKAR GAURAV RAMLING	
TE B 21	DHADDE OMKAR ASHOK	
TE B 22	DHUMAL DISHA DASHARTH	
TE B 23	GAIKWAD AKSHAY SURESH	
TE B 24	GAVALI SHREYASH JAGDISH	
TE B 25	KADAM ANIKET MALHARI	
TE B 26	KALASKAR AKASH ANNASAHEB	
TE B 27	KAMBLE RUTURAJ DILIP	
TE B 28	KAMBLE VINAY ANIL	
TE B 29	MULE YOGESH SHANKAR	
TE B 30	NAIK OMKAR SANTOSH	
TE B 31	NAVGHARE PRASAD MILIND	
TE B 32	NIKALJE SIDDHARTH SHASHIKANT	
TE B 33	NIKHIL MOHAN GHANEKAR	
TE B 34	OLEKAR PRATIK VIJAY	
TE B 35	ORASE ABHISHEK SHANKAR	
TE B 36	ORSE MUKESH KISAN	
TE B 37	PATIL KIRANRAJ NANA	



TE B 38	PAWALE TUSHAR TUKARAM	Patil
TE B 39	PHARANDE PRASAD GANESH	Patil
TE B 40	POTDAR GAURAV NAGNATH	POTDAR
TE B 41	RAJE PANKAJ DNYANOBA	Patil
TE B 42	RAJPUT VISHWAJITSING PREMSING	Patil
TE B 43	RANDIVE MANDAR GOKUL	RANDIVE
TE B 44	RANGOJI DIVYA GNYANADEV	RATHOD
TE B 45	RATHOD ARCHANA SANJAY	RATHOD
TE B 46	RAUT GANESH ASHOK	RATHOD
TE B 47	RAWOOL VIKAS VIJAY	RAWOOL
TE B 48	SANCHIT RAGHUNATH CHAUGULE	SANCHIT
TE B 49	SANNAV TANVI PRATAP	SANNAV
TE B 50	SATAV SHUBHAM MUKESH	SATAV
TE B 51	SATHE MEGHA MOHAN	SATHE
TE B 52	SAURABH WACHAK PADALE	SHINDE
TE B 53	SHINDE DIKSHA DATTATRAY	SHINDE
TE B 54	SHINDE JYOTI VISHWAS	SHINDE
TE B 55	SHINDE OM SANJAY	SHINDE
TE B 56	SHINDE RUSHIKESH RAMRAJE	SHINDE
TE B 57	SHINDE VRUSHABH DILIP	SHINDE
TE B 58	SINGH PRASHANT DURGAPRASAD	SINGH
TE B 59	SONUNE SACHIN KUNDALIK	SONUNE
TE B 60	SUDATTA LAXMAN GAIKWAD	SUDATTA
TE B 61	SURPAM LALITA MAHADEO	SURPAM
TE B 62	TEJAS VILAS DALVI	TEJAS
TE B 63	TEMKAR SAURABH VILAS	TEMKAR
TE B 64	THORAT SUYASH SAMBHAJI	THORAT
TE B 65	TIKAR RUPAL PANDURANG	TIKAR
TE B 66	TUPLONDHE SIDDHANT SUNIL	TUPLONDHE
TE B 67	UBALE RUTUJA MANOJ	UBALE
TE B 68	VAISHNAVI KORATE	VAISHNAVI
TE B 69	VHANMANE AKSHAY DASHARATH	VHANMANE
TE B 70	WAGHMARE GANESH KRUSHNA	WAGHMARE
TE B 71	WARLE AMRUTA LOBHAJI	WARLE
TE B 72	CHAITANYA SHINDE	CHAITANYA
TE B 73	SUNIL PARGAVE	SUNIL
TE B 74	VISHAL GHODAKE	VISHAL

Prof. Poonam N.
Course Incharge

Prof. Seema Shiyekar
H.O.D

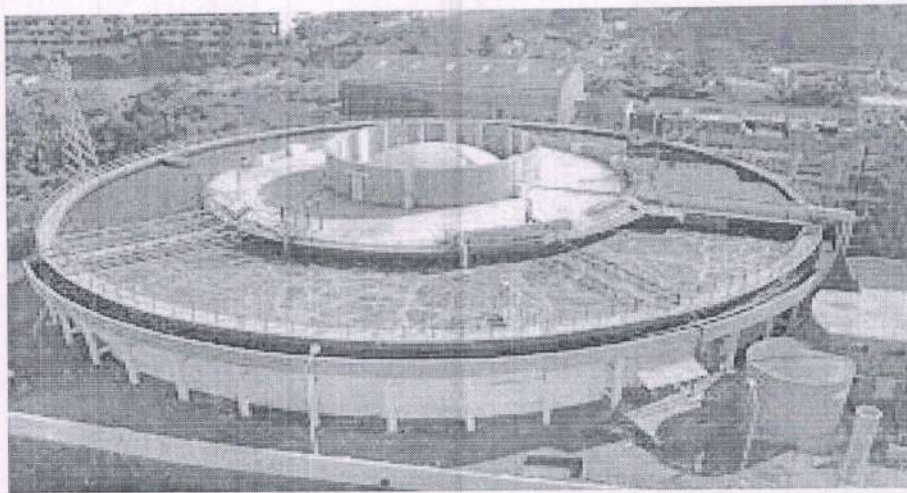


Head of the Department
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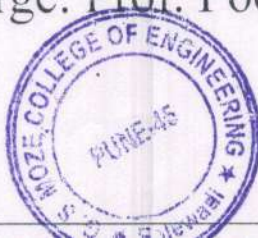


GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING
Balewadi, Pune – 411045, Ph: 020-27390500

REPORT ON EDUCATIONAL VISIT SEWAGE TREATMENT PLANT, AKURDI.



Under SPPU as per syllabus
Organized by
Civil Engineering Department
Subject Incharge: Prof. Poonam Nandihalli



AIM - To generate knowledge and practical visualization of construction and working of sewage treatment plant.

SUBJECT - The visit was conducted for the better understand of Waste Water Engineering.

LOCATION - Near inox Jai Ganesh, Ganga Nagar road, Akurdi, Pune -411044

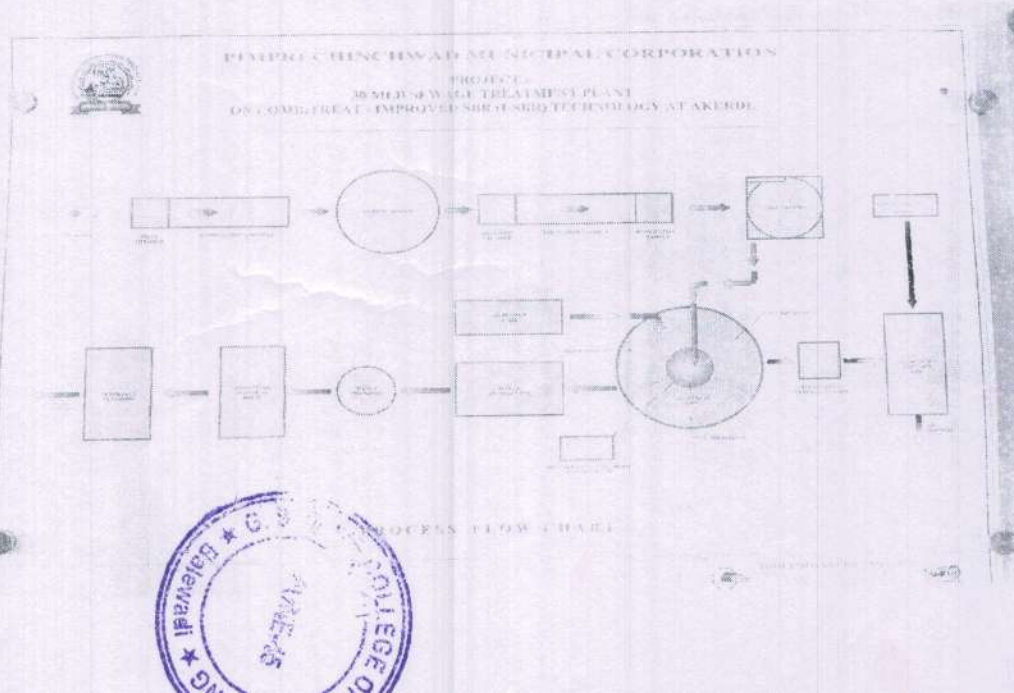
DATE - It was organized on 12 April 2022.

TIME - From 10:00AM Onwards.

NO. OF PARTICIPANTS- 50 Students along With 2 Faculty Members

YEAR OF ESTABLISHMENT OF PLANT - Sewage Treatment Plant was inaugurated in December 2011 The plant lies under the jurisdiction of **pimpri Chinchwad Municipal corporation (PCMC)**. Pune.

CAPACITY OF PLANT- 30 MLD Capacity Sewage Treatment Plant.



GENERAL INFORMATION -

As per the syllabus of Savitribai Phule Pune University for Third year of Civil engineering, field visit report Writing is one of the assignment for the subject of Waste Water Engineering.

For the assignment, the site visit was organized for the 50 students by our department of Civil Engineering on 12 April 2022 At 10:00 AM, with prior permission of respected HOD and Principal Sir by the initiative and hard efforts of Prof. Poonam Nandihalli and Prof. Sneha Palled K.

OBJECTIVE -

The objective of the visit was to provide practical knowledge about Sewage treatment. We appreciate the effort of the management of GSMCOEB for executing this successful Sewage treatment plant visit.

REASON FOR CHOOSING THIS SITE -

The main reason for choosing this site is for observation process and to see the theoretical knowledge being fitted in practice and implementing all that theory we have gone through at this stage. Unit to generate power from Bio-gas and to reduce organic load in CLSBR basins.

- SBR technology has potential to generate power from Biogas through Combi-Treat unit by providing Bio-Gas engine

Constituents of Sewage - Sewage is 99 % water carrying wastes originating in urine and night soil. It contains waterborne pathogenic organisms from the night soil of already infected persons.



INTRODUCTION

Sewage is a water-carried waste, in solution or suspension that is intended to be removed from a community. Also known as domestic or municipal wastewater, it is characterized by volume or rate of flow, physical condition, chemical and toxic constituents, and its bacteriologic status (which organisms it contains and in what quantities). It consists mostly of grey water (from sinks, tubs, showers, dishwashers, and clothes washers), black water (the water used to flush toilets, combined with the human waste that it flushes away); soaps and detergents; and toilet paper (less so in regions where bidets are widely used instead of paper), where sewer line and grey water line is not provided separately. It also contains surface runoff depends on the design of sewer system.

Sewage treatment is the process of removing contaminants from wastewater, primarily from household sewage. It includes physical, chemical, and biological processes to remove these contaminants and produce environmentally safe treated wastewater (or treated effluent). A by-product of sewage treatment is usually a semisolid waste or slurry, called sewage sludge, that has to undergo further treatment before being suitable for disposal or land application.

NECESSITY FOR SEWAGE TREATMENT -

To remove the organic and inorganic matter which would otherwise cause pollution.

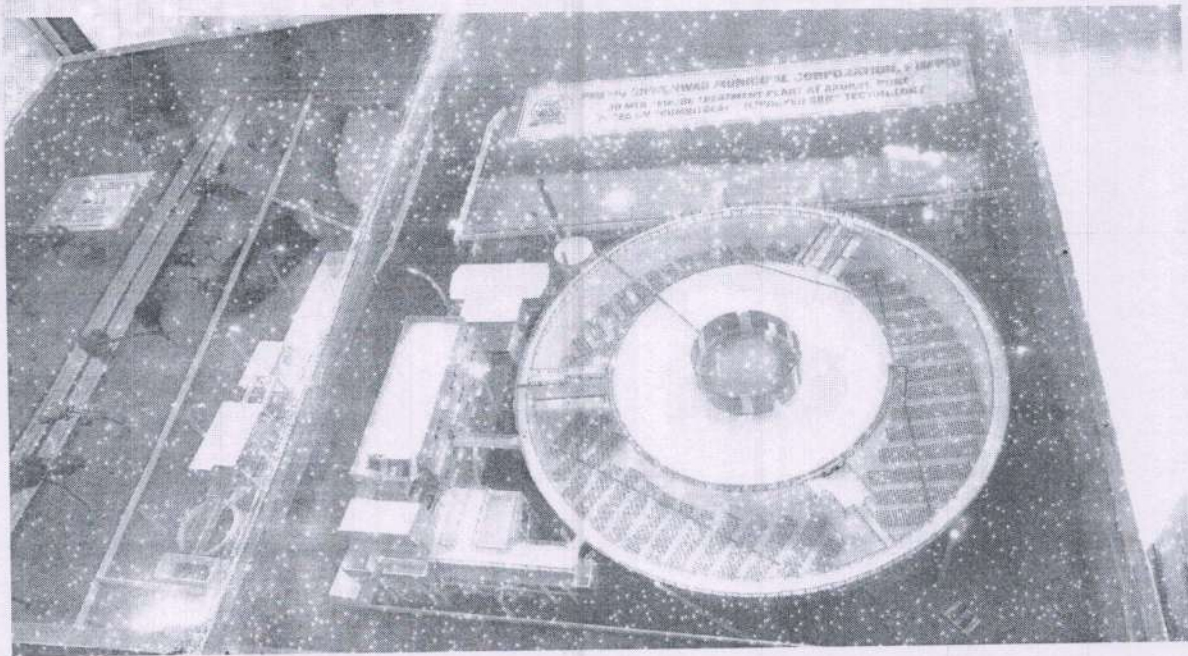
To remove pathogenic (disease causing) organisms in order to protect the:

- Environment
- Human Health

WORKING PRINCIPLE OF SOMLD STP

This revolutionary unit is an improvement made to the Conventional SBR (Sequential Batch Reactor) technology to convert into power saving and power generation technology, which modifies the process to Improved SBR technology. This innovation has incorporated the advantages of both, aerobic





Sr No	Units	Used for	Time Cycle
1	Primary Units Coarse Screen	Used To separate big particles	Continuous rotation
2	Fine Screen 1. Mechanical 2. Manual	Used to separate particles automatically Manual Op_eration is to be done	Continuous revolution
3	Grit Chamber	Used to separate grit materials	Continuous Movement
4	Combi Treat Unit		
	6 Digester Mixer	Used to Digest Sludge	
	Biogas Balloon	Used for the Collection of pure Methane Gas	Continuous process
5	3 Basins	10MLD Each	
5.1	Decanting	is a process used to separate mixtures, and ii its simplest form it just means allowing a mixture of solid and liquid or two immiscible liquids to settle and separate by gravity	60Mins
5.2	Aeration	brings water and air in close contact in order to remove dissolved gases	60Mins
5.3	Settling	is to remove suspended solids from the wastewater	60Mins
6	Treated Water Is used for the generation of hydroelectricity using hydro engines		
7	Treated Water is Sent to CCT (Chlorine Contact Tank) unit Where Chemical Dosage of Chlorine is given Then This Water Is used for gardening, construction process and rest water is again drained out in washed down back		



and anaerobic sewage treatment methodologies. Sewage is treated in this Combi-treat unit before it enters the 1-SBR basin. Combi-treat unit consists of a large tank, preferably cylindrical in shape. Upper portion of Combi-Treat functions as Primary Clarifier and bottom act as Anaerobic Sludge Digester. Anaerobic digestion is the biological degradation of organic matter in the absence of free oxygen. During this process, much of the organic matter is converted into methane, carbon-di-oxide and water and therefore the anaerobic digestion is a net energy producer. There is a dome at the top of the tank to store gas produced from Digester. The collected gas is then scrubbed to remove impurities and moisture. Further a gas engine facilitates power generation from Bio Gas.

OBSERVATIONS

Following are the steps we observed for the treatment of the sewage water

1. Inlet Chamber

This unit receives sewage from some areas of Pune like Deccan, Shivaji nagar etc.

2. Screen Channel

The function of the bar screen is to prevent entry of solid particles/ articles above a certain size; such as plastic cups, paper dishes, polythene bags, condoms and sanitary napkins into the STP. (If these items are allowed to enter the STP, they clog and damage the STP pumps, and cause stoppage of the plant.) The screening is achieved by placing a screen made out of vertical bars, placed across the sewage flow.

3. Grit Chamber (Mechanically)

4. Grit Chamber (Manual)

Grit chambers are basin to remove the inorganic particles to prevent damage to the pumps, and to prevent their accumulation in sludge digesters. There are two types of Grit chambers: mechanically cleaned and manually cleaned. In mechanically cleaned grit chamber, scraper blades collect the grit settled on the floor of the grit chamber. The grit so collected is elevated to the ground level by



several mechanisms such as bucket elevators, jet pump and air lift. The grit washing mechanisms are also of several designs most of which are agitator devices using either water or air to produce washing action. Manually cleaned grit chambers should be cleaned at least once a week. The simplest method of cleaning is by means of shovel.

5. Combi -treat Unit:

After screening and de-gritting unit, raw sewage enters to Combi -treat Unit where much of the organic matter settles, like it does in a primary clarifier. Proper feeding arrangement of raw sewage into Combi-Treat Unit enables to settle the sludge. Sludge is allowed to settle at bottom of Combi-Treat Unit, which act as Sludge Digester. Draft tube type mixers are provided to mix entire sludge settled at bottom in such a way that settled raw sewage on upper portion of Combi-Treat Unit does not affect. Thorough mixing helps in stable performance of the digestion process and creates a homogeneous environment throughout the digester. It also quickly brings the raw sludge into contact with microorganisms. Furthermore, when stratification is prevented because of mixing, the entire digester is available for active decomposition, thereby, increasing the effective solids retention time (SRT). This Combi-Treat Unit ensures BOD removal efficiency around 35% to 45% Removal of these parameters in Combi-Treat Unit results in less power requirement for balance organic load in the 1-SBR Basins. The supernatant from upper portion of Combi-Treat Unit is allowed to flow over a weir and flows radially outwards into CLSBR Basins.

6. Preliminary Treatment

Preliminary treatment to screen out, grind up, or separate debris is the first step in wastewater treatment. Sticks, rags, large food particles, sand, gravel, toys, etc., are removed at this stage to protect the pumping and other equipment in the treatment plant. Treatment equipment such as bar screens, Comminutors (a large version of a garbage disposal), and grit chambers are used as the wastewater first enters a treatment plant. The collected debris is usually disposed of in a landfill.



7. Primary Treatment

Primary treatment is the second step in treatment and separates suspended solids and greases from wastewater. Waste-water is held in a quiet tank for several hours allowing the particles to settle to the bottom and the greases to float to the top. The solids drawn off the bottom and skimmed off the top receive further treatment as sludge. The clarified wastewater flows on to the next stage of wastewater treatment. Clarifiers and septic tanks are usually used to provide primary treatment.

8. Secondary Treatment

Secondary treatment is a biological treatment process to remove dissolved organic matter from wastewater. Sewage microorganisms are cultivated and added to the wastewater. The microorganisms absorb organic matter from sewage as their food supply. Three approaches are used to accomplish secondary treatment; fixed film, suspended film and lagoon systems.

8.1 Fixed Film Systems

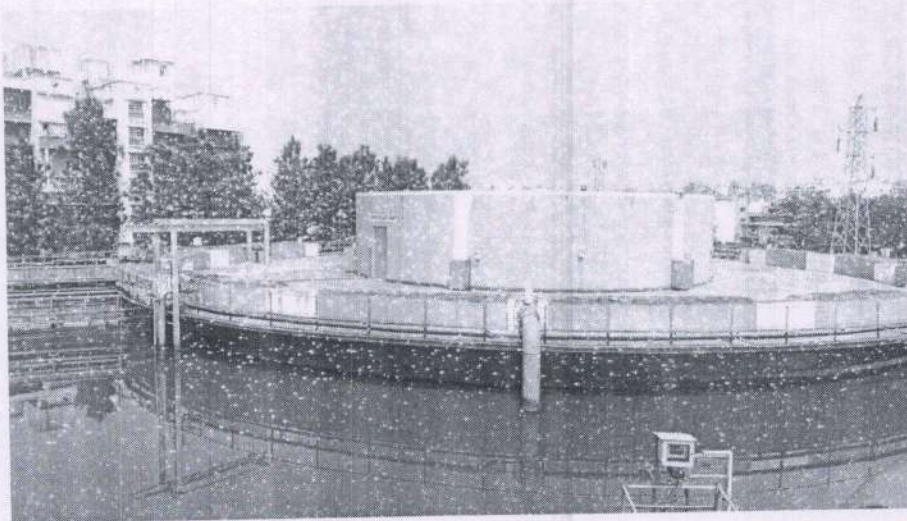
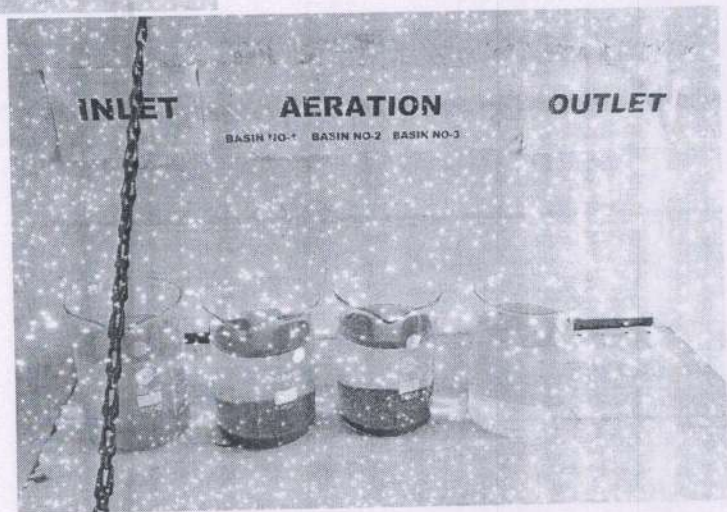
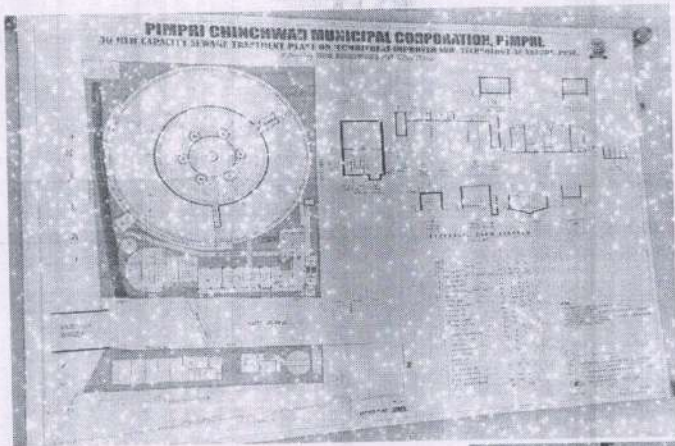
Fixed film systems grow microorganisms on substrates such as rocks, sand or plastic. The wastewater is spread over the substrate, allowing the wastewater to flow past the film of microorganisms fixed to the substrate. As organic matter and nutrients are absorbed from the wastewater, the film of microorganisms grows and thickens. Trickling filters, rotating biological contactors, and sand filters are examples of fixed film systems.

8.2 Suspended Film Systems

Suspended film systems stir and suspend microorganisms in wastewater. As the microorganisms absorb organic matter and nutrients from the wastewater they grow in size and number. After the microorganisms have been suspended in the wastewater for several hours, they are settled out as sludge. Some of the sludge is pumped back into the incoming wastewater to provide "seed" microorganisms. The remainder is wasted and sent on to a sludge treatment process. Activated sludge, extended aeration, oxidation ditch, and sequential batch reactor systems are all examples of suspended film systems.





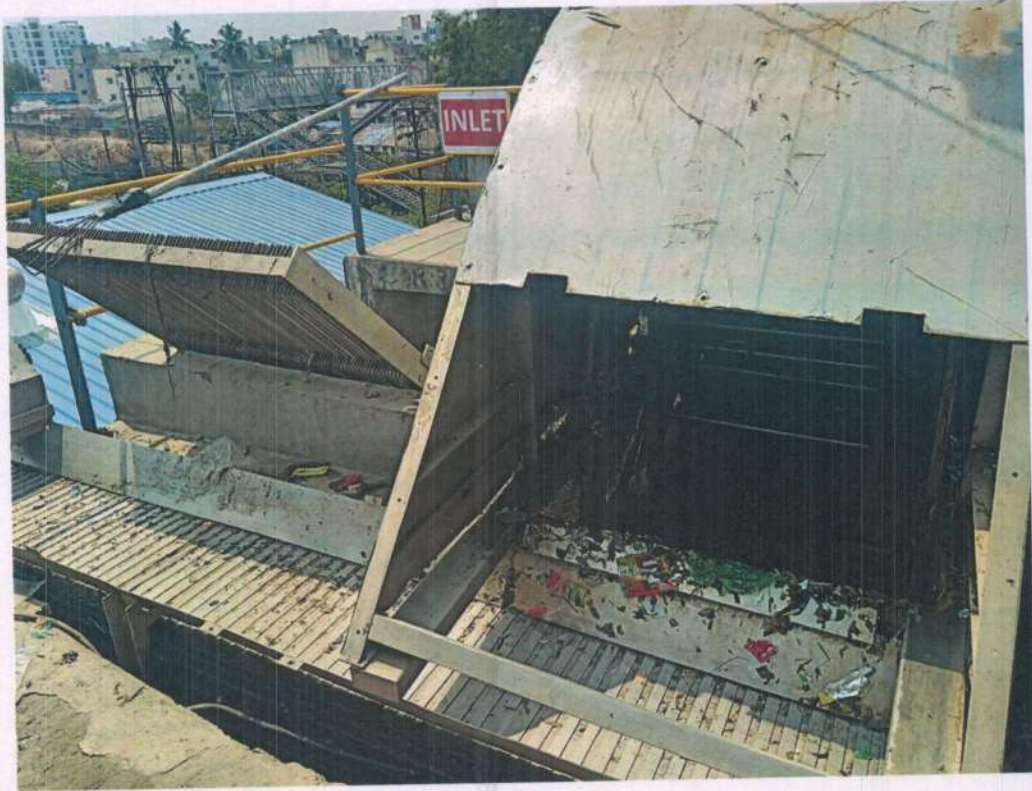


Date

Place - G.S. Moze Balewadi Pune

sign













"Empowerment Through Technological Excellence"
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

(Recognized by AICTE, New Delhi; Approved by Govt. of Maharashtra; Affiliated to Pune University)

25/1/3, Balewadi, Pune - 411045. Ph: 020-27390500

Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in

Department Of Civil Engineering

Ref No. GSMOZE/2022/ADMIN/125

Date 12/04/22

To

Executive Engineer

Engineering Department
Pimpri chinchwad Municipal Corporation
Pune: 411018

Subject: Letter of thanks for permission & guidance

Respected Sir,

The GENBA SOPANRAO MOZE TRUST is an educational trust; a pioneer in imparting quality professional's education in field of Engineering. It has established two campuses in Pune at Wagholi & Balewadi.

We department of Civil Engineering of Genba Sopanrao Moze College of Engineering, Balewadi, Pune, would sincerely thank for allowing and guiding our TE Civil students at your STP Site. Our TE students want to thank you again for giving the opportunity to study and understand the actual design considerations at site. We really appreciate the time spend with our students and information shared by you.

Thanking you,

Prof. Poonam Nandihalli

Subject Incharge

Prof. Seema Shiyekar

HOD

Dr. Ratnaraja Kumar Jambi

Principal



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(Recognized by AICTE, New Delhi; Approved by Govt. of Maharashtra; Affiliated to
25/1/3, Balewadi, Pune – 411045, Ph: 020-27390500
Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in)

Department of Civil Engineering

Date: - 10/04/2022

NOTICE

It is to inform all **Third Year Civil Engineering** Students that a site visit for Solid Waste Management subject has been arranged on 12/04/2022 at Moshi Landfill. Attendance is mandatory to all the students. Amount of Rs 100 will be collected from each student for the same. Transaction Details will be shared on the official group shortly.

Prof. Sneha Palled K

Subject Teacher

Prof. Seema Shiyekar

H.O.D

Head of the Department,
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411 045.





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S. No. 25/1/3, Balewadi, Pune – 411 045

(Approved by AICTE and Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University)

DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph: 020-27390500 Website: www.gsmozecoe.org Email: gsmoze@yahoo.co.in

Founder President: Shri Rambhau Moze

Date:29/08/2018

To,
Executive Engineer,
Environmental Engineering department
Pcmc ,Pune-06

Letter of thanks

Respected Sir,

The Genba Sopanrao Moze trust is an educational trust, a pioneer in imparting quality professional's education in field of Engineering. It has established two campuses in Pune at Wagholi & Balewadi.

We Department of Civil Engineering of Genba Sopanrao Moze College of Engineering, Balewadi, Pune, would sincerely thank you for giving us permission to visit your Moshi Landfill. We really appreciate the time spent with our students and information shared by you. We hope our students received precious knowledge which will definitely help them in their Curriculum.

Thanking you.

Yours Regards,

Prof. Sneha Palled K.

(Faculty coordinator)

Prof.seema Shiyekar

Hod
Head of the Department
CIVIL ENGINEERING

Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045

Dr.Ratnaraja kumar Jambi

(GSMCOE,Balewadi)

PRINCIPAL

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045





"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

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DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph. : 020-27390500 Website : www.gsmozece.org Email : gsmoze@yahoo.co.in

Founder President : Shri. Rambhau Moze

Ref. No. : GSMCOE / 2022 / ADMIN / 222

Date : 11/04/2022

To
Executive Engineer,
Environment Engineering Department,
Pimpri Chinchwad Municipal Corporation, Pimpri,
Pune- 411018.

Subject: Regarding Permission for Site Visit to Moshi Landfill, Pune.

Respected Sir,

We are one of the reputed institutes offering various technical degree courses approved by AICTE Delhi, Govt. of Maharashtra, DTE and affiliated to Savitribai Phule Pune University (SPPU).

With reference to above mentioned subject as per the course curriculum for the subject **Solid Waste Management** of Third year student of Civil Engineering Department, we would like to arrange a site visit to Moshi Landfill for the same.

It's a kind request to grant us permission to visit the site along with the students and 2 faculty members on 12/04/2022. We will be thankful if you do the needful and allow us In-charge person so that he can explain the details about site.

Thanking you.

Prof. Sneha Palled K

Subject Incharge

(9742038458)

Prof. Seema Shiyekar

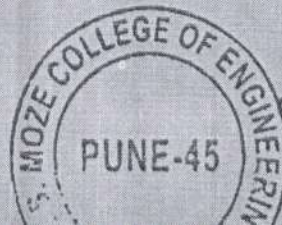
H.O.D

Dr. Ratnaraja Kumar Jambi

Principal

PRINCIPAL

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045



Genba Sopanrao Moze College of Engineering, Balewadi, Pune.



Report of Site Visit to Moshi Landfill, Pune.



Prof. Sneha Palled K

Subject In charge

Prof. Seema Shiyekar

H.O.D



Head of the Department,
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering,
Balewadi, Pune-411 005.

Report of Site Visit to Moshi Landfill,Pune.

Organized by : Civil Engineering Department,GSMCOE,Balewadi.

Co-ordinator: Prof. Sneha Palled K

Date:12/04/2022

Place: Disposal site , Moshi ,Pune.

Time:11:00 A.M



Purpose of Visit

Main purpose of visit was to bridge the gap between the syllabus and reality , i.e to achieve the practical knowledge about the solid waste management, to understand in detail the various aspects involved in solid waste management, its process and live demonstrations .Showcase the problems what is faced in site and by visiting the site it self we get to know the severity of the waste generated on regular basis.

Solid Waste Management at Site

- Collection of Municipal solid waste :
In Moshi Composting plant , all Municipal waste from pimpri ,Pune was collected here by the specially design vehicle.
- Segregation of Waste:
Initially Municipal Waste was received from the trucks followed by hand picking and sorting for plastic wastes ,later this waste was carried on to conveyor belts to take out metal belongings ,the metals get



attached to belt and rest is segregated ,after this waste is confined by composting. different composting methods are used, one of them was vermicomposting and Windrow with length 60 m were used and was

left for Composting for volume reduction ,after few days the composted waste is passed through screens and the particles with large size go back for composting or mechanically they are resized to smaller fragments and dispatched .

- Landfill : In order to keep as much material out of the landfill as possible, its important for us to go through 3 R s of Management i.e Reduce, Reuse and Recycle ,but even with this concept we still produce tons and tons of waste so landfill is to dump garbage and other disposable materials after all the above process.

Material Recovery Facility Plant

Capacity =1000TPD

Received MSW segregated with help of MRF Plant

Below 60 mm fraction used for composting and more then 60 mm is considered as a RDF (Refuse Derived Fuel).

RDF use for burning purpose in the cement plant and power plant (Waste to Energy) for Power Generation

Outcome of the Site Visit:

On 12/04/2022 at 11:00A.M. We reached at Mechanical Composting Plant in Moshi,pune.The Visit Started with guide explaining complete layout of site with layout plan, there after we are taken to collection point and we were shown with different segregation units,long length Windrows, Different Belts ,Screens and incineration unit.so we understood the process of live Operating Modules of Solid Waste Management in Detail.

Conclusion

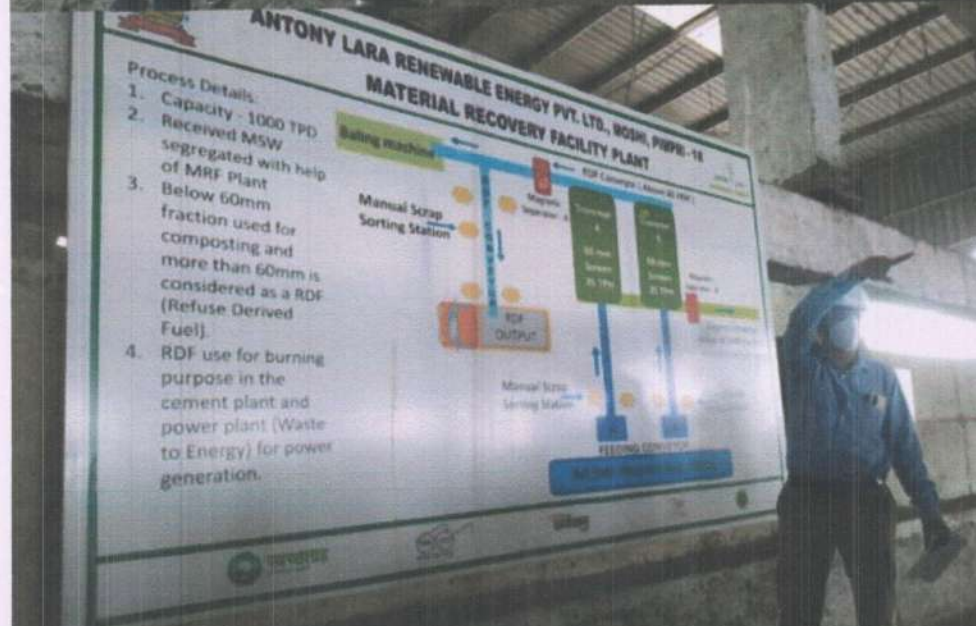
From this visit we got to know the gap between the syllabus and in site reality , i.e we got the practical knowledge about the solid waste management, understood in detail the various aspects involved in solid waste management, its process and live demonstrations .Challenges faced in site and by visiting the site it self we got to know the severity of the waste generated on regular basis and how if we take action personally /single house to change our attitude towards waste it can effect the society and waste generation in large scales.



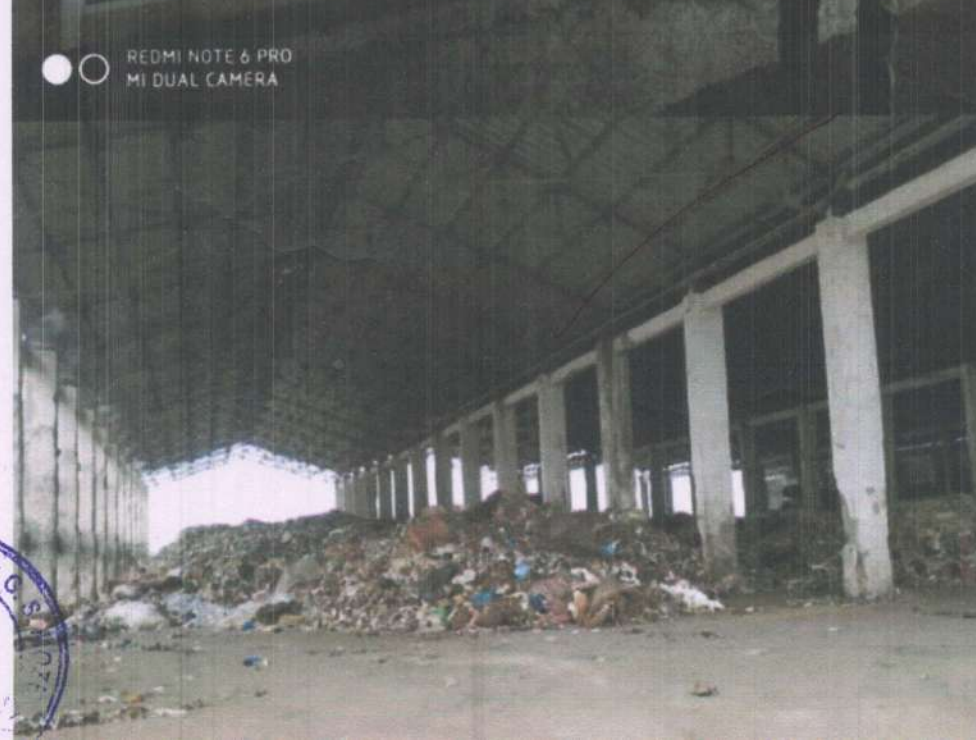




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Website: www.gsmozecoe.org

Email: gsmoze@yahoo.co.in

Founder President: Shri Rambhau Moze

Ref: GSMCOE / ADMIN / 2022 / 225 A

Date: 12/04/2022

To

Executive Engineer,
Environment Engineering Department,
Pimpri Chinchwad Municipal Corporation, Pimpri,
Pune- 411018.

Subject: Letter of thanks for permission & guidance for Solid Waste Mangement at Moshi
Landfill.

Respected Sir,

The GENBA SOPANRAO MOZE TRUST is an educational trust, a pioneer in imparting quality professional's education in field of Engineering. It has established two campuses in Pune at Wagholi & Balewadi.

We department of Civil Engineering at Genba Sopanrao Moze College of Engineering, Balewadi, Pune, would sincerely thank for allowing and guiding our TE Civil students at **Moshi Landfill**. Our TE students want to thank you again for giving the opportunity to study and understand the actual design considerations at site. We really appreciate the time spend with our students and information shared by you.

We hope our students received precious knowledge in Solid Waste Mangement from the organization. Thanking you.


Prof. Sneha Palled K

Subject Teacher


Prof. Seema Shiyekar


HOD

Head of the Department,

CIVIL ENGINEERING

Genba Sopanrao Moze College of Engineering

25/1/3, Balewadi, Pune-411 045.


Dr. Ratna Raja Kumar Jambhi

Principal

PRINCIPAL

Genba Sopanrao Moze College of Engg

25/1/3, Balewadi, PUNE-411 045





G S MOZE COLLEGE OF ENGINEERING

Department of Civil Engineering

Roll call list

Class TE A A.Y. 2021-22

Moshi Land Fill Site Visit Attendance

Course -Solid Waste Management

Date- 12/04/2022

Roll No	Name of Student	Sign
TE A 1	SURYAWANSHI ABHISHEK BHANUDAS	
TE A 2	SURYAWANSHI RUSHIKESH RAJENDRA	
TE A 3	SANDEEP NEBBOOLAL PRAJAPATI	
TE A 4	CHAVAN RUTVI PRADEEP	
TE A 5	PHADE SHUBHAM KRUSHNAJI	
TE A 6	BHANGE SAIPRASAD SANJAY	
TE A 7	DHANGEKAR ABHISHEK MAHADEV	
TE A 8	GAURAV TAPKIR	
TE A 9	ALKUNTE PRATIK SHANKAR	
TE A 10	ANDHALE PRUTHVIRAJ YUVRAJ	
TE A 11	ANIKET UDDHAV MANDHARE	
TE A 12	ANIMESH SANJAY NAGWANSHI	
TE A 13	BACHCHE SHAILESH VASANT	
TE A 14	BARKULE SHUBHAM CHANDRAKANT	
TE A 15	BHAGWAT ADITYA GOPALA	
TE A 16	BHANAWASE SUJIT JOYTIRM	
TE A 17	BHELSAIKAR AJINKYA RAJU	
TE A 18	BIRADAR GAURAV DNYANESHWAR	
TE A 19	CHAUDHARI DHIRAJ POPATRAO	
TE A 20	CHAVAN MANASI VITTHAL	
TE A 21	CHAVAN SANGRAM MANSING	
TE A 22	CHAVAN SURAJ RAMESH	
TE A 23	CHIDLUNKAR SAHIL SANJAY	
TE A 24	DESAI POOJA DINKAR	
TE A 25	DUBALE ATHARV HANUMANT	
TE A 26	DUDHAL SHUBHAM SANJAY	
TE A 27	GADEKAR SHRADDHA GAJANAN	
TE A 28	GAIKWAD NIKHIL VISHNU	
TE A 29	GANDHARE JANHAVI AJAY	
TE A 30	GHOHARE REVANSIDDHA NAMDEV	
TE A 31	GODAGE SAMEER SURESH	
TE A 32	GOLE SANJAY BABURAO	
TE A 33	GUNJAL SHIVRAJ BRAMANAND	
TE A 34	HAWALDAR SANKET BALKRUSHNA	
TE A 35	INDRALE PRITI ASHOKRAO	
TE A 36	ITKALE SHUBHAM DILIP	
TE A 37	JADHAV NIKHIL SHIVAJI	
TE A 38	JADHAV PRATIK NANDKUMAR	
TE A 39	JADHAV VAIBHAV PRAKASH	
TE A 40	JAGTAP GURUPRASAD AJAY	
TE A 41	JAGTAP SACHIN RAJENDRA	
TE A 42	JAYESH SUDAM SAINDANE	
TE A 43	JOSHI SOHAM SANJOT	

TE A 44	KADAM AKASH BABASAHEB	<i>[Signature]</i>
TE A 45	KADAM AKASH BHAUSAHEB	<i>[Signature]</i>
TE A 46	KADAM GANESH MAHADEV	<i>[Signature]</i>
TE A 47	KALE RUSHIKESH BABASAHEB	<i>[Signature]</i>
TE A 48	KALOKHE SURAJ AVINASH	<i>[Signature]</i>
TE A 49	KAMBLE PRAJAKTA JITENDRA	<i>[Signature]</i>
TE A 50	KAMBLE PRASHIK BHARATBHUSHAN	<i>[Signature]</i>
TE A 51	KHAN HUMA JAVEDKHAN	<i>[Signature]</i>
TE A 52	KHANDARE RAJESHWAR RAMESHRAO	<i>[Signature]</i>
TE A 53	KHARAT AVINASH VINAYAK	<i>[Signature]</i>
TE A 54	KHARAT GANESH ARJUN	<i>[Signature]</i>
TE A 55	KOLEKAR AMOL SURESH	<i>[Signature]</i>
TE A 56	KORKE SAGAR DATTATRAY	<i>[Signature]</i>
TE A 57	KSHIRSAGAR VISHWANATH BHAGWAN	<i>[Signature]</i>
TE A 58	LAKKAM SUDHANSHU SANJAY	<i>[Signature]</i>
TE A 59	MADAKE SAYALI BALU	<i>[Signature]</i>
TE A 60	MAGARE PREETI DATTATRY	<i>[Signature]</i>
TE A 61	MAHALE DEVENDRA SHIRISH	<i>[Signature]</i>
TE A 62	MANE GEETANJALI GHANSHYAM	<i>[Signature]</i>
TE A 63	MANSUTE GAURAV SUDHAKAR	<i>[Signature]</i>
TE A 64	MATERE PRADIP RAMESH	<i>[Signature]</i>
TE A 65	MHALUNGEKAR SAURABH SAMBHAJI	<i>[Signature]</i>
TE A 66	MOHITE PRANAV PRAKASH	<i>[Signature]</i>
TE A 67	MOKASHI SUHEL DAUD	<i>[Signature]</i>
TE A 68	MORE RAHUL VASANT	<i>[Signature]</i>
TE A 69	NAWALI SAGAR VILAS	<i>[Signature]</i>
TE A 70	NIKHIL DATIR	<i>[Signature]</i>
TE A 71	PIMPLE VIKESH MANIK	<i>[Signature]</i>
TE A 72	MESHARAM RAVINDRA	<i>[Signature]</i>
TE A 73	NIKHIL SHIMPI	<i>[Signature]</i>
TE A 74	PRATHMESH KHONDE	<i>[Signature]</i>

[Signature]
Prof. S. Palled
Course Incharge

[Signature]
Prof. Seema Shiyekar
H.O.D



Head of the Department
CIVIL ENGINEERING
Sopanrao Moze College of
25/1/3, Balewadi, Pune-41



G S MOZE COLLEGE OF ENGINEERING

Department of Civil Engineering

Roll Call

Class TE B A.Y. 2021-22

Moshi Land Fill Site Visit Attendance

Course -Solid Waste Management

Date- 12/04/2022

Roll No	Name of Student	Sign
TE B 1	BAWANKAR AMIT DNYANESHWAR	
TE B 2	PAWAR RACHANA NANDRAM	
TE B 3	GADIWADD SWAPNIL TIPANA	
TE B 4	RAYMANE AKASH MACHHINDRANATH	
TE B 5	BIJAWA PRITI RAMDASRAO	
TE B 6	NAKHATE VANITA MARUTI	
TE B 7	JYOTI DNYANESHWAR RAJAPURE	
TE B 8	NEHARKAR DINESH BABASAHEB	
TE B 9	KUMBHAR RAJU ANNA	
TE B 10	KAMBLE RUSHIKESH SUDESHKUMAR	
TE B 11	MORE VANDANA BHAGWANRAO	
TE B 12	CHAVAN AVINASH REVAN	
TE B 13	GIR SWATI KHUSHAL	
TE B 14	DEVAKAR TANAJI TUKARAM	
TE B 15	JADHAV PRATIK RAVINDRA	
TE B 16	GUNDAL CHANDRAKANT RAMDAS	
TE B 17	ADISHERLAWAR VITTHALNATH LAXMANRAO	
TE B 18	ARBUNE VAIBHAV PANDURANG	
TE B 19	BHAGAT RUSHIKESH HARISHCHANDRA	
TE B 20	BHANDARKAR GAURAV RAMLING	
TE B 21	DHADDE OMKAR ASHOK	
TE B 22	DHUMAL DISHA DASHARTH	
TE B 23	GAIKWAD AKSHAY SURESH	
TE B 24	GAVALI SHREYASH JAGDISH	
TE B 25	KADAM ANIKET MALHARI	
TE B 26	KALASKAR AKASH ANNASAHEB	
TE B 27	KAMBLE RUTURAJ DILIP	
TE B 28	KAMBLE VINAY ANIL	
TE B 29	MULE YOGESH SHANKAR	
TE B 30	NAIK OMKAR SANTOSH	
TE B 31	NAVGHARE PRASAD MILIND	
TE B 32	NIKALJE SIDDHARTH SHASHIKANT	
TE B 33	NIKHIL MOHAN GHANEKAR	
TE B 34	OLEKAR PRATIK VIJAY	
TE B 35	ORASE ABHISHEK SHANKAR	
TE B 36	ORSE MUKESH KISAN	
TE B 37	PATIL KIRANRAJ NANA	
TE B 38	PAWALE TUSHAR TUKARAM	
TE B 39	PHARANDE PRASAD GANESH	
TE B 40	POTDAR GAURAV NAGNATH	
TE B 41	RAJE PANKAJ DNYANOBA	
TE B 42	RAJPUT VISHWAJITSING PREMSING	
TE B 43	RANDIVE MANDAR GOKUL	
TE B 44	RANGOJI DIVYA GNYANADEV	
TE B 45	RATHOD ARCHANA SANJAY	
TE B 46	RAUT GANESH ASHOK	



APC/BE 2021-2022/EP/20-

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S. No. 25/1/3, Balewadi, 411 045.

(Approved by AICTE and Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University)

DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph. : 020-27390500 Website : www.gsmozece.org Email : gsmoze@yahoo.co.in

Founder President : Shri. Rambhau Moze

Date : 09/04/2022

Ref. No. :

To
Managing Director
Shri Sant Tukaram Sahakari Sakhar Karkhana
Pune- 412108

Subject: Regarding permission for site visit to **Shri Sant Tukaram Sahakari Sakhar Karkhana**, Kasarsai Pune.

Respected Sir,

We are one of the reputed institutes offering various technical degree courses approved by AICTE Delhi, Govt. of Maharashtra, DTE and affiliated to Savitribai Phule Pune University (SPPU).

With reference to above mentioned subject as per the course curriculum for the subject **Air Pollution & Control** of final year students of Civil Engineering Department, we would like to arrange a site visit to Shri Sant Tukaram Sahakari Sakhar Karkhana.

It's a kind request to grant us permission to visit the site along with 70 students and 2 faculty members on Tuesday 12/04/2022. We will be thankful if you do the needful and allow us In-charge person so that he can explain the details about site.

Thanking you.

Prof. Shalaka Barshetty

Subject Teacher

(9145176665)

Prof. Seema Shiyekar

H.O.D

Head of the Department
CIVIL ENGINEERING

Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045

Dr. Ratna Raja Kumar Jambi

Principal



Site Visit Report

On

Air Pollution and Control

- ✦ **Name of Visit:** - Industrial visit at "Shree Sant Tukaram SakharKarkhana".
- ✦ **Place of visit:** - Kasarsai Mulshi Pune-06
- ✦ **Date of visit:** -12 April,2022.
- ✦ **Subject Teacher:** - Prof. Shalaka Barshetty
 - ✦ plant Guide: - Sir Manoj Naikwade.
 - ✦ Students :80

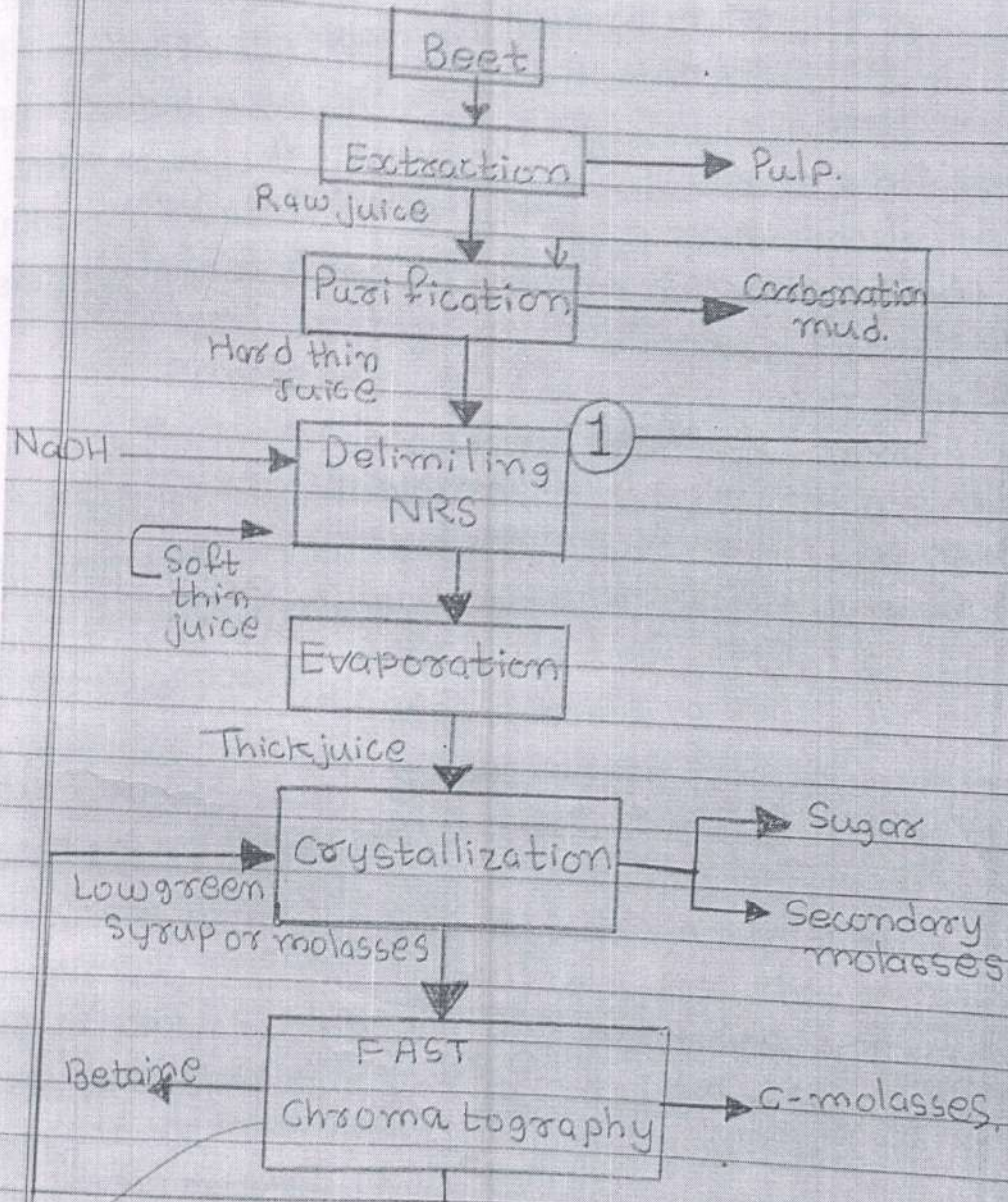
✦ Introduction: -

As a part of syllabus, G.S. Moze College of Engineering student of final year visited the sugar factory. Total 104 students along with 2 faculty members visited the industry.

Sant Tukaram Sakhar Karkhana, Mulshi is the manufacturer of sugar. Student saw the actual production of sugar. Student saw the crushing of sugarcane, how sugarcane juice sent to boiler for further processing, how wastage (Baggers)bis used to produce electricity, how sugar is purified and crystallized. Production manager provided lot of information to student about the same.



• Sugar Production Flow Chart :-



from the plates with the help of comes driving by external means. Care should be taken that the dust collected in the hopper should not be entrained in the clean gas.

2) Advantages: -

1. Electrostatic precipitators (ESP) is also most effective for high dust loaded gas (as high as 100 gm per cu.meter). Its efficiency is as high 99.5%.
2. The drought loss of the separator is the least of all forms.
3. The maintenance charges are less compared to all other separators.
4. Electrostatic precipitators provides ease of operation.
5. The dust or fly –ash is collected in dry form and can be removed either by dry or wet.

3) Disadvantages: -

1. The direct current (DC) is not available with the modern thermal power plants hence considerable electrical equipment is required to convert from AC to DC (60KV DC).
2. The running charges is also high as the amount of power required for charging is considerably high.
3. The space required for electrostatic precipitators is larger hen wet system



✦ Working of cyclone:-

1. The gas steam containing particulate matter enters the cylinder near the top.
2. The gas stream after entering a cyclone moves downwards as a descending outer vertex because of its tangential velocity. The gas stream reaches almost at the bottom of the cone and the it reverses its direction, moving upward as an ascending vertex.
3. The larger and heavier particles while moving downwards along with the spirally moving gas stream experience a centrifugal force , as a result of which they migrate towards the wall
4. Then the particles slide down towards the bottom outlet and the gas leaves the the cyclone through a centrally located outlet at the top

1) Advantages :-

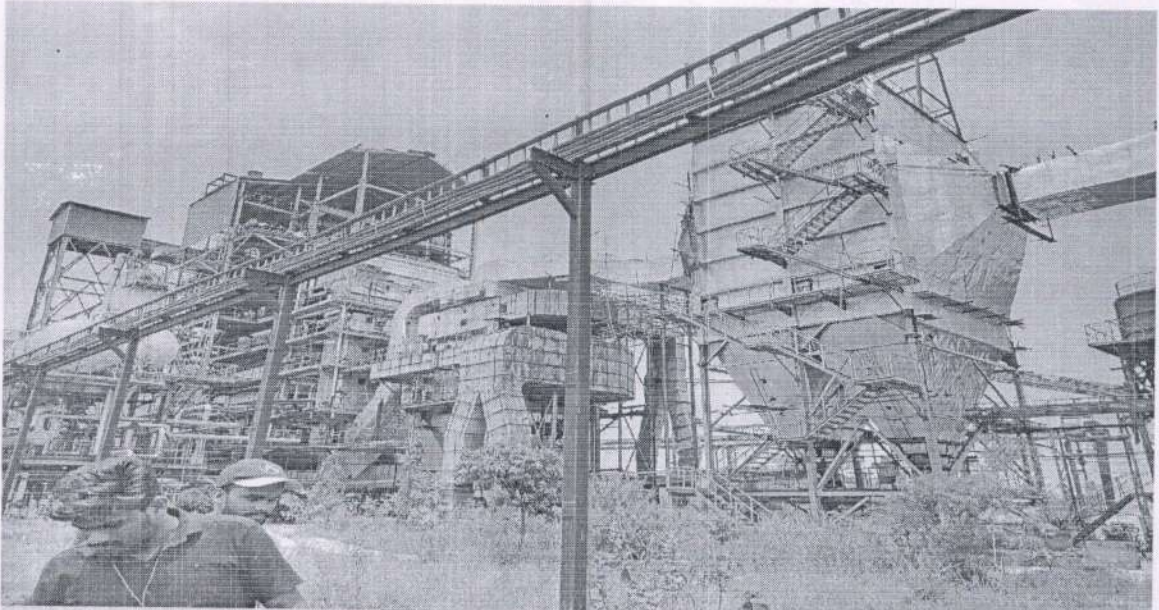
1. Low initial cost .
2. Construction and operation is simple
3. Low maintenance cost is it has no moving parts
4. Low pressure drop
5. Dry and continuous disposal of solid particulates
6. Cyclones can be constructed of any material which will satisfy the temperature and pressure requirement





8
18/01/2022







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DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph. : 020-27390500 Website : www.gsmozecoe.org Email : gsmoze@yahoo.co.in

Founder President : Shri. Rambhau Moze

Ref. No. :

Date : 12/04/2022

To

The Director,

Shri Sant Tukaram Sahakari Sakhar Karkhana,

Kasarsai.


Subject: Letter of thanks for permission & guidance for Sugar Factory & Air pollution control devices.

Respected Sir,

The GENBA SOPANRAO MOZE TRUST is an educational trust, a pioneer in imparting quality professional's education in field of Engineering. It has established two campuses in Pune at Wagholi & Balewadi.


We department of Civil Engineering o Genba Sopanrao Moze College of Engineering, Balewadi, Pune, would sincerely thank for allowing and guiding our BE Civil students at **Shri Sant Tukaram Sugar factory** . Our BE students want to thank you again for giving the opportunity to study and understand the actual design considerations at site. We really appreciate the time spend with our students and information shared by you.

We hope our students received precious knowledge in Air pollution control devices from you. Thanking you.

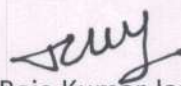

Prof. Shalaka Barshetty

Subject Teacher




Prof. Seema Shiyekar
Head of the Department
CIVIL ENGINEERING
HOD

Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045


Dr. Ratna Raja Kumar Jambi

PRINCIPAL

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045

"Create Competent Socially Responsible Civil Engineers"

GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

Balewadi, Pune - 411045

Civil Engineering Department

A.Y. 2021-22

Site Visit Attendance

Class : BE A

Roll No	Student Name	Sign
A1	ALAPURE ROHAN KESHAVRAO	Rohan.
A2	BHOSALE TEJAS R	Tejas.
A3	GHUNGRAD SHRINIVAS BHUJANGRAO	gh.
A4	JADHAV SURAJ SUBHASH	-
A5	KHOD JAGDISH BABAN	khod
A6	KULKARNI MANALI M.	-
A7	SHARMA JITENDRA VIJAY	vijay
A8	SUTAR SOPAN VAJINATH	sutar
A9	THAKARE KRUSHNA CHANDRAKANT	-
A10	TONDE ROHIT BALASAHEB	Tonde
A11	WAKADE MAHESH BHAUSAHEB	wakade
A12	SIDDHI LONDHE	siddhi
A13	ADASARE RISHIKESH VIKAS	vikas
A14	AKULWAD AKASH PANDITRAO	akash
A15	ANDHALE VISHWAJEET GAJANAN	-
A16	BAMANE SHRIKANT VIJAY	vijay
A17	BANGI Aaftab Rafique	-
A18	BANKAR SHUBHAM KONDIBA	Bankar
A19	BHINGARE SURAJ SUNIL	-
A20	BHOKARE PRAFUL ASHOK	ashok
A21	BHOSALE ANIKET RAMESH	Ramesh
A22	BHOSALE CHATURBUJ VAMAN	-
A23	BIRADAR SHUBHAM BALAJI R	RB
A24	BIRAJDAR SHREYAS GIRIDHAR	Birajdar
A25	BIRAMBOLE SWATI DEELIP	swati
A26	BORDE POOJAN RAMESH	-
A27	BULBULE MANGESH MAHARUDRA	-
A28	CHOUDHARI BALAJI BAPPASAHEB	-
A29	CHOUDHARI SHAILESH RAVI	shesh
A30	DADAR DIGVIJAY ASHOK	ashok
A31	DAGADE TEJAS TANAJI	Tanaji
A32	DESHMUKH BHARATBHUSHAN DASRAO	-
A33	DESHMUKH PRAFULLA SUDAMRAO	-
A34	DESHPANDE YASH MILIND	yash
A35	DESLE PRANALI DHARMA	dharma
A36	DHANKUDE KARAN MADHUKAR	—
A37	VALMIKI SURYAKANT DHANRAJ	—
A38	DHARME VITTHAL BIRMAL	—



A39	DHERANGE BHUSHAN ROHIDAS	—
A40	DHUMAL DIKSHANTI VIJAYKUMAR	Ebtias
A41	DHUMAL SHEFALI VIJAYKUMAR	Shefali
A42	DIGHE RUPESH KISAN	Kisan
A43	DOLAS AKASH RAVIDRA	—
A44	GAIKWAD AKASH RAJENDRA	gaikwad
A45	GAIKWAD DHANASH JAGANNATH	ganu
A46	GAIKWAD RAJESH TUKARAM	Tukar
A47	GANGURDE VISHAL BHAGWAN	—
A48	GHUGE LAXMAN BHIMA	Bhimg
A49	GOLHAR SWATI RAJENDRA	swati
A50	GORE PRAJWAL SANJAY	sanjay
A51	ISHWARKATTI PRADIP ADAVYAPPA	Pradip
A52	JADHAV EKLAVYA YOGESH	Yogesh
A53	JADHAV RUSHIKESH RAMESH	Ram
A54	JADHAV SWAPNIL GANESH	swan
A55	JAGTAP ANIKET KAILAS	keiler
A56	JAWALE PRAVIN OMKAR	omkar
A57	KACHHAWA DEVENDRASINGH VIJAYSINGH	dev.
A58	KADU JITENDRA PANDITRAO	Panditrao
A59	KAMBLE PRASHANT RAHUL	Rahul
A60	KAMBLE ROHAN VIJAY	Vijay
A61	KANDEKAR KAUSHIK CHANDRAKANT	—
A62	KARANDE JAYESH SAKHARAM	—
A63	KATKAR ROHAN SANJAY	—
A64	KAWALE ANIKET PRAMOD	Pramod
A65	KAYASTH SONIYA HEMANT	—
A66	KHOND SANKET DATTA	Datta
A67	KUTE OMKAR SUNIL	Sunil
A68	NAGDIWE ASHUTOSH	—
A69	RATHOD AJAY	ashu.
A70	ISHWAR KHAJURE	—
A71	AKSHAY CHAUDHARI	—
A72	SURWASE VIDYASAGAR	—
A73	NIKHIL WALANJ	—
A74	SHUBHAM VINAYAK PATIL	—
A75	NAIKWADE DHANANJAY	—
A76	VISHAL DYANESHWAR PATIL	naib
A77	SONTAKKE SHRIKANT SHRIMANI	Patil
A78	KSHIRSAGAR AKSHAY ANIL	sh.
A79	GHANERI SHIVAN SUNIL	—
A80	GAIKWAD LAHU DHARMRAJ	—
A 81	KADAM RAVIRAJ DADASO	Sunde
A82	KOKATE PRASAD NAGORAO	dadaso

Prof. Shalaka Barshetty
Faculty Incharge

Prof. Seema Shiyekar
HOD
Head of the Department
CIVIL ENGINEERING

Genba Sopanrao Moza College of Engineering
25/1/3, Balewadi, Pune-411045





G. S. Moze College of Engineering, Balewadi
Civil Engineering Department
Academic Year 2021-22

Site Visit Attendance

Course -DHS

Date- 12/04/2022

Roll No	Student Name	Sign
A1	ALAPURE ROHAN KESHAVRAO	
A2	BHOSALE TEJAS R	
A3	GHUNGRAD SHRINIVAS BHUJANGRAO	
A4	JADHAV SURAJ SUBHASH	
A5	KHOD JAGDISH BABAN	
A6	KULKARNI MANALI M.	
A7	SHARMA JITENDRA VIJAY	
A8	SUTAR SOPAN VAJJINATH	
A9	THAKARE KRUSHNA CHANDRAKANT	
A10	TONDE ROHIT BALASAHEB	
A11	WAKADE MAHESH BHAUSAHEB	
A12	SIDDDHI LONDHE	
A13	ADASARE RISHIKESH VIKAS	
A14	AKULWAD AKASH PANDITRAO	
A15	ANDHALE VISHWAJEET GAJANAN	
A16	BAMANE SHRIKANT VIJAY	
A17	BANGI AAFTAB RAFIQUE	
A18	BANKAR SHUBHAM KONDIBA	
A19	BHINGARE SURAJ SUNIL	
A20	BHOKARE PRAFUL ASHOK	
A21	BHOSALE ANIKET RAMESH	
A22	BHOSALE CHATURBHUI VAMAN	
A23	BIRADAR SHUBHAM BALAJI R	
A24	BIRAJDAR SHREYAS GIRIDHAR	
A25	BIRAMBOLE SWATI DEELIP	
A26	BORDE POOJAN RAMESH	
A27	BULBULE MANGESH MAHARUDRA	
A28	CHODHARI BALAJI BAPPASAHEB	
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A30	DADAR DIGVIJAY ASHOK	
A31	DAGADE TEJAS TANAJI	
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A34	DESHPANDE YASH MILIND	
A35	DESLE PRANALI DHARMA	
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A37	VALMIKI SURYAKANT DHANRAJ	
A38	DHARME VITTHAL BIRMAL	
A39	DHERANGE BHUSHAN ROHIDAS	
A40	DHUMAL DIKSHANTI VIJAYKUMAR	
A41	DHUMAL SHEFALI VIJAYKUMAR	
A42	DIGHE RUPESH KISAN	
A43	DOLAS AKASH RAVIDRA	
A44	GAIKWAD AKASH RAJENDRA	



B 40	SHAIKH SAMEER LALSAB (W)	sameer
B 41	SHARMA DEEPAK VIRENDRA	deepak
B 42	SHARMA SUBODH GANESH	—
B 43	SHERIKAR VAISHALI SUBHASH	—
B 44	SHINDE KISHOR DATTATRAY	—
B 45	SHINDE PALLAVI	—
B 46	SHINDE PANDURANG PRALHAD	Pallavi
B 47	SHIROTE SONHIRA SIDDHAPPA	Pralhad
B 48	SONTAKKE VRUSHALI SATISH	shirte
B 49	SUL SNEHA ASHOKE	sn
B 50	SUTAR JAYESH RAJENDRA	—
B 51	SUTAR MAYURESH SURESH	sneha
B 52	TARGUDE VISHAL VENKATRAO	—
B 53	THORAT AISHWARYA SURESH	—
B 54	THORAT TUSHAR VINAYAK	vishal
B 55	TIKORE VAIBHAV DAS	—
B 56	UCHEKAR PRADNYA GOVINDRAO	vtu
B 57	UKEY VAISHALI GONDU	leou
B 58	WAGHMARE ANIKET ANURATH	aniket
B 59	YADAV AKSHAYA JAYWANT	—
B 60	YADAV PRATIK MADHUKAR	Aniket
B 61	TANPURE NIKITA ARUN	—
B 62	PATIL ROHIT ANIL	ateen
B 63	YADAV GAURAV PRAVIN	nik
B 64	VISHAKHA MIRASHI	Rohi
B 65	PAWAR GAURAV	—
B 66	SNEHAL BIDAVE	—
B 67	KAMTHEKAR VIJAY	—
B 68	KHEDKAR SHUBHAM DIPAK	vijay
B 69	AMBORE AKSHAY MANIKRAO	—
B 70	JADHAV NIKHIL PRADEEP	—
B 71	JADHAV KIRAN DATTATRAY	—
B 72	BOBADE AKSHAY ANANT	kiran
B 73	DANGE OMKAR	akshay
B 74	GAIKWAD SHUBHAM	omkar
B 75	VAIBHAV ANIL BORADE	shubham
B 76	BIRAJDAR AKASH BHIMRAO	anil
B 77	PRADNYESH SHITOLE	—
B 78	AISHVARYA DESHMUKH	shitole
B 79	BALAJI SHINDE	—
B 80	AKSHAY PARDESHI	shinde
B 81	AKSHAY BANKAR	—
B 82	SAGAR TAKLE	—

Shalaka
Prof. Shalaka Barshetty
Faculty Incharge

Seema
Prof. Seema Shiyekar
HOD

Head of the Department
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045





“EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE”
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25/1/3, Balewadi, Pune – 411045. Ph: 020-27390500

Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in

DEPARTMENT OF CIVIL ENGINEERING

SITE VISIT NOTICE

Date: - 10 April 2022

All the students of TE Civil Engineering are hereby informed that the department is planning for DRCS site visit on 13th April 2022. All students are instructed to attend the visit in proper dress code.

(Prof. Vinayak Kulkarni)
Subject Teacher

(Prof. Seema Shiyekar)
HOD





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GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

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25/1/3, Balewadi, Pune – 411045. Ph: 020-27390500

Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in

Department Of Civil Engineering

DATE: 08/04/2022

To

The Principal

GSMCOE Balewadi

Pune

Subject: Request to grant the permission for Design of RC structure site visit at Balewadi.

Respected Sir,


We need to arrange the visit as per the course curriculum for the subject **Design of RC structure** for Third Year students of Civil Engineering Dept.


We are arranging the site visit for TE Civil A & B division between 11/04/22 13/04/22.

It's a kind request to grant us permission for the same along with 146 students and 2 faculty member to visit the site.

Thanking You

Faculty

Prof. Vinayak Kulkarni 

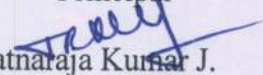
Prof. Shilpa Mahajan 


H.O.D.

Prof. S S Shiyekar
Head of the Department
CIVIL ENGINEERING

Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045

Principal

Dr. Ratnaraja Kumar J. 

PRINCIPAL

Genba Sopanrao Moze College of Engg
25/1/3, Balewadi, PUNE-411 045





"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

S. No. 25/1/3, Balewadi, Pune - 411 045
(Approved by AICTE and Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University)
DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999
Ph. 020-27390500 Website www.gsmozecoe.org Email gsmoze@yahoo.co.in
Founder President Shri Rambhau Moze

Ref. No.

Date

To,
Project Manager,
SR builders,
Balewadi, Pune

Subject: Regarding permission to site under Construction

Respected Sir,

We introduce ourselves as G. S. Moze College of engineering Balewadi is affiliated to University of Pune and approved by AICTE New Delhi. The college runs five UG program including Civil Engineering.

There would be a total of 120 students accompanied by 01 faculty members are interested to Visit site under Construction your as a part of TE SPPU Syllabus in design of reinforced concrete structure Subject. The visit is aimed at enhancing their Practical knowledge. We intend to take a round of the entire Construction. I assure you that no nuisance will be created and the visit will be carried out with proper discipline. I hope you will give us permission to visit the same.

We are expecting visit on date (13/04/22)

Looking forward for your positive consent in this regard.

Thanking you.

Prof.V.B.Kulkarni
(Faculty coordinator)

Prof. Seema Shiyekar
Head of the Department
Civil Engineering

Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045

Dr.Ratnaraja Kumar Jambi
Principal

PRINCIPAL

Genba Sopanrao Moze College of Engineering





“EMPOWERMENT TO THROUGHT TO TECHNOLOGICAL EXCELLENCE”
Genba Sopanrao Moze Trust's
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING
S. No. 25/1/3, Balewadi, Pune – 411 045

Date: 08/04/2022

To
Project Manager,
S R Builders,
Balewadi-Pune

Subject: Regarding visit to site under construction.

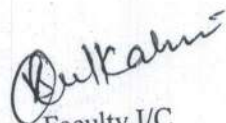
Respected Sir/Ma'am,


We are one of the reputed institutes offering various Technical Degree, Diploma and Post Graduate Courses, approved by AICTE Delhi, Govt. of Maharashtra, DTE and affiliated to Savitribai Phule Pune University (SPPU).

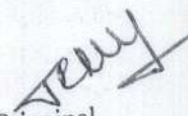
With reference to above mentioned subject, as per the course curriculum for the subject **Design of RC Structures** of third year Civil Engineering students, we would like to arrange a visit to site under construction to know design and detailing of structural elements as well as to observe the reinforcement of various elements at different sections.

It's a kind request to grant us permission for the same along with students and faculties on any working day as per your convenience (tentatively between 11 to 13 April 2022). We will be thankful if you do the needful and allot us in-charge person who will explain us in detail the information.

Thank you in advance.


Faculty I/C
Prof. V B Kulkarni
(7721085110)


H.O.D.
Prof. Shima S Shiyekar


Principal
Dr. RatnaRaja Kumar J
PRINCIPAL
Genba Sopanrao Moze College of E
25/1/3, Balewadi, PUNE-411 045





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Ph: 020-27390500

Website: www.gsmozecoe.org

Email: gsmoze@yahoo.co.in

Founder President: Shri Rambhau Moze

Date:08/04/2022

To,
Project Manager
SR Builders
Balewadi-Pune-06

Letter of thanks

Respected Sir,

The Genba Sopanrao Moze trust is an educational trust, a pioneer in imparting quality professional's education in field of Engineering. It has established two campuses in Pune at Wagholi & Balewadi.

We Department of Civil Engineering of Genba Sopanrao Moze College of Engineering, Balewadi, Pune, would sincerely thank you for giving us permission to visit Design of RC structure. We really appreciate the time spent with our students and information shared by you. We hope our students received precious knowledge which will definitely help them in their Curriculum.

Thanking you.

Yours Regards,

Prof. V.B.Kulkarni
(Faculty coordinator)

Prof. Seema Shiyekar
Head of the Department
CIVIL ENGINEERING

Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045

Dr. Ratnaraja Kumar Jambi
(GSMCOE, Balewadi)

PRINCIPAL

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045





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Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in

Department Of Civil Engineering

SITE VISIT REPORT

SUBJECT: DESIGN OF RC STRUCTURES

NAME & ADDRESS: ‘

DAY & DATE :-Wednesday & 13-04-2022

OBJECTIVE: STUDY OF REINFORCEMENT DETAILS IN RC STRUCTURE.

GUIDED BY: Asst. Prof. Vinayak Kulkarni

EXPERTS FROM SITE: Project Manager –Mr. Bhagwan

Number of students present- 120

Number of faculties - 01

Overview:

The visit for RCC framed structure at Balewadi for TE civil A & B division was arranged with reference to subject mentioned as per the SPPU course curriculum. Site is under construction and the aim of visit is to study the reinforcement detailing of columns, beams, stair and slabs. The structure is having total 15 floors (B+G+13). All the students were able to see the different types of slabs like one way, two way and cantilever slabs. The structure is on hard strata having $SBC = 400kN/m^2$.

Observations at site:

Students have observed reinforcements placement and the direction how these are placed in different types of slabs. Students have observed the reinforcements placements for beams, columns and stair. Mr. Bhagwan has explained the bar bending schedule for all elements using the drawings. He has shown different diameter bars used in slabs, beams and columns. In slabs 8mm and 10 mm dia. bars, in beams 10mm, 12mm and 16 mm dia. bars and in columns 16 mm dia. bars are used. The grade of concrete upto 8th floor is M30 and above 8th floor grade of concrete is M25. For foundation, raft and stair M25 grade of concrete is used. Clear cover for concrete to main reinforcements was, for slabs 15mm, beams 25mm and columns 40mm.



Sl. No.	Particulars	Quantity	Rate	Amount
1	1000 x 1000 mm	1.00	1000.00	1000.00
2	1000 x 1200 mm	1.00	1200.00	1200.00
3	1000 x 1500 mm	1.00	1500.00	1500.00
4	1000 x 1800 mm	1.00	1800.00	1800.00
5	1000 x 2100 mm	1.00	2100.00	2100.00
6	1000 x 2400 mm	1.00	2400.00	2400.00
7	1000 x 2700 mm	1.00	2700.00	2700.00
8	1000 x 3000 mm	1.00	3000.00	3000.00
9	1000 x 3300 mm	1.00	3300.00	3300.00
10	1000 x 3600 mm	1.00	3600.00	3600.00
11	1000 x 3900 mm	1.00	3900.00	3900.00
12	1000 x 4200 mm	1.00	4200.00	4200.00
13	1000 x 4500 mm	1.00	4500.00	4500.00
14	1000 x 4800 mm	1.00	4800.00	4800.00
15	1000 x 5100 mm	1.00	5100.00	5100.00
16	1000 x 5400 mm	1.00	5400.00	5400.00
17	1000 x 5700 mm	1.00	5700.00	5700.00
18	1000 x 6000 mm	1.00	6000.00	6000.00
19	1000 x 6300 mm	1.00	6300.00	6300.00
20	1000 x 6600 mm	1.00	6600.00	6600.00
21	1000 x 6900 mm	1.00	6900.00	6900.00
22	1000 x 7200 mm	1.00	7200.00	7200.00
23	1000 x 7500 mm	1.00	7500.00	7500.00
24	1000 x 7800 mm	1.00	7800.00	7800.00
25	1000 x 8100 mm	1.00	8100.00	8100.00
26	1000 x 8400 mm	1.00	8400.00	8400.00
27	1000 x 8700 mm	1.00	8700.00	8700.00
28	1000 x 9000 mm	1.00	9000.00	9000.00
29	1000 x 9300 mm	1.00	9300.00	9300.00
30	1000 x 9600 mm	1.00	9600.00	9600.00
31	1000 x 9900 mm	1.00	9900.00	9900.00
32	1000 x 10200 mm	1.00	10200.00	10200.00
33	1000 x 10500 mm	1.00	10500.00	10500.00
34	1000 x 10800 mm	1.00	10800.00	10800.00
35	1000 x 11100 mm	1.00	11100.00	11100.00
36	1000 x 11400 mm	1.00	11400.00	11400.00
37	1000 x 11700 mm	1.00	11700.00	11700.00
38	1000 x 12000 mm	1.00	12000.00	12000.00
39	1000 x 12300 mm	1.00	12300.00	12300.00
40	1000 x 12600 mm	1.00	12600.00	12600.00
41	1000 x 12900 mm	1.00	12900.00	12900.00
42	1000 x 13200 mm	1.00	13200.00	13200.00
43	1000 x 13500 mm	1.00	13500.00	13500.00
44	1000 x 13800 mm	1.00	13800.00	13800.00
45	1000 x 14100 mm	1.00	14100.00	14100.00
46	1000 x 14400 mm	1.00	14400.00	14400.00
47	1000 x 14700 mm	1.00	14700.00	14700.00
48	1000 x 15000 mm	1.00	15000.00	15000.00
49	1000 x 15300 mm	1.00	15300.00	15300.00
50	1000 x 15600 mm	1.00	15600.00	15600.00
51	1000 x 15900 mm	1.00	15900.00	15900.00
52	1000 x 16200 mm	1.00	16200.00	16200.00
53	1000 x 16500 mm	1.00	16500.00	16500.00
54	1000 x 16800 mm	1.00	16800.00	16800.00
55	1000 x 17100 mm	1.00	17100.00	17100.00
56	1000 x 17400 mm	1.00	17400.00	17400.00
57	1000 x 17700 mm	1.00	17700.00	17700.00
58	1000 x 18000 mm	1.00	18000.00	18000.00
59	1000 x 18300 mm	1.00	18300.00	18300.00
60	1000 x 18600 mm	1.00	18600.00	18600.00
61	1000 x 18900 mm	1.00	18900.00	18900.00
62	1000 x 19200 mm	1.00	19200.00	19200.00
63	1000 x 19500 mm	1.00	19500.00	19500.00
64	1000 x 19800 mm	1.00	19800.00	19800.00
65	1000 x 20100 mm	1.00	20100.00	20100.00
66	1000 x 20400 mm	1.00	20400.00	20400.00
67	1000 x 20700 mm	1.00	20700.00	20700.00
68	1000 x 21000 mm	1.00	21000.00	21000.00
69	1000 x 21300 mm	1.00	21300.00	21300.00
70	1000 x 21600 mm	1.00	21600.00	21600.00
71	1000 x 21900 mm	1.00	21900.00	21900.00
72	1000 x 22200 mm	1.00	22200.00	22200.00
73	1000 x 22500 mm	1.00	22500.00	22500.00
74	1000 x 22800 mm	1.00	22800.00	22800.00
75	1000 x 23100 mm	1.00	23100.00	23100.00
76	1000 x 23400 mm	1.00	23400.00	23400.00
77	1000 x 23700 mm	1.00	23700.00	23700.00
78	1000 x 24000 mm	1.00	24000.00	24000.00
79	1000 x 24300 mm	1.00	24300.00	24300.00
80	1000 x 24600 mm	1.00	24600.00	24600.00
81	1000 x 24900 mm	1.00	24900.00	24900.00
82	1000 x 25200 mm	1.00	25200.00	25200.00
83	1000 x 25500 mm	1.00	25500.00	25500.00
84	1000 x 25800 mm	1.00	25800.00	25800.00
85	1000 x 26100 mm	1.00	26100.00	26100.00
86	1000 x 26400 mm	1.00	26400.00	26400.00
87	1000 x 26700 mm	1.00	26700.00	26700.00
88	1000 x 27000 mm	1.00	27000.00	27000.00
89	1000 x 27300 mm	1.00	27300.00	27300.00
90	1000 x 27600 mm	1.00	27600.00	27600.00
91	1000 x 27900 mm	1.00	27900.00	27900.00
92	1000 x 28200 mm	1.00	28200.00	28200.00
93	1000 x 28500 mm	1.00	28500.00	28500.00
94	1000 x 28800 mm	1.00	28800.00	28800.00
95	1000 x 29100 mm	1.00	29100.00	29100.00
96	1000 x 29400 mm	1.00	29400.00	29400.00
97	1000 x 29700 mm	1.00	29700.00	29700.00
98	1000 x 30000 mm	1.00	30000.00	30000.00
99	1000 x 30300 mm	1.00	30300.00	30300.00
100	1000 x 30600 mm	1.00	30600.00	30600.00
101	1000 x 30900 mm	1.00	30900.00	30900.00
102	1000 x 31200 mm	1.00	31200.00	31200.00
103	1000 x 31500 mm	1.00	31500.00	31500.00
104	1000 x 31800 mm	1.00	31800.00	31800.00
105	1000 x 32100 mm	1.00	32100.00	32100.00
106	1000 x 32400 mm	1.00	32400.00	32400.00
107	1000 x 32700 mm	1.00	32700.00	32700.00
108	1000 x 33000 mm	1.00	33000.00	33000.00
109	1000 x 33300 mm	1.00	33300.00	33300.00
110	1000 x 33600 mm	1.00	33600.00	33600.00
111	1000 x 33900 mm	1.00	33900.00	33900.00
112	1000 x 34200 mm	1.00	34200.00	34200.00
113	1000 x 34500 mm	1.00	34500.00	34500.00
114	1000 x 34800 mm	1.00	34800.00	34800.00
115	1000 x 35100 mm	1.00	35100.00	35100.00
116	1000 x 35400 mm	1.00	35400.00	35400.00
117	1000 x 35700 mm	1.00	35700.00	35700.00
118	1000 x 36000 mm	1.00	36000.00	36000.00
119	1000 x 36300 mm	1.00	36300.00	36300.00
120	1000 x 36600 mm	1.00	36600.00	36600.00
121	1000 x 36900 mm	1.00	36900.00	36900.00
122	1000 x 37200 mm	1.00	37200.00	37200.00
123	1000 x 37500 mm	1.00	37500.00	37500.00
124	1000 x 37800 mm	1.00	37800.00	37800.00
125	1000 x 38100 mm	1.00	38100.00	38100.00
126	1000 x 38400 mm	1.00	38400.00	38400.00
127	1000 x 38700 mm	1.00	38700.00	38700.00
128	1000 x 39000 mm	1.00	39000.00	39000.00
129	1000 x 39300 mm	1.00	39300.00	39300.00
130	1000 x 39600 mm	1.00	39600.00	39600.00
131	1000 x 39900 mm	1.00	39900.00	39900.00
132	1000 x 40200 mm	1.00	40200.00	40200.00
133	1000 x 40500 mm	1.00	40500.00	40500.00
134	1000 x 40800 mm	1.00	40800.00	40800.00
135	1000 x 41100 mm	1.00	41100.00	41100.00
136	1000 x 41400 mm	1.00	41400.00	41400.00
137	1000 x 41700 mm	1.00	41700.00	41700.00
138	1000 x 42000 mm	1.00	42000.00	42000.00
139	1000 x 42300 mm	1.00	42300.00	42300.00
140	1000 x 42600 mm	1.00	42600.00	42600.00
141	1000 x 42900 mm	1.00	42900.00	42900.00
142	1000 x 43200 mm	1.00	43200.00	43200.00
143	1000 x 43500 mm	1.00	43500.00	43500.00
144	1000 x 43800 mm	1.00	43800.00	43800.00
145	1000 x 44100 mm	1.00	44100.00	44100.00
146	1000 x 44400 mm	1.00	44400.00	44400.00
147	1000 x 44700 mm	1.00	44700.00	44700.00
148	1000 x 45000 mm	1.00	45000.00	45000.00
149	1000 x 45300 mm	1.00	45300.00	45300.00
150	1000 x 45600 mm	1.00	45600.00	45600.00
151	1000 x 45900 mm	1.00	45900.00	45900.00
152	1000 x 46200 mm	1.00	46200.00	46200.00
153	1000 x 46500 mm	1.00	46500.00	46500.00
154	1000 x 46800 mm	1.00	46800.00	46800.00
155	1000 x 47100 mm	1.00	47100.00	47100.00
156	1000 x 47400 mm	1.00	47400.00	47400.00
157	1000 x 47700 mm	1.00	47700.00	47700.00
158	1000 x 48000 mm	1.00	48000.00	48000.00
159	1000 x 48300 mm	1.00	48300.00	48300.00
160	1000 x 48600 mm	1.00	48600.00	48600.00
161	1000 x 48900 mm	1.00	48900.00	48900.00
162	1000 x 49200 mm	1.00	49200.00	49200.00
163	1000 x 49500 mm	1.00	49500.00	49500.00
164	1000 x 49800 mm	1.00	49800.00	49800.00
165	1000 x 50100 mm	1.00	50100.00	50100.00
166	1000 x 50400 mm	1.00	50400.00	50400.00
167	1000 x 50700 mm	1.00	50700.00	50700.00
168	1000 x 51000 mm	1.00	51000.00	51000.00
169	1000 x 51300 mm	1.00	51300.00	51300.00
170	1000 x 51600 mm	1.00	51600.00	51600.00
171	1000 x 51900 mm	1.00	51900.00	51900.00
172	1000 x 52200 mm	1.00	52200.00	52200.00
173	1000 x 52500 mm	1.00	52500.00	52500.00
174	1000 x 52800 mm	1.00</		

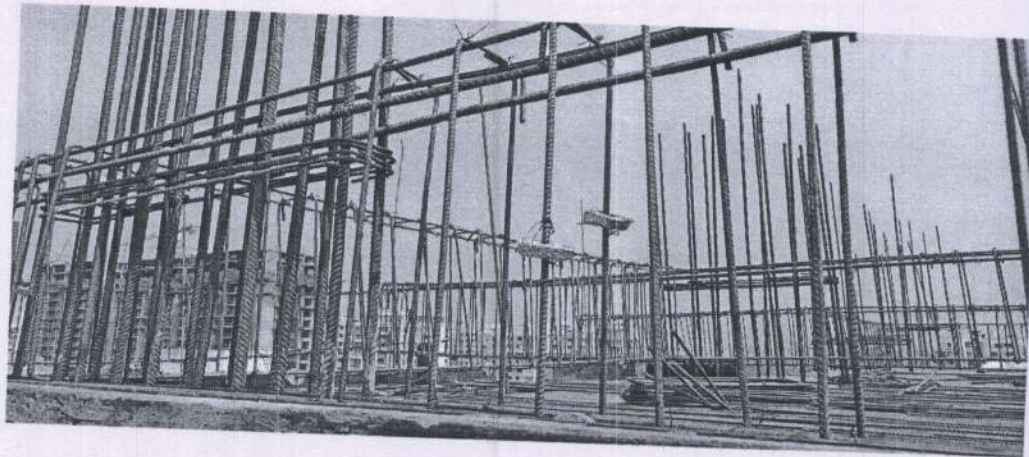


Fig 3: Column beam junction



Fig 4: Footing reinforcement



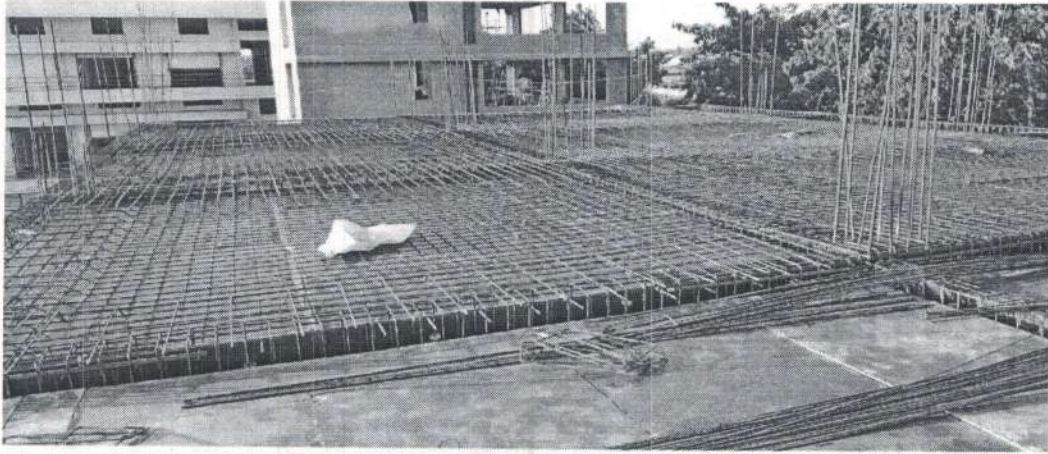


Fig 5: Slab reinforcement



Fig 6: Site visit by students and faculty

P. Kan





G S MOZE COLLEGE OF ENGINEERING

Department of Civil Engineering

Roll call list

Class TE A A.Y. 2021-22

Site Visit Attendance

Course -DRCS

Date- 13/04/2022

Roll No	Name of Student	Sign
TE A 1	SURYAWANSHI ABHISHEK BHANUDAS	
TE A 2	SURYAWANSHI RUSHIKESH RAJENDRA	
TE A 3	SANDEEP NEBBOOLAL PRAJAPATI	
TE A 4	CHAVAN RUTVI PRADEEP	
TE A 5	PHADE SHUBHAM KRUSHNAJI	
TE A 6	BHANGE SAIPRASAD SANJAY	
TE A 7	DHANGEKAR ABHISHEK MAHADEV	
TE A 8	GAURAV TAPKIR	
TE A 9	ALKUNTE PRATIK SHANKAR	
TE A 10	ANDHALE PRUTHVIRAJ YUVRAJ	
TE A 11	ANIKET UDDHAV MANDHARE	
TE A 12	ANIMESH SANJAY NAGWANSHI	
TE A 13	BACHCHE SHAILESH VASANT	
TE A 14	BARKULE SHUBHAM CHANDRAKANT	
TE A 15	BHAGWAT ADITYA GOPALA	
TE A 16	BHANAWASE SUJIT JOYTIRM	
TE A 17	BHELSAIKAR AJINKYA RAJU	
TE A 18	BIRADAR GAURAV DNYANESHWAR	
TE A 19	CHAUDHARI DHIRAJ POPATRAO	
TE A 20	CHAVAN MANASI VITTHAL	
TE A 21	CHAVAN SANGRAM MANSING	
TE A 22	CHAVAN SURAJ RAMESH	
TE A 23	CH IPLUNKAR SAHIL SANJAY	
TE A 24	DESAI POOJA DINKAR	
TE A 25	DUBALE ATHARV HANUMANT	
TE A 26	DUDHAL SHUBHAM SANJAY	
TE A 27	GADEKAR SHRADDHA GAJANAN	
TE A 28	GAIKWAD NIKHIL VISHNU	
TE A 29	GANDHARE JANHAVI AJAY	
TE A 30	GHO GARE REVANSIDDHA NAMDEV	
TE A 31	GODAGE SAMEER SURESH	
TE A 32	GOLE SANJAY BABURAO	
TE A 33	GUNJAL SHIVRAJ BRAMANAND	
TE A 34	HAWALDAR SANKET BALKRUSHNA	

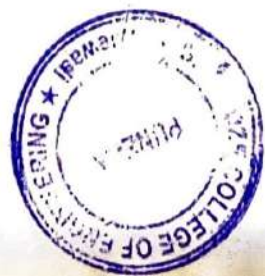


TE A 35	INDRALE PRITI ASHOKRAO	<i>Indra</i>
TE A 36	ITKALE SHUBHAM DILIP	<i>Itkale</i>
TE A 37	JADHAV NIKHIL SHIVAJI	<i>Jadhav</i>
TE A 38	JADHAV PRATIK NANDKUMAR	<i>Jadhav</i>
TE A 39	JADHAV VAIBHAV PRAKASH	<i>Jadhav</i>
TE A 40	JAGTAP GURUPRASAD AJAY	<i>Jagtap</i>
TE A 41	JAGTAP SACHIN RAJENDRA	<i>Jagtap</i>
TE A 42	JAYESH SUDAM SAINDANE	<i>Jayesh</i>
TE A 43	JOSHI SOHAM SANJOT	<i>Joshi</i>
TE A 44	KADAM AKASH BABASAHEB	<i>Kadam</i>
TE A 45	KADAM AKASH BHAUSAHEB	<i>Kadam</i>
TE A 46	KADAM GANESH MAHADEV	<i>Kadam</i>
TE A 47	KALE RUSHIKESH BABASAHEB	<i>Kale</i>
TE A 48	KALOKHE SURAJ AVINASH	<i>Kalokhe</i>
TE A 49	KAMBLE PRAJAKTA JITENDRA	<i>Kamble</i>
TE A 50	KAMBLE PRASHIK BHARATBHUSHAN	<i>Kamble</i>
TE A 51	KHAN HUMA JAVEDKHAN	<i>Khan</i>
TE A 52	KHANDARE RAJESHWAR RAMESHRAO	<i>Khandare</i>
TE A 53	KHARAT AVINASH VINAYAK	<i>Kharat</i>
TE A 54	KHARAT GANESH ARJUN	<i>Kharat</i>
TE A 55	KOLEKAR AMOL SURESH	<i>Kolekar</i>
TE A 56	KORKE SAGAR DATTATRAY	<i>Korke</i>
TE A 57	KSHIRSAGAR VISHWANATH BHAGWAN	<i>Kshirsagar</i>
TE A 58	LAKKAM SUDHANSHU SANJAY	<i>Lakkam</i>
TE A 59	MADAKE SAYALI BALU	<i>Madake</i>
TE A 60	MAGARE PREETI DATTATRY	<i>Magare</i>
TE A 61	MAHALE DEVENDRA SHIRISH	<i>Mahale</i>
TE A 62	MANE GEETANJALI GHANSHYAM	<i>Mane</i>
TE A 63	MANSUTE GAURAV SUDHAKAR	<i>Mansute</i>
TE A 64	MATERE PRADIP RAMESH	<i>Mater</i>
TE A 65	MHALUNGEKAR SAURABH SAMBHAJI	<i>Mhalungekar</i>
TE A 66	MOHITE PRANAV PRAKASH	<i>Mohite</i>
TE A 67	MOKASHI SUHEL DAUD	<i>Mokashi</i>
TE A 68	MORE RAHUL VASANT	<i>More</i>
TE A 69	NAWALI SAGAR VILAS	<i>Nawali</i>
TE A 70	NIKHIL DATIR	<i>Nikhil</i>
TE A 71	PIMPLE VIKESH MANIK	<i>Pimple</i>
TE A 72	MESHARAM RAVINDRA	<i>Mesharam</i>
TE A 73	NIKHIL SHIMPI	<i>Nikhil</i>
TE A 74	PRATHMESH KHONDE	<i>Prathmesh</i>

Prof. Shilpa Mahajn
Prof. Vinayak Kulkarni
Course Incharge

Prof. Seema Shiyekar
H.O.D

Head of the Department
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045





G S MOZE COLLEGE OF ENGINEERING

Department of Civil Engineering

Roll Call

Class TE B A.Y. 2021-22

Site Visit Attendance

Course -DRCS

Date- 13/04/2022

Roll No	Name of Student	Sign
TE B 1	BAWANKAR AMIT DNYANESHWAR	<i>[Signature]</i>
TE B 2	PAWAR RACHANA NANDRAM	<i>[Signature]</i>
TE B 3	GADIWADD SWAPNIL TIPANA	<i>[Signature]</i>
TE B 4	RAYMANE AKASH MACHHINDRANATH	<i>[Signature]</i>
TE B 5	BIJAWE PRITI RAMDASRAO	<i>[Signature]</i>
TE B 6	NAKHATE VANITA MARUTI	<i>[Signature]</i>
TE B 7	JYOTI DNYANESHWAR RAJAPURE	<i>[Signature]</i>
TE B 8	NEHARKAR DINESH BABASAHEB	<i>[Signature]</i>
TE B 9	KUMBHAR RAJU ANNA	<i>[Signature]</i>
TE B 10	KAMBLE RUSHIKESH SUDESHKUMAR	<i>[Signature]</i>
TE B 11	MORE VANDANA BHAGWANRAO	<i>[Signature]</i>
TE B 12	CHAVAN AVINASH REVAN	<i>[Signature]</i>
TE B 13	GIR SWATI KHUSHAL	<i>[Signature]</i>
TE B 14	DEVAKAR TANAJI TUKARAM	<i>[Signature]</i>
TE B 15	JADHAV PRATIK RAVINDRA	<i>[Signature]</i>
TE B 16	GUNDAL CHANDRAKANT RAMDAS	<i>[Signature]</i>
TE B 17	ADISHERLAWAR VITTHALNATH LAXMANRAO	<i>[Signature]</i>
TE B 18	ARBUNE VAIBHAV PANDURANG	<i>[Signature]</i>
TE B 19	BHAGAT RUSHIKESH HARISHCHANDRA	<i>[Signature]</i>
TE B 20	BHANDARKAR GAURAV RAMLING	<i>[Signature]</i>
TE B 21	DHADDE OMKAR ASHOK	<i>[Signature]</i>
TE B 22	DHUMAL DISHA DASHARTH	<i>[Signature]</i>
TE B 23	GAIKWAD AKSHAY SURESH	<i>[Signature]</i>
TE B 24	GAVALI SHREYASH JAGDISH	<i>[Signature]</i>
TE B 25	KADAM ANIKET MALHARI	<i>[Signature]</i>
TE B 26	KALASKAR AKASH ANNASAHEB	<i>[Signature]</i>
TE B 27	KAMBLE RUTURAJ DILIP	<i>[Signature]</i>
TE B 28	KAMBLE VINAY ANIL	<i>[Signature]</i>
TE B 29	MULE YOGESH SHANKAR	<i>[Signature]</i>
TE B 30	NAIK OMKAR SANTOSH	<i>[Signature]</i>
TE B 31	NAVGHARE PRASAD MILIND	<i>[Signature]</i>
TE B 32	NIKALJE SIDDHARTH SHASHIKANT	<i>[Signature]</i>
TE B 33	NIKHIL MOHAN GHANEKAR	<i>[Signature]</i>
TE B 34	OLEKAR PRATIK VIJAY	<i>[Signature]</i>
TE B 35	ORASE ABHISHEK SHANKAR	<i>[Signature]</i>
TE B 36	ORSE MUKESH KISAN	<i>[Signature]</i>
TE B 37	PATIL KIRANRAJ NANA	<i>[Signature]</i>



TE B 38	PAWALE TUSHAR TUKARAM	<i>[Signature]</i>
TE B 39	PHARANDE PRASAD GANESH	<i>[Signature]</i>
TE B 40	POTDAR GAURAV NAGNATH	<i>[Signature]</i>
TE B 41	RAJE PANKAJ DNYANOBA	<i>[Signature]</i>
TE B 42	RAJPUT VISHWAJITSING PREMSING	<i>[Signature]</i>
TE B 43	RANDIVE MANDAR GOKUL	<i>[Signature]</i>
TE B 44	RANGOJI DIVYA GNYANADEV	<i>[Signature]</i>
TE B 45	RATHOD ARCHANA SANJAY	<i>[Signature]</i>
TE B 46	RAUT GANESH ASHOK	<i>[Signature]</i>
TE B 47	RAWOOL VIKAS VIJAY	<i>[Signature]</i>
TE B 48	SANCHIT RAGHUNATH CHAUGULE	<i>[Signature]</i>
TE B 49	SANDAV TANVI PRATAP	<i>[Signature]</i>
TE B 50	SATAV SHUBHAM MUKESH	<i>[Signature]</i>
TE B 51	SATHE MEGHA MOHAN	<i>[Signature]</i>
TE B 52	SAURABH WACHAK PADALE	<i>[Signature]</i>
TE B 53	SHINDE DIKSHA DATTATRAY	<i>[Signature]</i>
TE B 54	SHINDE JYOTI VISHWAS	<i>[Signature]</i>
TE B 55	SHINDE OM SANJAY	<i>[Signature]</i>
TE B 56	SHINDE RUSHIKESH RAMRAJE	<i>[Signature]</i>
TE B 57	SHINDE VRUSHABH DILIP	<i>[Signature]</i>
TE B 58	SINGH PRASHANT DURGAPRASAD	<i>[Signature]</i>
TE B 59	SONUNE SACHIN KUNDALIK	<i>[Signature]</i>
TE B 60	SUDATTA LAXMAN GAIKWAD	<i>[Signature]</i>
TE B 61	SURPAM LALITA MAHADEO	<i>[Signature]</i>
TE B 62	TEJAS VILAS DALVI	<i>[Signature]</i>
TE B 63	TEMKAR SAURABH VILAS	<i>[Signature]</i>
TE B 64	THORAT SUYASH SAMBHAJI	<i>[Signature]</i>
TE B 65	TIKAR RUPAL PANDURANG	<i>[Signature]</i>
TE B 66	TUPLONDHE SIDDHANT SUNIL	<i>[Signature]</i>
TE B 67	UBALE RUTUJA MANOJ	<i>[Signature]</i>
TE B 68	VAISHNAVI KORATE	<i>[Signature]</i>
TE B 69	VHANMANE AKSHAY DASHARATH	<i>[Signature]</i>
TE B 70	WAGHMARE GANESH KRUSHNA	<i>[Signature]</i>
TE B 71	WARLE AMRUTA LOBHAJI	<i>[Signature]</i>
TE B 72	CHAITANYA SHINDE	<i>[Signature]</i>
TE B 73	SUNIL PARGAVE	<i>[Signature]</i>
TE B 74	VISHAL GHODAKE	<i>[Signature]</i>

Prof. Vinayak Kulkarni
Course Incharge

Prof. Seema Shiyekar
H.O.D



Head of the Department
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering
25/1/3, Balawadi, Pune-411045



"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

S. No. 25/1/3, Balewadi, 411 045.

(Approved by AICTE and Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University)

DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph. : 020-27390500 Website : www.gsmozecoe.org Email : gsmoze@yahoo.co.in

Founder President : Shri. Rambhau Moze

Ref. No. : GSMCOE/office/179/2021-2022

Date :

Date: 28/03/2022

To

The Site head

Kasarsai dam

Marunji, Taluka- Mulashi

Subject: Regarding Site visit to kasarsai dam as per course curriculum of final year Civil Engineering for the subject Dams and Hydraulic Structures

Respected Sir/Ma'am,

We are one of the reputed institutes offering various Technical Degree, Diploma and Post Graduate Courses, approved by AICTE Delhi, Govt. of Maharashtra, DTE and affiliated to Savitribai Phule Pune University (SPPU).

With reference to above mentioned subject as per the course curriculum for the subject Dams and Hydraulic Structures of final year students, we would like to arrange a visit to dam and to know the information and working about same as well to study energy dissipation system.

It's a kind request to grant us permission for the same along with students and faculties on any working day as per your convenience (tentatively between 03 to 13 April 2022). We will be thankful if you do the needful and allot us in-charge person who will explain us in detail the information.

Thank you in advance.

Course In charge

Prof. S.S. Shiyekar

H.O.D.

Prof. S.S. Shiyekar

Principal

Dr. Ratnaraja kumar

PRINCIPAL

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045

Head of the Department,
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411 045.

JAGC
31-3-22
शाखाधिकारी





"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"
**GENBA SOPANRAO MOZE COLLEGE OF
ENGINEERING**

S. No. 25/1/3, Balewadi, Pune – 411 045
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DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999
Ph: 020-27390500 Website: www.gsmozecoe.org Email: gsmoze@yahoo.co.in
Founder President: Shri Rambhau Moze

Date:28/03/2022

To,
The Site Head
Kasarsai Dam
Marunji, Taluka-Mulshi

Letter of thanks

Respected Sir,

The Genba Sopanrao Moze trust is an educational trust, a pioneer in imparting quality professional's education in field of Engineering. It has established two campuses in Pune at Wagholi & Balewadi.

We Department of Civil Engineering of Genba Sopanrao Moze College of Engineering, Balewadi, Pune, would sincerely thank you for giving us permission to visit your Kasarsai Dam. We really appreciate the time spent with our students and information shared by you. We hope our students received precious knowledge which will definitely help them in their Curriculum.

Thanking you.

Yours Regards,

Prof. Seema Shiyekar
(Faculty coordinator)

Prof. Seema Shiyekar
Head of the Department
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045

Dr. Ratnaraja Kumar Jambi

(GSMCOE, Balewadi)
PRINCIPAL

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045



Out ward No/KISR/ 179/2022

Kasarsai Irrigation Section ,
Kasarsai, Tal-Maval, Dist-Pune

Date- 31/3/22

To,

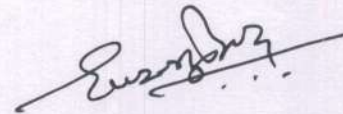
The Principal,
Genba Sopanrao Moze College of Engineering
S.No.25/1/3, Balewadi
Pune-411084.

Subject — Regarding site visit to kasarsai Dam as per course curriculum of final year Civil Engineering for the subject Dams and Hydraulic structures .

Reference- Letter of Genba Sopanrao Moze College of Engineering
No.GSMCOE/ office/179/2021-22 Dated-28/3/2022.

As per reference to the above subject you may arrange a visit to the Kasarsai Dam on 08/04/2022 or 12/4/2022 with students and faculties . We request you to follow all the government rules and regulations. Please convey your schedule in advance.

Thanking You.



FIC
Sectional Engineer
Kasarsai Irrigation Section

Kasarsai Tal-Maval, Dist-Pune





Date :

Pg No :

* Visit Report *

- * Site name :- Kasarsai Dam.
- * Site Location :- Kasarsai Dam, Somatne - Kasarsai Road, Kusgaon P.m, Maharashtra, Pune - 410506.
- * Visit Date :- 12/04/2022.
- * Objective :- To study & get a brief knowledge of construction & working of dam.
- * General Information :-

Kasarsai irrigation project consist of an earthen dam across Kasarsai nalla 35km away from Pune city. The dam is 1170 meter long having height of 29.36 meter. The catchment area of dam is 10.5 km^2 & water is used for irrigation. The spillway of dam is Ogee type with 3 gates of size 12×5 meter. Designed flood capacity of 932.57 cumec. ~~length~~ Length of spillway is 14 meter.

Left bank canal is 7km long. The 41 cumec capacity canal will irrigate 512 hectare (ICA). The Right bank canal is 19.5 km long. The 2.203 cumec capacity canal irrigate 2524 hectare (ICA) of land. In revised proposal left irrigation is included & irrigates 1083 hectare & ultimate irrigation potential is 6590 hectare.





B] Height of dam	29.36 meter.
C] Top width of dam	1170 meter
D] Spillway gate	3 nos.

* Conclusion :-

During visit to Kasarsai Dam, initially the entire working of dam was studied. We understand dam site so, that what ever problems are coming during the study we saw, the over flow, non-over flow sections of dam. We were also saw the maintainance of Gates of dam of moving or lifting by jacks. We also saw spillway details of their operating system.



DHS Site Visit (2021-22)





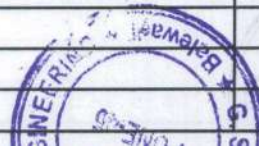
G. S. Moze College of Engineering, Balewadi
Civil Engineering Department
Academic Year 2021-22
Site Visit Attendance

Course -DHS

Date- 12/04/2022

Class : BE B

Roll No.	Student Name	Sign
B 1	LANDAGE SHUBHAM PRABHAKAR	PRABHAKAR
B 2	LOKHANDE YOGESH SITARAM	SITARAM
B 3	MADAGE BHUSHAN GANPAT	GANPAT
B 4	MAHALLE PIYUSH SATISH	SATISH
B 5	MANANI RAHUL NARENDRA (W)	NARENDRA
B 6	MANE SHREESH GANESH	GANESH
B 7	NAGANE AKSHAY BHARAT (W)	BHARAT
B 8	NAGARGOJE SONALI SHRIDHAR	SHRIDHAR
B 9	NAIK RUSHIKESH RAJKUMAR	RAJKUMAR
B 10	NARSALE PRATAP RAJARAM	RAJARAM
B 11	NAVALE SHUBHAM PRAMOD	PRAMOD
B 12	NISHAD RAMASHISH GANESH	GANESH
B 13	PADAGE ABHIJEET PRAKASH	PRAKASH
B 14	PADALE ADITYA GANPAT	GANPAT
B 15	PANCHAL AKASH VIJAY	VIJAY
B 16	PANDIT PRATIKSHA CHANDULAL	CHANDULAL
B 17	PATALE GAJANAN SHESHRAO	SHESHRAO
B 18	PATANGE MANOJ BHIMASHANKAR	BHIMASHANKAR
B 19	PATIL AKASH MOHANRAO	MOHANRAO
B 20	PATIL ARIHANT ANIL	ARIHANT
B 21	PATIL SHWETA NANASO	NANASO
B 22	PATIL TUSHAR VILAS	VILAS
B 23	PATIL YOGESHWAR NANDKUMAR	NANDKUMAR
B 24	PAWAR SAURABH VISHWANATH	VISHWANATH
B 25	PAWSHERE AMIT DEVIDAS	DEVIDAS
B 26	PAYAL KUNAL RATAN	RATAN
B 27	PURKAR SAURABH DILIP	DILIP
B 28	RASGE SAYALI RAJESH	RAJESH
B 29	RATHOD DINESH MALLESHI	MALLESHI
B 30	RUPEKAR SAGAR ASHOK	ASHOK
B 31	SALUNKE PRAGALBHA RAVINDRA	RAVINDRA
B 32	SALUNKE SAMARTH SHIVAJI	SHIVAJI
B 33	SANAP AMOL KHUSHALRAO	KHUSHALRAO
B 34	SANAP SANKET HANUMANT	HANUMANT
B 35	SANDE AKIB SHAKIL	SHAKIL
B 36	SANGALE MAHESH UMAJI	UMAJI
B 37	SANGOLKAR SUMIT PRAHALD	PRAHALD
B 38	SHAH TANISH PRAKASH	PRAKASH
B 39	SHAH TEJAS JITENRA	JITENRA
B 40	SHAIKH SAMEER LALSAB (W)	LALSAB



A46	GAIKWAD RAJESH TUKARAM	<i>Om</i>
A47	GANGURDE VISHAL BHAGWAN	<i>Om</i>
A48	GHUGE LAXMAN BHIMA	<i>Om</i>
A49	GOLHAR SWATI RAJENDRA	<i>Om</i>
A50	GORE PRAJWAL SANJAY	<i>Om</i>
A51	ISHWARKATTI PRADIP ADAVYAPPA	<i>Om</i>
A52	JADHAV EKLAVYA YOGESH	<i>Om</i>
A53	JADHAV RUSHIKESH RAMESH	<i>Om</i>
A54	JADHAV SWAPNIL GANESH	<i>Om</i>
A55	JAGTAP ANIKET KAILAS	<i>Om</i>
A56	JAWALE PRAVIN OMKAR	<i>Om</i>
A57	KACHHAWA DEVENDRASINGH VIJAYSINGH	<i>Om</i>
A58	KADU JITENDRA PANDITRAO	<i>Om</i>
A59	KAMBLE PRASHANT RAHUL	<i>Om</i>
A60	KAMBLE ROHAN VIJAY	<i>Om</i>
A61	KANDEKAR KAUSHIK CHANDRAKANT	<i>Om</i>
A62	KARANDE JAYESH SAKHARAM	<i>Om</i>
A63	KATKAR ROHAN SANJAY	<i>Om</i>
A64	KAWALE ANIKET PRAMOD	<i>Om</i>
A65	KAYASTH SONIYA HEMANT	<i>Om</i>
A66	KHOND SANKET DATTA	<i>Om</i>
A67	KUTE OMKAR SUNIL	<i>Om</i>
A68	NAGDIWE ASHUTOSH	<i>Om</i>
A69	RATHOD AJAY	<i>Om</i>
A70	ISHWAR KHAJURE	<i>Om</i>
A71	AKSHAY CHAUDHARI	<i>Om</i>
A72	SURWASE VIDYASAGAR	<i>Om</i>
A73	NIKHIL WALANJ	<i>Om</i>
A74	SHUBHAM VINAYAK PATIL	<i>Om</i>
A75	NAIKWADE DHANANJAY	<i>Om</i>
A76	VISHAL DYANESHWAR PATIL	<i>Om</i>
A77	SONTAKKE SHRIKANT SHRIMANI	<i>Om</i>
A78	KSHIRSAGAR AKSHAY ANIL	<i>Om</i>
A79	GHANERI SHIVAN SUNIL	<i>Om</i>
A80	GAIKWAD LAHU DHARMRAJ	<i>Om</i>
A 81	KADAM RAVIRAJ DADASO	<i>Om</i>
A82	KOKATE PRASAD NAGORAO	<i>Om</i>

SS

Prof. Seema Shiyekar

Course Incharge



SS

Prof. Seema Shiyekar

HOD

Head of the Department
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045

"Create Competent Socially Responsible Civil Engineers"
 GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

Balewadi, Pune - 411045

Civil Engineering Department

A.Y. 2021-22

Site Visit Attendance

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B 3	MADAGE BHUSHAN GANPAT	
B 4	MAHALLE PIYUSH SATISH	-
B 5	MANANI RAHUL NARENDRA (W)	-
B 6	MANE SHREESH GANESH	
B 7	NAGANE AKSHAY BHARAT (W)	
B 8	NAGARGOJE SONALI SHRIDHAR	
B 9	NAIK RUSHIKESH RAJKUMAR	-
B 10	NARSALE PRATAP RAJARAM	-
B 11	NAVALE SHUBHAM PRAMOD	
B 12	NISHAD RAMASHISH GANESH	-
B 13	PADAGE ABHIJEET PRAKASH	
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B 15	PANCHAL AKASH VIJAY	
B 16	PANDIT PRATIKSHA CHANDULAL	
B 17	PATALE GAJANAN SHESHRAO	
B 18	PATANGE MANOJ BHIMASHANKAR	-
B 19	PATIL AKASH MOHANRAO	
B 20	PATIL ARIHANT ANIL	
B 21	PATIL SHWETA NANASO	
B 22	PATIL TUSHAR VILAS	
B 23	PATIL YOGESHWAR NANDKUMAR	
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B 27	PURKAR SAURABH DILIP	-
B 28	RASGE SAYALI RAJESH	-
B 29	RATHOD DINESH MALLESHI	-
B 30	RUPEKAR SAGAR ASHOK	-
B 31	SALUNKE PRAGALBHA RAVINDRA	-
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B 37	SANGOLKAR SUMIT PRAHALD	-
B 38	SHAH TANISH PRAKASH	-
B 39	SHAH TEJAS JITENRA	



B 41	SHARMA DEEPAK VIRENDRA	Deepak
B 42	SHARMA SUBODH GANESH	Subodh
B 43	SHERIKAR VAISHALI SUBHASH	Subhash
B 44	SHINDE KISHOR DATTATRAY	Kishor
B 45	SHINDE PALLAVI	Pallavi
B 46	SHINDE PANDURANG PRALHAD	Pandurang
B 47	SHIROTE SONHIRA SIDDHAPPA	Sonhira
B 48	SONTAKKE VRUSHALI SATISH	Satish
B 49	SUL SNEHA ASHOKE	Sneha
B 50	SUTAR JAYESH RAJENDRA	Jayesh
B 51	SUTAR MAYURESH SURESH	Mayuresh
B 52	TARGUDE VISHAL VENKATRAO	Vishal
B 53	THORAT AISHWARYA SURESH	Aishwarya
B 54	THORAT TUSHAR VINAYAK	Tushar
B 55	TIKORE VAIBHAV DAS	Vaibhav
B 56	UCHEKAR PRADNYA GOVINDRAO	Pradnya
B 57	UKEY VAISHALI GONDU	Vaishali
B 58	WAGHMARE ANIKET ANURATH	Aniket
B 59	YADAV AKSHAYA JAYWANT	Akshaya
B 60	YADAV PRATIK MADHUKAR	Pratik
B 61	TANPURE NIKITA ARUN	Nikita
B 62	PATIL ROHIT ANIL	Rohit
B 63	YADAV GAURAV PRAVIN	Gaurav
B 64	VISHAKHA MIRASHI	Vishakha
B 65	PAWAR GAURAV	Gaurav
B 66	SNEHAL BIDAWE	Snehal
B 67	KAMTHEKAR VIJAY	Vijay
B 68	KHEDKAR SHUBHAM DIPAK	Shubham
B 69	AMBORE AKSHAY MANIKRAO	Akshay
B 70	JADHAV NIKHIL PRADEEP	Nikhil
B 71	JADHAV KIRAN DATTATRAY	Kiran
B 72	BOBADE AKSHAY ANANT	Akshay
B 73	DANGE OMKAR	Omkar
B 74	GAIKWAD SHUBHAM	Shubham
B 75	VAIBHAV ANIL BORADE	Vaibhav
B 76	BIRAJDAR AKASH BHIMRAO	Akash
B 77	PRADNYESH SHITOLE	Pradnyesh
B 78	AISHVARYA DESHMUKH	Aishwarya
B 79	BALAJI SHINDE	Balaji
B 80	AKSHAY PARDESHI	Akshay
B 81	AKSHAY BANKAR	Akshay
B 82	SAGAR TAKLE	Sagar

Prof. Seema Shiyekar

Course Incharge

Prof. Seema Shiyekar

HOD

Head of the Department
CIVIL ENGINEERING

Genba Sopanrao Moze College of Engineering
25/1/13, Balewadi, Pune-411045



“Empowerment Through Technological Excellence”
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

(Recognized by AICTE, New Delhi; Approved by Govt. of Maharashtra; Affiliated to Pune University)
25/1/3, Balewadi, Pune – 411045. Ph: 020-27390500

Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in

Department Of Civil Engineering



Date: 15/10/2023

SITE VISIT NOTICE

All the students of B.E. are hereby informed that , your TRE site visit to Hot Mix Plant has been arranged on 26/10/2023. All Students are asked to be present at 10 am sharp. in college premises.

NOTE:

- **STUDENTS MUST BE PRESENT IN COLLEGE UNIFORM**
- **STUDENTS SHOULD CARRY WATER BOTTLE,CAP, SHOES etc**
- **ATTENDANCE IS COMPULSORY**

Prof. Richa Lalge

(Faculty coordinator)

Prof. Seema Shiyekar

HOD
Head of the Department
CIVIL ENGINEERING

Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045





"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

S. No. 25/1/3, Balewadi, 411 045.

(Approved by AICTE and Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University)

DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph. : 020-29513395 Website : www.gsmozecoe.org Email : gsmoze@yahoo.co.in

Founder President : Shri. Rambhau Moze

Ref. No. :

Date :

To,
The Plant Manager
Yerewada Hot Mix Plant,
Yerewada college road Pune.

Subject:- Permission to visit HOT MIX PLANT .

Respected Sir,

We introduce ourselves as G. S. Moze College of engineering Balewadi is affiliated to University of Pune and approved by AICTE New Delhi. The college runs five UG program including Civil Engineering.


There would be a total of 50 students accompanied by 02 faculty members are interested to Visit your renowned **HOT MIX PLANT** Yerewada,Pune as a part of BE SPPU Syllabus in TRE Subject. The visit is aimed at enhancing their Practical knowledge. We intend to take a round of the entire HOT MIX PLANT plant. I assure you that no nuisance will be created and the visit will be carried out with proper discipline. I hope you will give us permission to visit the same.

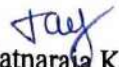
We are expecting visit on date (26/10/23)

Looking forward for your positive consent in this regard.

Thanking you.


Prof. Richa Lalge
(Faculty coordinator)


Prof. Seema Shiyekar
Hod
Head of the Department
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411 045


Dr. Ratnaraja Kumar Jambhi
PRINCIPAL
Principal
Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045





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DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph. 020-27390500 Website www.gsmozecoe.org Email gsmoze@yahoo.co.in

Founder President Shri Rambhau Moze

Ref. No. GSMCOE / ADMIN / 741 / 2023-24

Date 09/10/2023

To,
The Principal
GSMCOE, Balewadi Pune.

Subject:- Request to grant the Permission to visit HOT MIX PLANT .

Respected Sir,

With reference to above mention subject we want to arrange site visit for the subject **Transportation Engineering** for Last year students of Civil Engineering Department.

The site is situated near Yerewada- College Road which nearly 15 km away from our campus.

It is kind request to grant the permission for same along with 50 students and one faculties to visit site on date **16/10/2023 at 9 am.**

Thanking you.

Prof. Richa Lalge

Faculty coordinator

Prof. Seema Shiyekar

HOD

Head of the Department
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045

Dr. Ratnaraj Kumar Jambi

Principal

PRINCIPAL

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045





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Ph. 020-27390500 Website www.gsmozecoe.org Email gsmoze@yahoo.co.in

Founder President Shri Rambhau Moze

Ref. No. GSMCOE / ADMIN / 739 / 2023 - 24

Date 09/10/2023

To,

The Plant Manager

Yerawada Hot Mix Plant,

Yerawada -College Road, Pune.

Subject: Letter of thanks

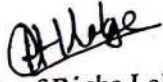
Respected Sir,

The Genba Sopanrao Moze trust is an educational trust, a pioneer in imparting quality professional's education in field of Engineering. It has established two campuses in Pune at Wagholi & Balewadi.

We Department of Civil Engineering of Genba Sopanrao Moze College of Engineering, Balewadi, Pune, would sincerely thank you for giving us permission to visit your renowned Hot mix plant at Yerawada. Our BE students are satisfied with the knowledge shared by entire team. We really appreciate the time spent by Project Manager with our students and knowledge shared.

Thanking you.

Your Regards,


Prof. Richa Lalge

Faculty Coordinator


Prof. Seema Shiyekar

HoD

Head of the Department
CIVIL ENGINEERING

Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045


Dr. Ratnarajakumar Jambi

Principal

PRINCIPAL

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GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

Balewadi, Pune - 411045.

Civil Engineering Department

Academic Year 2022-23

Site Visit Attendance

Date - 26/10/23



Sr. No.	Roll. No	Student Name	Sign
1	A-01	DESAI POOJA DINKAR	—
2	A-02	ADISHERLAWAR VITTHALNATH LAXMANRAO	—
3	A-03	AKASH ANNASAHEB KALASKAR	—
4	A-04	ARBUNE VAIBHAV PANDURANG	vaibhava
5	A-05	BACHCHE SHAILESH VASANT	vasant
6	A-06	BAWANKAR AMIT DNYANESHWAR	amit
7	A-07	BHAGAT RUSHIKESH	Rushikesh
8	A-08	BHANDARKAR GAURAV RAMLING	gaurav
9	A-09	BHELSAIKAR AJINKYA RAJU	ajinkya
10	A-10	BIJAWA PRITI RAMDASRAO	priti
11	A-11	BIRADAR GAURAV DNYANESHWAR	—
12	A-12	CHAUDHARI DHIRAJ POPATRAO	—
13	A-13	CHAUGULE SANCHIT RAGHUNATH	—
14	A-14	CHAVAN AVINASH REVAN	—
15	A-15	CHAVAN MANASI VITTHAL	vitthal
16	A-16	CHAVAN RUTVI PRADEEP	rutvi
17	A-17	CHAVAN SANGRAM MANSING	sangram
18	A-18	CHAVAN SURAJ RAMESH	suraj
19	A-19	CHIPLUNKAR SAHIL SANJAY	sahil
20	A-20	DALVI TEJAS VILAS	tejas
21	A-21	DEVAKAR TANAJI TUKARAM	tanaji
22	A-22	DEVENDRA SHIRISH MAHALE	—
23	A-23	DHADDE OMKAR ASHOK	—
24	A-24	DHANGEKAR ABHISHEK MAHADEO	abhishek
25	A-25	DHUMAL DISHA DASHARTH	—
26	A-26	DUBALE ATHARV HANUMANT	atharv
27	A-27	DUDHAL SHUBHAM SANJAY	—
28	A-28	GADEKAR SHRADDHA GAJANAN	shraddha
29	A-29	GADIWADD SWAPNIL TIPANA	—
30	A-30	GAIKWAD AKSHAY SURESH	akshay
31	A-31	GAIKWAD NIKHIL VISHNU	—
32	A-32	GANDHARE JANHAVI AJAY	janhavi
33	A-33	GANESH MAHADEV KADAM	—
34	A-34	GAVALI SHREYASH JAGDISH	shreyash
35	A-35	GHODKE VISHAL BALIRAM	vishal



Sr. No.	Roll. No	Student Name	Sign
36	A-36	GIR SWATI KHUSHAL	g.s.
37	A-37	GODAGE SAMEER SURESH	Sameer Ramdas
38	A-38	GUNDAL CHANDRAKANT RAMDAS	—
39	A-39	GUNJAL SHIVRAJ BRAMANAND	—
40	A-40	HAWALDAR SANKET BALKRUSHNA	Sanket
41	A-41	ITKALE SHUBHAM DILIP	Dilip
42	A-42	JADHAV PRATIK NANDKUMAR	Nandkumar
43	A-43	JADHAV PRATIK RAVINDRA	Pratik
44	A-44	JADHAV VAIBHAV PRAKASH	Vaibhav
45	A-45	JAGTAP GURUPRASAD AJAY	Ajay
46	A-46	JAGTAP SACHIN RAJENDRA	Sachin
47	A-47	JOSHI SOHAM SANJOT	Soham
48	A-48	KADAM AKASH BABASAHEB	—
49	A-49	KADAM AKASH BHAUSAHEB	—
50	A-50	KADAM ANIKET MALHARI	—
51	A-51	KALE RUSHIKESH BABASAHEB	—
52	A-52	KALOKHE SURAJ AVINASH	Suraj
53	A-53	KAMBLE PRAJAKTA JITENDRA	—
54	A-54	KAMBLE PRASHIK BHARATBHUSHAN	Prashik
55	A-55	KAMBLE RUSHIKESH SUDESHKUMAR	—
56	A-56	KAMBLE RUTURAJ DILIP	Ruturaj
57	A-57	KAMBLE VINAY ANIL	Vinay
58	A-58	KHAN HUMA JAVEDKHAN	—
59	A-59	KHANDARE RAJESHWAR RAMESHRAO	—
60	A-60	KHARAT AVINASH VINAYAK	—
61	A-61	KOLEKAR AMOL SURESH	—
62	A-62	KONDE PRATHAMESH SHRIKANT	—
63	A-63	KORKE SAGAR DATTATRAY	—
64	A-64	KSHIRSAGAR VISHWANATH BHAGWAN	—
65	A-65	KUMBHAR RAJU ANNA	Raju
66	A-66	LAKKAM SUDHANSHU SANJAY	Sudhanshu
67	A-67	MADAKE SAYALI BALU	Sayali
68	A-68	MAGARE PREETI DATTATRAY	Preeti
69	A-69	MANDHARE ANIKET UDDHAV	Aniket

Prof Richa Lalge
Subject Teacher



Prof. Seema Shiyekar

HOD
Head of the Department
CIVIL ENGINEERING
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3	A-03	AKASH ANNASHEB KALASKAR	—
4	A-04	ARBUNE VAIBHAV PANDURANG	vaibhavae
5	A-05	BACHCHE SHAILESH VASANT	vasant
6	A-06	BAWANKAR AMIT DNYANESHWAR	amit
7	A-07	BHAGAT RUSHIKESH	Rushikesh
8	A-08	BHANDARKAR GAURAV RAMLING	gaurav
9	A-09	BHELSAIKAR AJINKYA RAJU	ajinkya
10	A-10	BIJAW PRITI RAMDASRAO	priti
11	A-11	BIRADAR GAURAV DNYANESHWAR	—
12	A-12	CHAUDHARI DHIRAJ POPATRAO	—
13	A-13	CHAUGULE SANCHIT RAGHUNATH	—
14	A-14	CHAVAN AVINASH REVAN	—
15	A-15	CHAVAN MANASI VITTHAL	vitthal
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20	A-20	DALVI TEJAS VILAS	tejas
21	A-21	DEVAKAR TANAJI TUKARAM	tanaji
22	A-22	DEVENDRA SHIRISH MAHALE	—
23	A-23	DHADDE OMKAR ASHOK	—
24	A-24	DHANGEKAR ABHISHEK MAHADEO	abhishek
25	A-25	DHUMAL DISHA DASHARTH	—
26	A-26	DUBALE ATHARV HANUMANT	atharv
27	A-27	DUDHAL SHUBHAM SANJAY	—
28	A-28	GADEKAR SHRADDHA GAJANAN	shraddha
29	A-29	GADIWADD SWAPNIL TIPANA	—
30	A-30	GAIKWAD AKSHAY SURESH	akshay
31	A-31	GAIKWAD NIKHIL VISHNU	—
32	A-32	GANDHARE JANHAVI AJAY	janhavi
33	A-33	GANESH MAHADEV KADAM	ganesh
34	A-34	GAVALI SHREYASH JAGDISH	shreyash
35	A-35	GHODKE VISHAL BALIRAM	vishal



Sr. No.	Roll. No	Student Name	Sign
36	A-36	GIR SWATI KHUSHAL	Gir
37	A-37	GODAGE SAMEER SURESH	Sameer Ramdas
38	A-38	GUNDAL CHANDRAKANT RAMDAS	—
39	A-39	GUNJAL SHIVRAJ BRAMANAND	Sanket
40	A-40	HAWALDAR SANKET BALKRUSHNA	Dilip
41	A-41	ITKALE SHUBHAM DILIP	Nandkumar
42	A-42	JADHAV PRATIK NANDKUMAR	Pratik
43	A-43	JADHAV PRATIK RAVINDRA	Ravindra
44	A-44	JADHAV VAIBHAV PRAKASH	Ajay
45	A-45	JAGTAP GURUPRASAD AJAY	Sachin
46	A-46	JAGTAP SACHIN RAJENDRA	Joshi
47	A-47	JOSHI SOHAM SANJOT	Kelkar
48	A-48	KADAM AKASH BABASAHEB	—
49	A-49	KADAM AKASH BHAUSAHEB	—
50	A-50	KADAM ANIKET MALHARI	—
51	A-51	KALE RUSHIKESH BABASAHEB	—
52	A-52	KALOKHE SURAJ AVINASH	Seesay
53	A-53	KAMBLE PRAJAKTA JITENDRA	Prashikr
54	A-54	KAMBLE PRASHIK BHARATBHUSHAN	—
55	A-55	KAMBLE RUSHIKESH SUDESHKUMAR	—
56	A-56	KAMBLE RUTURAJ DILIP	Seetha
57	A-57	KAMBLE VINAY ANIL	Dilip
58	A-58	KHAN HUMA JAVEDKHAN	—
59	A-59	KHANDARE RAJESHWAR RAMESHRAO	—
60	A-60	KHARAT AVINASH VINAYAK	—
61	A-61	KOLEKAR AMOL SURESH	—
62	A-62	KONDE PRATHAMESH SHRIKANT	—
63	A-63	KORKE SAGAR DATTATRAY	—
64	A-64	KSHIRSAGAR VISHWANATH BHAGWAN	—
65	A-65	KUMBHAR RAJU ANNA	Anna
66	A-66	LAKKAM SUDHANSHU SANJAY	Sanjay
67	A-67	MADAKE SAYALI BALU	Balu
68	A-68	MAGARE PREETI DATTATRAY	Preeti
69	A-69	MANDHARE ANIKET UDDHAV	Aniket

Prof Richa Lalge
Subject Teacher



Prof. Seema Shiyekar

HOD
Head of the Department
CIVIL ENGINEERING
Genba Soranrao Moze College of Engin
25/1/3, Balewadi, Pune-411045



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GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING
Balewadi, Pune - 411045.
Civil Engineering Department
Academic Year 2022-23

Site Visit Attendance
BE B

Date - 26/10/2023

SR.no.	Roll. No	Student Name	Sign
1	B-01	MANE GEETANJALI GHANSHYAM	Mane
2	B-02	MANSUTE GAURAV SUDHAKAR	Mansute
3	B-03	MATERE PRADIP RAMESH	Pradip
4	B-04	MESHAM RAVINDRA DILIP	Mesham
5	B-05	MHALUNGEKAR SAURABH SAMBHAJI	—
6	B-06	MORE RAHUL VASANT	More
7	B-07	MORE VANDANA BHAGWANRAO	More
8	B-08	MULE YOGESH SHANKAR	Mule
9	B-09	NAGWANSHI ANIMESH SANJAY	—
10	B-10	NAIK OMKAR SANTOSH	—
11	B-11	NAKHATE VANITA MARUTI	—
12	B-12	NAVGHARE PRASAD MILIND	—
13	B-13	NAWALI SAGAR VILAS	Nawali
14	B-14	NEHARKAR DINESH BABASAHEB	Dinesh
15	B-15	NIKALJE SIDDHARTH SHASHIKANT	Nikalje
16	B-16	NIKHIL DATIR	Nikhil
17	B-17	NIKHIL JADHAV	Nikhil
18	B-18	NIKHIL MOHAN GHANEKAR	—
19	B-19	OLEKAR PRATIK VIJAY	—
20	B-20	ORASE ABHISHEK SHANKAR	Orase
21	B-21	ORSE MUKESH KISAN	—
22	B-22	PATIL KIRANRAJ NANA	—
23	B-23	PAWALE TUSHAR TUKARAM	—
24	B-24	PAWAR RACHANA NANDRAM	—
25	B-25	PHADE SHUBHAM KRUSHNAJI	—
26	B-26	PIMPLE VIKESH MANIK	Pimple
27	B-27	POTDAR GAURAV NAGNATH	Potdar
28	B-28	PRANAVKUMAR	Pranav
29	B-29	PRASAD GANESH PHARANDE	Prasad
30	B-30	PRITI ASHOK INDRALE	—
31	B-31	PRUTHVIRAJ YUVRAJ ANDHALE	—
32	B-32	RAJAPURE JYOTI DNYANESHWAR	—
33	B-33	RAJE PANKAJ DNYANOBA	—
34	B-34	RAJPUT VISHWAJITSING PREMSING	—



SR.no.	Roll. No	Student Name	Sign
35	B-35		
36	B-36	RANDIVE MANDAR GOKUL	randive
37	B-37	RANGOJI DIVYA GNYANADEV	divya
38	B-38	RATHOD ARCHANA SANJAY	archana
39	B-39	RAUT GANESH ASHOK	raut
40	B-40	RAWOOL VIKAS VIJAY	rawool
41	B-41	RAYMANE AKASH MACHINDRANATH	Ray
42	B-42	REVANSIDDHA NAMDEV GHOGARE	
43	B-44	SAIPRASAD SANJAY BHANGE	saiprasad
44	B-45	SANDEEP NEBBOOLAL	
45	B-46	SATAV SHUBHAM MUKESH	sataav
46	B-48	SATHE MEGA MOHAN	
47	B-49	SHIMPI NIKHIL RAJESH	rajesh
48	B-50	SHINDE DIKSHA DATTATRAY	diksha
49	B-51	SHINDE JYOTI VISHWAS	
50	B-52	SHINDE OM SANJAY	Om
51	B-53	SHINDE RUSHIKESH RAMRAJE	shinde
52	B-54	SHINDE VRUSHABH DILIP	
53	B-55	SINGH PRASHANT DURGAPRASAD	
54	B-56	SONUNE SACHIN KUNDALIK	
55	B-57	SUDATTA LAXMAN GAIKWAD	
56	B-58	SURYAWANSHI ABHISHEK BHANUDAS	
57	B-59	SURYAWANSHI RUSHIKESH RAJENDRA	surya
58	B-60	TAPKIR GAURAV SANDESH	saurabh
59	B-61	THORAT SUYASH SAMBHAJI	thorath
60	B-62	TIKAR RUPAL PANDURANG	ru
61	B-63	TUPLONDHE SIDDHANT SUNIL	sunil
62	B-64	UBALE RUTUJA MANOJ	ubale
63	B-65	VAISHNAVI KORATE	korate
64	B-66	VHANMANE AKSHAY DASHRATH	vhanmane
65	B-67	WAGHMARE GANESH KRISHNA	waghmare
66	B-68	WARLE AMRUTA LOBHAJI	warle
67	B-69	JAYESH SUDAM SAINDANE	

Prof. Richa Llage
Subject Teacher

Prof. Seema Shiyekar
HOD



Head of the Department
CIVIL ENGINEERING
Moze College of Engineering
Salwad, Salwad, Pune-411045

TRANSPORTATION ENGINEERING (BE Civil)

SITE VISIT

REPORT ON

HOT MIX PLANT

- **Name:-** PMC Hot Mix Plant
- **Location :**PMC Hot Mix Plant Yerawada, Pune
- **Date of Visit:** 26th Oct. 2023
- **Purpose of Visit:-** To Study the Hot mix plant and its process.
- **Guide Name:-** Er. Tushar Khare (Plant Manager)



Photo: PMC Hot Mix Plant, Yerawada.

The Department of Civil Engineering of Genba Sopanrao Moze College of Engineering Balewadi, Pune. Organized educational visit to **"PMC Hot Mix Plant"**, Yerawada, Pune. on 26th Oct. 2023 for B.E. Civil Engineering students to study different aspects of Hot Mix Plant. Visit was organized as per Savitribai Phule Pune University guidelines and recommendations regarding syllabus of B.E Civil Engineering.

Visit was organized with the prior permission and guidance of Head of Civil Engineering Department Prof. Seema Shiyekar & Subject Teacher Prof. Richa Lalge and Prof. Dr. Rajnikant Prasad guided the students.

Students left the GSMCOE Campus for visit on 26th Oct. 2023 at 9.00 am. Students carefully studied and observed the different Parts of Drum Mix plant & Batch Mix Plant.



INTRODUCTION:

Is an ISO 9001:2008 certified govt. own plant started in 1991, with initial 25 employees? The plant is operational for 24 hrs to meet the construction activities with various government departments like MIDC, CIDCO, PWD etc. of Maharashtra and various Municipal Councils and Municipal Corporations ,engaged with various construction activities which includes construction of roads, civil works etc. at different places in and around Pune which are accomplished successfully.



Photo: Hot mix Plant

The plant is spread over an area of 3.5 acres and has all the modern equipments needed for production of bitumen. The production capacity of plant is 45 tones per hour.

The raw material for bitumen production is imported from various PSUs like HPCL, BPCL, and IOCL situated in Mumbai. The aggregates are imported from Wagholi of various sizes 6mm, 12mm, 20mm. as per design needs. For warm conditions emulsion is used which is stored in barrels of 200 ltr. capacity. The transport temp to be maintained is around 150 degree Celsius.





Photo: Students learning plant working from plant Manager

The manufacture of coated road stone demands the combination of a number of aggregates, sand and a filler (such as stone dust), in the correct proportions, heated, and finally coated with a binder, usually bitumen based or, in some cases, tar, although tar was removed from BS4987 in 2001 and is not referred to in BSEN 13108/1 . The temperature of the finished product must be sufficient to be workable after transport to the final destination. A temperature in the range of 100 - 200 degrees Celsius is normal

Main Structure

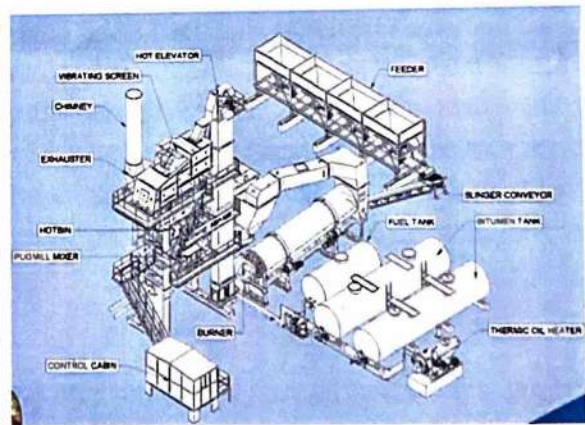


Photo: Hot Mix Plant Layout

The asphalt plant is mainly composed of cold aggregate supply system, drum dryer, coal burner, coal feeder, dust collector, hot aggregate elevator, vibrating screen, filler supply system, weighing and mixing system, asphalt storage, bitumen supply system.



Binder:-

Binder comes in different grades known as "penetration" or "pen" grades, with values varying between around 30 and 300. The pen value is an expression of the depth to which a standard needle will penetrate the surface of the binder at a specified temperature (the higher the value, the softer the binder). This has an effect on the workability of hot asphalt and the stiffness of the asphalt when cooled. Lower pen values give harder wearing. Asphalt wearing courses are typically 35-50 pen, base courses will be higher, typically 200 or 300 pen. The coating plant may combine binder of different grades to achieve a grade between those held on site.

Filler:-

Filler, as the name implies, fills the voids between aggregate grains and improves the wearing capabilities of the overall mix. It is stored and fed dry into the mix, during or after addition of binder. A common source of filler is fines from the heating process recovered by bag filters or wet filtration ponds from the exhaust of the heating drum.

• **Types of Plants:-**

Batch Type Plant

Mobile asphalt batch type plant A batch heater plant runs material from various cold feed hoppers into a heater drum, where the batch is then heated up to temperature. The hot aggregate is screened into numerous hot bins (depending on the various aggregate sizes). Each hot bin releases a certain amount of aggregate into a weigh hopper, then it is discharged into a mixing drum where (dry) filler and binder are added. The blend is mixed and discharged either directly into the delivery vehicles or into a small weighing and collecting hopper. To increase throughput, the heater can be heating the next batch while the previous is being mixed. Capacity is usually of the order of tens of tons per hour. Batch heater plant is used where short production runs are common (a different recipe can be used on each mix) or where total volume is low. Mobile batch heaters are available.

Continuous

The asphalt drum mix plant (also called continuous asphalt plant) is a set of machine that produces asphalt. It is the traditional type of asphalt mixing plant. Different from asphalt batch mix plant, the asphalt drum mix plant produce asphalt in a continuous way.

Classification

By structure, the asphalt drum mix plant can be divided as single drum type plant and twin drum type plant. By functions, the asphalt drum mix plant can be divided as stationary drum plant and mobile drumplant

Function principle

In the continuous (or drum) plant, raw aggregate is brought up from ground hoppers at a precisely controlled rate and fed into a heater drum similar to that used in the asphalt plant. Once heated it is immediately coated in the same drum (with the binder spraybars situated behind the burner) or in a smaller drum situated immediately behind it. Finished product is almost invariably discharged into a hot storage silo or surge bin rather than directly into delivery vehicles.



Changing mix is achieved by varying the feed rates of the aggregate, filler and binder feeders, with time delays so that the change of blend occurs at the same point in the coating drum. Sand tends to move more slowly through the heating drum, so the blend proportions will not necessarily change at the same point on the feed conveyor. It is common to divert a small amount of material to a waste chute when the transition point reaches the hot elevator.

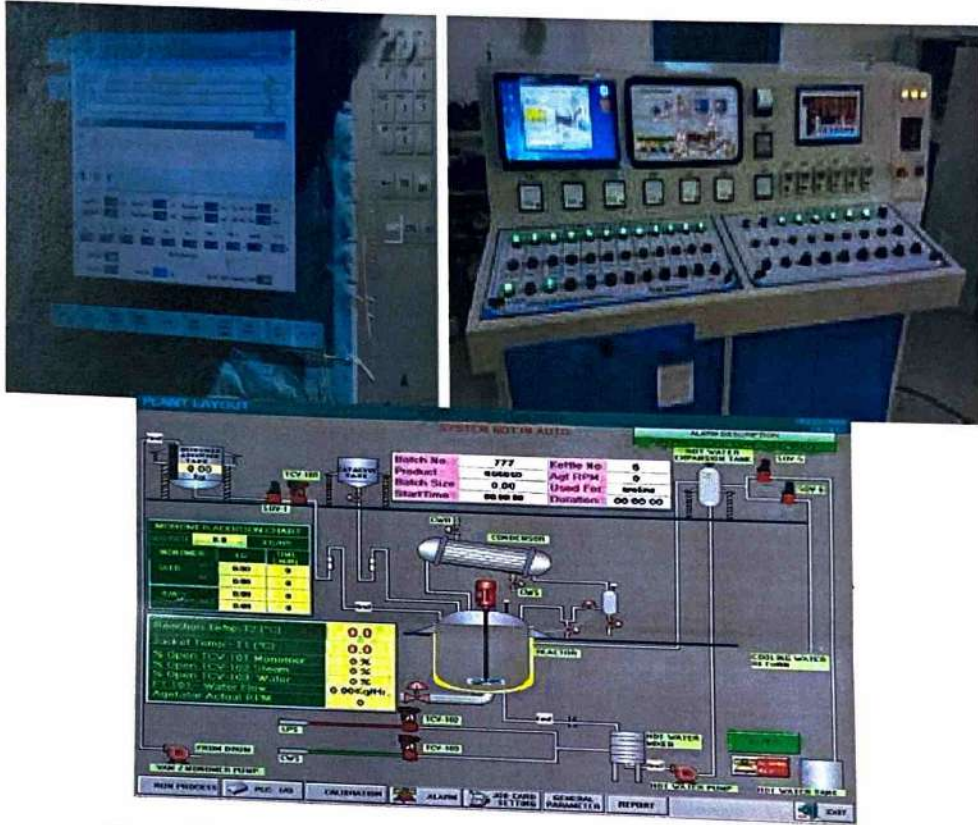


Photo: Display control Panel setup during working with Scada software

Drum mix plants are not really suitable for short production runs; although with sophisticated controls the change of mix can be accurate to within some seconds, production rates of hundreds of tonnes per hour may equate to a tonnes every ten seconds or so.

Hot storage :-

Finished Road stone must be kept heated to avoid setting. It is commonly stored in large electrically heated insulated stainless steel silos, from which it is weighed into delivery vehicles. This may be achieved by intermediate weigh hoppers (which may shuttle between hoppers) or by mounting the hoppers directly on load cells. Control of load out by this method involves accurately predicting the material "in flight" between the discharge door and the vehicle.

CONCLUSION:-

The site visit to hot mix plant gives us the clear idea about the process of this plant. We learn about the types of hot mix plant such as batch mix plant & drum mix plant. We also learn about binder and filler material.





“Empowerment Through Technological Excellence”
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

(Recognized by AICTE, New Delhi; Approved by Govt. of Maharashtra; Affiliated to Pune University)
25/1/3, Balewadi, Pune – 411045. Ph: 020-27390500

Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in

Department Of Civil Engineering

DATE: 29/05/2023

RMC SITE VISIT NOTICE

All the students of S.E. are hereby informed that , your CT site visit to **ACCURATES RMC PLANT at Nande Road** has been arranged on **02/06/2023**. All Students are asked to be present at **8:30 am sharp**. in college premises.

NOTE:

- **STUDENTS MUST BE PRESENT IN COLLEGE UNIFORM**
- **STUDENTS SHOULD CARRY WATER BOTTLE,CAP, SHOES etc**
- **ATTENDANCE IS COMPULSORY**

Prof. Shilpa Mahajan,

(Faculty coordinator)

HoD

Civil Engineering Department
Head of the Departmen
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045





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S. No 25/1/3, Balewadi-Baner, Pune – 411045
(Approved by AICTE and Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University)
DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999
Ph: 020-29513395 Website: www.gsmozecoe.org Email: gsmoze@yahoo.co.in

Date: 30/05/2023

To,
The Principal
GSMCOE, Balewadi Pune.

Subject:- Request to grant the Permission to visit RMC PLANT .

Respected Sir,

With reference to above mention subject we want to arrange site visit for the subject **CONCRETE TECHNOLOGY** for second year students of Civil Engineering Department.

The site is situated near Mahalunge- Nande Road which nearly 5 km. away from our campus.

It is kind request to grant the permission for same along with 30 students and two faculties to visit site on date **02/06/2023 at 9 am.**

Thanking you.

Prof. Shilpa Mahajan
(Faculty coordinator)

HoD

Civil Engineering Department



Principal

(GSMCOE, Balewadi)
PRINCIPAL

Genba Sopanrao Moze College of Engg
25/1/3, Balewadi, PUNE-411 045



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HoD

Civil Engineering Department



Principal

(GSMCOE Balewadi)
PRINCIPAL

Genba Sopanrao Moze College of Engg
25/1/3, Balewadi, PUNE-411 045



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DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph. : 020-29513395 Website : www.gsmozecoe.org Email : gsmoze@yahoo.co.in

Founder President : Shri. Rambhau Moze

Ref. No. :

Date :

To,

The Plant Manager
ACCURATES RMC Plant,
Mahalunge -Nande Road, Pune.

Subject:- Permission to visit RMC PLANT .

Respected Sir,

We introduce ourselves as G. S. Moze College of engineering Balewadi is affiliated to University of Pune and approved by AICTE New Delhi. The college runs five UG program including Civil Engineering.

There would be a total of 30 students accompanied by 02 faculty members are interested to Visit your renowned RMC PLANT Bhumkar Chowk Wakad. as a part of SE SPPU Syllabus in Concrete technology Subject. The visit is aimed at enhancing their Practical knowledge. We intend to take a round of the entire RMC plant. I assure you that no nuisance will be created and the visit will be carried out with proper discipline. I hope you will give us permission to visit the same.

We are expecting visit on date (02/06/23)

Looking forward for your positive consent in this regard.

Thanking you.


Prof. Shilpa Mahajan

(Faculty coordinator)



HoD


Principal

(GSMCOE, Balewadi)

PRINCIPAL

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045





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Ph. : 020-29513395 Website : www.gsmozecoe.org Email : gsmoze@yahoo.co.in

Founder President : Shri. Rambhau Moze

Ref. No. : GSMCOE/ADMIN/292/2022-23

Date : 02/06/2023

To,

The Plant Manager

ACCURATES RMC Plant,

Mahalunge -Nande Road, Pune.

Subject: Letter of thanks

Respected Sir,

The Genba Sopanrao Moze trust is an educational trust, a pioneer in imparting quality professional's education in field of Engineering. It has established two campuses in Pune at Wagholi & Balewadi.

We Department of Civil Engineering of Genba Sopanrao Moze College of Engineering, Balewadi, Pune, would sincerely thank you for giving us permission to visit your renowned RMC plant at Mahalunge. Our SE students are satisfied with the knowledge shared by entire team. We really appreciate the time spent by Project Manager with our students and knowledge shared.

Thanking you.

Your Regards,

Prof. Shilpa Mahajan

Workshop Coordinator

& Subject Incharge

Prof. Seema Shiyekar

HoD

Civil Engineering Department

Dr. Ratnarajakumar J. Ambi

Principal

(GSMCOE, Balewadi) **PRINCIPAL**

Genba Sopanrao Moze College of Engg
25/1/3, Balewadi, PUNE-411 045





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GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING
Balewadi, Pune - 411045.
Civil Engineering Department
Academic Year 2022-23
Site Visit Attendance
Class - SE

Date-2/6/23

Sr. No	Roll No	Name of Student	Sign
1	1	AYUSH SHASHIKANT WAKODE	<i>Wakode</i>
2	2	BAGADE ROHAN TANAJI	—
3	3	BAHIRAM CHAHUTI BAPU	<i>Bahuram</i>
4	4	BHONGALE AMOL HANUMANTRAO	—
5	5	BIRADAR VYANKAT SATYANARAYANA	<i>Biradar</i>
6	6	CHAUDHARI LATESH DILIP	<i>Latesh</i>
7	7	CHAUDHARI PRAVITRA NITINKUMAR	<i>Chav</i>
8	8	CHAVAN ASHISH VILAS	<i>Vilas</i>
9	9	CHILE RUSHIKESH JIVAN	<i>Chile</i>
10	10	DALVI MANIK KRISHANA	—
11	11	DANI SHADANAN JAIPRAKASH	<i>Dani</i>
12	12	DESHMANE MONIKA SURYAKANT	<i>Monika</i>
13	13	DHOBALE HARSHAL SUDHAKARRAO	—
14	14	DHORE PRANAV SURESH	—
15	15	DHUMAL SAIRAJ TANAJI (NA)	—
16	16	DOIPHODE KISHOR KALYAN	<i>Kishor</i>
17	17	FEGADE SUSHANT VINOD	<i>Sushant</i>
18	18	GANDOLE PRATIBHA SUNIL	<i>Pratibha</i>
19	19	GAVALI ROHAN BABASAHEB	<i>Rohan</i>
20	20	GODAMBE HARSHAL SANTOSH	<i>Harsh</i>
21	21	JADHAV DIPAK VITTHAL	<i>Dipak</i>
22	22	JOSHI DURGESH SUNIL	<i>Joshi</i>
23	23	KAKADE PRADIP SUDHIR	<i>Pradip</i>
24	24	KAMBLE DIVAKAR IRAPA	<i>Divakar</i>
25	25	KAMBLE RITESH VINOD	<i>Ritesh</i>
26	26	KAMBLE VRUSHABH ARUN	—
27	27	KASHALE DIPAK CHINDHU	—
28	28	KIRAN PRABHAKAR KANK	—
29	29	KORE AKSHAY LAXMAN	—
30	30	KSHIRSAGAR SHREYA BABASAHEB	—
31	31	KUMBHAR ROHIT SANTOSH	<i>Rohit</i>
32	32	LOHALE PRAJYOT GAUTAM	<i>Prajyot</i>
33	33	MANE ATHARV DATTATRAYA	<i>Mane</i>



34	34	MANNAN BHARATHY BABU	Babu
35	35	MANVATKAR SAHIL DATTATRAY	
36	36	MORE DNYANESHWAR BHASKAR	
37	37	MORE VAIBHAV VASANT	
38	38	NAGARALE VARSHA SUBHASH	
39	39	NEVASE PRATIKSHA GANPAT	
40	40	PATHAN MAHEK MEHBOOB	
41	41	PATIL JAYESH SHARAD	
42	42	PATIL SADANAND DEVENDRA	
43	43	PAVAN SAHEBRAO AHIRE	
44	44	PHALPHALE HARSHVARDHAN SUNIL	
45	45	PINJAN SHANTANU DATTATRAY	Rm
46	46	RAGADE ANIKET HIRALAL	Rer
47	47	RATHOD SANJAY KHANDU	Rathod
48	48	RUSHIKESH CHANDRAKANT DESHMUKH	
49	49	RUSHIKESH SUDHIR JAGDALE	Jar
50	50	SHALAKA DHANRAJ BHALERAO	Sh.
51	51	SHELAR VAIBHAV GORAKSHANATH	Shekar
52	52	SHIKARE SUNIL SHANKAR	Shitare
53	53	SHINDE KHEMCHAND KRUSHNARAO	
54	54	SUNJIT BHARAT KABLA	
55	55	SURVE PRIYESH RAJESH	
56	56	SURYAWANSHI KOMAL DIPAK	Komal
57	57	TAMBAT SUARAV DINESH	Sambal
58	58	TAPKIR SARTHAK JALINDAR	
59	59	VAVALE PRANAV NAVANATH	Poan
60	60	VINEETH MOHAN	Vin
61	61	VISHWAKARMA ARCHANA NAGENDRA	
62	62	WAGH PRAVIN ADINATH	
63	63	WAGHMARE VINAYAK VASUDEV	
64	64	W Aidande Prathmesh Avinash	
65	65	WANJALE HARSHAL NAMDEO	
66	66	WARADE KARTIK GAJANAN	

Asst. Pro. S.R.Mahajan
Course Incharge

Prof. Seema Shiyekar
HOD



Head of the Department
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Genba Sopanrao More College of Engineering
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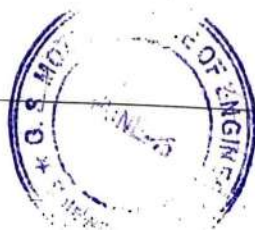
REPORTON
VISIT TO RMC PLANT.
(Accurates RMC)

GS MOZE COLLEGE OF ENGINEERING,
BALEWADI

(Department of civil engineering)

CONCRETE TECHNOLOGY

The academic year 2022-2023



INTRODUCTION

- Ready-mix concrete (RMC) is a ready-to-use material, with a predetermined mixture of Cement, sand, aggregates, and water.
- The idea of Ready Mix Concrete was first introduced by Architect Jürgen Heinrich Magen's, he got his patent for RMC in Germany in 1903.
- A plant in a central mixer or truck mixer, before delivery to the construction site in a condition ready for placing by the builder. Thus, 'fresh' concrete is manufactured in a plant away from the construction site and transported within the requisite journey time. The RMC supplier provides two services, firstly one of processing the materials for making fresh concrete and secondly, of transporting a product within a short time.
- Between the years 1950 and 1980 considerable growth of RMC took place in the United States.
- In India, RMC was first initially used in 1950 during the construction sites of Dams like Bhakra Nangal, and Koyna.
- The increasing availability of special transport vehicles, supplied by the new and fast-growing automobile industry, played a positive role in the development of the RMC industry.



SITE VISIT

- SITE DETAILS:-
- NAME OF SITE:- ACCURATES RMC PLANT.
Mahalunge- Nande road Pune.
- DAY AND DATE:- FRIDAY 2 JUNE 2023.
- OBJECTIVE:- STUDY OF RMC PLANT,
TRANSIT MIXER, AND
BATCHING.
- GUIDED BY:- PROF. SHILPA MAHAJAN.
- EXPERT FROM SITE:- MR. BALAJI KADAM
(QUALITY CONTROL MANAGER)
- DURATION :- 10:30 AM – 12:00 AM
- TOTAL STUDENTS COUNT:-28



- **VISIT DETAILS:-**

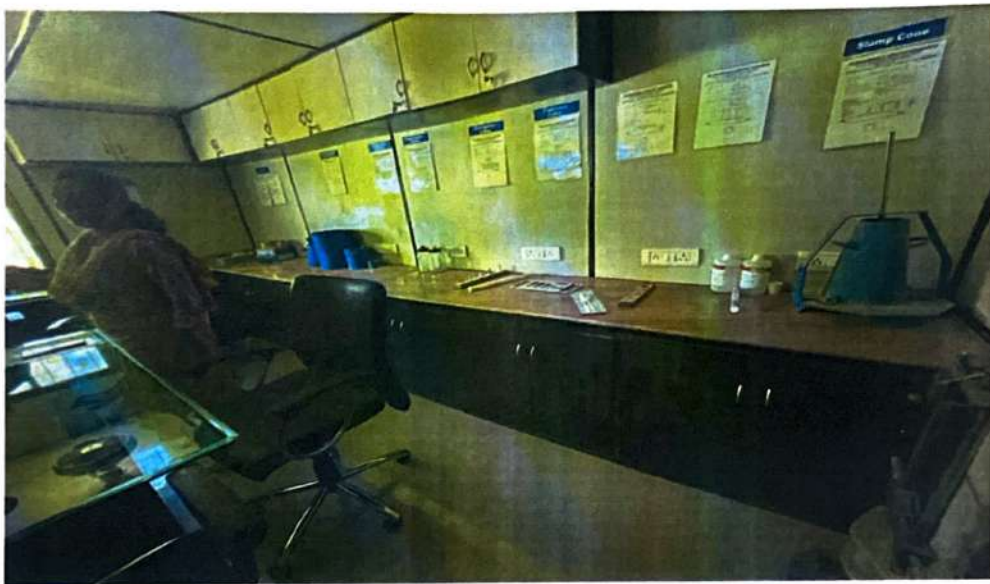
The students of Second Year Civil Engineering with college teaching staff reached the **Accurates RMC Plant at Nande** around **10:30 am** for the site visit. We were welcomed by **Mr. Balaji** and his associate at the site.

After a brief introduction about his site duties and the RMC plant, we started with the visit.



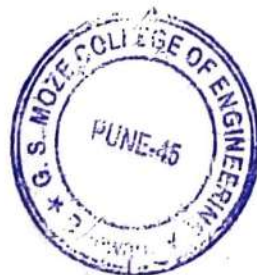
- **INTRODUCTION TO TESTING EQUIPMENT AND TEST:-**

After a brief introduction, we were given a tour of the testing facilities on the plant.



- **COMPRESSIVE STRENGTH OF CONCRETE BY USING CTM :-**

Compressive strength is the ability of a material or structure to carry the loads on its surface without any crack or deflection. A material under compression tends to reduce its size, while in tension, size elongates. For this samples of 7 days curing were used.





- **WORKABILITY OF CONCRETE BY SLUMP CONE TEST:-**

Concrete slump test or slump cone test is to determine the workability or consistency of concrete mix prepared at the laboratory or the construction site during the progress of the work. Concrete slump test is carried out from batch to batch to check the uniform quality of concrete during construction.. For this test we took fresh concrete from agitator truck in a wheel barrow, then poured the concrete in the slump cone we got the slump value of above 120mm hence the slump is collapsible slump.

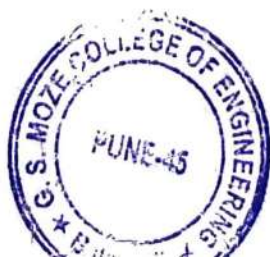




• TEMPERATURE TESTING OF CONCRETE:-

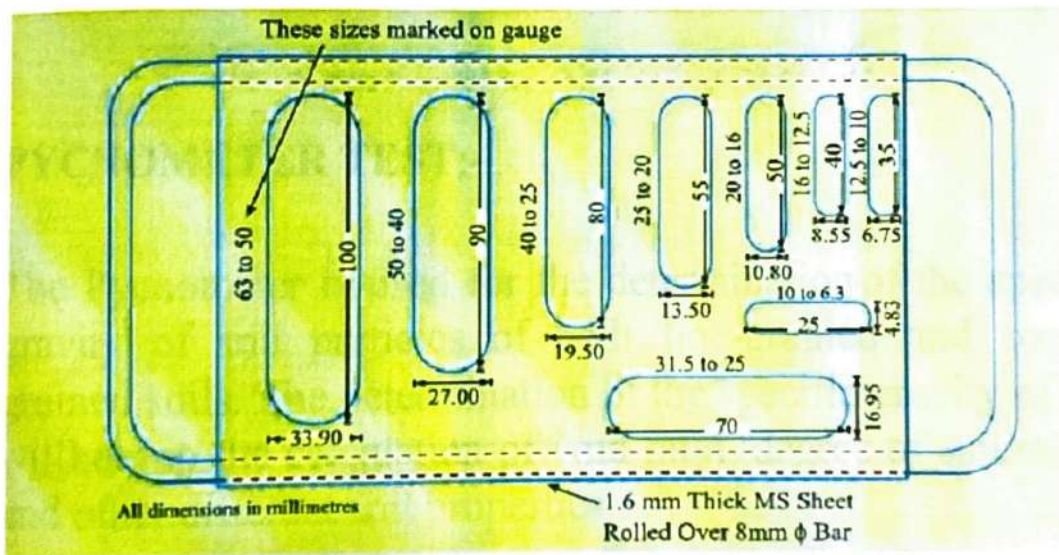
The temperature of fresh concrete can be determined as per ASTM C1064 to ensure the concrete's conformity with standard temperature specifications. The method employs a calibrated thermometer to test the concrete temperature.

The temperature of the concrete affects the way it cures, and the final-strength gain. Hence, it is necessary to test the temperature of the concrete during its mixing and placing.



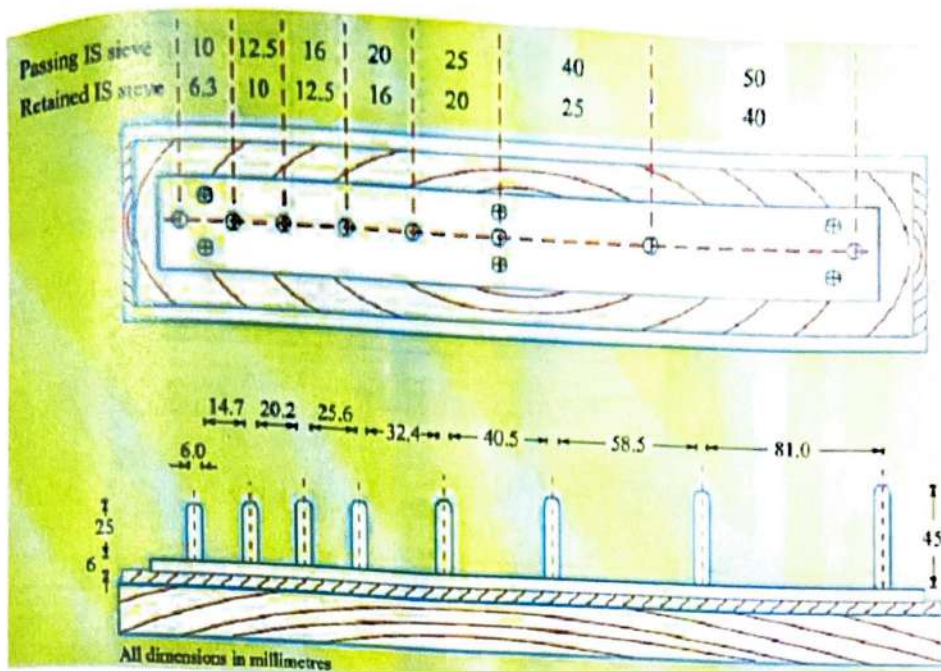
• FLAKINESS AND ELONGATION INDEX OF AGGREGATE:-

Particle shape and surface texture influence the properties of freshly mixed concrete more than the properties of hardened concrete. Rough-textured, angular, and elongated particles require more water to produce workable concrete than the smooth, rounded compact aggregate. Consequently, the cement content must also be increased to maintain the water-cement ratio. Generally, flat and elongated particles are avoided or are limited to about 15 % by weight of the total aggregate.



Thickness Gauge- For Flakiness Index





Length Gauge- For Elongation Index

• PYCNOMETER TEST:-

The Pycnometer is used for the determination of the specific gravity of soil particles of both fine-grained and coarse-grained soils. The determination of the specific gravity of soil will help in the calculation of void ratio, degree of saturation, and other different soil properties.



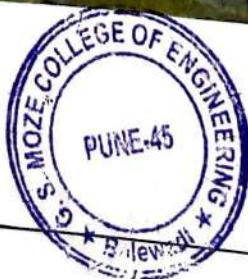
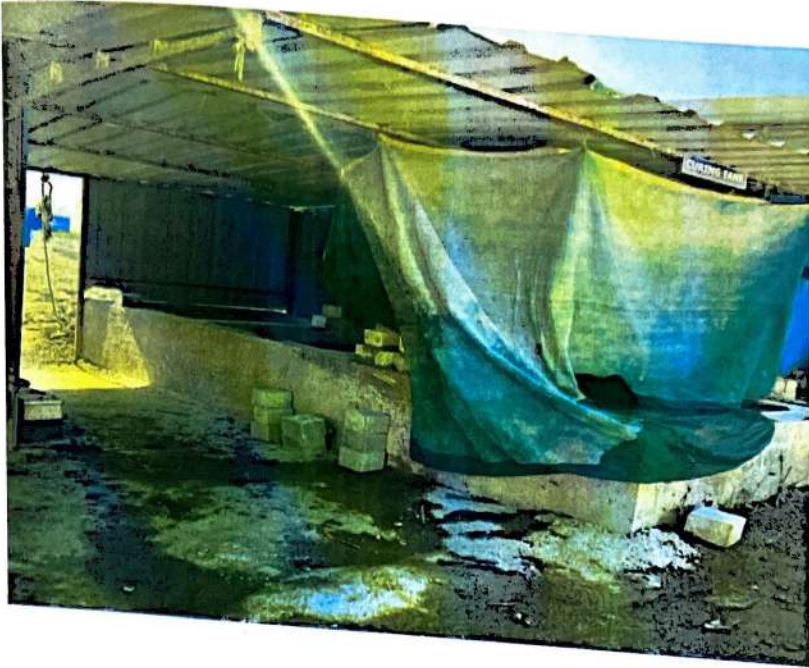


• CURING OF CEMENT CONCRETE:-

Curing of cement concrete is defined as the process of maintaining the moisture and temperature conditions of concrete for hydration reaction to normal so that concrete develops hardened properties over time. The main component which needs to be taken care of is moisture, heat, and time during the curing process .



The curing of concrete for a longer duration increases the strength and durability of concrete structural members. However, after 28 days of the casting of concrete, 99% of the hydration process of the concrete is completed. Further to which continuation of curing is of no use.



• INTRODUCTION TO RMC PLANT AND EQUIPMENT:-

After finishing with the test and testing material we started with the **RMC PLANT**

• SILOS:-

Three silos of 100-ton capacity were used containing water, cement, and water respectively. They were filled using air compressors.



• CONTROL ROOM:-

This is where the functioning of the plant is overseen by an operator. The operator uses a pc to input already designed mixes for concrete according to batching order.



• AGGREGATE STORAGE:-

The aggregate is usually stored in diff sizes ranging from 20mm to crush and is brought to the mixer using a mechanical plow of 70 kg capacity.



CONCLUSION

We were able to understand and learn the proper functioning and importance of RMC PLANT through this visit.





“Empowerment Through Technological Excellence”
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

(Recognized by AICTE, New Delhi; Approved by Govt. of Maharashtra; Affiliated to Pune University)
25/1/3, Balewadi, Pune – 411045. Ph: 020-27390500

Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in

Department Of Civil Engineering

DATE 26/04/2023

SITE VISIT NOTICE

All the students of B.E. are hereby informed that , your QSCT site visit **under construction site (Signature Park)at Wakad** has been arranged on **28/04/2023**. All Students are asked to be present at 10 am sharp. in college premises.

NOTE:

- **STUDENTS MUST BE PRESENT IN COLLEGE UNIFORM**
- **STUDENTS SHOULD CARRY WATER BOTTLE,CAP, SHOES etc**
- **ATTENDANCE IS COMPULSORY**

Prof. Shilpa Mahajan

(Faculty coordinator)

HoD

Civil Engineering Department

Head of the Department
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune - 411045





"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

S. No. 25/1/3, Balewadi, 411 045.

(Approved by AICTE and Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University)

DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph. : 020-29513395 Website : www.gsmozecoe.org Email : gsmoze@yahoo.co.in

Founder President : Shri. Rambhau Moze

Ref. No. : GSMCOE/ADMIN/255/2022-23

Date : 26/04/2023

To,

Mr. Dipesh Bafna (CEO)

Working in Education Industry & Skill Development)

Know How Schools LLP. Company

Subject: Regarding permission to visit site Construction at Wakad

Respected Sir,

We introduce ourselves as G. S. Moze College of engineering Balewadi is affiliated to University of Pune and approved by AICTE New Delhi. The college runs five UG program including Civil Engineering.

There would be a total of 46 students accompanied by 02 faculty members are interested to Visit your **under construction site (Signature Park) at Wakad** as a part of BE SPPU Syllabus in Quantity Surveying Contracts and Tendering Subject. The visit is aimed at enhancing their Practical knowledge. We intend to take a round of the entire Construction. I assure you that no nuisance will be created and the visit will be carried out with proper discipline. I hope you will give us permission to visit the same.

We are expecting visit on date (28/04/23)

Looking forward for your positive consent in this regard.

Thanking you.

Prof. Shilpa Mahajan

(Faculty coordinator)

HoD

Civil Engineering Department

Head of the Department

CIVIL ENGINEERING

Genba Sopanrao Moze

25/1/3, Balewadi

411 045

Principal

(GSMCOE, Balewadi)

PRINCIPAL

Genba Sopanrao Moze College of Engg

25/1/3, Balewadi, PUNE-411 045





G S MOZE COLLEGE OF ENGINEERING BALEWADI PUNE
DEPARTMENT OF CIVIL ENGINEERING
BE SEM-I I -A.Y-2022-23

Site Visit Attendance

Date:-04/05/2023

Division : BE-A

Subject:-QSCT

Subject Incharge:-Prof.Shilpa R.Mahajan

Roll. No	Student Name	Sign
A-01	DESAI POOJA DINKAR	
A-02	ADISHERLAWAR VITTHALNATH LAXMANRAO	
A-03	AKASH ANNASAHEB KALASKAR	<i>Akash</i>
A-04	ARBUNE VAIBHAV PANDURANG	
A-05	BACHCHE SHAILESH VASANT	
A-06	BAWANKAR AMIT DNYANESHWAR	
A-08	BHANDARKAR GAURAV RAMLING	
A-09	BHELSAIKAR AJINKYA RAJU	<i>Ajinkya</i>
A-10	BIJAWA PRITI RAMDASRAO	
A-11	BIRADAR GAURAV DNYANESHWAR	
A-12	CHAUDHARI DHIRAJ POPATRAO	
A-13	CHAUGULE SANCHIT RAGHUNATH	
A-14	CHAVAN AVINASH REVAN	<i>Chavan</i>
A-15	CHAVAN MANASI VITTHAL	
A-16	CHAVAN RUTVI PRADEEP	
A-17	CHAVAN SANGRAM MANSING	<i>Chavan</i>
A-18	CHAVAN SURAJ RAMESH	<i>Suraj</i>
A-19	CHIPLUNKAR SAHIL SANJAY	
A-20	DALVI TEJAS VILAS	
A-21	DEVAKAR TANAJI TUKARAM	
A-22	DEVENDRA SHIRISH MAHALE	<i>Tanaji</i>
A-23	DHADDE OMKAR ASHOK	
A-24	DHANGEKAR ABHISHEK MAHADEO	<i>Omkar</i>
A-25	DHUMAL DISHA DASHARTH	
A-26	DUBALE ATHARV HANUMANT	
A-27	DUDHAL SHUBHAM SANJAY	
A-28	GADEKAR SHRADDHA GAJANAN	
A-29	GADIWADD SWAPNIL TIPANA	<i>Shubham</i>
A-30	GAIKWAD AKSHAY SURESH	
A-31	GAIKWAD NIKHIL VISHNU	
A-32	GANDHARE JANHAVI AJAY	
A-33	GANESH MAHADEV KADAM	
A-34	GAVALI SHREYASH JAGDISH	
A-35	GHODKE VISHAL BALIRAM	<i>Shreyash</i>
A-36	GIR SWATI KHUSHAL	
A-37	GODAGE SAMEER SURESH	
A-38	GUNDAL CHANDRAKANT RAMDAS	
A-39	GUNJAL SHIVRAJ BRAMANAND	
A-40	HAWALDAR SANKET BALKRUSHNA	<i>Shivraj</i>
A-41	ITKALE SHUBHAM DILIP	
A-42	JADHAV PRATIK NANDKUMAR	
A-43	JADHAV PRATIK RAVINDRA	<i>Pratik</i>
A-44	JADHAV VAIBHAV PRAKASH	
A-45	JAGTAP GURUPRASAD AJAY	
A-46	JAGTAP SACHIN RAJENDRA	
A-47	JOSHI SOHAM SANJOT	<i>Soham</i>
A-48	KADAM AKASH BABASAHEB	
A-49	KADAM AKASH BHAUSAHEB	
A-50	KADAM ANIKET MALHARI	<i>Aniket</i>
A-51	KALE RUSHIKESH BABASAHEB	
A-52	KALOKHE SURAJ AVINASH	<i>Suraj</i>
A-53	KAMBLE PRAJAKTA JITENDRA	
A-54	KAMBLE PRASHIK BHARATBHUSHAN	
A-55	KAMBLE RUCHIKESH SUDESHKUMAR	
A-56	KAMBLE RUTURAJ DILIP	
A-57	KAMBLE VINAY ANIL	
A-58	KHAN HUMA JAVEDKHAN	<i>Khan</i>
A-59	KHANDARE RAJESHWAR RAMESHRAO	
A-60	KHARAT AVINASH VINAYAK	
A-61	KOLEKAR AMOL SURESH	
A-62	KONDE PRATHAMESH SHRIKANT	
A-63	KORKE SAGAR DATTATRAY	
A-64	KSHIRSAGAR VISHWANATH BHAGWAN	<i>Vishwanath</i>
A-65	KUMBHAR RAJU ANNA	
A-66	LAKKAM SUDHANSHU SANJAY	
A-67	MADAKE SAYALI BALU	
A-68	MAGARE PREETI DATTATRAY	
A-69	MANDHARE ANIKET UDDHAV	



G S MOZE COLLEGE OF ENGINEERING BALEWADI PUNE

DEPARTMENT OF CIVIL ENGINEERING

Site Visit Attendance

Date:-04/05/2023

Division : BE-B

Subject:-QSCT



Subject Incharge:-Prof.Shilpa R.Mahajan

Roll. No	Student Name	Sign
B-01	MANE GEETANJALI GHANSHYAM	
B-02	MANSUTE GAURAV SUDHAKAR	
B-03	MATERE PRADIP RAMESH	Multip. Mat.
B-04	MESHAM RAVINDRA DILIP	
B-05	MHALUNGEKAR SAURABH SAMBHAJI	
B-06	MORE RAHUL VASANT	
B-07	MORE VANDANA BHAGWANRAO	
B-08	MULE YOGESH SHANKAR	
B-09	NAGWANSHI ANIMESH SANJAY	
B-10	NAIK OMKAR SANTOSH	
B-11	NAKHATE VANITA MARUTI	
B-12	NAVGHARE PRASAD MILIND	
B-13	NAWALI SAGAR VILAS	
B-14	NEHARKAR DINESH BABASAHEB	
B-15	NIKALJE SIDDHARTH SHASHIKANT	
B-16	NIKHIL DATIR	
B-17	NIKHIL JADHAV	
B-18	NIKHIL MOHAN GHANEKAR	
B-19	OLEKAR PRATIK VIJAY	
B-20	ORASE ABHISHEK SHANKAR	
B-21	ORSE MUKESH KISAN	
B-22	PATIL KIRANRAJ NANA	
B-23	PAWALE TUSHAR TUKARAM	
B-24	PAWAR RACHANA NANDRAM	
B-25	PHADE SHUBHAM KRUSHNAJI	
B-26	PIMPLE VIKESH MANIK	
B-27	POTDAR GAURAV NAGNATH	
B-28	PRANAVKUMAR	Pranavkumar.
B-29	PRASAD GANESH PHARANDE	
B-30	PRITI ASHOK INDRAL	
B-31	PRUTHIVIRAJ YUVRAJ ANDHALE	
B-32	RAJAPURE JYOTI DNYANESHWAR	
B-33	RAJE PANKAJ DNYANOBA	
B-34	RAJPUT VISHWAJITSING PREMSING	
B-35	RANDIVE MANDAR GOKUL	
B-36	RANGOJI DIVYA GNYANADEV	
B-37	RATHOD ARCHANA SANJAY	
B-38	RAUT GANESH ASHOK	
B-39	RAWOOL VIKAS VIJAY	
B-40	RAYMANE AKASH MACHINDRANATH	
B-41	REVANSIDDHA NAMDEV GHOGARE	
B-42	SAIPRASAD SANJAY BHANGE	
B-44	SANDEEP NEBBOOLAL	
B-45	SATAV SHUBHAM MUKESH	
B-46	SATHE MEGA MOHAN	
B-48	SHIMPI NIKHIL RAJESH	
B-49	SHINDE DIKSHA DATTATRAY	
B-50	SHINDE JYOTI VISHWAS	
B-51	SHINDE OM SANJAY	
B-52	SHINDE RUSHIKESH RAMRAJE	
B-53	SHINDE VRUSHABH DILIP	
B-54	SINGH PRASHANT DURGAPRASAD	
B-55	SONUNE SACHIN KUNDALIK	
B-56	SUDATTA LAXMAN GAIKWAD	
B-57	SURYAWANSHI ABHISHEK BHANUDAS	
B-58	SURYAWANSHI RUSHIKESH RAJENDRA	
B-59	TAPKIR GAURAV SANDESH	
B-60	TEMKAR SAURABH VILAS	
B-61	THORAT SUYASH SAMBHAJI	
B-62	TIKAR RUPAL PANDURANG	
B-63	TUPLONDHE SIDDHANT SUNIL	
B-64	UBALE RUTUJA MANOJ	
B-65	VAISHNAVI KORATE	
B-66	VHANMANE AKSHAY DASHRATH	
B-67	WAGHMARE GANESH KRISHNA	
B-68	WARLE AMRUTA LOBHAJI	
B-69	JAYESH SUDAM SAINDANE	



SITE VISIT REPORT

Site Visit And Report For Understanding of BBS with Photographs.

- o **Date Site Visit** : 28 April 2023, 10 Am to 2 Pm.
- o **Name of Site** : Signature Park.
- o **Site Location** : S.No. 33, Aundh - Ravet BRTS Road, Gujar Nagar, Jai Hind Nagar, Thergaon, PCMC, Maharashtra - 33
- o **Project Type** : Residential Real Estate.
- o **Project Manager** : Mr. Naik A. Sir.
- o **Site Engineer** : Mr. Jayane Nandkishor.
- o **Under Control of** : PCMC Commissioner and Private Developer of Signature Group.
- o **Building Type** : 3G + 21 Floor
- o **Total No. of Flat** : 225 Flatts.
- o **Flat Size** : 1 BHK - 500 Carpet Area.
- o **Start Date** :
- o **End Date** :
- o **Work @ site Visit Time** : R.C.C. Work of column beam, Slab centering, shuttering, casting cutting and bending of steel.
- o **Total No. of Building** : 13 Buildings.
- o **Subject Teacher** : Shipla Mahajan.



Bar Bending Schedule :

It is process of cutting, bending & fixing the reinforcement bars as per drawing. But without dimensions we are not calculate of steel required in project. It is list of reinforcement bars for any structural element that includes a mark, shape, size, location, length & bending details of the reinforcement. It is often ref. to as BBS bars bending schedule.

Guidelines to follow :

- Every RCC structural element should have a separate BBS. Do not group them as one.
- Ensure to follow the IS guidelines for bending hook length lap length & development length cal.
- It would be handy if you memorize the unit wt. of steel
- Ensure the estimation by thumb rule cal. of steel reinforcement for different structural members.
- Keep bar bending shape codes handy for easy ref.

BBS Basics & Formulae to be remembered :

- ϕ OF bars (in mm) 8, 10, 12, 16, 20, 25, 32 mm.
- Std. length of one reinforcement bar 12 m or 40 feet.
- Unit wt/kg = $\frac{D^2}{162}$ 'D' = Diameter of bar.

Extension/Length Formulas :

- Footing lap length formula = $40d$
- Column lap length formula = $50d$
- Development length for dowel bars = $16d$.
- Hook length = $10d / 11d$ (IS code 456, 2000)

Concrete Cover or Clear Cover :

- Footing = 50 mm
- Column = 40 mm
- Beam = 25 mm
- Slab = 20
- Staircase = 20 mm

Bend Deduction

$$45^\circ = 1d$$

$$90^\circ = 2d$$

$$135^\circ = 3d$$

Crank length formula

$$45^\circ = 0.42d$$

$$30^\circ = 0.27d$$

$$60^\circ = 0.58d$$

• Starter :

It is a small piece of column which is cast before the whole column is cast. It is starter to fix the column shuttering if the starter is already in place.

• Fram Work :

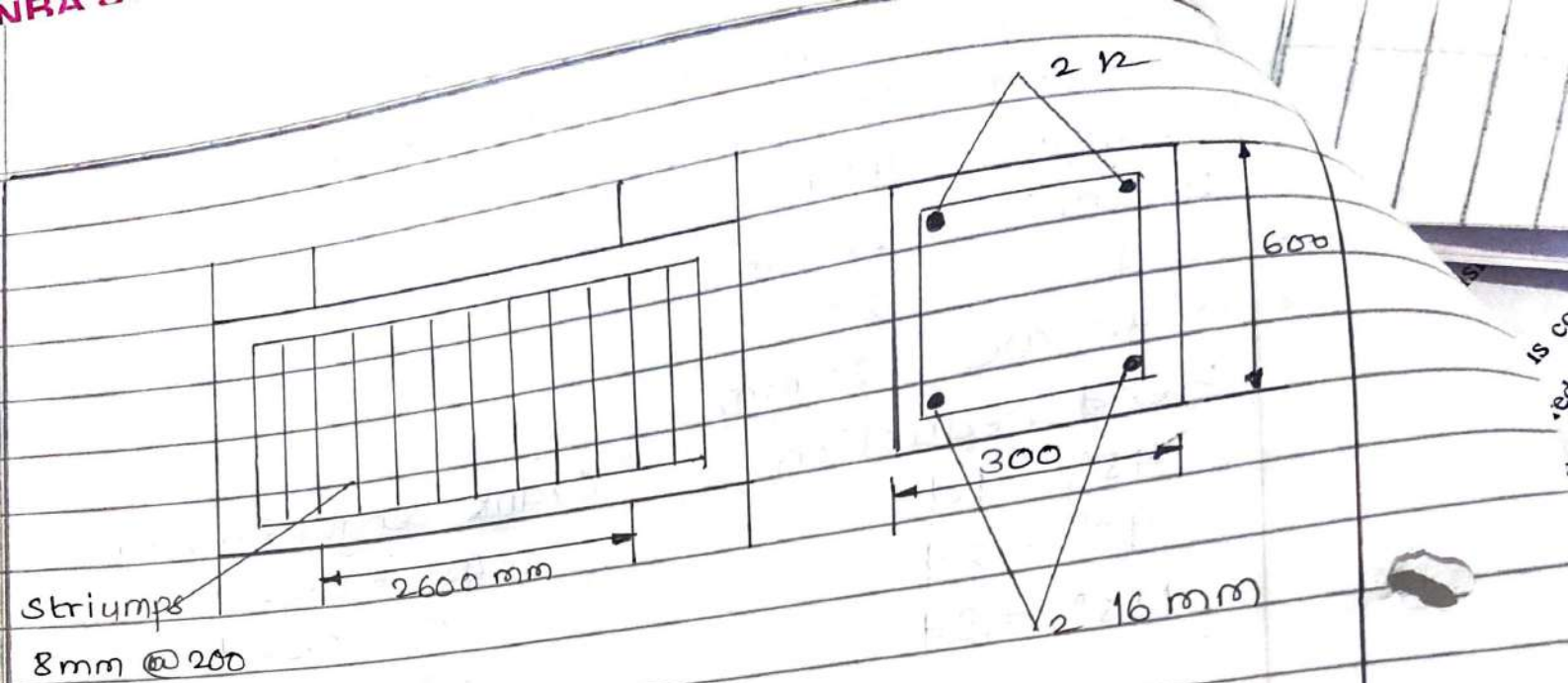
It was used having thickness 25 mm.

Shikarja was used for holding the framwork in reqd. dim. steel props are used to hold the column in vertical position.

• Calculation of BBS :

- Find no. of reinforcement bars to be used.
- Find the cutting length of each other.
- Find the no. of stirups eal. or no. of distributⁿ bar eal.
- Find the cutting length of stirups or extra bars into the table and find out the quantity of steel.





Concrete Cover Top and Bottom

40 mm @ side = 25 mm

45° bend = 1d

90° bend = 2d

135° bend = 3d

Given data :

Beam size = 600 x 300 x 2600 mm

Bottom Reinforcement 16 mm of 2 no.

Top R/f 12 mm of 2 no.

Stirrups = 8 mm of 200 c/c

Concrete cover = 25 mm @ side

Development length as SD d.

Cutting Length

Step 1

Cutting length = clear span + 2 x Ld . n

of Top bar = 2600 + (2 x SD x 12)

= 3800 mm

Cutting length of bottom bar

$$= L - \text{Clear span} + 2 \times \text{development length}$$

$$= 2600 + (2 \times 50 \times 16)$$

$$= \boxed{4200 \text{ mm}}$$

• Step 2 -

Find number of stirrups

$$\text{Number of stirrups} = \frac{\text{Clear span} + 1}{\text{spacing}}$$

$$= \frac{2600 + 1}{200}$$

$$= \boxed{14 \text{ Nos.}}$$

• Step 3 -

$$\text{Cutting length} = (520 + 250 + 520 + 250) - (3 \times 2d) - (2 \times 3d) + (2 \times 10d)$$

$$= 1540 - (3 \times 2 \times 8) - (2 \times 3 \times 8) + (2 \times 10 \times 8)$$

$$= 1440 + 160$$

$$= 1604 \text{ mm}$$

$$= \boxed{1.604 \text{ m}}$$



Advantages of BBS :

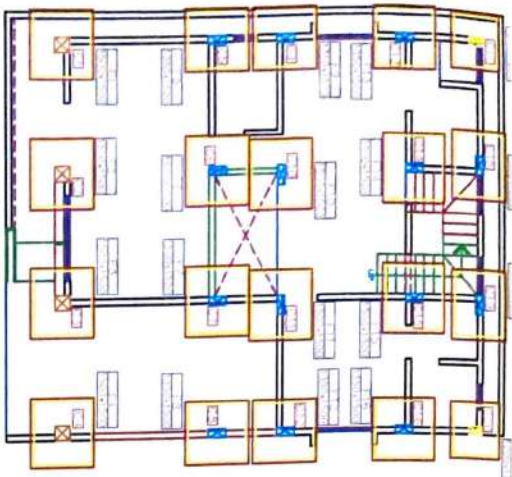
Quantities of steel Reinforcement of different diameter and different grades are calculated easily.

Ideas of different size of bars, bend of length of bars can be easily required through schedule of bars.

During the quantity of RIF on construction site. BBS become very much helpful Bar Bending schedule makes is easy for site Engineer to check and verify the cutting length bar bending while inspection on the site.

Conclusion:- Visit was helpful to gain knowledge and knowledge regarding the process undertaken for the preparation of BBS.

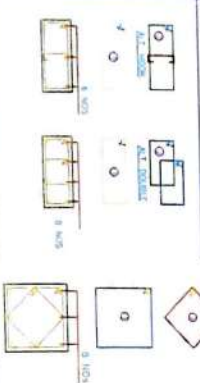




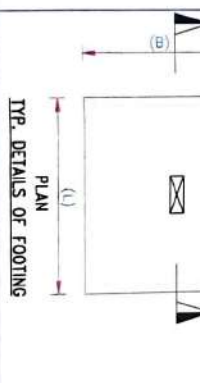
LAYOUT OF FOOTINGS

SR. NO.	FOOTING NOS	PCC (M-10) (150 THK.) (B x L)	RCC SIZE (B x L)	DEPTH (D/D)	REINFORCEMENT ALONG WIDTH (MAIN STEEL) AS BOTTOM STEEL	REINFORCEMENT ALONG LENGTH (DIST. STEEL) AS TOP STEEL	CONCRETE GRADE
1.	F-1,2,3,4	1650 x 1650	1500 x 1500	450	13 NOS ϕ 10 \bullet EQUAL SPACING.	13 NOS ϕ 10 \bullet EQUAL SPACING.	M-20 GRADE CONCRETE
2.	F-5,8,9,12,13,16,18,19	1500 x 1650	1350 x 1500	450	11 NOS ϕ 10 \bullet EQUAL SPACING.	10 NOS ϕ 10 \bullet EQUAL SPACING.	M-20 GRADE CONCRETE
3.	F-6,7,10,11,14,15	1650 x 1650	1500 x 1500	450	13 NOS ϕ 10 \bullet EQUAL SPACING.	13 NOS ϕ 10 \bullet EQUAL SPACING.	M-20 GRADE CONCRETE
4.	F-17,20	1350 x 1350	1200 x 1200	380	9 NOS ϕ 10 \bullet EQUAL SPACING.	9 NOS ϕ 10 \bullet EQUAL SPACING.	M-20 GRADE CONCRETE

TYPICAL DETAILS OF LINKS



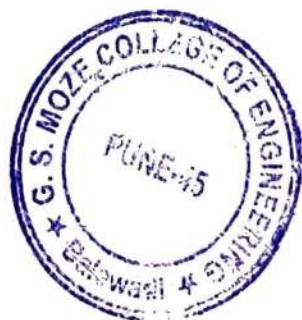
TYP. SECTION THROUGH FOOTING



- STRUCTURE DESIGNED FOR CLAY BRICKS 150 THICK HAVING INTENSITY OF 1800/KN/CM² AND PARAPET WALLS CONSIDERED TO BE 1.20 M HEIGHT OF CLAY BRICKS OF 150 THICK HAVING WT. DENSITY OF (18 KN/CM³).
- GRADE OF CONCRETE IS 20 FOR ALL FLOOR SLABS.
- GRADE OF CONCRETE IS 20 FOR ALL COLUMNS, FOOTINGS, GRADE OF CONCRETE IS 20 FOR BEAMS.
- STRUCTURE DESIGNED FOR :-
 LINE LOAD (2 KN/CM) FOR FLOOR SLABS.
 LINE LOAD (3 KN/CM) FOR STAIRCASE SLAB.
 LINE LOAD (2 KN/CM) FOR ADJOINING TERRACE.
 LINE LOAD (1.5 KN/CM) FOR ROOF TERRACE SLAB.
- WATERPROOFING CONSIDERED TO 125 THICK.
- HAVING DENSITY 1800/KN/CM³.
- GRADE OF STEEL IS 250 FOR ALL STRUCTURAL STEEL.
- EXCEPT 6mm OF 7-250 WHERE EVER IMPLEMENTED.
- SAFE BEARING CAPACITY OF THE SOIL IS ASSUMED TO BE 50.0T/CM² (500.0KN/CM²) WHICH MAY VARY AS PER THE SOIL CONDITIONS FOR RESPECTIVE FOOTING IF BROUGHT TO OUR NOTICE PRIOR TO EXECUTION. IT IS RECOMMENDED TO CARRY OUT SOIL INVESTIGATION PRIOR TO EXECUTION FOR SAFETY OF THE STRUCTURE.
- THE REPORT TO BE PRODUCED PRIOR TO EXECUTION SUBJECT TO VARIATION OF FOOTING SIZES.
- MINIMUM DEPTH OF EXCAVATION MUST BE 1.20m FROM EXISTING GROUND LEVEL.
- DO NOT SCALE THE DRAWING, PLEASE REFER FIGURE DIMENSIONS.
- ALL DIMENSIONS ARE IN MILLIMETERS.
- THIS STRUCTURE IS DESIGNED AS PER IS: 456-2000 FOR ZONE-II.
- PLEASE REFER ARCHITECTURE DRAWING IN CONSULTATION WITH THIS DRAWING.
- ANY DISCREPANCIES OR OMISSION OR CHANGES SHALL BE BROUGHT TO OUR NOTICE PRIOR TO EXECUTION.
- LAPPING OR ANCHORAGE LENGTH FOR
 A) BEAMS AND SLABS (TENSION STEEL) - 70 x DIAMETER OF BAR.
 B) COLUMNS (COMPRESSION STEEL) - 60 x DIAMETER OF BAR.
 C) CLEAR COVER TO THE REINFORCEMENT
 A) FOOTINGS - 50mm, COLUMNS - 40mm, (FROM MAIN REBAR).
 B) SLABS/MUST SLAB OR STAIRCASE - 20mm, BEAMS - 25mm.
- STRIPPING TIME OF FORM WORK :-
 A) COLUMNS AND BEAMS FACES - 24 TO 48 HOURS
 B) SLABS SPANNING UP TO - 4.5M - 7DAYS.
 C) SLABS SPANNING ABOVE - 4.5M - 14DAYS.
 D) BEAMS SPANNING UP TO - 4.5M - 14DAYS.
 E) BEAMS SPANNING ABOVE - 4.5M - 21DAYS.
- DESIGN OF CENTERING, SHUTTERING AND CONCRETE MIX IS OWNER/ CONTRACTORS RESPONSIBILITY.
- SAFETY FOR ADJOINING STRUCTURE NOT DESIGNED BY US IS THE OWNER/ CONTRACTORS RESPONSIBILITY.









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GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

(Recognized by AICTE, New Delhi; Approved by Govt. of Maharashtra; Affiliated to Pune University)

25/1/3, Balewadi, Pune – 411045. Ph: 020-27390500

Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in

Department Of Civil Engineering

Academic Year - 2022-23 sem- III civil (TE) 2019 Pat.

Date: 11/11/2022.

NOTICE

All the students of Civil Engineering Department are hereby informed that site visit of Design of steel structure is arranged on 12/11/2022. All students are asked to be present at 10 am to the College.

Instruction for site visit

1. Site visit is compulsory to each and every student and those who will be absent will not be considered for oral examination on the basis of incomplete course work.
2. Uniform is compulsory for site visit.
3. All students must wear shoes and carry cap and water bottle.
4. Each student is asked to follow all instructions given by site instructors and faculty members strictly.

Nivedita Thorat

Nivedita Thorat
Faculty Co-ordinator

Seema Shiyekar
HoD, Civil

**Head of the Department,
CIVIL ENGINEERING**

Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411 045.





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DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph. : 020-29513395 Website : www.gsmozecoe.org Email : gsmoze@yahoo.co.in

Founder President : Shri. Rambhau Moze

Ref. No. :

Date : 12/11/22

Date:12/11/2022

To,
Site Engineer,
D.S. Fabricators
Pune

Subject: Regarding permission to site visit of Course Design of Steel structure

Respected Sir,


We introduce ourselves as G. S. Moze College of engineering Balewadi is affiliated to University of Pune and approved by AICTE New Delhi. The college runs five UG program including Civil Engineering.

There would be a total of 30 students accompanied by 01 faculty members are interested to Visit your **D.S. Fabricators site,Pune** as a part of TE SPPU Syllabus in Design of steel structure Subject. The visit is aimed at enhancing their Practical knowledge. We intend to take a round of the entire Construction. I assure you that no nuisance will be created and the visit will be carried out with proper discipline. I hope you will give us permission to visit the same.

We are expecting visit on date (12/11/22)

Looking forward for your positive consent in this regard.


Thanking you.


Prof. Nivedita Thorat
(Faculty coordinator)


Prof. Seema Shiyekar

Hod

Head of the Department
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045


Dr. Ratnaraja Kumar Jambi
PRINCIPAL
(GSMCOE, Balewadi)
Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045





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Website: www.gsmozece.co.in Email: gsmoze@yahoo.co.in

Department Of Civil Engineering

Date:12/11/2022

To,
Site Engineer
D.S. Fabricators
Pune-06

Letter of thanks


Respected Sir,


The Genba Sopanrao Moze trust is an educational trust, a pioneer in imparting quality professional's education in field of Engineering. It has established two campuses in Pune at Wagholi & Balewadi.

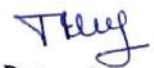
We Department of Civil Engineering of Genba Sopanrao Moze College of Engineering, Balewadi, Pune, would sincerely thank you for giving us permission to visit your D.S. Fabricators Site Visit Pune. We really appreciate the time spent with our students and information shared by you. We hope our students received precious knowledge which will definitely help them in their Curriculum.

Thanking you.

Yours Regards,


Prof. Nivedita Thorat
(Faculty coordinator)


Prof. Seema Shiyekar
Head of the Department
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045


Dr. Ratnaraja Kumar Jambi
PRINCIPAL
(GSMCOE, Balewadi)
Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE



Create competent Socially Responsible Civil Engineers
Genba Sopanrao Moze Trust's
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

Balewadi, Pune - 411045.

Civil Engineering Department

Academic Year 2022-23

Site Visit Attendance

Date- 12/11/2022



Sr.No.	Roll No.	Name of Students	Sign
1	1	NALAWADE ADITYA DEEPAK	<i>[Signature]</i>
2	2	PANDIT AKSHATA BALASAHEB	—
3	3	AMBRE SAHIL NAGESH	<i>[Signature]</i>
4	4	AMIT KUMAR	<i>[Signature]</i>
5	5	GAWALI ANIKET BAPU	<i>[Signature]</i>
6	6	BADGUJAR ASHUTOSH VIJAY	—
7	7	BANAGAR SHASHANK SHIVASHANKAR	—
8	8	BARVE SAKSHI NITIN	<i>[Signature]</i>
9	9	BHALKE NIKHIL RAJKUMAR	—
10	10	BHISE SAURABH SAMPAT	<i>[Signature]</i>
11	11	BURUD AADESH SITARAM	—
12	12	CHINCHOLI NAGESH SHIVSHARANAPPA	<i>[Signature]</i>
13	13	DESHMUKH MUKUND GAJANAN	<i>[Signature]</i>
14	14	DHANGE ABHISHEK BHAGWAN	<i>[Signature]</i>
15	15	DHANKUDE SWARAJ SUHAS	<i>[Signature]</i>
16	16	DHEWADE CHAITANYA NARWIN	<i>[Signature]</i>
17	17	DHORE SUJAL SHAM	—
18	18	DIXIT SAISH SUNIL	—
19	19	GADE KAUSTUBH VIVEK	<i>[Signature]</i>
20	20	GADE SANKET	<i>[Signature]</i>
21	21	GAIKWAD ABHIJEET SHANKAR	—
22	22	GAIKWAD RUTUJA JEEVAN	<i>[Signature]</i>
23	23	GIRI NIKHIL AMVRUSHI	<i>[Signature]</i>
24	24	GUNDAL ANUJ CHANDRAKANT	<i>[Signature]</i>
25	25	INDORE AJAY JAGARNATH	<i>[Signature]</i>
26	26	JADHAV DIPALI MARUTI	<i>[Signature]</i>
27	27	JADHAV MAHADEV RAJENDRA	—
28	28	JAGTAP KARAN SANJAY	—
29	29	KARWADE PRAGATI PRAKASH	—
30	30	KEDARI HARSHAD POPAT	<i>[Signature]</i>
31	31	KHUPSE VYANKTESH MURLIDHARRAO	—
32	32	KIRVE POOJA BABAN	<i>[Signature]</i>
33	33	KONDEVILKAR JAGRUTI TUKARAM	<i>[Signature]</i>
34	34	LANGOTE SHAILESH RANGNATHRAO	<i>[Signature]</i>
35	35	MAKASARE SANKET MANOJ	<i>[Signature]</i>
36	36	NAGTILAK PRATHAMESH TANAJI	<i>[Signature]</i>
37	37	NAIK DATTA VENKATRAO	<i>[Signature]</i>
38	38	OVHAL PRADNYA DILIP	—
39	39	PADULE MANGESH SAHEBRAO	—
40	40	PAVAL KARAN SUNIL	—

Sr.No.	Roll No.	Name of Students	Sign
41	41	PAWAR SAKSHI GOVIND	<i>Son</i>
42	42	PILLE SURAJ BALKRISHNA	<i>Pille</i>
43	43	PISAL PRATHAMESH SUNIL	<i>Pisal</i>
44	44	SARODE POOJA RAVINDRA	<i>Sarode</i>
45	45	PAWAR PRACHODAY MAHADEV	<i>Pawar</i>
46	46	ROKADE PRAKASH VILAS	<i>Rokade</i>
47	47	RAJPUT AKSHAY MAHESH	<i>Rajput</i>
48	48	RAKSHE GAURAV DATTATRAY	-
49	49	PRADHI ROHAN KASHINATH	-
50	50	SHINDE RUSHIKESH SHIVAJI	-
51	51	SANAP HANUMANT SUKHDEV	<i>Sanap</i>
52	52	SHAHA ANIKET MOHAN	<i>Shaha</i>
53	53	SHAIKH MUZIB AZIZ	<i>Shai</i>
54	54	SHELAR PRATIK PRADIP	<i>Shelar</i>
55	55	SHINDE HINDRAJ MILIND	-
56	56	MAHATRE SHUBHAM BALU	-
57	57	SHUBHAM CHANDRAKANT BARKULE	-
58	58	KAMBLE SHWETA JAYANT	-
59	59	SOUMIK DHAR	-
60	60	SUTAR MOUNESH LAKSHMAN	-
61	61	TARE SHARAD RAMKRISHRAO	<i>Tare</i>
62	62	TAYDE CHAITANYA SANJAY	<i>Tayde</i>
63	63	TELMORE ANUPRIYA RAMESH	-
64	64	UNDE SAHIL ASHOK	<i>Unde</i>
65	65	VADNERE ANANT PROMOD	-
66	66	VETALE VIVEK SOPAN	<i>Vetale</i>
67	67	WAKADE PRANAV SANDEEP	-
68	68	ALKUNTE PRATIK SHANKAR	-

NT

Prof.Nivedita Thorat
Subject Teacher

(S.S.)

Prof.Seema Shiyekar
HoD

Head of the Department
CIVIL ENGINEERING
Genba Soanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045





G S MOZE COLLEGE OF ENGINEERING BALEWADI
(SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE)



“A VISIT TO STEEL STRUCTURE OF INDUSTRIAL BUILDING”



Conduct by

Department Of Civil Engineering

TE Civil Dept: Academic Year - 2022-23 sem-VI

Subject incharge,

Ms. Nivedita Thorat

H.O.D

Prof. Seema Shiyekar

Date: - 12 November 2022



GENERAL INFORMATION

The steel structure which we have visited is one of the proposed G.S Moze College of engineering workshop. These structure is workshop shed, a truss is a structure composed of slender members joined together at their end point. The sloping flat truss using and bolted and welded conation used in truss.

PURPOSE OF VISIT

- Our main purpose for this visit is to be familiar with industrial environment and to get practical knowledge of Construction process. With the need of steel in construction industry due so many reason which should be economical, Eco-friendly, safe and efficient.
- The other reason was to figure out the joint (bolted connection & welded connection), roof truss, etc. which used in steel structure as a civil engineers how these structures are constructed is always interesting.
- Some other purpose was to know about different members of roof truss and how they erected.



WHAT WE LEARN?

On 12 November 2022 (Saturday), we have visited these structure we firstly got the overall technical information at from supervisor.

The plant consists of following components:-

1. Sloping flat truss.
2. Purlins
3. Column
4. Inclined member
5. Column base
6. GI or AC sheet
7. Tie member
8. gusset plate
9. welded and bolted connection
10. gusset angle
11. span
12. rise

1. Sloping flat truss:-

Sloping flat trusses are used almost like a joist in settings where the interior ceiling pitch is desired to be the same as the roof pitch. Sloping flat trusses are typically supported by a ridge beam or girder truss at the roof peak and have sloping flat trusses on both sides to create wide, open span spaces in public venues like riding arenas and churches.



2. Purlins:-

The purlins are horizontal beams spanning between the two adjacent trusses. These are the structural members subjected to transverse loads and rest on the top chords of roof trusses. The purlins are meant to carry the loads of the roofing material and to transfer it on the panel points.



3. Column:-

The vertical truss columns are primarily used to resist wind loads. These columns are located on the southern and western wall of the lobby as shown below. For more detail on the layout, see structural floor plan documents. The steel 'C' section columns are use in site.



4. **Inclined member:** - Whereas, principal rafter are the incline members of a Truss.



5. **Column base:-**

Used for axially loaded columns where load is moderate column bases are used where the columns have independent concrete pedestals a thick steel base plate and two cleat angles connecting the flanges of the column to the base plate. Web cleats are provided to connect the web of the column to the base plate.

6. **GI or AC sheet:-**

Galvanized iron (GI) sheets are steel sheets which are basically coated with zinc and include a range of hot dip galvanized and electro-galvanized steel sheets. Corrugated galvanised iron or steel is a building material composed of sheets of hot-dip galvanised mild steel, cold-rolled to produce a linear corrugated pattern in them. The corrugations increase the bending strength of the sheet in the direction perpendicular to the corrugations, but not parallel to them. Normally each sheet is manufactured longer in its strong direction.



CONCLUSION

From this visit, we get the information and knowledge about the components of Steel Structure and its Erection. We got very clear idea about the importance of different components of Industrial Building.



PHOTO GALLERY





Thanking

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25/1/3, Balewadi, Pune – 411045, Ph: 020-27390500

Website: www.gsmozece.co.in Email: gsmoze@yahoo.co.in

Date: -8/11/2022


DEPARTMENT OF CIVIL ENGINEERING


SITE VISIT NOTICE: Transportation Engineering

All the Final Students of Civil Engineering are hereby informed that a site visit to Road Construction has been arranged on 9/11/2022, Wednesday. All students are instructed to remain present at 9.30 am sharp in Transportation Engineering Laboratory, Civil Engineering Department.

NOTE:

- **STUDENTS MUST PRESENT IN COLLEGE UNIFORM.**
- **STUDENTS MUST CARRY COLLEGE ID CARD WITH THEM.**
- **STUDENTS SHOULD CARRY WATER BOTTLES, CAP, SHOES ETC.**
- **ATTENDANCE IS COMPULSORY.**


Dr. Rupali Zope
Subject In-Charge


Mrs. Seema Shiyekar
HOD Civil
Head of the Department,
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411 045.





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DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph. 020-27390500 Website www.gsmozece.org Email gsmoze@yahoo.co.in

Founder President Shri Rambhau Moze

Ref. No. GSMCOE/ADMIN/728/2022

Date 9.11.2022

To,
The Project Manager,
Krishnae Infrastructure Pvt. Ltd,
Pune.

Subject: Letter of Appreciation


Respected Sir,

The Genba Sopanrao Moze trust is an educational trust, a pioneer in imparting quality professional's education in the field of Engineering. The trust has two campuses in Pune, Balewadi and Wagholi.

We, Department of Civil Engineering of Genba Sopanrao Moze college of Engineering, Balewadi, Pune would sincerely thank you for giving us permission to visit your road construction site at Tathawade, Pune. Our Final Yea students are benefited with the knowledge given. We really appreciate the time spent by your team for our students.

Thanking you.

Regards,



Dr. Rupali Zope
Subject-In-Charge


Prof. Seema Shiyekar
(HOD Civil Dept)


Dr. Ratna Rajakumar Jambi
(Principal, GSMCOE)

Head of the Department,
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411 045.

PRINCIPAL
Genba Sopanrao Moze College of Engg
25/1/3, Balewadi, PUNE-411 045


Aman Kokate
(KIPL)



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Ph. 020-27390500 Website www.gsmozecoe.org Email gsmoze@yahoo.co.in

Founder President Shri Rambhau Moze



Ref. No. GSMCOE/ADMIN/723/2022

Date 8.11.2022

To,
The Project Manager,
Krishnae Infrastructure Pvt. Ltd,
Pune.

Subject: Regarding permission to visit Road Construction Site

Respected Sir,

We, G. S. Moze College of engineering Balewadi, are one of the reputed institutes offering various technical degree courses approved by AICTE Delhi and is affiliated to Savitribai Phule Pune University (SPPU).

With reference to the above mentioned subject as per the course curriculum for the subject of Transportation Engineering of Final Year Civil Engineering, we would like to arrange a site visit to road construction site.

It is a kind request


There would be a total of 40 students accompanied by 02 faculty members are interested to Visit the Road Construction Site as a part of curriculum. The visit is aimed at enhancing their knowledge. We intend to take a round of the entire RMC plant. (Various operation involved in road construction. additionally if we get any information about admixtures which is used to prepare special concrete). I assure you that no nuisance will be created and the visit will be carried out with proper discipline. I hope you will give us permission to visit the same.

After the approval from your side college will provide identity cards of Students and Faculty

Members and will do the needful. We are expecting visit on date (9/11/2022)

Looking forward for your positive consent in this regard.

Thanking you.


Dr. Rupali Zope,
(Faculty In-charge)



Prof. Seema Shiyekar
(HOD Civil Dept)

Head of the Department,
CIVIL ENGINEERING


Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411 045.


Dr. Ratna Rajakumar Jambi
(Principal, GSMCOE)

PRINCIPAL

Genba Sopanrao Moze College of Engg
25/1/3, Balewadi, PUNE-411 045




Aman Kokate
(CRIPPL)



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DEPARTMENT OF CIVIL ENGINEERING

REPORT ON EDUCATIONAL SITE VISIT TO
ROAD CONSTRUCTION SITE –
TRANSPORTATION ENGINEERING

Subject In-Charge: Dr. Rupali Pankaj Zope

A.Y. 2022-23 (Semester I)



Name: Krishnae Infrastructure Pvt. Ltd, Pune

Place of Visit: Road Construction Site at Tathawade, Pune

Objective: To understand the design and construction process of a pavement.

Resource Persons: - Mr. Aman Kokate & Mr. Tejas Bhosale

Faculty-in-charge:- Dr. Rupali Zope

Date of Visit: 9/11/2022

16 Field visits are one of the most important parts of learning. It allows students to develop a greater understanding of theories implemented in practice. Final Year students of Civil Engineering Department of G.S. Moze College of Engineering, Balewadi had visited a road construction site at Tathawade. The visit was scheduled at 10.00 am. Students were allowed to see the different layers of road construction and high drainage. All the queries and doubts of students were answered by the site engineer during site visit.

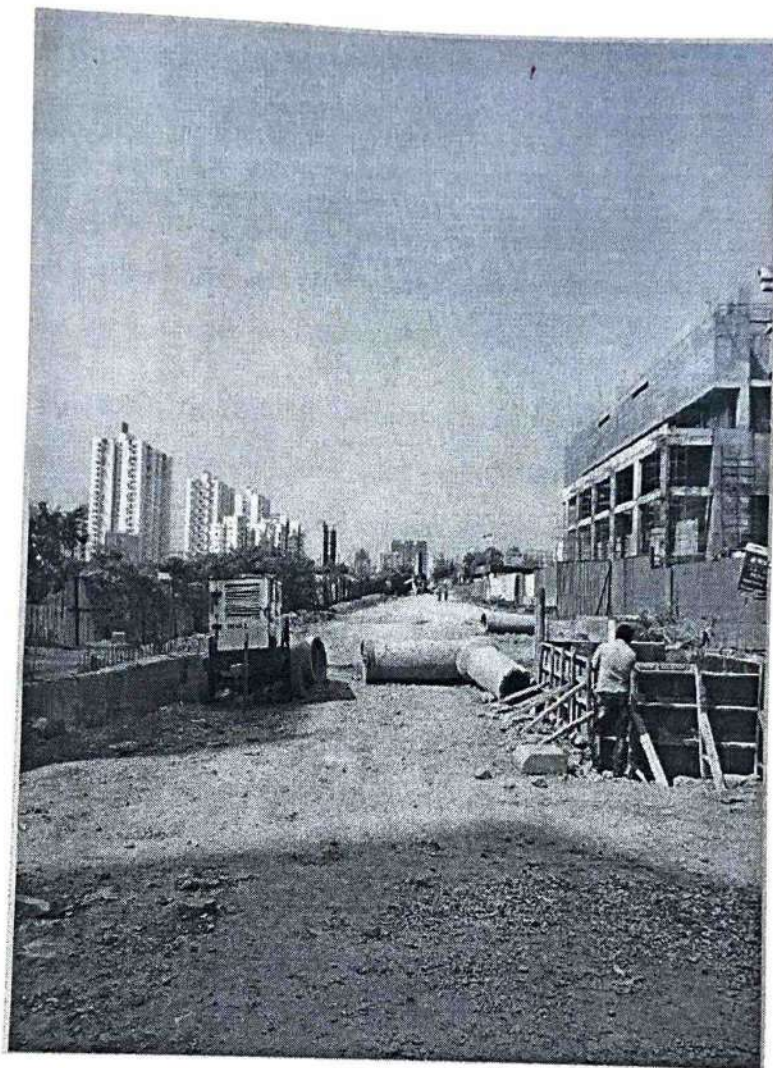
Brief Report of Site Visit:

20 The transportation by road is the only road which could give maximum service to one all. This mode has also the maximum flexibility for travel with is possible to provide door to door service only by the road transport. Concrete pavement a large number of advantages such as long life span negligible maintenance, user and environment friendly and lower cost. Keeping in this view the whole life cycle cost analysis for the black topping and white topping have been done on various conditions such as type of lane as single lane, two lane, four lane different traffic categories deterioration of road three categories base (GSB) or drainage layer. 3. Base course/ (DLC-Dry lean concrete). 4. CC pavement slab using PQC (paving quality concrete).

COMPONENTS OF RIGID PAVEMENT AND THERE FUNCTIONS: 1. Prepared soil subgrade. 2. Granular sub- Prepared soil subgrade: • The soil subgrade of rigid pavement consists of natural or selected soil from identified borrow pits fulfilling the specified requirements. • The soil subgrade is well compacted to the desired density and to the required thickness. • The soil subgrade is the lower most layer of the pavement structure which ultimately supports all other pavement layer and traffic loads.







• A good soil subgrade / well compacted and prepared soil subgrade gives long service life to the pavement.

2. Granular sub-base (GSB) or drainage layer: • The GSB course has to serve as an effective drainage layer of the rigid pavement to prevent early failures due to excessive moisture content in the subgrade soil. • Crushed stone aggregate are preferred. In the granular sub-base course as this material has high permeability and serves as a effective drainage layer. • Coarse graded



is archived. Quality control tests: 1. Sand test: 2 tests per 3000m³ 2. Plasticity test: 2 tests per 3000m³ 3. Density test: 2 tests per 3000m³ 4. Moisture content test: 1 test per 250m³ 5. CBR test: 1 test per 3000m³

C. CONSTRUCTION OF GRANULAR SUB-BASE OR DRAINAGE LAYER: General: The GSB course have to serve as an effective drainage layer of the rigid pavement to prevent early failures due to excessive moisture content in the subgrade soil. It also supports the other pavement layers. Materials: a. Crushed stone aggregates b. Gravel. c. Coarse sand. d. Crushed slag. e. Crushed bricks. f. Crushed concrete. g. Natural sand h. Moorum. Requirements of materials: • A material should not contain organic matter or other deleterious constituents. • The aggregate size should be less then 75mm.

Construction procedure: The GSB layer is constructed on the top of the prepared subgrade therefore first the surface of the subgrade is checked and grass and vegetation if any are removed. The grade and the cross slope of the top surface of the subgrade are corrected as required. The construction steps are given below:

- The sub-base material is spread to the uniform thickness and specified cross slope using a mortar grader by adjusting the blade of the grader.
- The moisture content of the material is checked and the additional quantity of water required to bring up to the optimum moisture content is sprinkled at a uniform rate using a truck mounted sprinkler.
- The water material is mixed properly using machinery such as disc harrows and rotavators.
- The mixed material is spread to the desired thickness, grade and camber using a mortar grader with hydraulic controls of the blade.
- The loose GSB layer is compacted by rolling if the compacted thickness of the layer is 100mm or lesser an ordinary smooth wheeled roller may be used. For compacted thickness exceeding 100mm and up to 225mm compaction is done by vibratory rollers of static weight 10 tons or more.



- Rolling is done starting from the lower edge and proceeded towards the centre of the un divided carriage way or towards the upper edge of the divided carriage way with a minimum 1/3rd overlap between each run of the roller. The rolling speed is limited to less than 5kmph.
- Rolling is continued till at least 98% of maximum density of the material is archived.
- The surface level tolerance will be (+ or -) 6 mm.

Quality control tests:

- Gradation test
- Altarburge limits:
- Moisture content test before
- CBR test.





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Department Of Civil Engineering

A-19	CHIPLUNKAR SAHIL SANJAY		B-19	OLEKAR PRATIK VIJAY	
A-20	DALVI TEJAS VILAS		B-20	ORASE ABHISHEK SHANKAR	
A-21	DEVAKAR TANAJI TUKARAM		B-21	ORSE MUKESH KISAN	
A-22	DEVENDRA SHIRISH MAHALE		B-22	PATIL KIRANRAJ NANA	
A-23	DHADDE OMKAR ASHOK		B-23	PAWALE TUSHAR TUKARAM	
A-24	DHANGEKAR ABHISHEK		B-24	PAWAR RACHANA NANDRAM	
A-25	DHUMAL DISHA DASHARTH		B-25	PHADE SHUBHAM	
A-26	DUBALE ATHARV HANUMANT		B-26	PIMPLE VIKESH MANIK	
A-27	DUDHAL SHUBHAM SANJAY		B-27	POTDAR GAURAV NAGNATH	
A-28	GADEKAR SHRADDHA		B-28	PRANAVKUMAR	
A-29	GADIWADD SWAPNIL TIPANA		B-29	PRASAD GANESH PHARANDE	
A-30	GAIKWAD AKSHAY SURESH		B-30	PRITI ASHOK INDRALE	
A-31	GAIKWAD NIKHIL VISHNU		B-31	PRUTHVIRAJ YUVRAJ	
A-32	GANDHARE JANHAVI AJAY		B-32	RAJAPURE JYOTI	
A-33	GANESH MAHADEV KADAM		B-33	RAJE PANKAJ DNYANOBA	
A-34	GAVALI SHREYASH JAGDISH		B-34	RAJPUT VISHWAJITSING	
A-35	GHODKE VISHAL BALIRAM		B-35	RANDIVE MANDAR GOKUL	
A-36	GIR SWATI KHUSHAL		B-36	RANGOJI DIVYA GNYANADEV	
A-37	GODAGE SAMEER SURESH		B-37	RATHOD ARCHANA SANJAY	
A-38	GUNDAL CHANDRAKANT		B-38	RAUT GANESH ASHOK	
A-39	GUNJAL SHIVRAJ BRAMANAND		B-39	RAWOOL VIKAS VIJAY	
A-40	HAWALDAR SANKET		B-40	RAYMANE AKASH	
A-41	ITKALE SHUBHAM DILIP		B-41	REVANSIDDHA NAMDEV G	
A-42	JADHAV PRATIK NANDKUMAR		B-42	SAIPRASAD SANJAY BHANGE	
A-43	JADHAV PRATIK RAVINDRA		B-43	SANNAV TANVI PRATAP	
A-44	JADHAV VAIBHAV PRAKASH		B-44	SANDEEP NEBBOOLAL	
A-45	JAGTAP GURUPRASAD AJAY		B-45	SATAV SHUBHAM MUKESH	
A-46	JAGTAP SACHIN RAJENDRA		B-46	SATHE MEGA MOHAN	
A-47	JOSHI SOHAM SANJOT		B-47	SAURABH PADALE	
A-48	KADAM AKASH BABASAHEB		B-48	SHIMPI NIKHIL RAJESH	
A-49	KADAM AKASH BHAUSAHEB		B-49	SHINDE DIKSHA DATTATRAY	
A-50	KADAM ANIKET MALHARI		B-50	SHINDE JYOTI VISHWAS	
A-51	KALE RUSHIKESH BABASAHEB		B-51	SHINDE OM SANJAY	
A-52	KALOKHE SURAJ AVINASH		B-52	SHINDE RUSHIKESH	



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25/1/3, Balewadi, Pune - 411045. Ph: 020-27390500

Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in

Department Of Civil Engineering

A-53	KAMBLE PRAJAKTA JITENDRA	<u>W</u>	B-53	SHINDE VRUSHABH DILIP	<u>W</u>
A-54	KAMBLE PRASHIK	<u>W</u>	B-54	SINGH PRASHANT	<u>W</u>
A-55	KAMBLE RUSHIKESH	<u>W</u>	B-55	SONUNE SACHIN KUNDALIK	<u>W</u>
A-56	KAMBLE RUTURAJ DILIP	<u>W</u>	B-56	SUDATTA LAXMAN GAIKWAD	
A-57	KAMBLE VINAY ANIL	<u>W</u>	B-57	SURYAWANSHI ABHISHEK	<u>W</u>
A-58	KHAN HUMA JAVEDKHAN	<u>W</u>	B-58	SURYAWANSHI RUSHIKESH	<u>W</u>
A-59	KHANDARE RAJESHWAR	<u>W</u>	B-59	TAPKIR GAURAV SANDESH	
A-60	KHARAT AVINASH VINAYAK	<u>W</u>	B-60	TEMKAR SAURABH VILAS	<u>W</u>
A-61	KOLEKAR AMOL SURESH	<u>W</u>	B-61	THORAT SUYASH SAMBHAJI	
A-62	KONDE PRATHAMESH	<u>W</u>	B-62	TIKAR RUPAL PANDURANG	<u>W</u>
A-63	KORKE SAGAR DATTATRAY		B-63	TUPLONDHE SIDDHANT	
A-64	KSHIRSAGAR VISHWANATH	<u>W</u>	B-64	UBALE RUTUJA MANOJ	
A-65	KUMBHAR RAJU ANNA	<u>W</u>	B-65	VAISHNAVI KORATE	<u>W</u>
A-66	LAKKAM SUDHANSHU SANJAY	<u>W</u>	B-66	VHANMANE AKSHAY	<u>W</u>
A-67	MADAKE SAYALI BALU	<u>W</u>	B-67	WAGHMARE GANESH	
A-68	MAGARE PREETI DATTATRAY	<u>W</u>	B-68	WARLE AMRUTA LOBHAJI	<u>W</u>
A-69	MANDHARE ANIKET UDDHAV	<u>W</u>			





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Department Of Civil Engineering

DATE: 2/11/2022

NOTICE

All the students of B.E. are hereby informed that , your APC site visit of Sant Tukaram Sugar Factory Mulashi has been arranged on 04/11/2022. All Students are asked to be present at 10 am sharp. in college premises.

NOTE:

- **STUDENTS MUST BE PRESENT IN COLLEGE UNIFORM**
- **STUDENTS SHOULD CARRY WATER BOTTLE,CAP, SHOES etc**
- **ATTENDANCE IS COMPULSORY**

Prof. Shilpa Mahajan

(Faculty coordinator)

HoD

Civil Engineering Department

Head of the Department,
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411 045.





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Ph. 020-27390500 Website www.gsmozecoe.org Email gsmoze@yahoo.co.in

Founder President Shri Rambhau Moze

Ref. No. GSMCOE / ADMIN / 740 A / 2022-23

Date

Date: 29/10/2022

To,

Mr. Manoj Naikwade

(The Director)

Kasarsai Mulshi Pune-06

Subject: Regarding permission to visit Sant Tukaram Sugar Factory.

Respected Sir,

We introduce ourselves as G. S. Moze College of engineering Balewadi is affiliated to University of Pune and approved by AICTE New Delhi. The college runs five UG program including Civil Engineering.

There would be a total of 82 students accompanied by 02 faculty members are interested to Visit Sugar Factory as a part of BE SPPU Syllabus in Air Pollution & Control Subject. The visit is aimed at enhancing their knowledge. We intend to take a round of the entire Industry. (**Various operation involved to Manufacturing of sugar.**) I assure you that no nuisance will be created and the visit will be carried out with proper discipline. I hope you will give us permission to visit the same.

After the approval from your side college will provide identity cards of Students and Faculty Members and will do the needful. **We are expecting visit on date(4/11/22)**

Looking forward for your positive consent in this regard.

Thanking you.

Prof. Shilpa Mahajan

(Faculty coordinator)

HoD

Civil Engineering Department

Principal

(GSMCOE, Balewadi)

Head of the Department
CIVIL ENGINEERING
Genba Sopanrao Moze College of
Engineering, Balewadi, Pune-411 045



Principal
Genba Sopanrao Moze College of Engg
Engineering, Balewadi, Pune-411 045



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Founder President Shri Rambhau Moze

Ref. No. GSMCOE / ADMIN / 740B / 2022-23

Date 04/11/2022

To,

Mr. Manoj Naikwade

(QC manager)

Kasarsai Mulshi Pune-06

Letter of thanks

Respected Sir,

The Genba Sopanrao Moze trust is an educational trust, a pioneer in imparting quality professional's education in field of Engineering. It has established two campuses in Pune at Wagholi & Balewadi.

We Department of Civil Engineering of Genba Sopanrao Moze College of Engineering, Balewadi, Pune, would sincerely thank you for giving us permission to visit your sugar factory. We really appreciate the time spent with our students and information shared by you. We hope our students received precious knowledge which will definitely help them in their Curriculum.

Thanking you.

Yours Regards,

Prof. Shilpa Mahajan

(Faculty coordinator)

HoD

Civil Engineering Department

Principal

(GSMCOE, Balewadi)

Head of the Department,
CIVIL ENGINEERING
Genba Sopanrao Moze College of Engineering,
25/1/3, Balewadi, Pune-411 045.

PRINCIPAL
Genba Sopanrao Moze College of Engg
25/1/3, Balewadi, Pune - 411 045





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Department Of Civil Engineering

A-19	CHIPLUNKAR SAHIL SANJAY		B-19	OLEKAR PRATIK VIJAY	
A-20	DALVI TEJAS VILAS		B-20	ORASE ABHISHEK SHANKAR	
A-21	DEVAKAR TANAJI TUKARAM		B-21	ORSE MUKESH KISAN	
A-22	DEVENDRA SHIRISH MAHALE		B-22	PATIL KIRANRAJ NANA	
A-23	DHADDE OMKAR ASHOK		B-23	PAWALE TUSHAR TUKARAM	
A-24	DHANGEKAR ABHISHEK		B-24	PAWAR RACHANA NANDRAM	
A-25	DHUMAL DISHA DASHARTH		B-25	PHADE SHUBHAM	
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A-48	KADAM AKASH BABASAHEB		B-48	SHIMPI NIKHIL RAJESH	
A-49	KADAM AKASH BHAUSAHEB		B-49	SHINDE DIKSHA DATTATRAY	
A-50	KADAM ANIKET MALHARI		B-50	SHINDE JYOTI VISHWAS	
A-51	KALE RUSHIKESH BABASAHEB		B-51	SHINDE OM SANJAY	
A-52	KALOKHE SURAJ AVINASH		B-52	SHINDE RUSHIKESH	

Schedule of this study Visit.

Roll No.	Name of Student	Sign	Roll No.	Name of Student	sign
A-01	DESAI POOJA DINKAR	<i>Pooja D</i>	B-01	MANE GEETANJALI	<i>Geetanjali</i>
A-02	ADISHERLAWAR	<i>ad</i>	B-02	MANSUTE GAURAV S	
A-03	AKASH ANNASAHEB	<i>akash</i>	B-03	MATERE PRADIP RAMESH	<i>Pradip</i>
A-04	ARBUNE VAIBHAV	<i>vaibhav</i>	B-04	MESHARAM RAVINDRA DILIP	
A-05	BACHCHE SHAILESH VASANT		B-05	MHALUNGEKAR SAURABH	
A-06	BAWANKAR AMIT	<i>amit</i>	B-06	MORE RAHUL VASANT	
A-07	BHAGAT RUSHIKESH		B-07	MORE VANDANA	
A-08	BHANDARKAR GAURAV		B-08	MULE YOGESH SHANKAR	
A-09	BHELSAIKAR AJINKYA RAJU	<i>Ajinkya</i>	B-09	NAGWANSHI ANIMESH	<i>animesh</i>
A-10	BIJAWE PRITI RAMDASRAO	<i>Priya</i>	B-10	NAIK OMKAR SANTOSH	
A-11	BIRADAR GAURAV	<i>Gaurav</i>	B-11	NAKHATE VANITA MARUTI	
A-12	CHAUDHARI DHIRAJ		B-12	NAVGHARE PRASAD	
A-13	CHAUGULE SANCHIT	<i>sanchit</i>	B-13	NAWALI SAGAR VILAS	<i>Sagar</i>
A-14	CHAVAN AVINASH REVAN		B-14	NEHARKAR DINESH	
A-15	CHAVAN MANASI VITTHAL	<i>Manasi</i>	B-15	NIKALJE SIDDHARTH	
A-16	CHAVAN RUTVI PRADEEP	<i>Rutvi</i>	B-16	NIKHIL DATIR	<i>Nikhil</i>
A-17	CHAVAN SANGRAM MANSING		B-17	NIKHIL JADHAV	<i>Nikhil</i>
A-18	CHAVAN SURAJ RAMESH		B-18	NIKHIL MOHAN GHANEKAR	





**Genba Sopanrao Moze College of Engineering,
Balewadi, Pune
DEPARTMENT OF CIVIL ENGINEERING
Academic Year:-2022-23 Sem- I**

SITE VISIT REPORT ON AIR POLLUTION & CONTROL

**Subject :-APC LAB
I/C :- Prof.Shilpa R.Mahajan**

**Class:-BE
Date:- 04/11/2022**

Name of Visit:- Industrial visit at Shree “Sant Tukaram Sugar Factory”.

Place of Visit:-Kasarsai Mulshi Pune-06

Date of Visit:- 4th November 2022

Plant Guide:- Mr.Manoj Naikwade (Plant Incharge)

Introduction:-

As a part of Syllabus G.S.Moze College of Engineering Students of Final Year visited the sugar Factory.Total 82 students along with two faculty members visited the industry. “ Sant Tukaram Sugar Factory”.,Mulshi.

Our students saw the actual production of sugar in this industry.also students saw whole stepwise procedure of sugar manufacturing. also students got to know how the wastage (Bagass)is used to produced Electricity,How sugar is purified and Crystallized. Production Manager provided lot of information to student about the same.



↓ Specifications of the sugar Factory: -

- 1) Estimated cast of plant: - 174 crore
- 2) Stack height: -75 m
- 3) Stack Diameter: - 4.2 m
- 4) Two types of sugar produced: -1. S31
2. S32
- 5) Monitoring System used: -Online monitoring system used as per CPCB
- 6) ASH COLLECTION SYSTEM: -85 TPH
- 7) ESP: - 99.9%
- 8) Process used for ESP: -Ionization process ESP
- 9) Capacity of ESP: - 150mg/lit.
- 10) Boiler capacity with temp.: - 32 TPH with 120° C temp. maintained.



↓ Specification of Sources creating Air Pollution: -

1. Electrostatic Precipitator
2. Gravity setting chamber

As present there are 173 co-operative sugar factories in operation. Employing engaged in the harvesting from the fields. The sugar industry provides annual revenue of the 22 billion to the government. Due to the co-operation sugar industry, business including milk co-operative, fertilizer supply & irrigation systems have flourished.

1. Electrostatic precipitator:-

Principle: - The electrostatic precipitator of solid particles. The particles are charged by a flow of ions from the discharge electrical field towards the collecting electrode. The cleaning of the collecting electrodes is achieved by periodic rapping for dry precipitator & by flushing for wet precipitator.

1) Working: - The dust laden gas is passed between the oppositely charged conductors & is becomes ionized as the voltage applied between the conductors is sufficiently large (30Kv to 60KV) depending upon the electrodes spacing . As the dust laden gas is passed through the highly charged electrodes both negative and positive ions are formed (positive ions will be a high as 80%).

The ionized gas is further passed through the collecting unit which consists of set of metal plates. The deposited dust particles are removed



from the plates with the help of comes driving by external means. Care should be taken that the dust collected in the hopper should not be entrained in the clean gas.

2) Advantages: -

1. Electrostatic precipitators (ESP) is also most effective for high dust loaded gas (as high as 100 gm per cu.meter). Its efficiency is as high 99.5%.
2. The drought loss of the separator is the least of all forms.
3. The maintenance charges are less compared to all other separators.
4. Electrostatic precipitators provides ease of operation.
5. The dust or fly –ash is collected in dry form and can be removed either by dry or wet.

3) Disadvantages: -

1. The direct current (DC) is not available with the modern thermal power plants hence considerable electrical equipment is required to convert from AC to DC (60KV DC).
2. The running charges is also high as the amount of power required for charging is considerably high.
3. The space required for electrostatic precipitators is larger hen wet system



✦ Working of cyclone:-

1. The gas stream containing particulate matter enters the cylinder near the top.
2. The gas stream after entering a cyclone moves downwards as a descending outer vertex because of its tangential velocity. The gas stream reaches almost at the bottom of the cone and then it reverses its direction, moving upward as an ascending vertex.
3. The larger and heavier particles while moving downwards along with the spirally moving gas stream experience a centrifugal force, as a result of which they migrate towards the wall.
4. Then the particles slide down towards the bottom outlet and the gas leaves the cyclone through a centrally located outlet at the top.

1) Advantages :-

1. Low initial cost.
2. Construction and operation is simple.
3. Low maintenance cost as it has no moving parts.
4. Low pressure drop.
5. Dry and continuous disposal of solid particulates.
6. Cyclones can be constructed of any material which will satisfy the temperature and pressure requirement.



2) Disadvantages:-

1. It has low efficiency for particles less than 5-10 μm in diameter
2. Unable to tackle sticky material
3. Low collection efficiency for low particle concentration

* Conclusion:

We have studied various uses and application along with efficiency of electrostatic precipitator, gravity setting chamber and understand the working function of cyclone.

We also really thank full for such valuable guidance and information.





ERLING
PUNE-46
Balewadi
G.M.S.O.



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Founder President: Shri RambhauMoze

DEPARTMENT OF ECHANICAL ENGINEERING



(57) + (02)

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Founder President: Shri Rambhau Moze

To,
The Manager,
Pimpri Chinchwad Science Park, Pune

Sub: Permission for Visit of our college students to Automobile Section Pimpri Chinchwad Science Park, Pune

Dear Sir,

We are one of the reputed Engineering College in Pune region, established in 1999. As per SPPU syllabus of second year mechanical engineering Applied Thermodynamics subject, calls for the educational visit of second year mechanical engineering students to understand working and model of Automobile section.

We request you to kindly grant permission to our **105 students + 03 faculty members** to visit Automobile Section Pimpri Chinchwad Science Park, Pune for study and observations according to following schedule:

Sr. No.	Date	No of Students	Faculty Members	Time
1	29/02/2020	105	03	10:00 AM on wards

Thanking you.

P.M. Shinde

Prof. P.M. Shinde
Head, Mechanical Engineering Department

Yours Faithfully,

Ase-hi
PRINCIPAL
GSMCOE Balewadi

*57 student of 2 staff visited to science park
29/2/2020*

Contact
I. Prof. Mahesh R. Jagadale
(Mb.No.9423870332)
maheshriagadale@gmail.com

Wangar



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Founder President: Shri Rambhau Moze

25/02/2020


NOTICE

SE MECHANICAL


All the students of SE mechanical engineering students are hereby informed that, Industrial Visit as part of academics regarding subject **APPLIED THERMODYNAMICS** is scheduled on 29/02/2020. In this context every students should refer the following schedule:

Roll no	Date	Name Of Industry	Reporting time
ALL SE STUDENTS	29/02/2020	Pimpri Chinchwad Science Park, Pune	10:00 am

Note: Visit is compulsory for all SE Mechanical Student.


Prof. M.R.JAGADALE
Subject Teacher




Prof. P. M. Shinde
Head, Mechanical Engineering Department

UNDERTAKING OF SE MECHANICAL SCIENCE PARK INDUSTRIAL VISIT ON 29/02/2020

1. I ensure good behavior and will not belong to any misbehavior throughout the period of visit.

2. I solely responsible for any mishappen.

Student Roll Call List, SE Mechanical

Roll No.	Name of the Student	Roll No.	Name of the Student
1	Adhari Sunil Subhash	56	Merukar Rameshwar Prakash
2	Ambadkar Manoj Ganesh	57	Mhaiskar Siddhant Vishwas
3	Avachar Omkar Atulchand	58	Mohalkar Akash Laxman
4	Bhange Atharva Shyam	59	More Neha Devendra
5	Bhargude Yashodhan Ashok	60	More Rushikesh Sukhadev
6	Bhoite Abhishek Tanaji	61	Maurya Mangesh Ramlavat
7	Bhor Siddhesh Annasaheb	62	Nadavadekar Sangram Shivaji
8	Bhosale Kiran Keshav	63	Nikam Shivcharan Dhanaji
9	Bhosale Sandip Balasaheb	64	Nikumbh Shubham Subhash
10	Bokil Prasad Pradip	65	Padel Pranav Prakash
11	Borhade Shubham Prakash	66	Panchal Sanket Sopan
12	Chavan Ronit Sudhakar	67	Paralkar Aniket Satish
13	Chopade Yogesh Gajanan	68	Patel Om Deepak
14	Dakwale Sudarshan Dattatray	69	Patil Bhushan Manohar
15	Dange Sagar Shreerang	70	Patil Chandrugouda Topanagouda
16	Deokar Vinayak Chanappa	71	Patil Pravin Vasant
17	Deshmukh Rohit Dipak	72	Patil Roshni Sandeep
18	Dhadange Ravi Ramesh	73	Patil Rushikesh Narayan
19	Dhawale Mangesh Balasaheb	74	Patil Sai Suresh
20	Dhayrekar Swapnali Rajendra	75	Patil Swapnajeet Sunil
21	Dhere Prajwal Vishwas	76	Jadhav Tushar Atul
22	Dhule Vaibhav Shaligram	77	Patil Vaibhav Laxman
23	Dhumal Ashwini Madan	78	Pawar Vishwajit Suryakant
24	Fulawade Pooja Maruti	79	Paygude Omkar Santosh
25	Ghadsing Ritesh Mithu	80	Rao Ganesh Chandrashekhar
26	Gajare Shivram Mohan	81	Rathod Yash Mukesh
27	Gutti Sohaib bashu	82	Salunke Saurabh Ashok
28	Hodage Raturaj Nivrutti	83	Salvi Akshay Suresh
29	Honrao Gaurav Nandkumar	84	Sandanshiv Chaitanya Rajendra
30	Inamke Soham Meghraj	85	Satpute Atharv Sunil
31	Indane Pankaj Suresh	86	Savale Uddesh Vilas
32	Itekar Umesh Balbhim	87	Shimpi Vivek Bhagwan
33	Jadhav Sushant ganesh	88	Shinde Pritam Prakash
34	Jamdade Shridhar suresh	89	Shinde Shyam Baburao
35	Jawale Vishnu Basappa	90	Shinde Swapnil Ankush
36	Kadam Vitthal baban	91	Shirke Omkar Vijay
37	Kakade Shubham Rajendra	92	Shivsharan prashant Anil
38	Kalate Abhishek Sanjay	93	Sonawane Ninad Dilip
39	Kalbhor Ninad Pravin	94	Sonawane Vivek Jalindher
40	Kamble Pranav Pramod	95	Sonkamble Prathmesh Suresh
41	Kamthe Pandurang Baliram	96	Sontakke Bhushan Sudhakar
42	Khandagale Rushikesh Manoj	97	Suryawanshi Nilam Balaso
43	Khandekar Vijay Baburao	98	Tekwade Abhishek Bharat
44	Khatode Kiran Eknath	99	Telange Sachin Sharad
45	Khilare Kanchan Kaluram	100	Tilekar Rohan Shashikant
46	Khillari Maheshwari Chhadanand	101	Tupe Vivek Vijay
47	Kondhare Pratap dattatray	102	Utekar Shubham Dipak
48	Kothawale Swapnil Dattatray	103	Vajare Asmita Shahdev
49	Kumbhar Amit Gopal	104	Wadagale Ankita Anil
50	Kupkar Ganesh Mahadev	105	Wagh Kiran dattu
51	kupkar Poonam Mahadev	106	Wani Chetan Pramod
52	Lonare Ashutosh Rajesh	107	Waykar Prathamesh Pradip
53	Mahalle Hrushikesh Sanjay	108	Yadav Athrva Shivaji
54	Manchare Komal Bhausaheb		
55	Mane Prashant Anant		

SE MECHANICAL SCIENCE PARK INDUSTRIAL VISIT ON 29/02/2020

Student Roll Call List, SE Mechanical

Roll No.	Name of the Student	Roll No.	Name of the Student
1	Adhari Sunil Subhash	56	Merukar Rameshwar Prakash
2	Ambadkar Manoj Ganesh	57	Mhaiskar Siddhant Vishwas
3	Avachar Omkar Atulchand	58	Mohalkar Akash Laxman
4	Bhange Atharva Shyam	59	More Neha Devendra
5	Bhargude Yashodhan Ashok	60	More Rushikesh Sukhadev
6	Bhoite Abhishek Tanaji	61	Maurya Mangesh Ramlavat
7	Bhor Siddhesh Annasaheb	62	Nadavadekar Sangram Shivaji
8	Bhosale Kiran Keshav	63	Nikam Shivcharan Dhanaji
9	Bhosale Sandip Balasaheb	64	Nikumbh Shubham Subhash
10	Bokil Prasad Pradip	65	Padel Pranav Prakash
11	Borhade Shubham Prakash	66	Panchal Sanket Sopan
12	Chavan Ronit Sudhakar	67	Paralkar Aniket Satish
13	Chopade Yogesh Gajanan	68	Patel Om Deepak
14	Dakwale Sudarshan Dattatray	69	Patil Bhushan Manohar
15	Dange Sagar Shreerang	70	Patil Chandrugouda Topanagouda
16	Deokar Vinayak Chanappa	71	Patil Pravin Vasant
17	Deshmukh Rohit Dipak	72	Patil Roshni Sandeep
18	Dhadange Ravi Ramesh	73	Patil Rushikesh Narayan
19	Dhawale Mangesh Balasaheb	74	Patil Sai Suresh
20	Dhayrekar Swapnali Rajendra	75	Patil Swapnjeet Sunil
21	Dhere Prajwal Vishwas	76	Jadhav Tushar Atul
22	Dhule Vaibhav Shaligram	77	Patil Vaibhav Laxman
23	Dhumal Ashwini Madan	78	Pawar Vishwajit Suryakant
24	Fulawade Pooja Maruti	79	Paygude Omkar Santosh
25	Ghadsing Ritesh Mithu	80	Rao Ganesh Chandrashekhar
26	Gajare Shivram Mohan	81	Rathod Yash Mukesh
27	Gutti Sohaib bashu	82	Salunke Saurabh Ashok
28	Hodage Raturaj Nivrutti	83	Salvi Akshay Suresh
29	Honrao Gaurav Nandkumar	84	Sandanshiv Chaitanya Rajendra
30	Inamke Soham Meghraj	85	Satpute Atharv Sunil
31	Indane Pankaj Suresh	86	Savale Uddesh Vilas
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33	Jadhav Sushant ganesh	88	Shinde Pritam Prakash
34	Jamdade Shridhar suresh	89	Shinde Shyam Baburao
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39	Kalbhorr Ninad Pravin	94	Sonawane Vivek Jalindher
40	Kamble Pranav Pramod	95	Sonkamble Prathmesh Suresh
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42	Khandagale Rushikesh Manoj	97	Suryawanshi Nilam Balaso
43	Khandekar Vijay Baburao	98	Tekwade Abhishek Bharat
44	Khatode Kiran Eknath	99	Telange Sachin Sharad
45	Khilare Kanchan Kaluram	100	Tilekar Rohan Shashikant
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49	Kumbhar Amit Gopal	104	Wadagale Ankita Anil
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52	Lonare Ashutosh Rajesh	107	Waykar Prathamesh Pradip
53	Mahalle Hrushikesh Sanjay	108	Yadav Athrva Shivaji
54	Manchare Komal Bhausaheb		
55	Mane Prashant Anant		

"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"
**GENBA SOPANRAO MOZE COLLEGE OF
ENGINEERING**

S. No. 25/1/3, Balewadi, Pune – 411 045

(Approved by AICTE and Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University)

DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph: 020-27390500 Website: www.gsmozecoe.org Email: gsmoze@yahoo.co.in



INDUSTRIAL VISIT REPORT

SUBJECT: Applied Thermodynamics

CLASS: SE MECHANICAL

ADDRESS: Kalewadi Road, IBMR College Rd, Science Park Marg, near Auto Cluster Exhibition Center, Chinchwad, Pimpri-Chinchwad, Maharashtra 411019

DATE : 29/02/2020

NUMBER OF STUDENT: 57

NUMBER FACULTY: 02


DESCRIPTION:

The Science Centre has 4 Galleries on different subjects.

AUTOMOBILES: The 600 sq.m. gallery comprises of interesting exhibits in the form of interactive, kiosks, cut section models providing opportunities to peep into automobiles, 3D dioramas and exhibits explaining how automobile stuffs like spark plug, injector, silencers, wipers etc. work. Opportunity for virtual driving, testing your skills normally used in driving and activities on making of an automobile will certainly enthuse visitors.

ENERGY: In this exposition, spread over 400sq.m., various forms of energy, their production and practical applications, environmental issues, world energy reserves and future sources of energy are explained through various interactive exhibits, working models and multimedia presentation with added components in them.


Subject I/C
M.R. Jagadale


Head of the Department,
MECHANICAL ENGINEERING
Genba Sopanrao Mo.
25/1/3, Balewadi, Pune-411 045.

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FUN SCIENCE: The Fun Science Gallery, spread over an area of 600 sq m, is full of opportunities for visitors to interact, explore and experience various aspects of science in highly entertaining ambience. Most of the exhibit here are participatory which provide hands-on and minds-on experience to visitors and helps to clear basic concepts of Science.

CLIMATE CHANGE: The temporary exhibition on Climate Change explains the natural volcanic eruptions, Earth's tilt, continental drift and manmade causes like green house effect, deforestation, suggesting climate change and its consequences on land, air, ice, ocean and inhabitants of Earth. Visitor can learn about difference between weather and factors affecting climate, interaction between components of climate system etc. are also explained.

Pimpri Chinchwad Science Park (PCSP), a unique, non-formal science learning centre in the industrial twin-township of Pimpri Chinchwad, was inaugurated on February 8, 2013. Pimpri Chinchwad Science Park was set up with a capital cost of Rs.850 lakhs, shared equally by Pimpri Chinchwad Municipal Corporation (PCMC) and the Government of India. The corporation also provided approximately 7 acres of land for setting up the project, and the Science Park was developed under joint auspices of the National Council of Science Museums (NCSM) and Pimpri Chinchwad Municipal Corporation. Pimpri Chinchwad Science Park was developed in an attempt to initiate well coordinated science communication and popularisation activities in the region. The Centre has a built-up area of approximately 4000 sq. m., housing three permanent galleries, a temporary exhibition hall, an inflatable-dome planetarium, a science demonstration area, an activity corner, an auditorium, a 3D science show facility, a library cum conference hall, and a workshop for maintenance and development of exhibits.


Subject I/C
M.R. Jagadale


Head of the Department,
MECHANICAL ENGINEERING
Genba Sopanrao Moze College of Engg.
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Subject I/C
M.R. Jagadale


Head of the Department,
MECHANICAL ENGINEERING
Genba Sopanrao Moze
25/1/3, Balewadi, Pune-411 045.



GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

Balewadi, Pune – 411 045

Date: 20/01/2020

Report on Industrial visit to Nashik Thermal Power Station, NTPS Colony, Nashik, Maharashtra-422105.

Submitted to
The Principal,
G.S. Moze COE,
Balewadi, Pune-45

As a part of curriculum of B.E. (Mech.) for the subject "Energy Engineering" the students (42) in numbers) along with 2 staff members visited to **Nashik Thermal Power Station** on 16.01.2020.

Objective: To study and observed working of **Thermal Power** plant.

Our visit team reached **Nashik Thermal Power Station** at 1.30 PM. Visit started at 02:30 PM First we met Visit In charge Mr. S. M. Khare sir in **Nashik Thermal Power Station**. Nashik Thermal Power Station has an installed capacity of $140 \times 2 + 210 \times 3 = 910$ MW. The first unit was commissioned in 1970. The cost of unit including civil works was Rs 56.5 crores and the second unit also commissioned with the same cost under the first stage. The second stage consists of three units of 210 MW each was commissioned in the later years. The power station campus includes self-contained township with all amenities. The entire land consists of 474 hectares. The power plant has got ISO Certification on April 2002. The first head of the Power station was Sri. Karanjkar assisted by Sri. C. L. Gupta and Sri Sen Gupta. Mr. Khare sir bring us in Seminar hall and give us presentation about purpose for foundation **Nashik Thermal Power Station**. Then he gives each section details of **Nashik Thermal Power Station** and after seminar Question Answer session is there. After the Seminar he directly brings us to visit the various sections in two batches. First one batch guided by Mr. S. M. Khare and second one batch guided by Mr. Deshpande sir. Details of each section given below:

1. **Coal handling:** The initial process in coal based thermal power plant is coal handling. The function of coal handling plant in thermal power plant is to receive process, store, and feed the coal bunkers consistently over entire life of the power plant. Coal is transported in thermal power station by railways or roadways. There is following process Unloading, Feed process, Screening process, Crushing process, Stacking and Reclaiming Process, Bunkering process.



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2. Boiler section: In this section we have seen the working of boiler, various mountings of boiler like as Two safety valve, Two water level indicators, Pressure gauge, Fusible plug, Steam stop valve, Feed check valve, Blow-off cock, Man and mud hole and various accessories of boiler like as air pre-heater, Economizer, Super heater, Feed pump, Injector.
3. Condenser section: In this section we have seen the working of condenser and feed pumps.
4. Steam Turbine section: In this section we have seen the working of steam turbine shaft connected to the generator through gear box and produced electricity up to 910 M watts.
5. Ash Handling: Coal is used as a fuel for generating electricity. After burning of coal, 40% of total coal consumption is converted into ash which needs to be properly disposed-off from the thermal power plant. We seen different component of Ash Handling plant as following- ESP, Feed, Clinker Grinder or Crusher, Jet Pump, Dewatering Bin, Transfer Bin, Storage Bin, Dry Bottom Ash Conveyor, Clinker Cooling Conveyor, Dry Bottom Ash system, slurry Pump.

After completion of Visit we again come to Seminar hall and ask the doubts and clear that doubts. Our visit ends at 6.45 pm. It was a very important knowledgeable session for all our team and students will be motivated towards various researches in related field. We on behalf of Mechanical engineering department would like to thank you for permitting us to conduct the respective visit.

Note: Visit photos are attached with report.

Prepared by
Prof. R. S. Fegade.

HOD MECH

Prof. P. M. Shinde

Head of the Department,

MECHANICAL ENGINEERING

Genb. Sopanrao Moze

25/1/3, Balewadi, Pune-411 045.

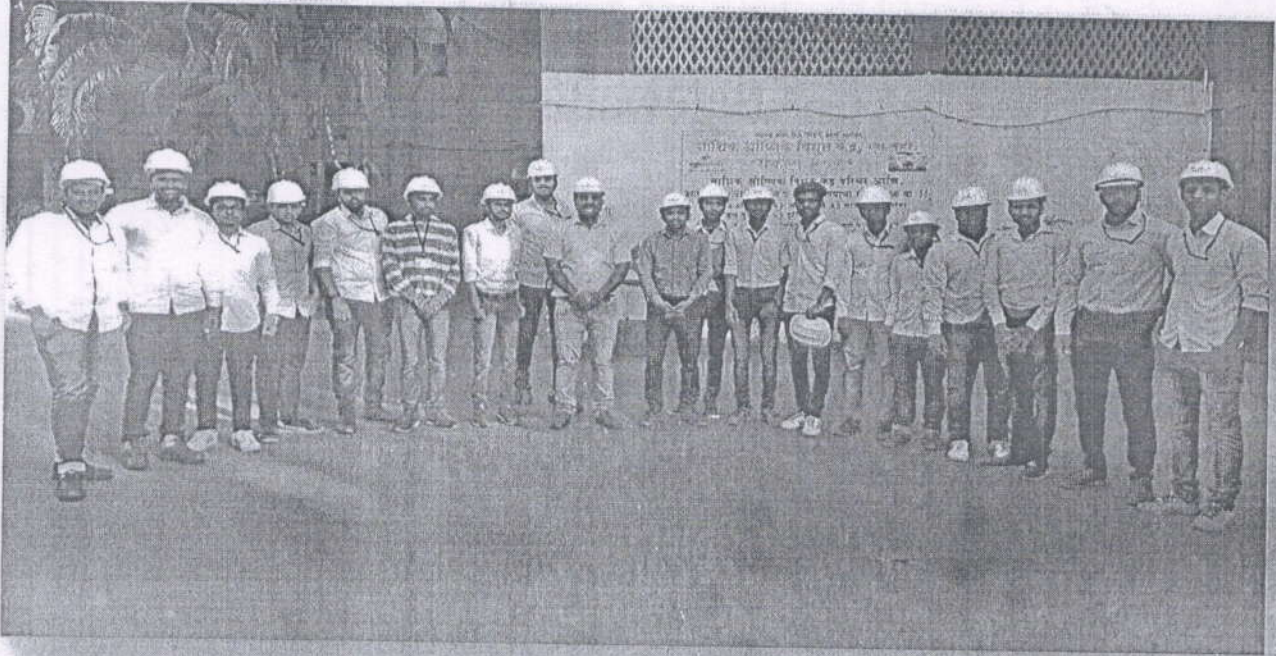


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Visit Photographs:



Batch 1st Guided by Senior Engineer Deshpande sir



Batch 2nd Guided by Senior Engineer S.M. Khare sir



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Founder President : Shri. Rambhau Moze

Ref. No. : 6151/COE/2020/Jan/426

Date : 09/01/2020

To,
The Director,
Nashik Thermal Power Station,
NTPS Colony, Nashik, Maharashtra 422105.

Sub: Visit of our college students to **Nashik Thermal Power Station.**

Dear Sir,

We are one of the reputed Engineering College in Pune region, established in 1999. As per Savitribai Phule Pune University syllabus of Final year mechanical engineering Energy Engineering subject, calls for the educational visit of Final year mechanical engineering students to understand working of steam turbines, steam turbine power plant.

We request you to kindly grant permission to our **50 students + 03 faculty members** to visit Nashik Thermal Power Station for study and observations according to following schedule:

Sr. No.	Date	No of Students	Faculty Members	Time
1	16/01/2020	50	03	10:00 AM on wards

Thanking you.

Yours Faithfully,

Prof. P.M. Shinde

Head, Mechanical Engineering Department

Head of the Department,

MECHANICAL ENGINEERING

Genba Sopanrao Moze College of Engg.

25/1/3, Balewadi, Pune-411 045.

16.01.2020
Exe. Engr. (TSC)
MSPGCL, NTPS, Eklahare
(40+02 visited)

Principal
PRINCIPAL

Genba Sopanrao Moze College of Engg
25/1/3, Balewadi, PUNE-411 045.

Contact :

I. Prof. Ritesh S. Fegade

(Mb.No.9975758469)

riteshfegade@gmail.com





Genba Sopanrao Moze Trust's
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

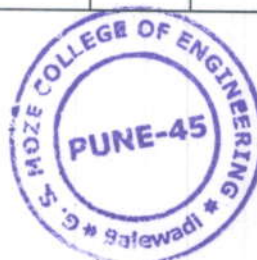
Balewadi, Pune-411045

Sem-II, Academic Year: 2019-20

Industrial Visit-Nashik (Mechanical Department)

SR. NO.	ROLL NO	Name of students	Student Number	Parent Number	IN	OUT	Sign
1	A-01	Mahesh Acharya	9764566240	9527539918			<i>Mahesh Acharya</i>
2	A-05	Yashwant Barache	8087483525	9850616000			<i>Yashwant Barache</i>
3	A-07	Abhilash Baviskar	7773932985	7755998723			<i>Abhilash Baviskar</i>
4	A-11	Akash Chavan	9762200858	8329718452			<i>Akash Chavan</i>
5	A-12	Madhur Deoolkar	9881155952	9822080160			<i>Madhur Deoolkar</i>
6	A-17	Prashant Dhole	7517485170	9011962077			<i>Prashant Dhole</i>
7	A-19	Abhijit Dongre	9970823281	9604173604			<i>Abhijit Dongre</i>
8	A-22	Vinit Chaudhari	8856041160	9850185418			<i>Vinit Chaudhari</i>
9	A-33	Dnyaneshwar Gore	9762525886	8788803236			<i>Dnyaneshwar Gore</i>
10	A-34	Rushikesh Gujar	7387476446	8888924218			<i>Rushikesh Gujar</i>
11	A-35	Himmat Gurkha	7387961321	8380926066			<i>Himmat Gurkha</i>
12	A-36	Murlidhar Hambarde	9689974003	7038006250			<i>Murlidhar Hambarde</i>
13	A-37	Nikhil Jadhav	8796117177	8830035687			<i>Nikhil Jadhav</i>
14	A-41	Sachin Jadhav	9604459119	9922517206			<i>Sachin Jadhav</i>
15	A-42	Sourabh Jadhav	7020656178	7588194523			<i>Sourabh Jadhav</i>
16	A-45	Sujay Jagadale	9326265556	9975549054			<i>Sujay Jagadale</i>
17	A-46	Akash Jagtap	7709032005	7875164949			<i>Akash Jagtap</i>
18	A-47	Deepak Jangid	7498692077	9730445337			<i>Deepak Jangid</i>
19	A-50	Vishwajeet Kadam	9637808599	8551011811			<i>Vishwajeet Kadam</i>
20	A-51	Rohit Jadhav	9021739746	9359274139			<i>Rohit Jadhav</i>
21	A-52	Ashish Kaitake	7776979646	8600660316			<i>Ashish Kaitake</i>
22	A-53	Rushikesh Kalase	7057767847	8605891701			<i>Rushikesh Kalase</i>
23	A-56	Swapnil Kalpund	9604156103	9561060600			<i>Swapnil Kalpund</i>
24	A-62	Pranav Katkar	7208422684	7208830833			<i>Pranav Katkar</i>
25	A-63	Kirankumar Kumbhar	9561019596	7447844870			<i>Kirankumar Kumbhar</i>
26	A-64	Aniket Lawand	9545190013	9096795603			<i>Aniket Lawand</i>
27	A-65	Sagar Mahadik	7757075820	9096939489			<i>Sagar Mahadik</i>
28	A-70	Deepak Chavan	8149508047				<i>Deepak Chavan</i>
29	A-71	Sourabh Bodhgire	8624803999	8857875539			<i>Sourabh Bodhgire</i>
30	A-77	Yashwant Jadhav	9766043693	8788803236			<i>Yashwant Jadhav</i>
31	B-01	Deepak Malekar	8390960531	9730254159			<i>Deepak Malekar</i>
32	B-02	Mandar Mithe	7040160746	9503442660			<i>Mandar Mithe</i>
33	B-07	Bhushan Mohite	7499337224	9850051569			<i>Bhushan Mohite</i>
34	B-24	Girish Patil	9545131386	9021705254			<i>Girish Patil</i>
35	B-26	Tejas Patil	7558503484	8149821971			<i>Tejas Patil</i>
36	B-28	Amol Pawar	9975816086	8668898884			<i>Amol Pawar</i>
37	B-29	Mayur Pawar	9028824912	8329629979			<i>Mayur Pawar</i>
38	B-33	Yashwant Rakh	8329282061	9403267389			<i>Yashwant Rakh</i>
39	B-42	Atul Sanap	7798927335	9765392240			<i>Atul Sanap</i>
40	B-43	Sourabh Sanap	7276228289	8668831815			<i>Sourabh Sanap</i>
41	B-46	Mohsin Shaikh	8600385070	8766786855			<i>Mohsin Shaikh</i>
42	B-47	Sagar Shete	8796121496	9657422642			<i>Sagar Shete</i>
43	B-49	Rakesh Shinde	8237982528	9284916573			<i>Rakesh Shinde</i>
44	B-75	Rushikesh Desai	8793791683	7219358714			<i>Rushikesh Desai</i>

[Signature]
Head of the Department,
MECHANICAL ENGINEERING
Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, Pune-411 045.



[Signature]
Prof. (Dr.) A. B. Auti
B.E. (Mech), M.E. (Thermal)
Ph.D (Engg)



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gsmoze@yahoo.co.in

Founder President: Shri Rambhau Moze

Date: 25/02/2020

INDUSSTRIAL VISIT REPORT ON KATRAJ DAIRY

SUBJECT: Refrigeration & Air Conditioning

Class : TE Mechanical

**Address : Pune Zilha Sahakari Dudh Utpadak Sangh Ltd.
Katraj Dairy, Pune – Satara Road,
Opp. Rajiv Gandhi Udyan,
Katraj, Pune – 411046.**

Date: 25/02/2020

Number of Student: 38

Number of Faculty: 02

Description:

After entry to the premises of Katraj dairy they shown us a video clip regareding history and establishment of Katraj dairy along with its use to farmers and their market places with the machineries they are use. The video also explain the products producing by Katraj Dairy and a small introduction was also given there. We got to hear director sir’s speech in

that video also. The important of dairy in economics of farmers along with health condition of citizens is also highlighted in video.

Boiler:- There are two types of boiler they are using fire tube and water tube boiler which are continuously producing steam at 2 bar. There is one solid fuel boiler also present where dung cakes are use as fuel.

Pasteurization:- **Pasteurization** or **pasteurisation** is a process in which water and certain packaged and non-packaged foods (such as milk and fruit juice) are treated with mild heat, usually to less than 100 °C (212 °F), to eliminate pathogens and extend shelf life. The process is intended to destroy or deactivate organisms and enzymes that contribute to spoilage or risk of disease, including vegetative bacteria, but not bacterial spores.^{[1][2]} Since pasteurization is not sterilization, and does not kill spores, a second "double" pasteurization will extend the quality by killing spores that have germinated. In dairy they are having 4 pasteurizing containers where steam is use for the process of pasteurization.

Cooling Tower: A **cooling tower** is a heat rejection device that rejects waste heat to the atmosphere through the cooling of a water stream to a lower temperature. Cooling towers may either use the evaporation of water to remove process heat and cool the working fluid to near the wet-bulb air temperature or, in the case of *closed circuit dry cooling towers*, rely solely on

air to cool the working fluid. In dairy one water cooling tower is working.

Packing Room: In this how the packing of various product takes place is shown.

Quality Department: It is located at first floor of main building where the task related to quality takes place. 20 Employees are currently working in this department.

Cafeteria:- It is last part of visit where we get a chance to see the various product of Katraj Dairy along with the prize.



Prof. R. V. Thakur

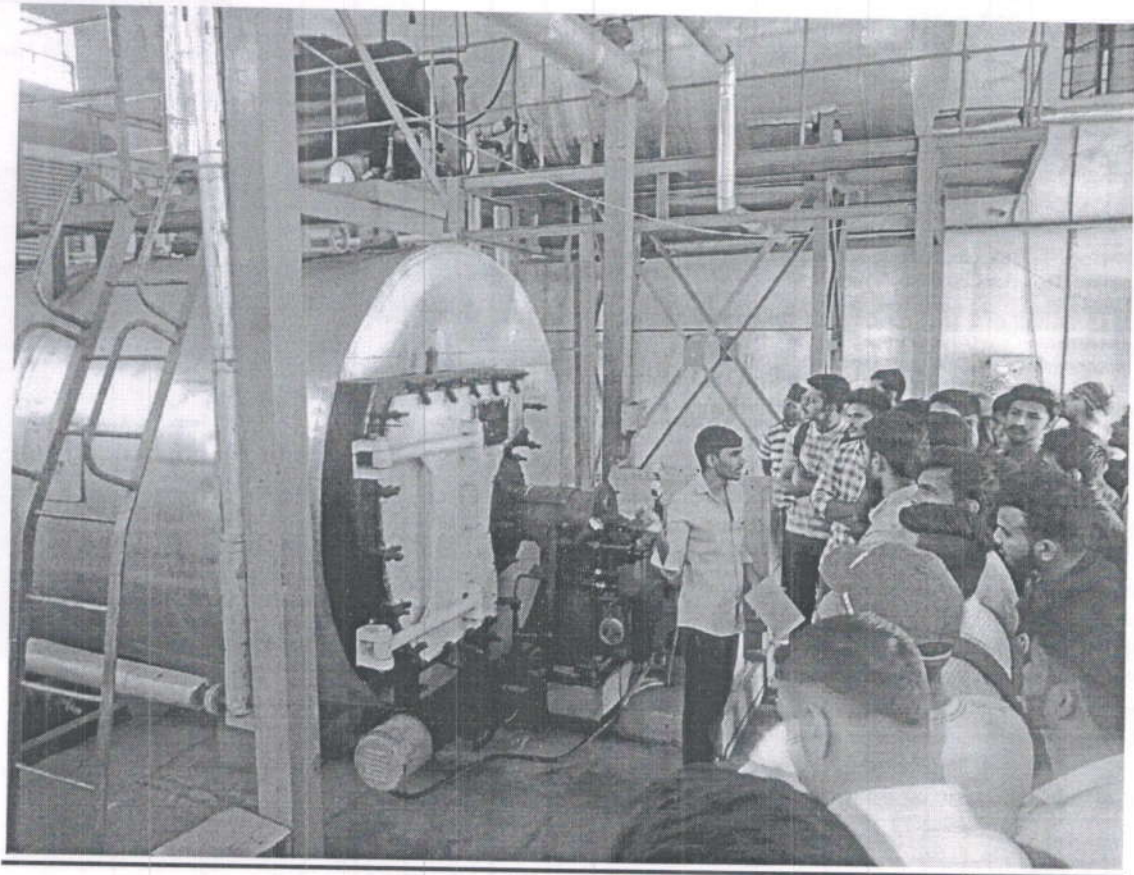
Subject In charge



Prof. P. M. Shinde
Head, MECHANICAL



Students watching video



Boiler Section Explain by Mr. Akash Walunj



पुणे जिल्हा सहकारी दूध उत्पादक संघ मर्यादित
कारागृह
दुग्धालय
आयएस ओ २२००८ सर्टिफाइड डेजरी

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GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

S. No. 25/1/3, Balewadi, Pune - 411 045

(Approved by AICTE and Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University)

DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph. 020-27390500 Website www.gsmozecoe.org Email gsmoze@yahoo.co.in

Founder President Shri Rambhau Moze

Ref. No. GSM/COE/2020/Feb/474

Date 18-02-2020

To,

The Director,
Pune Zilha Sahakari Dudh Utpadak Sangh Ltd.
Katraj Dairy, Pune - Satara Road,
Opp. Rajiv Gandhi Udyan,
Katraj, Pune - 411046.

Sub: Regarding Permission for industrial visit at Katraj Dairy, Katraj, Pune

Respected Sir,

Genba Sopanrao College of Engineering, Balewadi, Pune is one of the reputed Engineering College in Pune region, established in 1999. As per SPPU syllabus of third year Mechanical Engineering for Refrigeration & Air Conditioning subject, a visit to cold storage plant is required. we request you to kindly grant permission to our students and faculty members to visit Katraj Dairy, Pune.

Details of visit are specified below:

Day and Date of Visit: Tuesday 25-02-2020

Number of Student: 86

Number of Faculties accompanying student: 02


Thanking you.

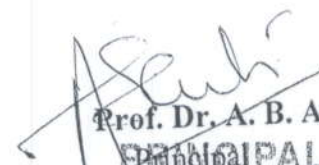
Yours Faithfully,



Prof. P.M. Shinde
HOD MECH




Pune Zilla Saha. Dudh
Utpadak Sangh Mar.
Pune-Satara Road,
Katraj Dairy, Pune-411046.


Prof. Dr. A. B. Auti
PRINCIPAL
Genba Sopanrao Moze College of Engg
25/1/3, Balewadi, PUNE-411 045.

ATTENDANCE

INDUSTRIAL VISIT KATRAJ DAIRY TE MECH DATE 25-02-2020

Sr. No.	Name	Signature
02	Clinton Bagul	
68	Aves Shaikh	
53	Ishwan Nikam	
22	Gaurav Mundke	
31	Sachin Kalsheedi	
15	chetan Gaikwad	
04	Swapnil Bhumre	
57	Amal pandit	
79	Vinod turde	
58	Navin S. Pawdey	
29	Tejas A. Kadam	
28	Jaisingpur Shubham	
21	Gaurav Nikam	
59	Rohit K. Patil	
27	Shubham K. Jadhav	
17	Swapnil V. Gaikwad	
25	Sudesh F. Gutte	
55	Sachin Nimbalkar	
39	Tamboli Anhar A	
84	Prashant V. Rathod	
23	Suroj N. Waram	
42	Vyankatesh C. Mambhale	
58	Ajay S. Panicker	
63	Ankur P. Patil	
40	Govind Deneude	
58	Ajay S	
05	Balkrishna Datta	
78	Rushikesh S. Thorat	
44	Rajad Shaikh	
87	Nalga, re Krishna S	
26	Pratik S. Jadhav	
47	Mare Nikhil	
35	AKASH H. Kshirsagar	
49	Ransif Nanaware	
65	Tulshidas D. Rane	
56	Omkar S. Kapre	
08	Shimon A. Borge	
52	Prathamesh H. Nigade	

UNDERTAKING

I, TE Mechanical Engg. Student of GSMCOE, Balewadi willing to attend Industrial visit on 25th February 2020 to Katraj Dairy Pune. I remain solely responsible for good behavior and will not belong to any misbehavior throughout the period of visit.

Sr. No.	Name	Signature
02	Clinton Bogul	
68	Aves A Shaikh	
22	Gaurav D. Mandke	
31	Sachin Kalshetti	
15 19	chetan Gaikwad	
04	Sourabh Banne	
57	Amol pandit	
79	Vinod Kurde	
53	Ishwan Nikam	
50	Nawth S. Pandey	
29	Tejas A. Kadam	
28	Taisingpur Shubham	
21	Gaurav Nikam	
59	Rohit K. Patil	
25	sudesh T. Gutte	
17	Swarnil V. Gaikwad	
27	Shubham K. Jadhav	
55	Saehin nimbalkar	
39	Tamboli Ashar A	
42	Vyankatesh C. Mamalyal	
23	Suraj N. Giram	
84	Prashant V. Bamod	
05	Prashant V. Bamod	
78	Rushikesh S. Thorat	
A-19	Chand Nandkishor B	
87	Nalgi, re krishna S	
17	Moze Nikhil	
49	Ranjit Naravare	
58	Ajay S. Paricker	
35	AKASH H. Kshirsagar	
63	Ankush P. Pekamwar	
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"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"

GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

Balewadi, Pune – 411 045

Date: 18/03/2022

Report of seminar conducted on CAD and CAE by G2g Innovation Training Centre, Payko Tower, Karve Road, Kothrud, Pune – 411038.

Submitted to
The Principal,
G.S. Moze COE,
Balewadi, Pune-45

Seminar conducted by Mr. Sushil Bhagat CEO of G2g Innovation Training Centre to the BE students of Genba Sopanrao Moze college of engineering, Balewadi, Pune by online mode at 10 am. Mr. Bhagat sir shares the very important knowledge about the CAD and CAE from that some point as follows:

CAD/CAE technology plays an important role in functioning of robots. In CAD/CAE system the robot work data is prepared from CAD data from the first designing process. This system is a kind of off-line teaching system. Since an actual robot is not used to input data for path creation, the coordinate system data must be corrected and simulations necessary before loading a created data.

Robots are inevitable for application in the field where the work is extremely difficult or impossible for human being to perform.

Some of such examples are: Work requiring speed, precision or function exceeding human ability, or that which requires entering a sterile environment, vacuum, outer space, or around a nuclear reactor, places that a man cannot enter easily or at all.

Computer Aided Design and Computer Aided Analysis is the way things are made these days. Without this technology we wouldn't have the range and quality of products available or, at least, they wouldn't be available at a price most of us can afford.

Hand-building and manual techniques still very much have their place and Design Education needs to treasure and foster these skills so that future generations will have the 'hands-on' skills to understand the man-made world and provide the next generation of engineers, designers and technicians.

All of these professionals will be using CAD/CAE techniques or CAD/CAE products in their work, alongside practical hands-on skill. Design and Technology education has to reflect modern practice so it is crucial that students have the opportunity to use real CAD/CAE tools in their designing and Making.

USES





"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"

GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

Balewadi, Pune - 411 045

Computer-aided design is one of the many tools used by engineers and designers and is used in many ways depending on the profession of the user and the type of software in question.

CAD is one part of the whole Digital Product Development (DPD) activity within the Product Lifecycle Management (PLM) processes, and as such is used together with other tools, which are either integrated modules or stand-alone products, such as:

- Computer-aided engineering (CAE) and Finite element analysis (FEA)
- Computer-aided manufacturing (CAM) including instructions to Computer Numerical Control (CNC) machines
- Photo realistic rendering
- Document management and revision control using Product Data Management (PDM).

CAD is also used for the accurate creation of photo simulations that are often required in the preparation of Environmental Impact Reports, in which computer-aided designs of intended buildings are superimposed into photographs of existing environments to represent what that locale will be like were the proposed facilities allowed to be built. Potential blockage of view corridors and shadow studies are also frequently analyzed through the use of CAD.

CAD has been proven to be useful to engineers as well. Using four properties which are history, features, parameterization, and high level constraints. The construction history can be used to look back into the model's personal features and work on the single area rather than the whole model. Parameters and constraints can be used to determine the size, shape, and other properties of the different modeling elements.

The features in the CAD system can be used for the variety of tools for measurement such as tensile strength, yield strength, electrical or electro-magnetic properties.

In this way Mr. Bhagat sir discussed the CAD and CAE Knowledge to the BE Mechanical students.



HOD MECH

Prof. S.R. Sandanshiv

Head of the Department

MECHANICAL ENGINEERING

Genba Sopanrao Moze College of Engg.
25/1/3/, Balewadi, Pune - 411045



"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"

GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

Balewadi, Pune – 411 045

Date: 16/04/2022

Report on Industrial visit to Shri Sant Tukaram Sahakari Sakhar Karkhana, Mulshi, Post Kasarsai, Pune.

Submitted to
The Principal,
G.S. Moze COE,
Balewadi, Pune-45



As a part of curriculum of B.E. (Mech.) for the subject "Energy Engineering" the students (153 in numbers) along with 3 staff members visited to Shri Sant Tukaram Sahakari Sakhar Karkhana on 16/04/2022.

Objective: To study and observed working of Steam turbine power plant.

Our visit team reached Shri Sant Tukaram SSK at 10.00 AM. Visit started at 10.30 AM. First we met Visit in charge Mr. Pathare sir in Shri Sant Tukaram SSK. He bring us in Seminar hall and give us presentation about purpose for foundation Shri Sant Tukaram SSK. Then he gives each section details of sugar factory and after seminar Question Answer session is there. After the Seminar He directly brings us to visit the sections.

Boiler section: In this section we have seen the working of boiler, various mountings of boiler like as Two safety valve, Two water level indicators, Pressure gauge, Fusible plug, Steam stop valve, Feed check valve, Blow-of cock, Man and mud hole and various accessories of boiler like as air pre-heater, Economizer, Super heater, Feed pump, Injector.


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Note: Visit photos are attached with report.

Prepared by
Prof. R .S. Fegade.

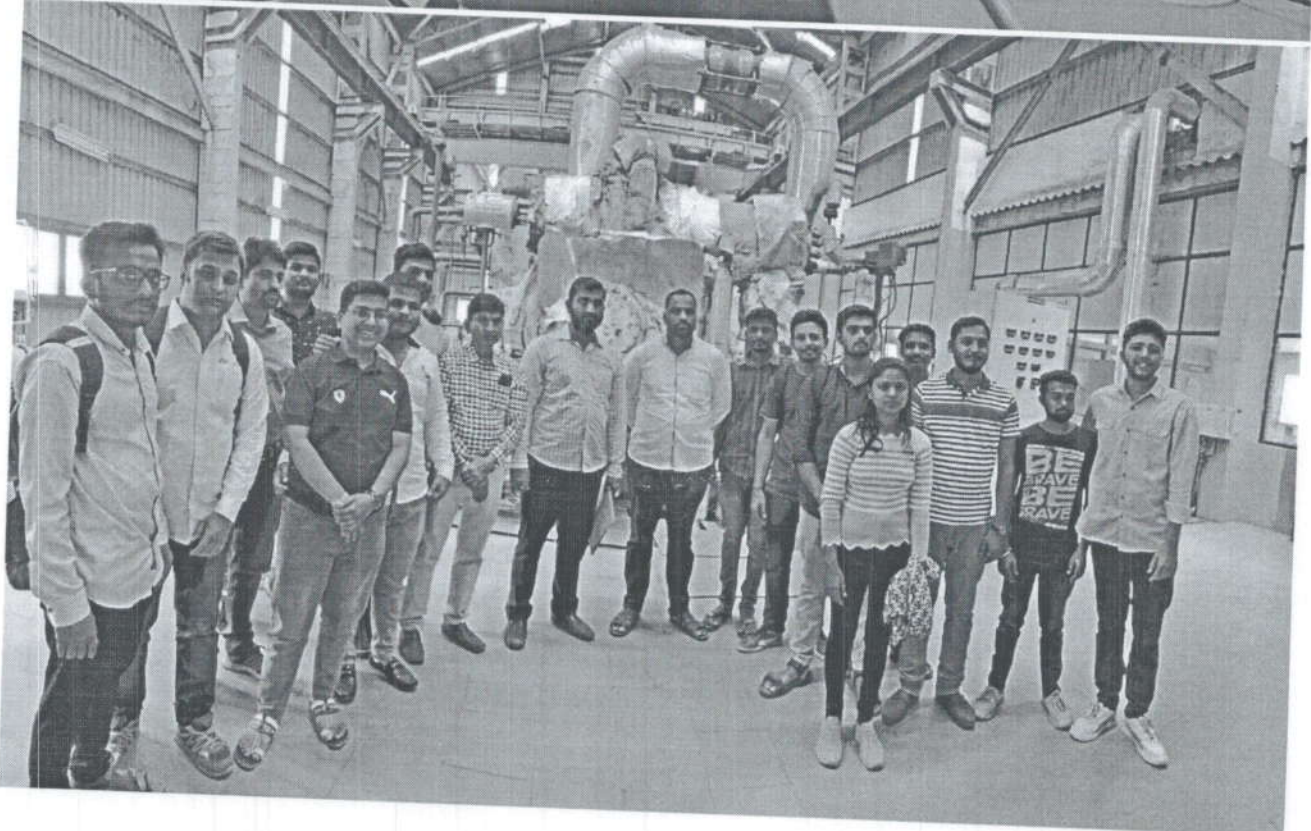
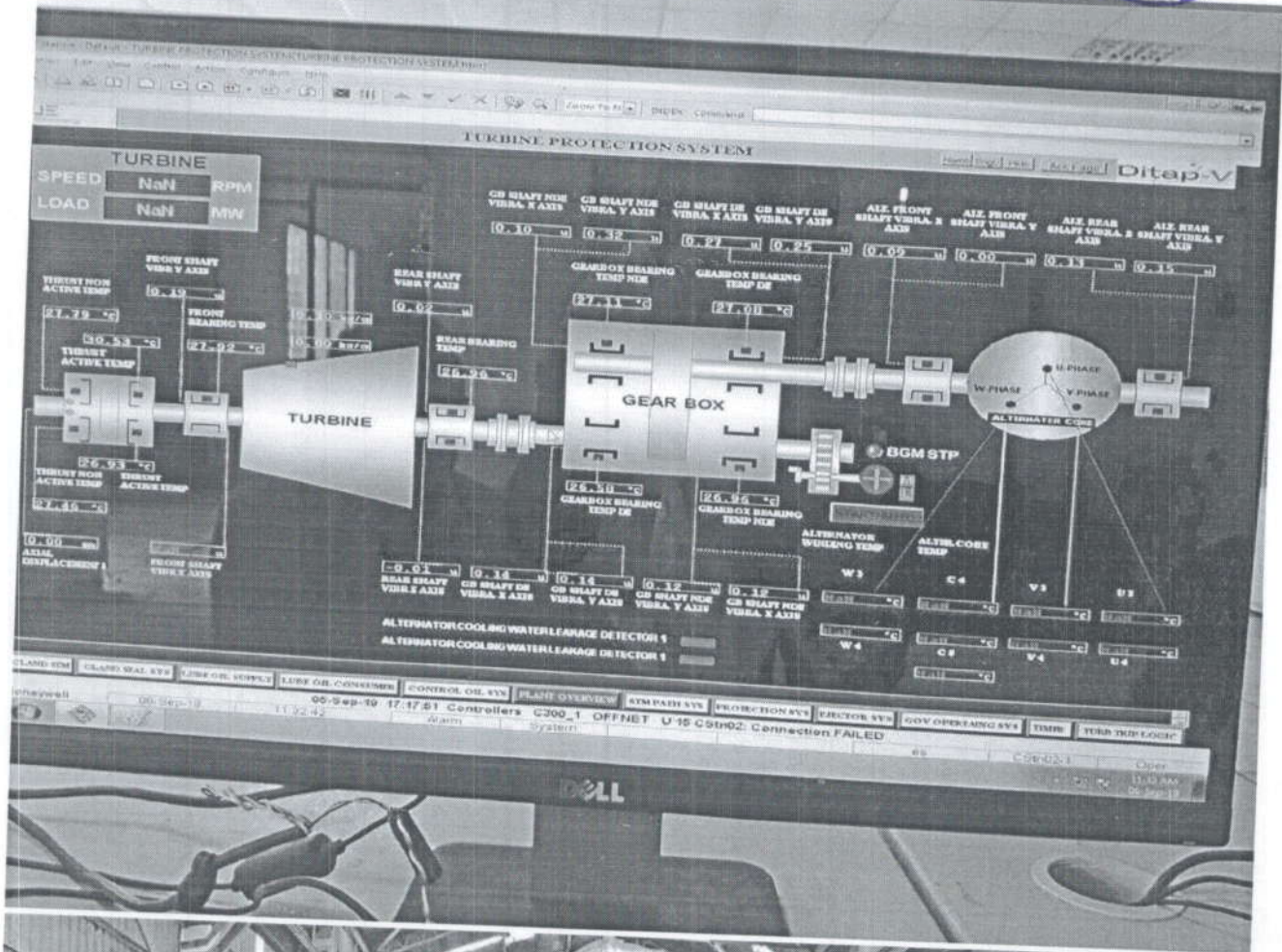

Head of the Department
MECHANICAL ENGINEERING
Genba Sopanrao Moze College of Engg
25/1/3/, Balewadi, Pune - 411045
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GENBA SOPANRAO MOZE TRUST'S
**GENBA SOPANRAO MOZE COLLEGE OF
ENGINEERING**

25/1/3, Balewadi, Haveli, Pune-411045

Department of Mechanical Engineering

Date:-20.04.2022

Industrial Visit of Measurement Laboratory

Report on Industrial visit to Auto Cluster Development and Research Institute, Chinchwad, Pune
Submitted to
The Director/Principal GSMCOE,
Balewadi, Pune-45



As a part of curriculum of T.E. (Mech.) for the subject "Measurement Laboratory" the students (80 in numbers) along with four staff members visited to Auto Cluster Development and Research Institute scheduled on 18.04.2022.

Objective: To study the CMM, calibration labs and Measuring instruments.

It was a one day visit where, Our visit team reached at Auto Cluster 9.30 AM. Visit started at 10.00 AM. First we met Mr. Sachin Pansare (Mo 9890930967) who is the Visit in charge in plant. We assembled at Seminar hall and a video presentation was given us about purpose for foundation Auto cluster about technical aspects, different labs in Institute and tests conducted during research and development of the mechanical components. Presentation has concluded with Question Answer session.

After the Seminar we were gone batch wise to visit various Labs. Lab wise visit details are mentioned below:

1. **Environmental Testing Lab:** This lab is First kind of lab in India having the various test setups like Salt Spray Chamber, Vibration shaker with temperature coupled, dust spray chamber, servo hydraulic actuator, water spray chamber, temperature cycle test, High low chamber, humidity test, thermal shock chamber.
2. **Rubber & polymer lab:** Show us the machines like Universal testing machine (UTM), Thermo gravimetric Analyzer (TGA), Ozone chamber, Impact tester, Accelerating weathering tester.
3. **Metrology lab:** (A) Co-ordinate Measurement Machine (CMM) Make: Accurate, Accuracy: $\pm 2.9 + (L/300) \mu\text{m}$, Model Cordimesur, Max. job size 800mm X 1600mm X 800mm. Make Accurate $\pm 25 (L/50) \mu\text{m}$, Seagull, Job size: 2800mm X 1100mm X 1500mm. (B) Roundness measuring machine: Make Aditya Axial, Accuracy $0.08 + 0.005r \mu\text{m/mm}$ of radius-r, model Precirond 2000, Rot. Accuracy $0.08 + 0.0005h \mu\text{m/mm}$ of height-h, Max job size. $\Phi 300 \times 450 \text{ mm}$.
4. **Rapid Prototype Centre:** SLS machine, RPT machine suitable for producing, FDM Machine
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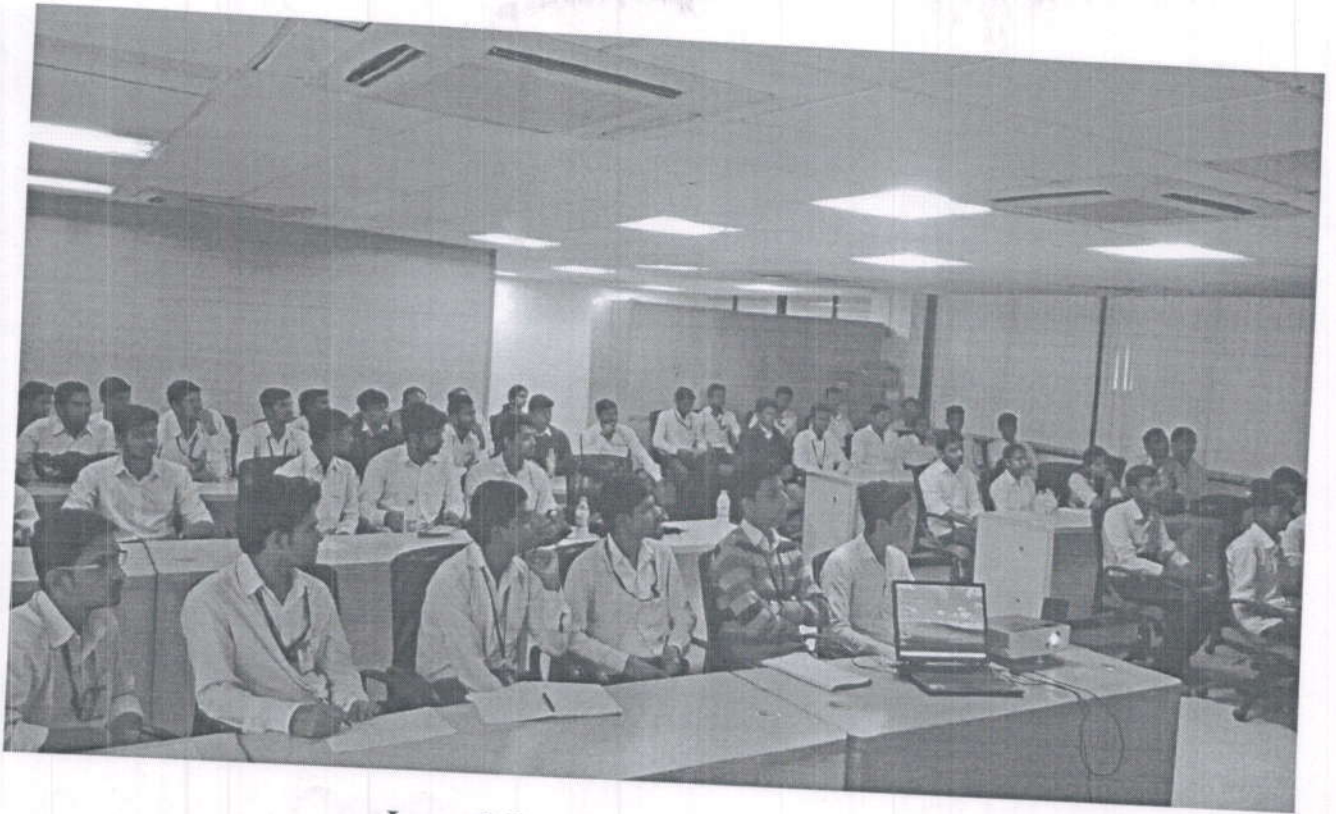


Image 2 Question and Answer session



Image 3 CMM Machine presentation





Image 6 Rapid Prototype Centre



Image 7 Prototype Production Facility Centre





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Image 4 Environment Testing Lab

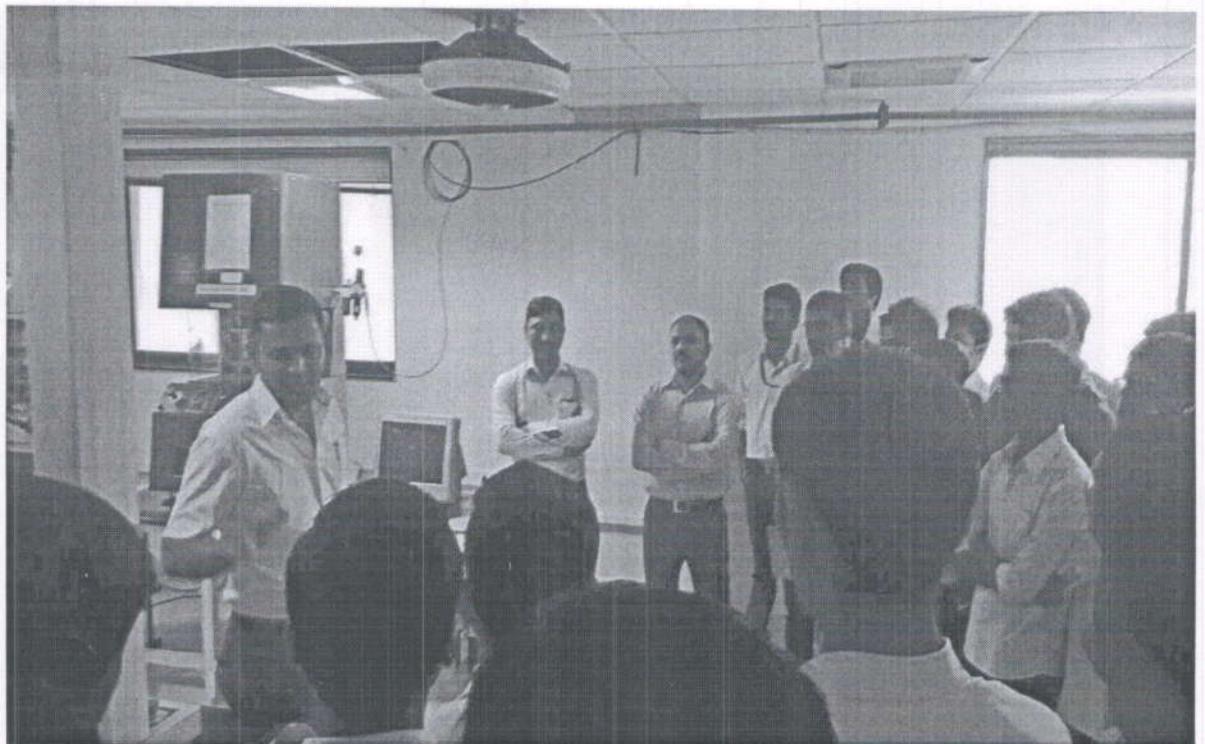


Image 5 Rubber & polymer lab





Image 6 Rapid Prototype Centre

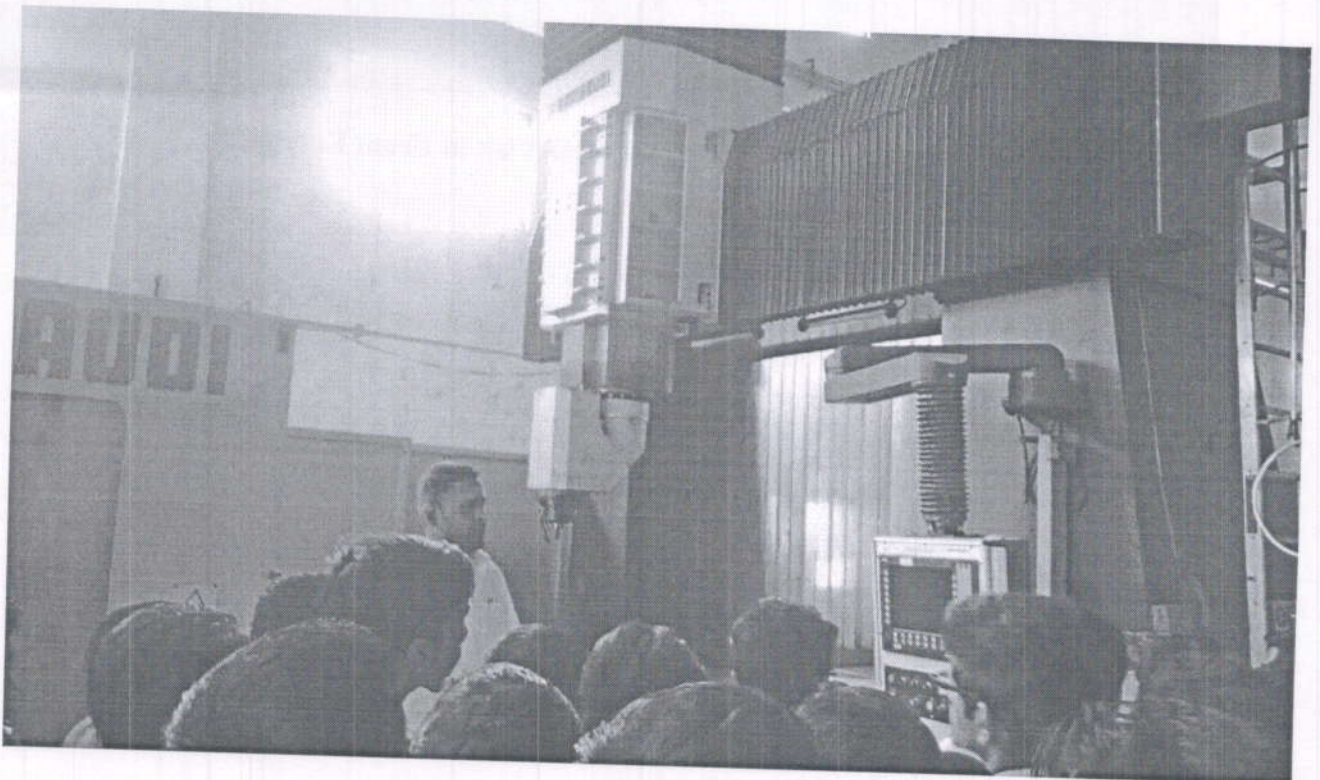


Image 7 Prototype Production Facility Centre



Industrial Visit: SHRI SANT TUKARAM SAHAKARI SAKHAR
KARKHANA LTD

SUBJECT: ENGINEERING THERMODYNAMICS

SE MECHANICAL ENGINEERING

Date of Visit: 17-12-2022

Address: Shri Sant Tukaram Sahakari Sakhar Karkhana Ltd in Mulshi, Pune

Purpose Of Industrial Visits:

Visit to any Process Industry/Plant having Boiler equipped with Accessories.

The visit report consists of

Details about the Industry/Process Plant.

Operational description of the Equipment with specification, its use, capacity, application etc.

Information:

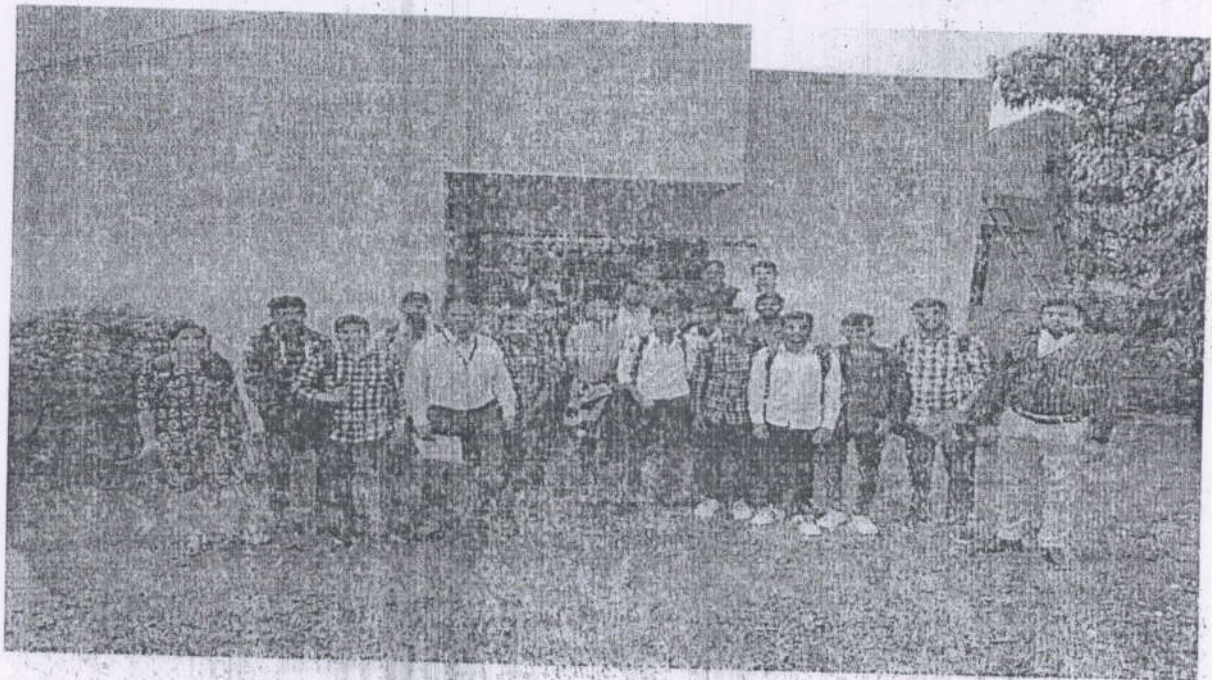
Shri Sant Tukaram Sahakari Sakhar Karkhana Ltd in Mulshi, Pune is known to satisfactorily cater to the demands of its customer base. The business came into existence in 1997 and has, since then, been a known name in its field. It stands located at Survey No 149, Near At Post Kasarsai Darumbri, Tal Mulashi, Mulshi-412108. Near At Post Kasarsai Darumbri, Tal Mulashi is a prominent landmark in the area and this establishment is in close proximity to the same. It has earned 100 reviews and aspires to develop a loyal customer base. It has earned stamps like Jd Verified, Jd Trusted, Jd Escrow substantiating the credentials of the business. The business strives to make for a positive experience through its offerings. The accepted modes of payment such as Cash, Master Card, Visa Card, Debit Cards, Cheques, Credit Card make every business transaction easy and seamless, contributing to making the entire process even more effective.

Customer centricity is at the core of Shri Sant Tukaram Sahakari Sakhar Karkhana Ltd in Mulshi, Pune and it is this belief that has led the business to build long-term relationships. Ensuring a positive customer experience, making available goods and/or services that are of top-notch quality is given prime importance.

India's leading B2B market place, Jd Mart ensures engaging in business activities is a seamless process for small and medium enterprises as well as large businesses. In a wake to enable these businesses to reach their audience, this portal lets them showcase their offerings in terms of the products and/or services through

a digital catalogue. This business has a wide range of product offerings and the product/catalogue list includes Sugar etc.

श्री संत तुकाराम सहकारी साखर कारखाना लि.
कासासाई-दाखरे, पो. कासासाई, ता. मुळशी, जि. पुणे
अतिथी परवाना (कारखाना पाहण्यासाठी) नं.: 4830
नाव Genra Sapanra More Col. Balewadi
पत्ता Balewad Pune
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जबाबदारीवर कारखाना पाहण्यासाठी जात आहोत. त्यासाठी
मान्यता मिळावी
वाहन क्र. : (असल्यास)
बरोबर इत्तम संख्या : 93
दिनांक 17-12-2022
वेळ : 10.15 am
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अतिथी सही
कार्यालयीन अधिकक / सुरक्षा अधिकारी
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Gen. Sapanra More Co. Engg
2, J. Balewadi, Pune 415



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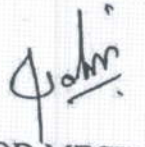
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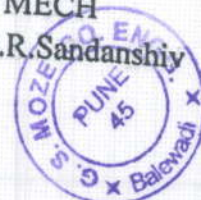
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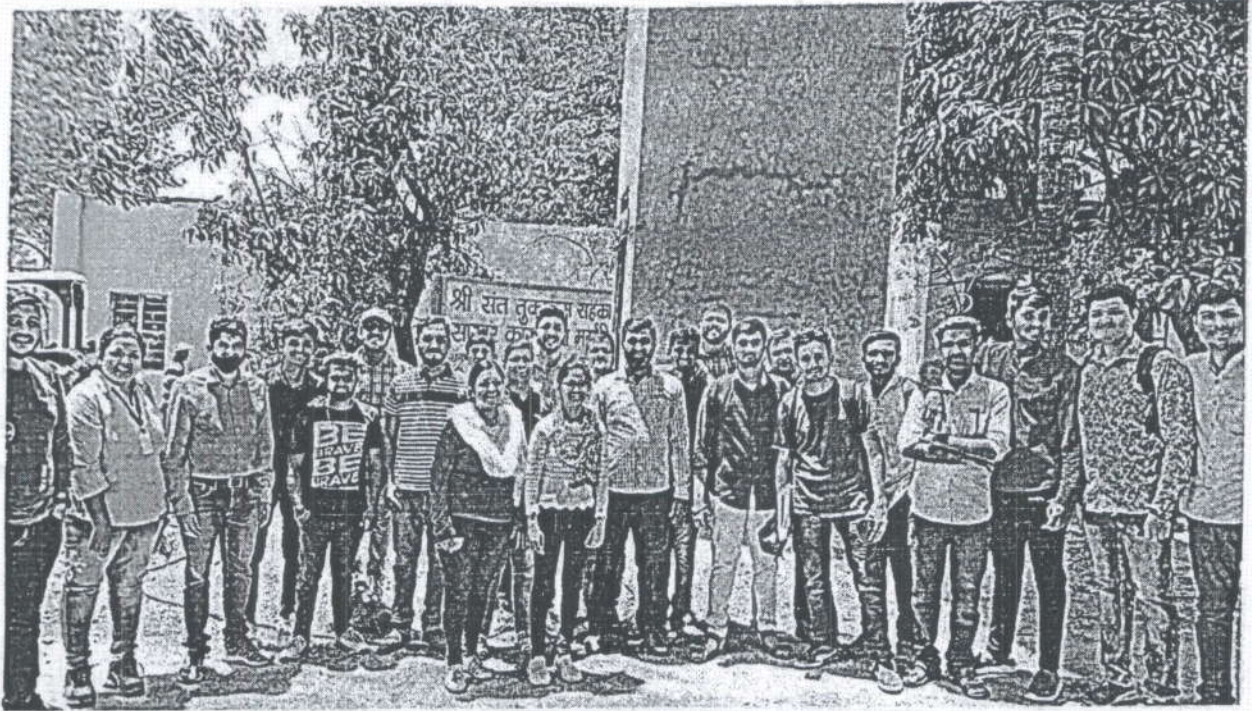




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Note: Visit photos are attached herewith.

During the visit following faculty members were present.

Dr. V.B. Roundal, Prof.S.S. Yadav, Prof.M.J.Sature , Prof. S.R.Sandanshiv

Auto Cluster Development and Research Institute



Image 1 Seminar Hall Presentation





Image 2 Question and Answer session

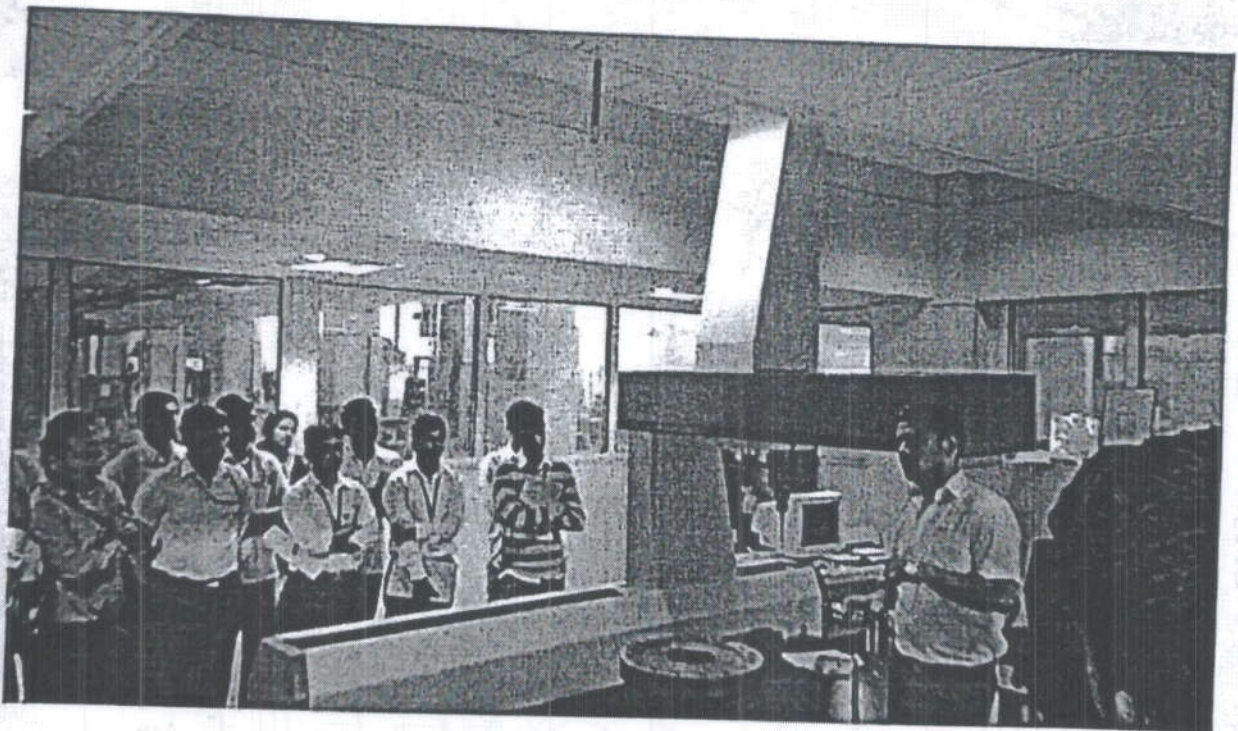


Image 3 CMM Machine presentation



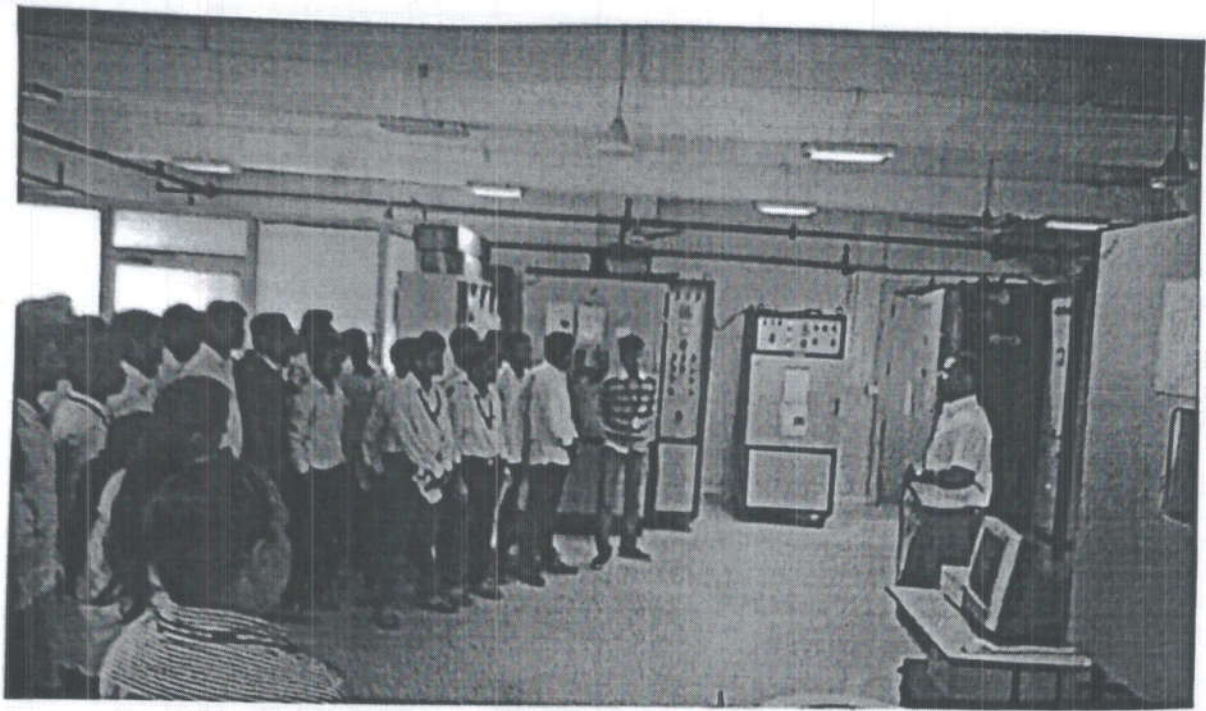


Image 4 Environment Testing Lab



Image 5 Rubber & polymer lab





Image 8 Group Photo After Visit at Front Entrance

V.B. Roundal
Prepared by
Dr. V.B.Roundal

S.R. Sandanshiv
HOD MECH
Prof. S.R.Sandanshiv





“EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE”

GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

S. No. 25/1/3, Balewadi, Pune – 411 045

(Approved by AICTE and Govt. of Maharashtra, Affiliated to SavitribaiPhule Pune University)

DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph: 020-27390500 Website: www.gsmozecoe.org Email: gsmoze@yahoo.co.in

Founder President: Shri RambhauMoze

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

Date: 14/2/2020

To,
The Principal,
Genba Sopanrao Moze College of Engineering,
Balewadi, Pune.

Subject: Industrial visit permission letter.

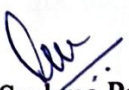
Respected sir,


I am writing this letter on behalf of the Electronics and Telecommunication Department, as the IV coordinator, seeking your permission to conduct an industrial visit FTII, Pune on 18/2/2020, Tuesday. There would be 12 students, including 2 faculty members.


Kindly grant us permission for the industrial visit.

Thanking You,

Yours Sincerely,


Prof. Susama Patwardhan
IV coordinator
(E & TC Department)


14/2/2020
Prof. Jayashri Kawale
HOD
(E & TC Department)


Prof. Jayashri Kawale

Regarding FTII Industrial/Educational Visit

sushma patwardhan <patwardhan.sushma@gmail.com>
To: v_vinodkumar@yahoo.com, admin.officer@ftii.ac.in

Fri, Feb 14, 2020 at 4:5

Respected Sir,

I, Sushma Patwardhan , Asst. Prof. at Genba Sopanrao Moze College of Engineering, Balewadi, Pune thanking you as you granted us permission for educational visit to FTII as a part of the curriculum of final year (BE) E&TC (AVE Subject) on 18/2/2020, Tuesday.

Thanks & Regards

Sushma Patwardhan
Asst. Prof.
GSMCOE- E&TC (9403490260)

Permission for educational visit

1 message

sushma patwardhan <patwardhan.sushma@gmail.com>
To: admin.officer@ftii.ac.in, v_vinodkumar@yahoo.com

Tue, Feb 11, 2020 at 4:31 PM

Respected Sir


I, Sushma Patwardhan, Asst. Prof. at GSMCOE request you to grant permission for educational visit to FTII as a part of the curriculum of final year (BE) E&TC student for Audio and Video Engineering Subject.

I request you, to kindly accord the necessary permission for the above visit and arrange for guiding the students. Please find the detail in the attached letter with the mail.

We shall be grateful for a favorable response. Waiting with Anticipation

Thanks & Regards

Sushma Patwardhan
Asst. Prof.
GSMCOE- E&TC (9403490260)

 **Permission letter for IV.docx**
57K



"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING, BALEWAD Pune - 411 045
(Approved by AICTE and Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University)
Founder President: Shri Rambhau Moze

To

The Director,
Film and Television Institute of India
Law College Road, Pune- 411 004

Sub: Seeking permission for educational visit to FTII.

Dear Sir,

Genba Sopanrao Moze College of Engineering is one of reputed and approved college by All India Council of Technical Education (AICTE), New Delhi and Govt. of Maharashtra and affiliated to the University of Pune. The College offers Bachelor degree course in E&TC, Computer, Civil, Mechanical, and IT.

As a part of the curriculum of final year E&TC student industrial visit is mandatory for Audio and Video Engineering Subject, so to provide them with the real insight of audio and video working procedure in FTII and to fulfil the curriculum demand, we request you the FTII visit.

In the above background, we would like to send a batch of about 20 students of BE Electronics and Telecommunication accompanied by 2 staff members to visit your esteemed Institute either in Forenoon or Afternoon session as per your convenience as on any dates 14th Feb or 22th Feb 2020.

I request you, to kindly accord the necessary permission for the above visit and arrange for guiding the students. We assure you that our students will observe the rules and regulations that are prescribed by FTII for the visitors and will in no way disturb the functioning of the institute during their visit. We shall be grateful for a favorable response. Waiting with Anticipation.

Thanking You,

Yours faithfully,
Mrs. Sushma Patwardhan
Assistant Prof., GSMCOE
9403490260

GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

Electronics & Telecommunication Department

Industrial Visit – FTII ,Pune

Date:18/2/2020

Time :10:30 am onwards

Attendance Record

Sr. No.	Name of Student	Sign
1	Vishal surse	Nishal ✓
2	Archana Garali	AG
3	Namrata Adsure	Anzei
4	Amol Bhogem.	AB
5	Azhar. Shaikh	Azhar ✓
6	Nikhil Jagtap	NJagtap ✓
7	Shubham Angale	Sujal ✓
8	Pooja Patil	Patil ✓
9	Shikha Singh	Shikha ✓
10	Sneha Jadhav	Sneha ✓
11	Rushikesh Pawar	Rushikesh ✓
12		
13		

Pr. 3300/—

Prof.Sushma Patwardhan

Subject Faculty

Prof.Jayashri Kawale

HOD E&TC

GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

Electronics & Telecommunication Department

Industrial Visit – FTII ,Pune
Time :10:30 am onwards

Date:18/2/2020

Attendance Record

Roll No.	Name of Student	Sign
1	ADSURE NAMRATA	
2	BHOGAN AMOL	
3	DESAI DHAIRYDESAI	
4	INGALE SHUBHAM	
5	GAVALI ARCHANA	
6	JADHAV SHEHA	
7	JAGTAP NIKHIL	
8	PATIL POOJA	
9	PAWAR RUSHIKESH	
10	ROKDE PRATIK	
11	SHAIKH AZHAR	
12	SINGH SHIKHA	
13	SURSE VISHAL	
14	THOOL AKASH	
15	SHINTRE VAIBHAV	
16	SABLE DIPALI	
17	BHAGAT SIDDHARTH	
18	AMIT JADHAV	

Prof.Sushma Patwardhan
Subject Faculty

Prof.Jayashri Kawale
HOD E&TC

Date: 20/2/2020

Submitted,

Subject: Report on **Film and Television Institute of India** was held on 18th February, 2020

As a part of curriculum, the department of E&TC has organized industrial visit of BE students to **Film and Television Institute of India** on 18th February, 2020.


11 students and 2 staff members of E&TC department, GSMCOE visited the FTII, located in Pune city. Main motto of visiting industry is to know Audio Video section of FTII.

Students were guided by Mr. Omkar specialize from production dept. Students were first shown the Editing section where video tape recording with sound and without sound of different sizes were shown. Also devices used for editing video tapes were explained and shown to students

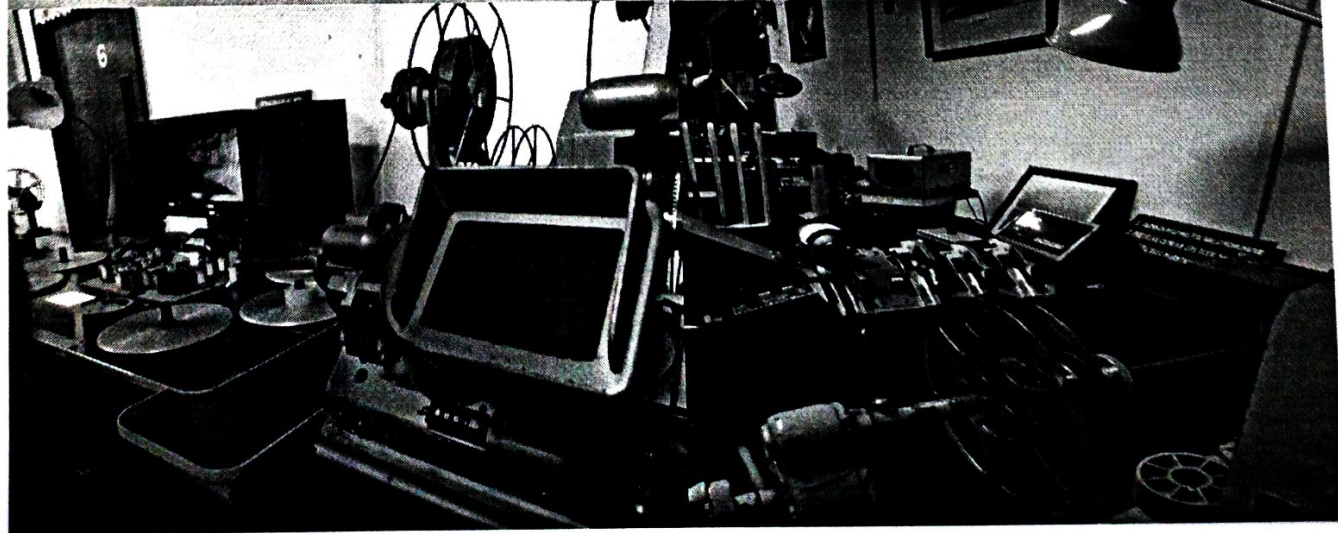
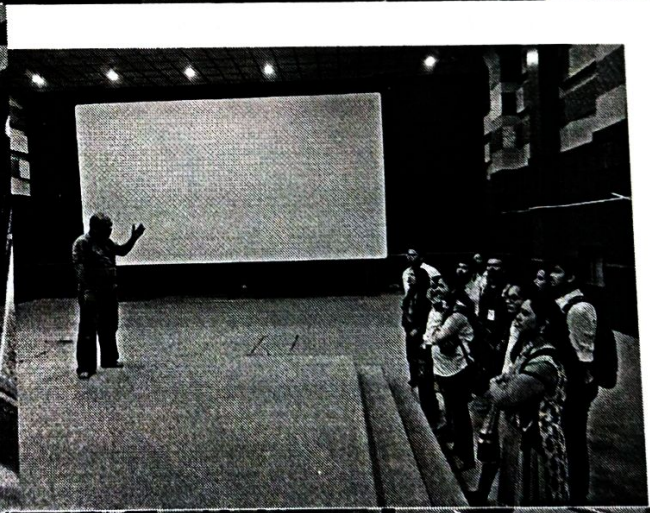
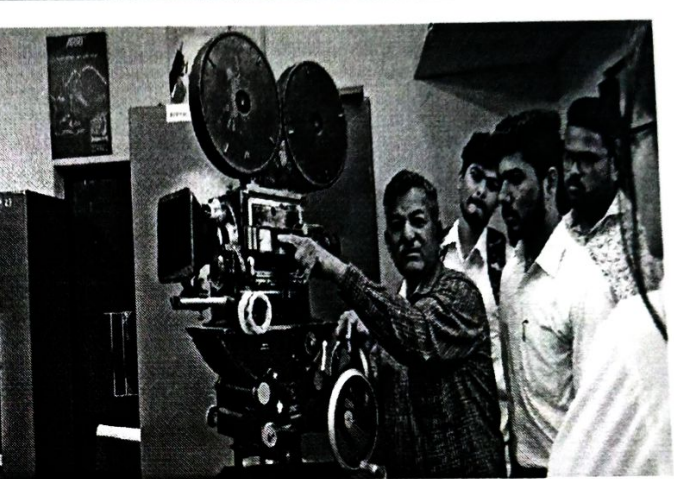
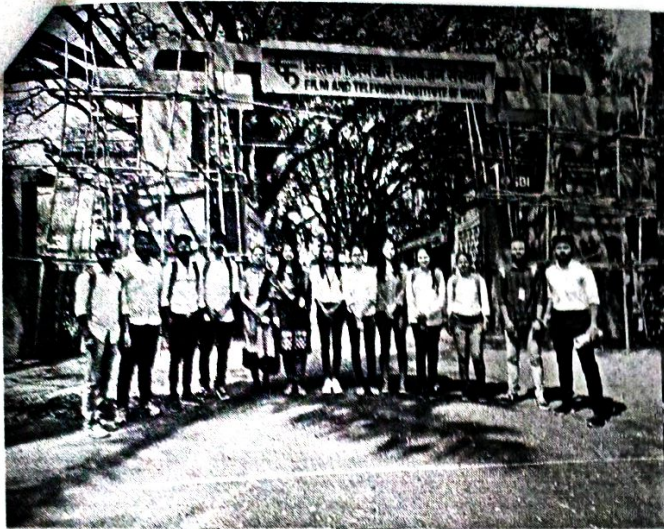
The next segment was the Recording section where recording through different cameras and light from different angles were shown. Also PCR and MCR were shown where frequency mixer, amplifier were explained.

Selection of proper picture (Live or recorded) before broadcasting, adding of caption along with video and sound, power supply unit, production control room, audio console and VTR were shown.

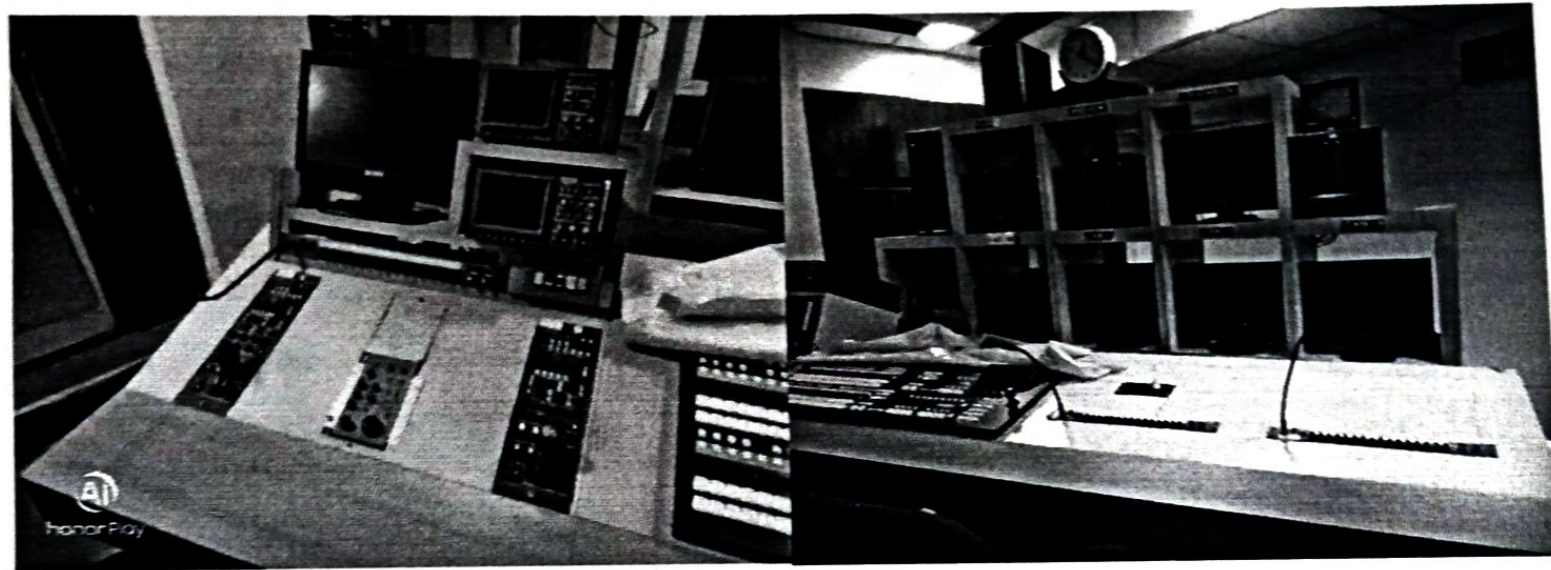
At last sound section was introduce were actual size theatre screen, ATMOS system (7:1) and Dolby (5:1) sound system were shown. The theatre from surface to top roof and walls were acoustically designed so that quality of the speech and the music remains unchanged in each and every portion of the Hall. Also visited Prabhat Museum .


Prof. Sushma Patwardhan
Industrial Visit Coordinator

Prof Jayashri Patil
H.O.D. E &TC.



"GSMC



Date: 19/7/2019

To,
The Principal,
Genba Sopanrao Moze College of Engineering,
Balewadi, Pune.

Subject: Industrial visit permission letter.


Respected sir,


I am writing this letter on behalf of the Electronics and Telecommunication Department, as the IV coordinator, seeking your permission to conduct an industrial visit Mapro Foods Pvt.Ltd, Mahabaleshwar on 24/7/2019, Wednesday. There would be 22 students, including 2 faculty members.

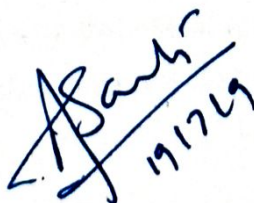
Kindly grant us permission for the industrial visit.

Thanking You,

Yours Sincerely,


19/7/2019
Prof. Bhoomi Patil
IV coordinator
(E &TC Department)


Prof. Jayashri Kawale
HOD
(E &TC Department)


19/7/19

Genba Sopanrao Moze college of Engineering
25/1/3, Balewadi, Haveli, Pune- 411 045.
Industrial visit to Mapro food Private LTD. Mahabaleshwar
(2019-2020)

Department of Electronics & Telecommunication Engineering

6 AM Date:24/7/19

SL.NO.	Student name	Student mbl no.	Parants mbl. No.	sign	T P M (return)
1	Ashish Shetti	8329311627	9921659569	<i>[Signature]</i>	<i>[Signature]</i>
2	Dnyaneshwar Shinde	9503232511	9420413081	<i>[Signature]</i>	<i>[Signature]</i>
3	Archana Ramesh	8956158306	9730488306	<i>[Signature]</i>	<i>[Signature]</i>
4	Priti Yadhav	9326397702	9930782227	<i>[Signature]</i>	<i>[Signature]</i>
5	Vidyavati Metry	7219027281	9402356638	<i>[Signature]</i>	<i>[Signature]</i>
6	Hiral Parmar	9689887983	9960153855	<i>[Signature]</i>	<i>[Signature]</i>
7	Sushma Munde	8888093604	9028902890	<i>[Signature]</i>	<i>[Signature]</i>
8	Manisha Boyanale	9620921029	8668385082	<i>[Signature]</i>	<i>[Signature]</i>
9	Amol Bhogan	8275483434	9420009168	<i>[Signature]</i>	<i>[Signature]</i>
10	Sneha Jadhav	9834856838	9405466249	<i>[Signature]</i>	<i>[Signature]</i>
11	Pooja Patil	8669774280	9049841456	<i>[Signature]</i>	<i>[Signature]</i>
12	Rushikesh Pawar	8149335108	8830773292	<i>[Signature]</i>	<i>[Signature]</i>
13	Shikha Singh	9075483631	8999188846	<i>[Signature]</i>	<i>[Signature]</i>
14	Omkar Sutar	7588461389	9423987020	<i>[Signature]</i>	<i>[Signature]</i>
15	Prachita Hasabe	9689994255	9112464345	<i>[Signature]</i>	<i>[Signature]</i>
16	Vishal Surse	7028840621	9145471478	<i>[Signature]</i>	<i>[Signature]</i>
17	Archana Gavali	8208948602	7028840621	<i>[Signature]</i>	<i>[Signature]</i>

Prof. Bhoomi Patel
 Prof. Harshadata Mahajan
 Prof. Sushma Patwardhan

— Bhaamni
 — HM 24/7/19
 — 24/7/19



Genaba Sopanarao Moze college of Engineering,

Balewadi, Pune- 411 045

Department of Electronics & Telecommunication Engineering

Report On Industrial Visit

To

**Mapro Foods Pvt. Ltd (Mahabaleshwar)
(2019-2020)**

Date: 25/7/19

After receiving the permission from Mapro Foods Pvt. Ltd, 17 students with 3 faculty members (Prof. Bhoomi Patil, Prof. Harshalata Mahajan, and Prof. Sushma Parwardhan) went on an industrial visit to the Mapro Foods Pvt. Ltd on 24-07-2019.

We all assembled at the college at 6.00 a.m. and left the college at 6.30am (in a Bus). We reached the company at 9.30am. Human Resource Manager received us at the entrance and gave a brief introduction for their other departments. The visit came to an end at 01.00a.m.

We left the company premises at 01.30 a.m. It was an informative, interesting and a successful visit. For the students of Electronics & Telecommunication, it was opportunity to observe practically the overall procedure of their subject areas. We express our thanks to the Principal and HOD who permitted us for organizing the visit and officials who explained the various departments.

After the introduction of company the official gave us the additional information about company history and background as well as about promoters. We have got all the information about the products of the company.

Overview:-

Located around the idyllic hill-town of Panchgani in Western India, Mapro Foods manufactures Fruit Jams; Fruit beverage concentrates – Crushes and Squashes; and Fruit Bars. With an annual processing capacity of around 30 thousand MT, Mapro is a market leader in Western India. The company has grown organically over the last five decades with sustained profitability. Known for its quality and innovation, Mapro has been built on its founder's philosophy of developing products that are wholesome, nutritious, value-for-money, and imaginative.

A range of nutritive, lip-smacking products:-

Mapro's portfolio of products provides a high quotient of natural fruit in the form of Jams, Fruit bars and chews, Syrups, Crushes, Squashes, and Dessert Toppings. Its range of premium products such as Thandai crush and Kesar syrup are made from the finest selection of exotic ingredients. Mapro's products are known for their wholesome taste and quality, as also their natural goodness and nutritive value.

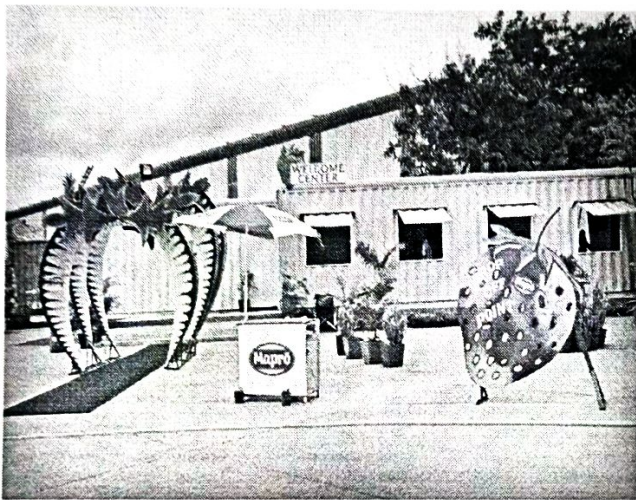
Mapro was the pioneer of fruit-based confectionery in India, with its first jelly sweets being made from fruit juices and liquid glucose. The 'Falero' pulpy fruit chews, which are better known as 'pates de Fruit' in the rest

of the world – are excellent exemplars of Mapro's very own Innovation Labs. Faleros come in unique indigenous flavours that are suited to the Indian palate, like Kacchi Kairi (Raw Mango), Alphonso Mango and Strawberry.

Export:-Markets Mapro are currently prevalent in the following countries: • Fiji • Mauritius • Oman • Russia • UAE • Uganda • USA

Products Range of products available for exports in different variants. Jams, Crushes, Squashes, Syrups, Toppings, Falero, Fruit Cube, Ready To Drink Etc.

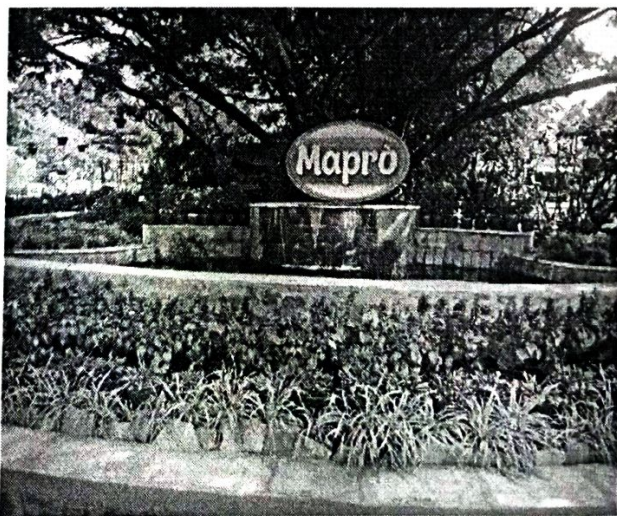
After leaving from industry we also explored nearby famous points of Mahableswar.



Mapro Food Pvt. Ltd., entry gate



Mapro Food Pvt. Ltd., Entrance



Mapro Food Pvt. Ltd., Premises



Mapro Food Pvt. Ltd., Premises



Group Photo with the Guide of Mapro Food Pvt. Ltd.

Bhoomi
25/7/2019
Prof. Bhoomi Patil
IV coordinator, (E & TC)

J. Kawale
25/7/19
Prof. Jayashri Kawale
HOD (E & TC)

IV - mapro Food Pvt Lmt. Mahabaleshwar

S.No.	Roll NO	Student Name	Parent mob No:	Students mob no	paid Rs.	Sign
1.	11	Rushikesh Pawar	8830773292	8149333108	680	(Signature)
2.		Nishal Surse	9145471478	7028840624	680	(Signature)
3.	14	Omkar Sutar	9423987020	9156364466		
4.	04	Amol Bhogun		8275483434	680	(Signature)
5.	10	Pooja Patil	9049841456	8669774280	680	
6.	05	Prachita Hasabe		89689994255		
7.	13	Shikha Singh	8999188846	9075483631	680	(Signature)
8.	08	Sneha Tadhar	9405466249	7588340610	680	(Signature)
9.	02	Archana Govali		8208948602	680	(Signature)

(7) ⇒ 4,760

6,770

4,800

11,560

470 - Trav

100 - Entry

570 - Net

9,690 Net

1,870 Remaining for Toll of entry etc.

PS=45 / - per Student :- Returned after IV.

Genba Sopanrao Moze college of Engineering
25/1/3, Balewadi, Haveli, Pune- 411 045.
Industrial visit to Mapro food Private LTD. Mahabaleshwar
(2019-2020)

Department of Electronics & Telecommunication Engineering

6 AM Date:24/7/19

SL.NO.	Student name	Student mbl no.	Parants mbl. No.	sign	T.P.M (return)
1	Ashish Shetti	8329311627	9921659569		
2	Dnyaneshwar Shinde	9503232511	9420413081		
3	Archana Ramesh	8956158306	9730488306		
4	Priti Yadhav	9326397702	9930782227		
5	Vidyavati Metry	7219027281	9402356638		
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7	Sushma Munde	8888093604	9028902890		
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14	Omkar Sutar	7588461389	9423987020		
15	Prachita Hasabe	9689994255	9112464345		
16	Vishal Surse	7028840621	9145471478		
17	Archana Gavali	8208948602	7028840621		

Prof. Bhoomi Patil
 Prof. Harshadata Mahajan
 Prof. Sushma Patvardhan

— Bhoomi
 24/7/19
 — Harshadata
 24/7/19
 — Sushma
 24/7/19

Notice to students: Thuse Electronics P. Ltd.

Date: - 27/9/19

We can grant you permission under following conditions.

We are allowing factory visit as a goodwill gesture in order to have some look-n-feel for the students and faculties. **This is why so far we are not charging for the visit and the same is allowed at free of cost.** Our past experience about behaviors of some students is not good. Utmost care should be taken by the faculties to maintain the decorum more particularly mentioned in point number 5 below.

1. You will not bring more than 30 students per batch. If the count is more, bring them in two batches.
2. Please Come with at least 4 faculties. One of our staff member would take those 4 faculties around our factory and explain the processes. After that, those 4 faculties should lead a batch of not more than 8 students and further explain all those processes to your students. Each of the faculty to lead their team simultaneously starting with different floor so as to avoid crowd on at any point of time on any floor.
3. Factory is spread over four floors. Students should wear their footwear on staircases till the entry point of each floor. Once they enter the floor, they should remove the footwear outside. **Not supposed to use staircase barefoot leaving behind the footwear at the ground floor.**
4. Industrial visit to be arranged by the risk and cost of the college. Our company in no manner shall be held responsible for any kind of consequences if at all there's any kind of mishap etc either within the factory or outside the factory. Safety and security of the faculties and the students is their sole responsibility.
5. We are allowing factory visit as a goodwill gesture in order to have some look-n-feel for the students and faculties. This is why so far we are not charging for the visit and the same is allowed at free of cost. Our past experience about behaviours of the students is not good. It's experienced that they behave like as if they have come for some picnic. Students should behave properly in all manner and maintain the decorum. They should not contribute any noise or disturbances in the peaceful operations of our factory. If found so, the management reserves the right to terminate the visit process and may ask them to leave the factory premises. **So in order to avoid such unpleasant actions, please ask your students to abide to the rules and decorum.**

Trust you agree on above points and be a part of industrial revolution in our country.

With best regards,

Milind Thuse
Managing Director

Thuse Elektronik P. Ltd.

Plot # 33A, Sector-7, PCNTDA, Bhosari, Pune 411026. Tel. +91-20-67333413,
Mob: +91-98220 24928 * www.thuse.net CIN :- U51909PN1996PTC096132
GSTIN : 27AAACT6285F1Z6

SINCE 1989



"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

S. No. 25/1/3, Balewadi, Pune - 411 045

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Ph. 020-27390500 Website www.gsmozecoe.org Email gsmoze@yahoo.co.in

Founder President **Shri Rambhau Moze**

Ref. No. GSM/COE/2019/Sept/267

Date 23/9/2019

To,
The Managing Director .
Thuse Electronics P. Ltd,
Bhosari, Pune.

Respected sir,

I am IV Coordinator of the E & TC Department, G. S. Moze College of Engineering; on behalf of our department thanking you, for allowing us for industrial visit in your company on 28/9/2019.

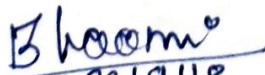
We assures you that,

1. We will not bring more than 20 students per batch.
2. We will come with at least 2 faculties.
3. Students will obey all the rules regarding footwear.
4. Industrial visit is arranged by the risk and cost of the college.
5. Students will not disturb the functioning of the company during their visit.
6. Students will obey all the rules and regulations that are prescribed by your company for the visitors


We have agreed on above points and we will be a part of industrial revolution in our country.

Thanking You,

Yours sincerely


Prof. Bhoomi Patil
23/9/18

IV coordinator, E & TC Department
GS Moze COE, Balewadi, Pune


Prof. Jayashri Kawale
23/9/2019
HOD (E & TC)

GS Moze COE, Balewadi, Pune
Head of the Department
Electronics & Telecommunication Engg.
Genba Sopanrao Moze College of Engg.
Balewadi, Pune - 411 045



"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

S. No. 25/1/3, Balewadi, Pune - 411 045

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DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph. 020-27390500 Website www.gsmozecoe.org Email gsmoze@yahoo.co.in

Founder President Shri Rambhau Moze

Ref. No. GSM/COE/2019/Sept/267

Date 23/9/2019

To,
The Managing Director .
Thuse Electronics P. Ltd,
Bhosari, Pune.

Respected sir,

I am IV Coordinator of the E & TC Department, G. S. Moze College of Engineering; on behalf of our department thanking you, for allowing us for industrial visit in your company on 28/9/2019.

We assures you that,

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3. Students will obey all the rules regarding footwear.
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5. Students will not disturb the functioning of the company during their visit.
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We have agreed on above points and we will be a part of industrial revolution in our country.

Thanking You,

Yours sincerely

Bhoomi Patil

Prof. Bhoomi Patil

IV coordinator, E & TC Department
GS Moze COE, Balewadi, Pune

Jayashri Kawale
23/9/2019
Prof. Jayashri Kawale
HOD (E & TC)

GS Moze COE, Balewadi, Pune
Head of the Department
Electronics & Telecommunication Engg.
Genba Sopanrao Moze College of Engg.
Balewadi, Pune - 411 045

Date: 18/9/2019

To,
The Principal,
Genba Sopanrao Moze College of Engineering,
Balewadi, Pune.

Subject: Industrial visit permission letter.

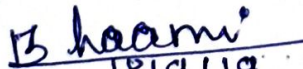
Respected sir,


I am writing this letter on behalf of the Electronics and Telecommunication Department, as the IV coordinator, seeking your permission to conduct an industrial visit to Thuse Electronics P. Ltd, Bhosari, Pune on 28/9/2019, Saturday. There would be 30 students, including 3 faculty members.

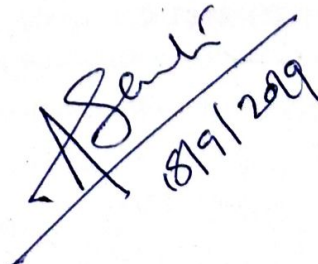
Kindly grant us permission for the industrial visit.

Thanking You,

Yours Sincerely,


18/9/19
Prof. Bhoomi Patil
IV coordinator
(E&TC Department)


18/9/2019
Prof. Jayashri Kawale
HOD
(E&TC Department)


18/9/2019



GenabaSopanaraoMoze college of Engineering, Balewadi, Pune- 411 045

**Report On Industrial Visit
To
Thuse Elektronik P. Ltd.
(2019-2020)
Department of Electronics & Telecommunication Engineering**

Date: 28/9/19

After receiving the permission from **Thuse Elektronik P. Ltd**, 17 students with 2 faculty members (Prof. Jayashri Kawale & Prof. Bhoomi Patil) went on an industrial visit on 28-09-2019.

We all assembled at the **Thuse Elektronik P. Ltd** at 2.00p.m. We left the company premises at 05:30p.m. It was an informative, interesting and a successful visit. For the students of Electronics & Telecommunication, it was opportunity to observe practically the overall procedure of their subject areas. We express our thanks to the Principal and HOD who permitted us for organizing the visit and officials who explained the various departments.

After the introduction of company the official gave us the additional information about company history and background as well as about promoters. We have got all the information about the products of the company.

Overview:-

PCB Assembly & Contract Manufacturing

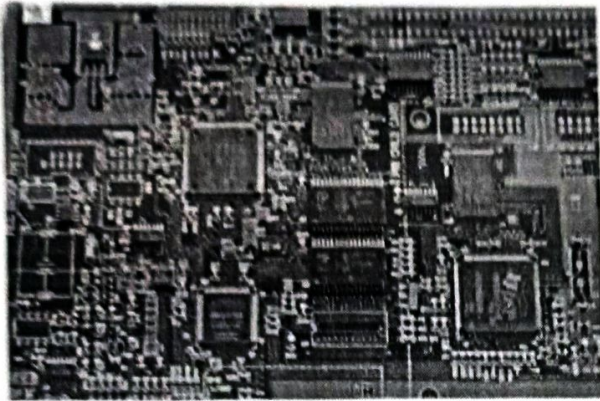
Company provides wide range of support from PCB Assembly, Electronic Sub Assemblies at State-of-the-Art Electronic Manufacturing facility. It offer PCB Assembly on Turnkey or Job Work basis by considering various factors in Electronics Manufacturing Services, which may have to sync with the changing trends in technology, applying the latest methods of manufacturing, using the latest components and keeping up with greater complexities in design.

Electronic Product Design & Manufacturing

Company provides Turnkey End-to-End box built solutions in the field of manufacturing. From design to Mass production in various verticals viz. Power Electronics, Embedded controllers, Home Appliances – White Goods Electronics, LED Drivers, LED Lamps, Solar Energy, Industrial Electronics Controllers, OEM / ODM Electronics Manufacturing at the reasonable price & high-quality standards by strategic optimizations at every stage including material procurement and distribution routes at global levels.

Companies Own Products

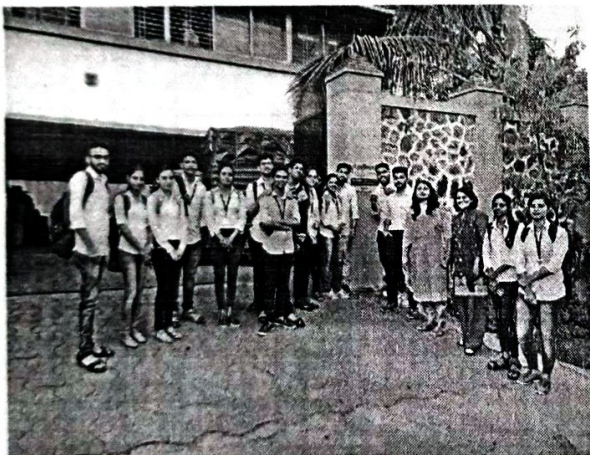
Company also offer indigenous stand-alone products viz. Astronomical Street Light Timers, School Bell Timers, Multi-Event Timers, LED Street Lights, LED Tube Lights, LED Drivers, Over under Voltage Protection Units (Smart Plug 6 Amp and 16 Amp).



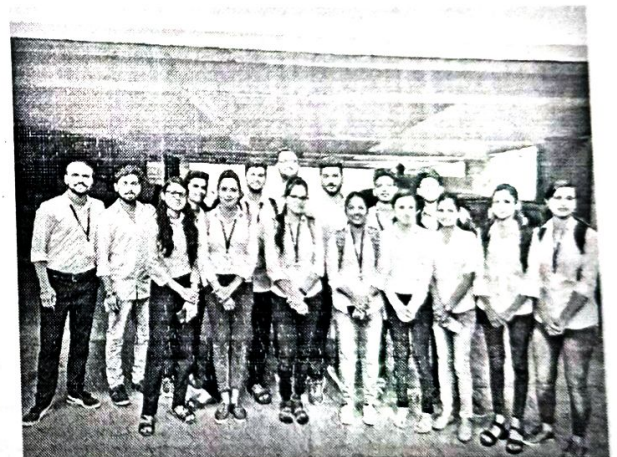
Assembly



PCB Assembly Process Unit




Group Photo



Group Photo

Bhoomi
30/9/19
Prof. Bhoomi Patil
IV coordinator, (E &TC)


Prof. Jayashri Kawale
HOD(E & TC)

Genba Sopanrao Moze college of Engineering
25/1/3, Balewadi, Haveli, Pune- 411 045.
Industrial visit to Thuse Elektronik P. Ltd, Bhosari, Pune.
(2019-2020)

Department of Electronics & Telecommunication Engineering

Date: 28/9/2019

SR.NO.	Student name	Year	Student mbl. no.	Parent's mbl. No.	sign
1	Shintre Veibhav C.	B.E	8087808220	9428534441	<i>Shintre</i>
2	Azhar Shaikh.	BE	8421261247	9850867788	<i>Azhar</i>
3	Vishal G. Sure	BE	7028840624	9165471470	<i>Vishal</i>
4	Shubham Jagtap	BE	791052418	9800035312	<i>Jagtap</i>
5	Nikhil Jagtap	BE	8237272027	9604361883	<i>Nikhil</i>
6	Archana Ramesh	SE	8956158306	9780488306	<i>Archana</i>
7	Ashish Shetty	SE	832931621	9565244101	<i>Ashish</i>
8	Archana Gavali	BE	8793593103	9011076818	<i>Archana</i>
9	Amol Bhagan	BE	8285483434	9420009168	<i>Bhagan</i>
10	Pooja A patil	BE	8669774280	9049841456	<i>Pooja</i>
11	Deepali G. Sable	BE	9359058206	842104992	<i>Sable</i>
12	Hiral Parmar	TE	9689887983	9960153855	<i>Hiral</i>
13	Dnyaneshwar P. Shinde	SE	9503232511	9420413081	<i>Shinde</i>
14	Sneha S Jadhav	BE	7588340610	9834856838	<i>Sneha</i>
15	Shikha Singh	BE	9075483631	7376343887	<i>Shikha</i>
16	Rushikesh Pawar	BE	8830773292	8149335108	<i>Pawar</i>
17	Munde Sushmei	TE	8888093604	9393941212	<i>Munde</i>
18					
19					
20					
21					
22					
23					
24					
25					

Date: 14/2/2020

To,
The Principal,
Genba Sopanrao Moze College of Engineering,
Balewadi, Pune.

Subject: Industrial visit permission letter.


Respected sir,


I am writing this letter on behalf of the Electronics and Telecommunication Department, as the IV coordinator, seeking your permission to conduct an industrial visit GMRT, Narayangaon on 29/2/2020, Friday. There would be 22 students, including 4 faculty members.

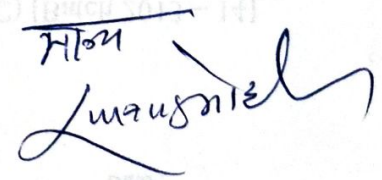
Kindly grant us permission for the industrial visit.

Thanking You,

Yours Sincerely,


Prof. Sushma Patwardhan
IV coordinator
(E & TC Department)


14/2/2020
Prof. Jayashri Kawale
HOD
(E & TC Department)





GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

Gmail

sushma patwardhan <patwardhan.sushma@gmail.com>

Permission for Industrial visit to GMRT on 29 Feb 2020

1 message

sushma patwardhan <patwardhan.sushma@gmail.com>

To: dimcra@ncra.tifr.res.in, nsd@gmrt.ncra.tifr.res.in, www@gmrt.ncra.tifr.res.in

Fri, Feb 14, 2020 at 4:39 PM

Respected Sir,

I, Sushma Patwardhan on behalf of ENTIC Genba Sopanrao Moze College of Engineering, Balewadi, Pune request you to grant the permission for industrial visit to GMRT on 29/2/2020 . We know that on 29/2/2020 is science Day and GMRT is Open to all but according to our collage protocol kindly grant us permission for the Industrial visit. There would be 22 students including 4 faculty members.

Thanking you

Thanks and Regards

Prof. Sushma Patwardhan

IV- Coordinator (E&TC Dept)

GSMCOE, Pune

Permission for Industrial visit to GMRT on 28 Feb 2020

sushma patwardhan <patwardhan.sushma@gmail.com>
To: dimcra@ncra.tifr.res.in, nsd@gmrt.ncra.tifr.res.in, www@gmrt.ncra.tifr.res.in

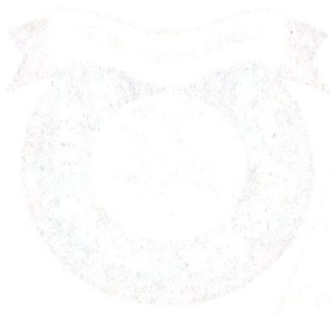
Fri, Feb 14, 2020 at 2:56 PM

Respected Sir,

I, Sushma Patwardhan on behalf of ENTC GSMCOE, Balewadi, Pune request you to grant the permission for industrial visit to GMRT on 28/2/2020 . We know that on 28/2/2020 is science Day and GMRT is Open to all but according to our collage protocol kindly grant us permission for the Industrial visit. There would be 22 students including 4 faculty members.

Thanking you

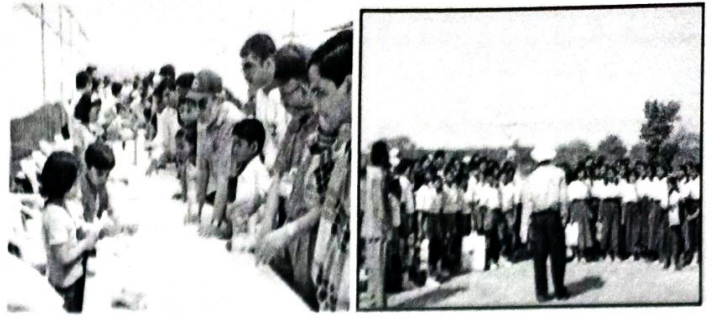
Thanks and Regards
Prof. Sushma Patwardhan
IV- Coordinator (E&TC Dept)
GSMCOE, Pune





SCIENCE DAY-2020

(28th February and 29th February
2020)



(Time: 9.30am to 5.00 pm)

Venue : GMRT Observatory, Khodad

- [GMRT Home](#)

February 28th is celebrated as National Science Day all over the country, commemorating the discovery of the Raman Effect by C.V. Raman, for which he was awarded the Nobel Prize in Physics in 1930.

Each year, Science Day is celebrated at the Giant Metrewave Radio Telescope (GMRT) observatory at Khodad. The GMRT, which is the world's most powerful telescope operating at low radio frequencies, was built and is being operated by the National Centre for Radio Astrophysics (NCRA) of the Tata Institute of Fundamental Research (TIFR). Although the prime activity at NCRA and GMRT is to carry out frontline research in radio astronomy and astrophysics, and develop state-of-the-art instrumentation for this purpose, NCRA and GMRT observatory also have programmes to popularise science and technology among the general public, especially the student community.

The Science Day celebrations comprise a major component of our outreach programmes. Science Day events are usually spread over two days starting 28th of February, in order to cater to the tremendous response from the general public, especially the students from the schools and colleges in the rural and semi-urban areas and districts in the western Maharashtra, especially those near the GMRT observatory. It is perhaps one of the largest Science Day events in rural India, with about a hundred schools, colleges and institutions participating, and over 25000 people visiting the observatory every year during the two-day event.

The programme consists of a grand Science Exhibition, where children from the schools and colleges exhibit their science projects, and prizes are given for the best entries in different age groups. In addition, there are exhibitions illustrating astronomical themes and concepts, exciting results obtained with the GMRT, various subsystems of GMRT and illustrative models. There are also exhibits and live demonstrations from various research institutes and science popularisation groups, as well as teaching institutions such as the University of Pune and various national laboratories. There are also programmes to interact with well-known scientists and engineers and film shows on astronomical topics of current interest.

The GMRT and the science exhibition will be open to the public from 9.30 a.m. to 5.00 p.m. on 28th February and 29th February 2020.

- [Home](#)

- [Schedule](#)

- [Invitation](#)

IV - GMRT

Student List

SE

- ✓ ① Ashish Shetty
- ✓ ② Archana Ramesh
- ✓ ③ Dnyaneshwar Shinde
- ✓ ④ Priti Yadav
- ⑤ ~~Durgesh Nikam~~
- ✓ ⑥ Prashant Bajad
- ✓ ⑦ Poonam Hajare
- ⑧ ~~Sayli Gaikwad~~

B.E.

- ✓ ① Sneha Jadhav
- ✓ ② Pooja Patil
- ✓ ③ Swikha Singh
- ✓ ④ Archana Gavali
- ⑤ Amol Bhogon
- ✓ ⑥ Azhar Shaikh
- ✓ ⑦ Shubham Ingale
- ✓ ⑧ Vishal Suose
- ✓ ⑨ Nikhil Jagtap
- ✓ ⑩ Vaibhav Shintre
- ✓ ⑪ ~~Rishi~~ Ruslikesh Pawar
- ✓ ⑫ Akash Thool

BE - 10

SE - 6

faculties - 4

} 20 Total.

"Excellence – Electronics for Industrial and Global Needs"



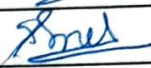

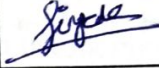



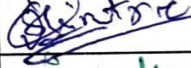
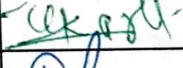




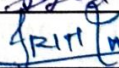
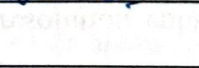
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING





Electronics & Telecommunication Department

Industrial Visit – GMRT, Khodad

Date: 29/2/2020

Attendance Record

Sr. No.	Name of Student	Class	Sign
1	SHIKHA SINGH	BE(E&TC)	
2	POOJA PATIL	BE(E&TC)	
3	SNEHA JADHAV	BE(E&TC)	
4	RUSHIKESH PAWAR	BE(E&TC)	
5	SHUBHAM INGALE	BE(E&TC)	
6	VISHAL SURSE	BE(E&TC)	
7	AZHAR SHAIKH	BE(E&TC)	
8	NIKHIL JAGTAP	BE(E&TC)	
9	VAIBHAV SHINTRE	BE(E&TC)	
10	AKASH THOOL	BE(E&TC)	
11	POONAM HAJARE	SE(E&TC)	
12	ASHISH SHETTY	SE(E&TC)	
13	ARCHANA RAMESH	SE(E&TC)	
14	DNYANESHWAR SHINDE	SE(E&TC)	
15	PRASHANT BAJAD	SE(E&TC)	
16	PRITI YADAV	SE(E&TC)	

Sr. No.	Name of Staff	Sign
1	PROF. JAYASHRI KAWALE	
2	PROF. SUSHMA PATWARDHAN	
3	PROF. BHOOMI PATIL	
4	PROF. HARSHALATA MAHAJAN	

GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

Electronics & Telecommunication Department

Company Visited: GMRT-Khodad

Date of visit: 29th February, 2020

No. of Students: 16

No. of Faculty: 4 (Prof. Jayashri Kawale, Prof. Harshalata M, Prof. Bhoomi P,
Prof Sushma P.)

Outcome of the visit:


Industrial visit was carried out at GMRT on 29th February, 2020 for SEM VIII E&TC Engineering Students. The main objective behind the visit was to make the students aware about how the antennas work and how do they play a major role in our lives. The Journey began at 6:30am on the morning of the 29th February, 2020. After having a breakfast in Chakan, students proceeded towards the facility of GMRT.


The site for GMRT, about 10 km east of Narayangaon town on the Pune-Nasik highway, was selected after an extensive search in many parts of India, considering criteria such as low man-made radio noise, availability of good communication, vicinity of industrial, educational and other infrastructure and, a geographical latitude sufficiently north of the geomagnetic equator in order to have a reasonably quiet ionosphere and yet be able to observe a good part of the southern sky as well. After reaching the facility students were guided by the staff member towards one of the big antennas. It was great to know that GMRT consists of 30 fully steerable gigantic parabolic dishes of 45m diameter each spread over distances of up to 25 km.

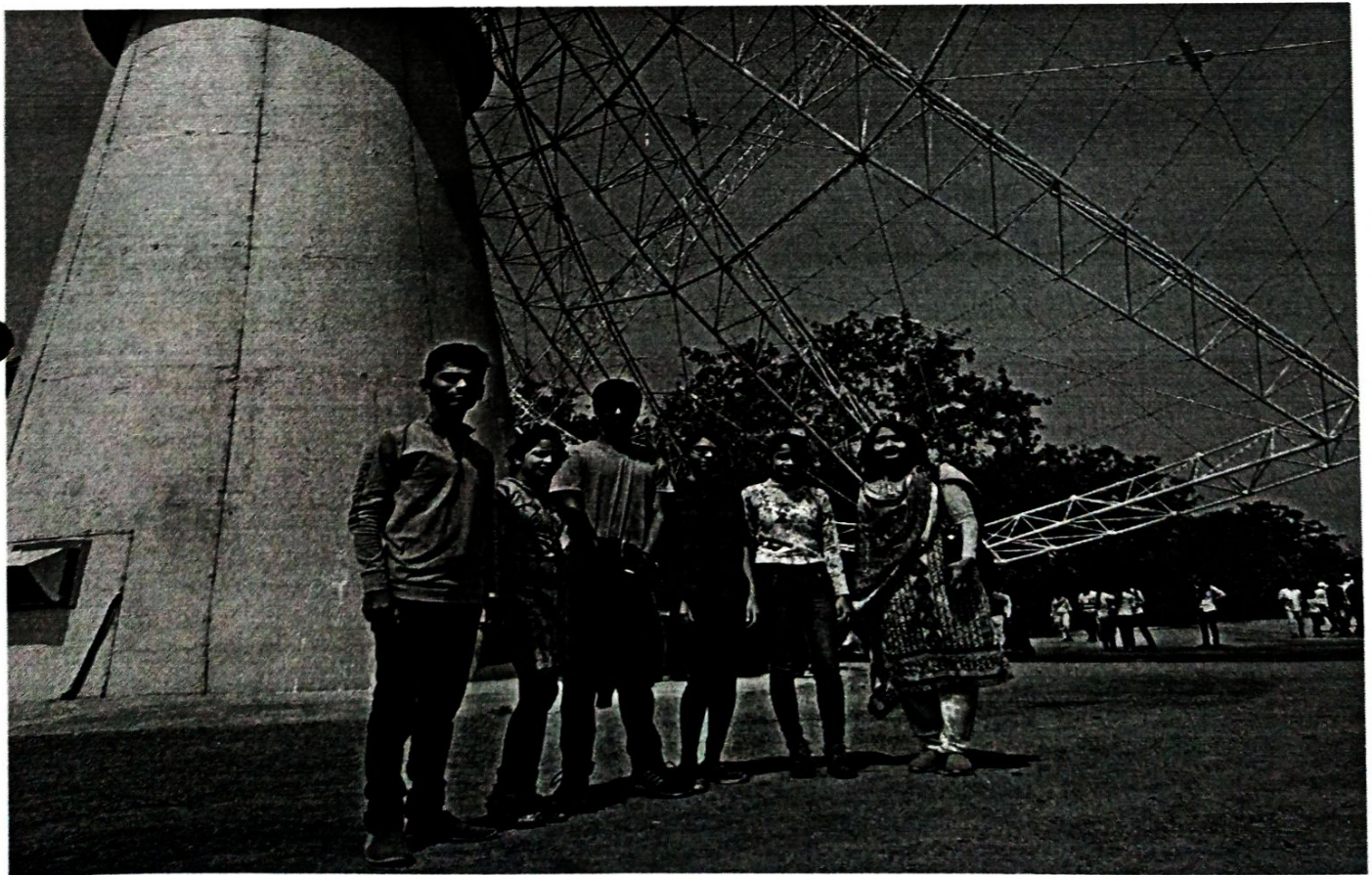
After introduction all students were shown the big antenna and were told about how it works and were guided about its various functionalities. The metre wavelength part of the radio spectrum has been particularly chosen for study with GMRT because man-made radio interference is considerably lower in this part of the spectrum in India. Fourteen of the thirty dishes are located more or less randomly in a compact central_array in a region of about 1 sq km. The remaining sixteen dishes are spread out along the 3 arms of an approximately 'Y'-shaped configuration over a much larger region, with the longest interferometric baseline of about 25 km.

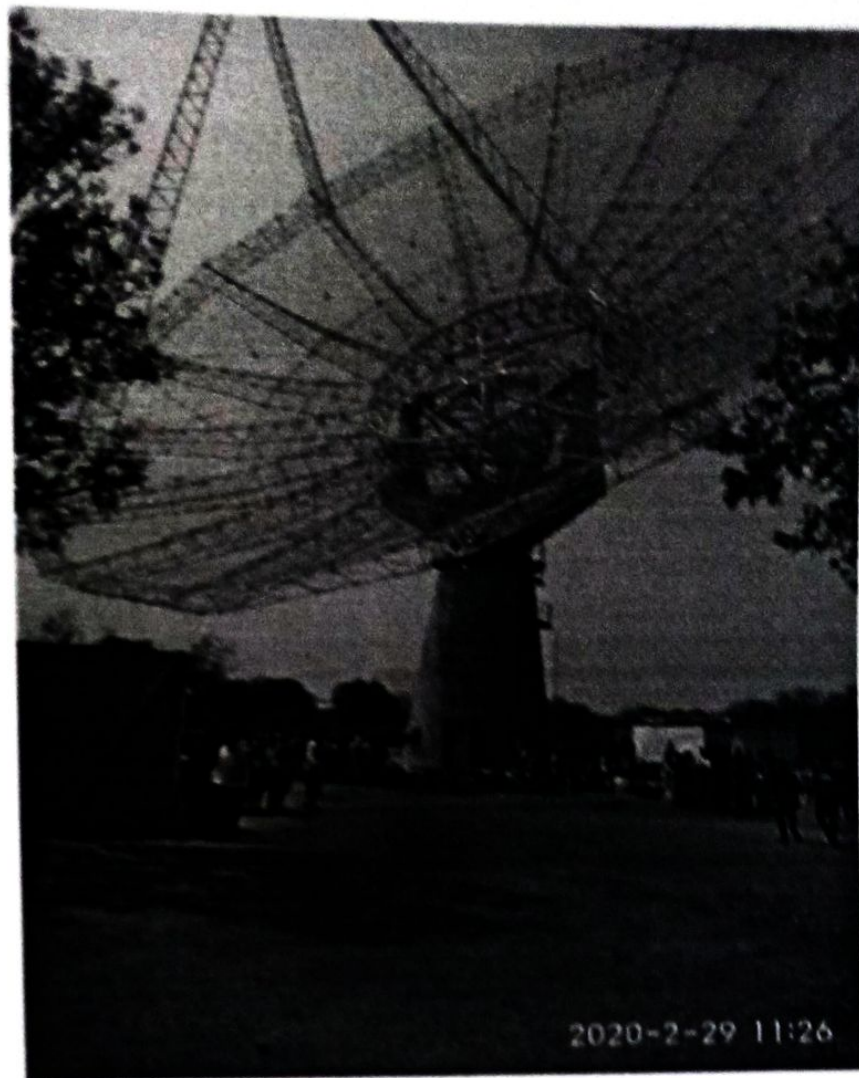
At GMRT, students learned about, basics of antenna and their tracking system. The RF and fiber optic communication between antenna and central processing facility unit

Also students enjoyed science exhibition at GMRT and students gained knowledge about upcoming technologies in different technical as well as non-technical areas.


Prof. Sushma Patwardhan
Industrial Visit Coordinator


Prof Jayashri Kawale
H.O.D. E &TC.





"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING
Electronics & Telecommunication Department
Report On Site Visit

To
HAM RADIO ANTENNA (Tukai Mandir Hill Baner Pune)
(2021-2022)


Date :12/3/2022

After Receiving the permission from Arsi Hill topping Contest ,10 students with 2 faculty members (Prof.Sushma Patwardhan , Prof.Komal Wanzare) went on a site visit to Ham Radio Antenna at tukai Mandir hill Baner , Pune on 12/3/2022

We all assembled at college at 10 AM and left the college at 10.30AM .We reached the site at 10.45am. Mr.Vilas Rabade received us at the entrance and gave brief Introduction to Ham Radio, Actual Ham Radio operation and explanation of equipment, various modes, demo of HF communication and FT8 mode. Mr. Milind Bhagvat demonstrated various parameters of Yagi on Antenna analyzer. Students enjoyed, learned and understood through Antenna Analyzer hands on activity.


Actually Radio was invented by Sir JC Bose {Not Marconi} but no one took this invention further. Sadly, all R&D and research took place in Europe and USA said Mr Vilas Rabade VU2VPR. Mobile phone is a kind of Radio and India is second largest consumer in the world. However, India do not produce anything, even plastic cover of the mobile phone.

To improve this situation Pune Hams viz Mangesh VU2OOM, Milind VU2MSB & Vilas VU2VPR decided to focus on E&TC students.


Prof. Komal Wanzare
Site Visit Coordinator


Prof. Sushma Patwardhan
H.O.D.E&TC

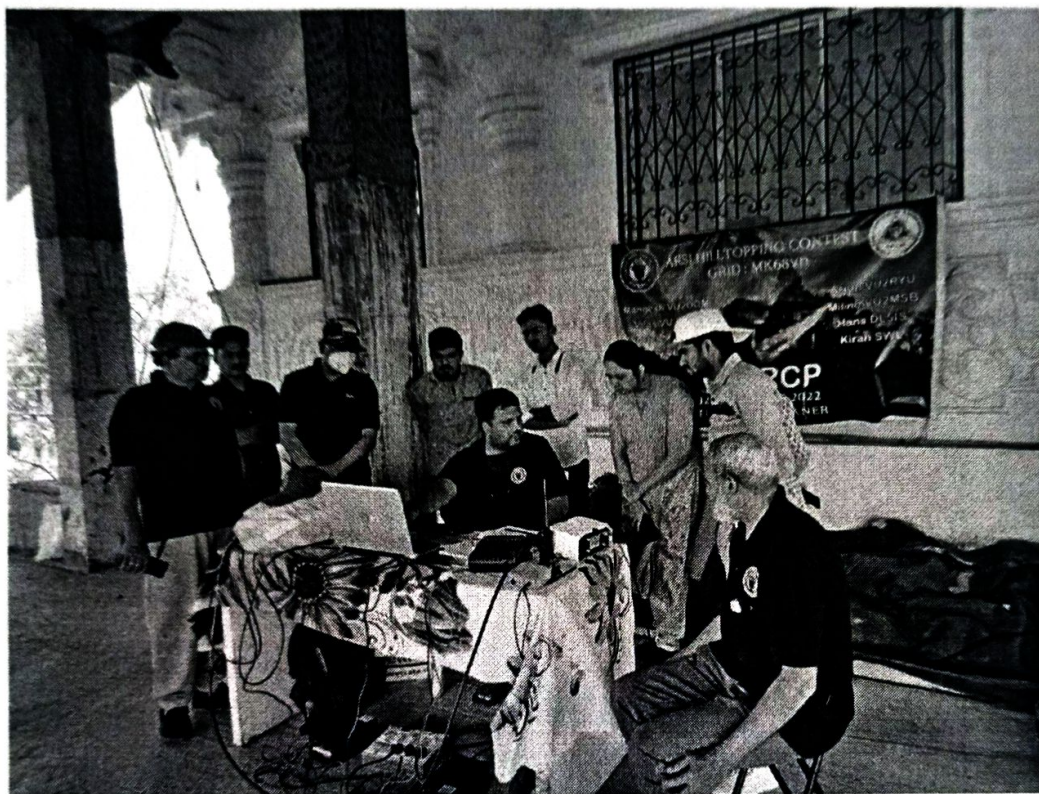



PRINCIPAL
Genba Sopanrao Moze College of Engg.
25/1/3, Balawadi, Pune - 411 045





IETE Pune local centre was main sponsorer for this practical event. Pune Hams & participants installed G5RV HF all band Antenna and X 30R from Diamond for VHF & UHF across the temple peak and successfully held HF communication. In this exercise, the E&TC students from Moze Engineering College and the professors actively participated and learned basics of Ham Radio and various types of Antennas.



VU2MSB OM Milind demonstrated various parameters of Yagi on Antenna analyzer. Students enjoyed, learned and understood this practical through Antenna Analyzer this hands-on activity. Mobile phone is a kind of Radio and India is second largest consumer in the world. However, India do not produce anything, even plastic cover of the mobile phone. To improve this situation Pune Hams viz Mangesh VU2OOM, Milind VU2MSB & Vilas VU2VPR decided to focus on E&TC students.



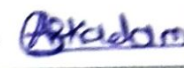



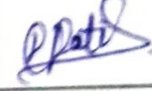

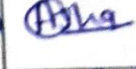

In the evening Star Party was organized and most of the participants witnessed the Moon through Telescope. The team also did interactions with artificial satellites and NASA space stations and various radio science experiments. "It's a national Actually Radio was invented by Sir JC Bose {Not Marconi} but no one took this invention further. Sadly, all R&D and research took place in Europe and USA," said Vilas Rabde VU2VPR.

GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

Site Visit to Ham Radio Antenna (Banner)
(2021-2022)

Department Of Electronics & Telecommunication Engineering

Date :12/3/2022

Sr.No.	Student Name	Student Contact No.	Sign
1	Dnyaneshwar Shinde	9503232511	
2	Vishnu Sankpaul	8605921659	
3	Adinath Kadam	7559392094	
4	Juili P. Vyas	7517524387	
5	Saurabh Ashok Bhangale	9322955176	
6	Kusal Shubham	8999832551	
7	Patil Patil Lalit Ashok	7769834214	
8	Sumedha Surwale	9665118020	
9	Asha Bhavle	9172117070	
10	Ritika Ouhad	8888903133	



“EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE”
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

S. No. 25/1/3, Balewadi, Pune – 411 045

(Approved by AICTE and Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University)

DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph: 020-27390500 Website: www.gsmozecoe.org Email: gsmoze@yahoo.co.in

Founder President: Shri Rambhau Moze

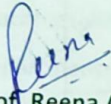
NOTICE

Date -22/08/2022

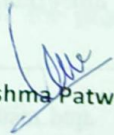
All students of TE, are hereby informed that the department of Electronics & Telecommunication is organizing One day Industrial Visit to Pune Zilha Sahakari Dudh Utpadak, Sangh Ltd. Katraj Dairy, Pune – Satara Road, Opp. Rajiv Gandhi Udyan, Katraj, Pune – 411046 on 28th Feb 2023. Enroll your name to respective Class Teacher.

Note:

The visit is compulsory for all students for internal assessment.


Prof. Reena Asati

(IV coordinator)


Prof. Sushma Patwardhan

(H.O.D, E&TC Dept)


PRINCIPAL

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, Pune - 411 045



"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"

GENBASOPANRAOMOZE COLLEGE OF ENGINEERING
Balewadi , Pune -45

Department of Electronics & Telecommunication

Industrial Visit Report- Katraj Dairy

Company Visited: Katraj Dairy, Katraj, Pune

Date of visit: 27th August, 2022

No. of Students: 12

No. of Faculty: 2 (Prof. Asawari Bhalerao, Prof. Reena Asati,)

Electronics & Telecommunication Engineering department had arranged an Industrial Visit for TE (E&TC) students to provide the practical exposure to Katraj Dairy on 27th August 2022.

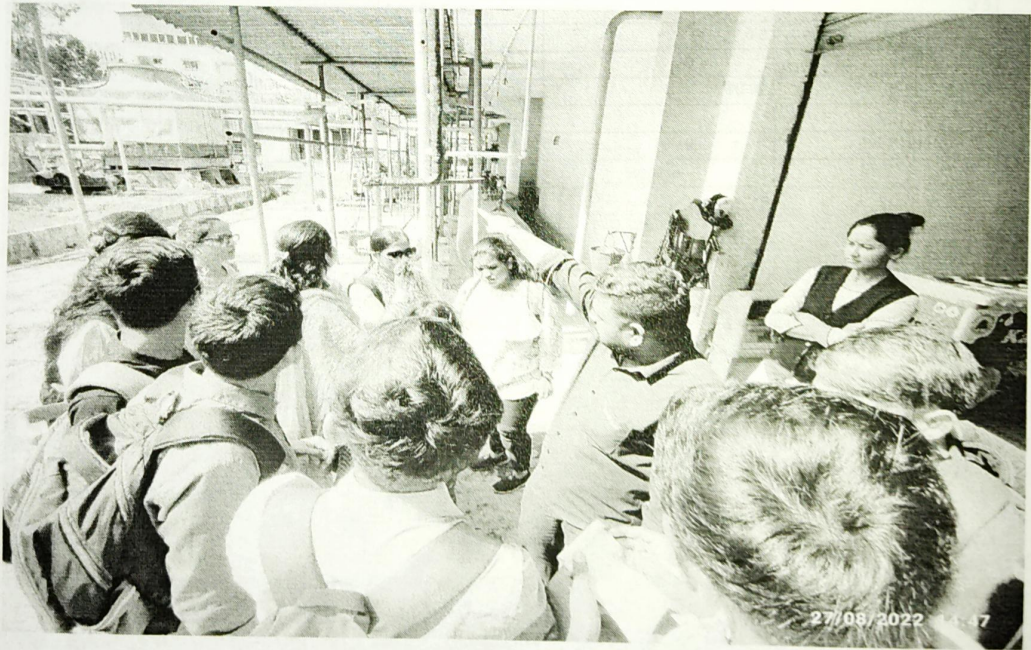
The aim o f the industrial visit was to acquaint the students with the process of the Dairy Industry. 12 students of TE along with 2 teachers visited the industry. The Visit commenced at 2 pm under the guidance of Mr. Akash Walunj, an employee of Katraj Dairy. The Visit began with a video about Katraj Dairy. The video included an introduction of Katraj Dairy, procurement of milk, transportation of milk, testing of milk, processing and pasteurization of milk and other dairy products etc. Mr. Walunj showed the students how the milk processing machines like boilers, chillers etc work. He also showed the students all the production departments like Flavored Milk, Ice cream, Ghee processing etc.

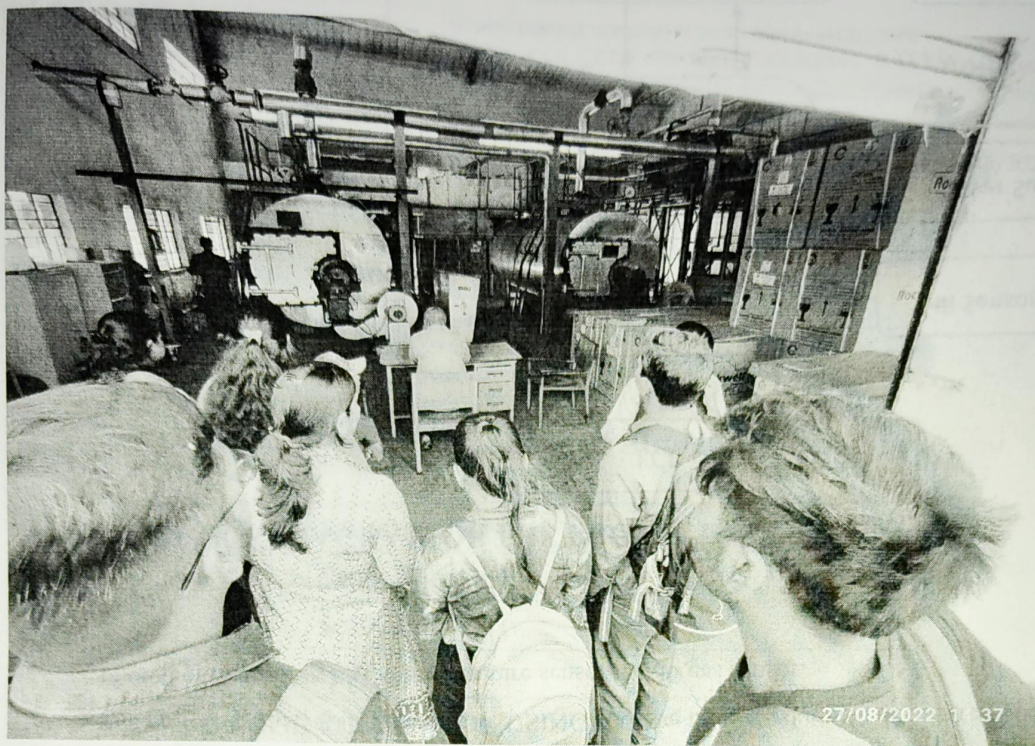
The visit concluded at 5pm along with an ice cream treat from Katraj Dairy.

Prof Reena Asati
IV Coordinator

Sushma Patwardhan
H.O.D.E&TC.

Dr. Ratnaraj Kumar Jambhale
Principal
Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, Pune - 411 045







Date: 27/8/2022

Attendance of IV- Katraj Dairy

Academic Year 2022-23

Branch: TE E&TC

Sr.No.	Name of Student
1	Saurabh Bhagale
2	Sagar Bhosale
3	Subham Kusal
4	Juili Vyas
5	Sanket Pawar
6	Lalit Patil
7	Yash Biswash
8	Rahulraj Mahan
9	Vaishnavi Jadhav
10	Manisha Mane
11	Danish P
12	Rohini Patil
13	Prof. Reena Asati (Faculty)
14	Prof. Asawari Bhalerao (Faculty)



“ EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE ”
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

S. No. 25/1/3, Balewadi, Pune – 411 045

(Approved by AICTE and Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University)

DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph: 020-27390500 Website: www.gsmozeceoe.org Email: gsmoze@yahoo.co.in

Founder President: Shri Rambhau Moze

NOTICE

Date -13/02/2023

All students of TE and BE, are hereby informed that the department of Electronics & Telecommunication is organizing One day Field Visit at GMRT, Narayangaon, Khodad , Junnar , Pune-410504 on 28th Feb 2023. Enroll your name to respective Class Teacher.

Note:

The visit is compulsory for all students for internal assessment.


Prof. Reena Asati

(IV coordinator)


Prof. Sushma Patwardhan

Head of the Department
(H.O.D. E&TC Dept)
Electronics & Telecommunication Engineering
Genba Sopanrao Moze College of Engineering
Balewadi, Pune - 411 045.



"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"
GENBASOPANRAOMOZE COLLEGE OF ENGINEERING
S. No. 25/1/3, Balewadi, Pune – 411 045
(Approved by AICTE and Govt. of Maharashtra, Affiliated to SavitribaiPhule Pune University)
DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999
Ph: 020-27390500 Website: www.gsmozecoe.org Email: gsmoze@yahoo.co.in
Founder President: ShriRambhauMoze

Date 23/2/2023

To,
The Principal,
G.S.Moze C.O.,E
Balewadi ,Pune

Subject : Permission for Industrial Visit for B.E. T.E ,& S.E. Students


Respected Sir,

With reference to above subject E &TC dept. is going to arrange one day Industrial Visit to GMRT, Narayangaon Pune on 28th of Feb 2023, Tuesday for 32 students along with 4 faculty members.


As a part of Pune university syllabus, we are supposed to visit an industry for enhancing the practical knowledge of our students. Since we are from Electronics and Telecommunication domain, we find GMRT (Giant Metrewave Radio Telescope) Pune is best suited for Radio Astrophysics .

Kindly request you to grant the permission for arranging Industrial Visit for students.

Thanking you


Prof. Sushma Patwardhan
H.O.D (E&TC)

Note: Details of Industrial Visit

- 1 .Industrial Visit Planned : GMRT Narayangaon, Pune
 - 2 . Address : Khodad , Tal-Junnar . Pune 410504
 - 3 . Date &Day : 28th of Feb 2023, Tuesday
 - 4 . Time : 7.00am -6.00 pm
 - 5 .class : BE,TE & SE (E &TC)
 - 6 . Number of students : 32
 - 7 . Number of Faculty : 4 (Sushma Patwardhan, Harshalata Toke. Megha Beedkar, Reena Asati)
- 



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Ph: 020-27390500 Website: www.gsmozece.org Email: gsmoze@yahoo.co.in

Founder President: Shri Rambhau Moze

Student & Faculty List for GMRT Visit

Sr no.	Name of the student	AGE
1	Kharche Shweta Subhash	20
2	Gharmode Sakshi Sunil	20
3	Patil Payal Ravindra	20
4	Garde Aditya Gajanan	20
5	Nimse Harshad Santosh	20
6	Datir Sachin Vishnu	20
	Ganjure Rohit Rajesh	20
8	Mahajan Sharayuy Vinod	20
9	Wakade Sneha	20
10	Patil Shubham Atul	20
11	Dixit Tejashree Ravindra	20
12	Kandekar krushna prabhakar	20
13	Divya patil	20
14	Bipin pawale	20
15	umesh patil	21
16	sumedha surwade	21
17	ritika ovhal	21
18	saurabh bhangle	21
19	lalit patil	21
20	yash biswas	21
21	juili pradeep vyas	21
	aarti vishwas patil	21
23	jadhav vaishnavi	21
24	manisha mane	21
25	sager bhosle	21
26	swapnali dhere	21
27	sanket pawar	21
28	Shubham Patil	21
29	danish P	21
30	Rahul raj	21
31	adinath kadam	22
32	Bipin pawale	20
33	Prof. Reena Asati	42
34	Prof. Megha Beedkar	29
35	Prof. Harshalata Toke	34
36	Prof. Sushma Patwardhan	42

UNDERTAKING LETTER - STUDENTS

We the students of TE/BE of E&TC Department GSMCOE, Balewadi here-by undertake that we are going on Industrial Visit/ Field Trip to GMRT, Khodad, Pune -organized on date 28/2/2023 at 7:00 am

SR.No	Name	Year (TE/BE/SE)	Signature
1.	Divya. chandrakant patil	SE	
2.	Shweta Kharche	SE	
3.	Rohit Ganjure	S.E	
4.	Shubham A. Patil	S.E	
5.	Sneha Wakade	S.E	
6.	Payal Patil	S.E	
7.	Sharayu Patil	S.E	
8.	Krushna Kandekar	S.E	
9.	Bipin Pawale	S.E	
10.	Juili Pradeep Vyas	T.E	
11.	Aarti Vishwas Patil	T.E	
12.	Lalit Ashok Patil	T.E	
13.	Saurabh Ashok Bhangale	T.E	
14.	Adinath Bhimrao Kadam	B.E	
15.	Harshad Santosh Nimse	S.E	
16.	Rahulraj Mahan	T.E	
17.	Yash Bishwas	T.E	
18.	Kusai Shubham	T.E	
19.	Sumedha Surwade	T.E	
20.	Sumedh Surwade	T.E	
21.	Danish Peerzade	T.E	
22.	Umesh Patil	T.E	
23.	Ritika Ovhal	T.E	
24.	Sagar Bhosle	T.E	

25.	Sachin Vishnu Dattie	S.E.	<u>Satiz.</u>
26.	Tejashree Ravindra Dixit	S.E.	<u>Dixit</u>
27.	Jadhav Vaishnavi Ajit	F.E.	<u>Vaishy.</u>
28.	Pawar Sanket Yasant	T.E.	<u>Smp.</u>
29.	Swapnali Balaso Dhare	T.E.	<u>Dhare</u>
30.	mane Manisha	T.E.	<u>Manisha</u>
31	Anand Chauhan	S.E.	<u>Anand</u>
32	Aditya. Gonde	S.E.	<u>G.</u>
33	Anand	S.E.	



"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"

GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING
Balewadi , Pune -45

Department of Electronics & Telecommunication

Report on Industrial Visit

Company Visited: **GMRT-Khodad**

Date of visit: **28th February, 2023**

No. of Students: **33**

No. of Faculty: 3(ProfSushmaP , Prof. ReenaAsati, Prof.

MeghaBeedkar)



Outcome of the visit:


Industrial visit was carried out at GMRT on 28th February, 2023 for SEM VI E&TC Engineering Students. The main objective behind the visit was to make the students aware about how the antennas work and how do they play a major role in our lives. The Journey began at 6:30am on the morning of the 28th February, 2023. After having a breakfast in Chakan, students proceeded towards the facility of GMRT.

The site for GMRT, about 10 km east of Narayangaon town on the Pune-Nasik highway, was selected after an extensive search in many parts of India, considering criteria such as low man-made radio noise, availability of good communication, vicinity of industrial, educational and other infrastructure and, a geographical latitude sufficiently north of the geomagnetic equator in order to have a reasonably quiet ionosphere and yet be able to observe a good part of the southern sky as well. After reaching the facility students were guided by the staff member towards one of the big antennas. It was great to know that GMRT consists of 30 fully steerable gigantic parabolic dishes of 45m diameter each spread over distances of up to 25 km.

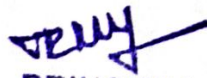
After introduction all students were shown the big antenna and were told about how it works and were guided about its various functionalities. The metre wavelength part of the radio spectrum has been particularly chosen for study with GMRT because man-made radio interference is considerably lower in this part of the spectrum in India. Fourteen of the thirty dishes are located more or less randomly in a compact central array in a region of about 1 sq km. The remaining sixteen dishes are spread out along the 3 arms of an approximately 'Y'-shaped configuration over a much larger region, with the longest interferometric baseline of about 25 km.

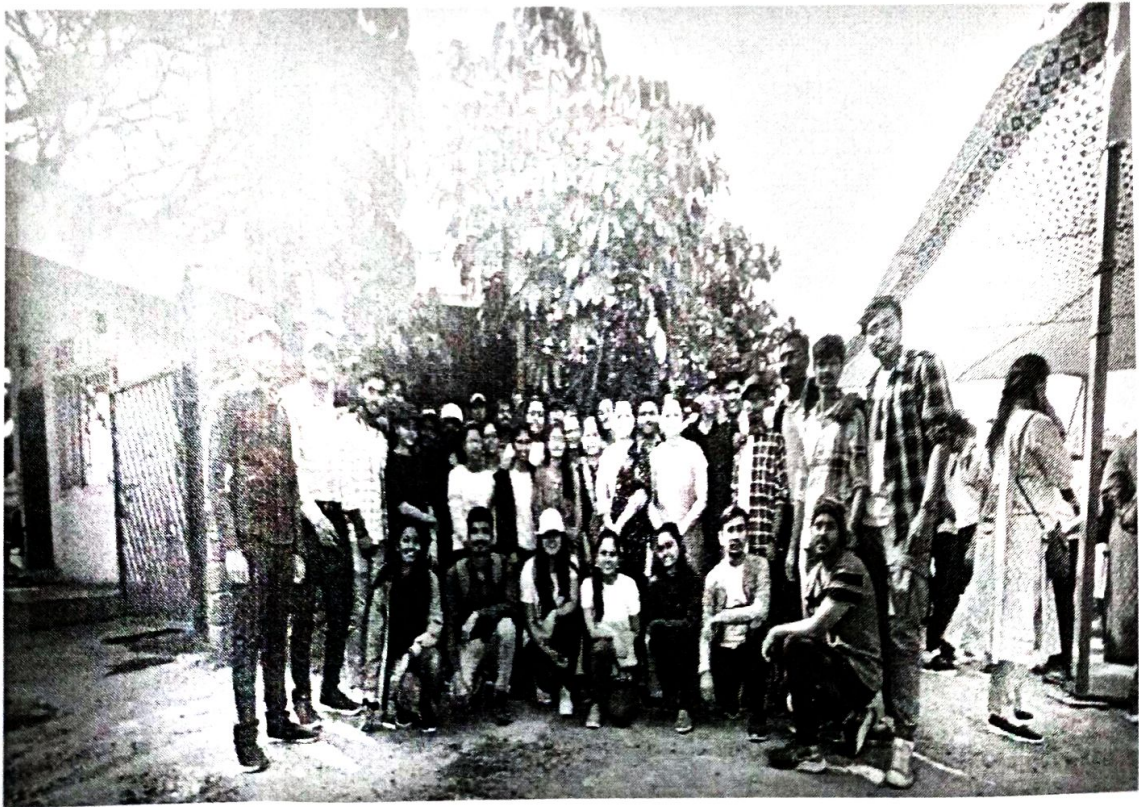
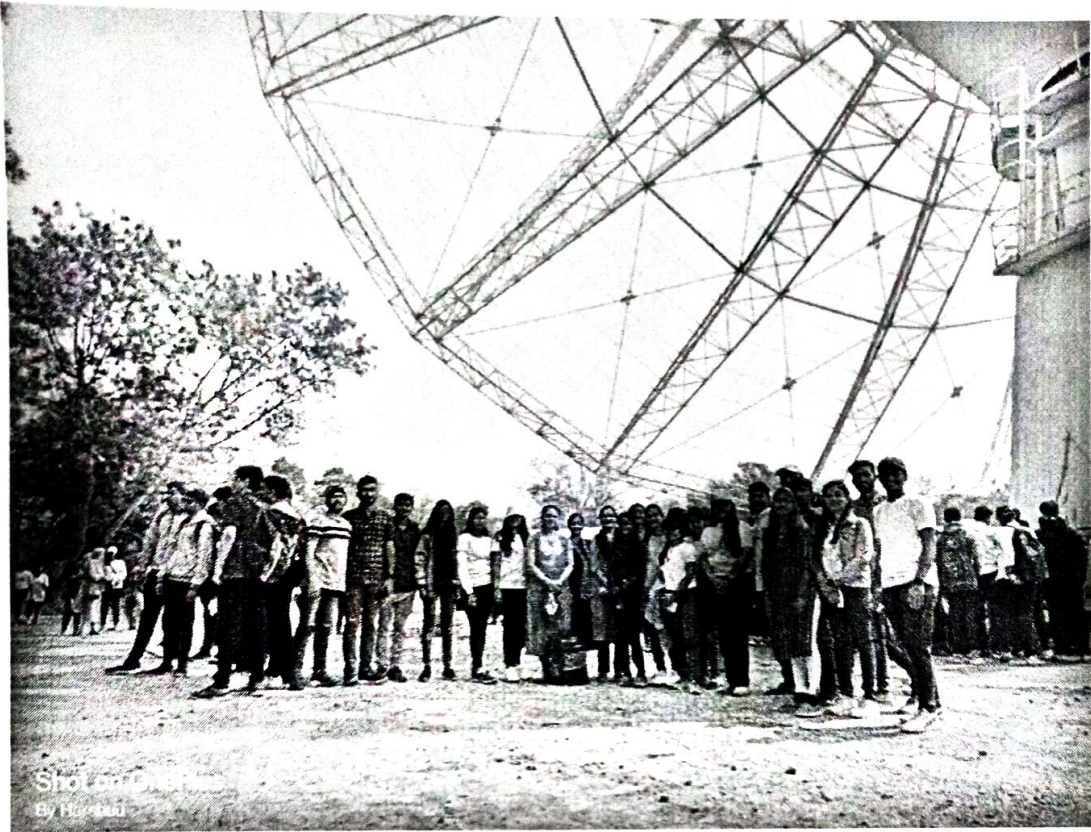
At GMRT, students learned about, basics of antenna and their tracking system. The RF and fiber optic communication between antenna and central processing facility unit

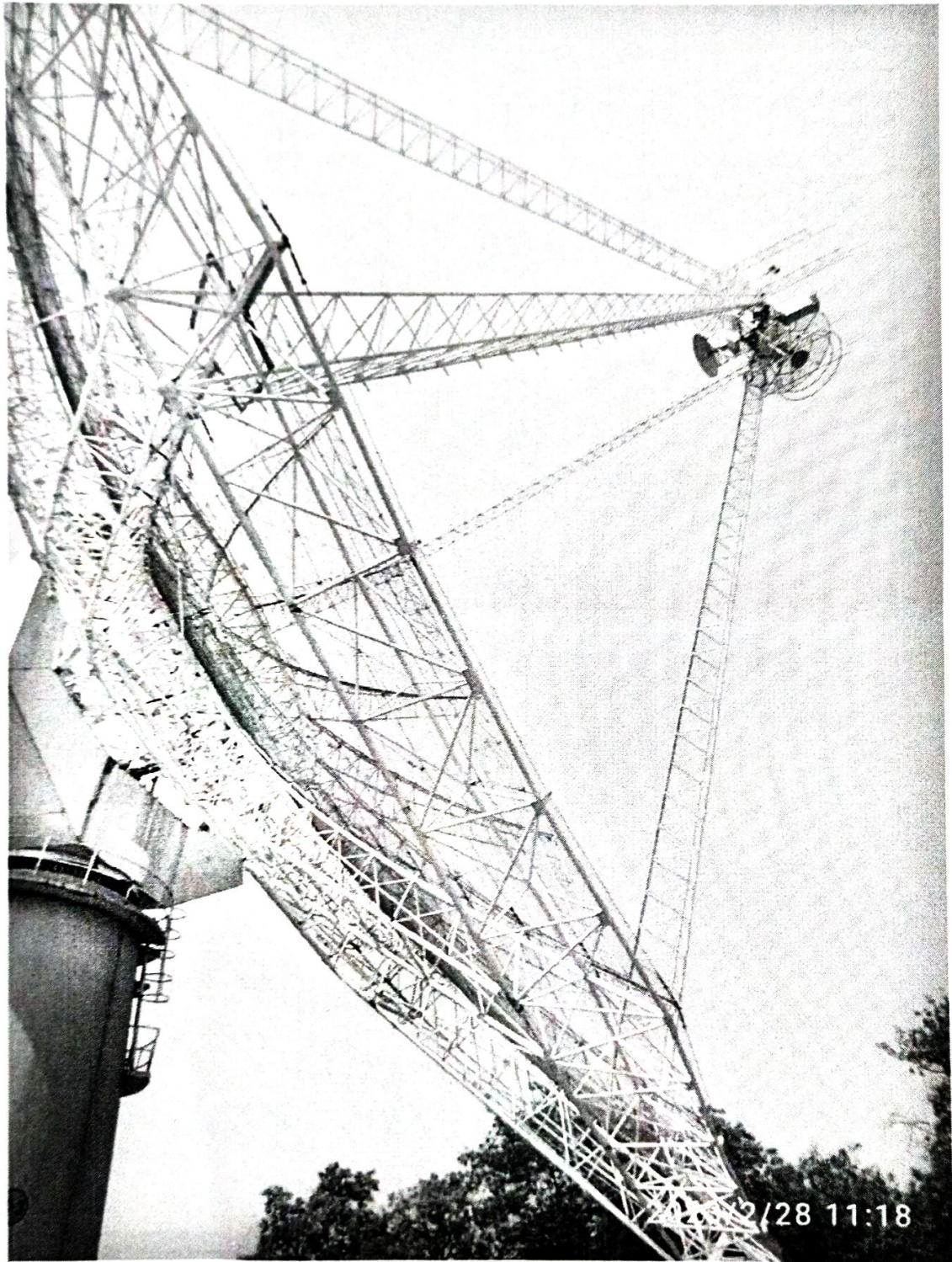
Also students enjoyed science exhibition at GMRT and students gained knowledge about upcoming technologies in different technical as well as non-technical areas.


Prof Reena Asati
IV Coordinator


Sushma Patwardhan
H.O.D.E &TC.


PRINCIPAL
Genba Sopanrao More College of Engg.
25/1/3, Balewadi, Pune - 411 045
Principal





Attendance

GMRT STUDENT LIST

Date 28/2/23

Sr no.	Name of the student	Contact no	SIGN
1	Kharche Shweta Subhash	7387722397	<i>[Signature]</i>
2	Gharmode Sakshi Sunil	8482822142	<i>[Signature]</i>
3	Shyam kumar nhavkar	9370027698	<i>[Signature]</i>
4	Garde Aditya Gajanan	7057868072	<i>[Signature]</i>
5	Nimse Harshad Santosh	7499929353	<i>[Signature]</i>
6	Datir Sachin Vishnu	8669457441	<i>[Signature]</i>
7	Ganjure Rohit Rajesh	7709000342	<i>[Signature]</i>
8	Mahajan Sharayuy	7020924640	<i>[Signature]</i>
9	Wakade Sneha	8378936964	<i>[Signature]</i>
10	Patil Shubham Atul	7666028650	<i>[Signature]</i>
11	Dixit Tejashree Ravindra	7276071373	<i>[Signature]</i>
12	Kandekar krushna P	9322042350	<i>[Signature]</i>
13	Divya patil	8788850481	<i>[Signature]</i>
14	Bipin pawale		<i>[Signature]</i>
15	umesh patil	7350539016	<i>[Signature]</i>
16	sumedha surwade	9665118020	<i>[Signature]</i>
17	ritika ovhal	8888903133	<i>[Signature]</i>
18	saurabh bhangale	9322955176	<i>[Signature]</i>
19	lalit patil	7769834214	<i>[Signature]</i>
20	yash biswas	8698003355	<i>[Signature]</i>
21	juili pradeep vyas	7517524387	<i>[Signature]</i>
22	aarti vishwas patil	9023913949	<i>[Signature]</i>
23	jadhav vaishnavi	7559344604	<i>[Signature]</i>
24	manisha mane	9076126089	<i>[Signature]</i>
25	sager bhosle	7974448269	<i>[Signature]</i>
26	swapnali dhere	7219396579	<i>[Signature]</i>
27	sanket pawar	7620942242	<i>[Signature]</i>
28	Shubham KUSAL	8999832551	<i>[Signature]</i>
29	danish peerzade	9359427965	<i>[Signature]</i>
30	rahul raj	9130889691	<i>[Signature]</i>
31	adinath kadam	7559392091	<i>[Signature]</i>
32	Sumedh surwade	8530585282	<i>[Signature]</i>
33	Anand chouhan	9561757857	<i>[Signature]</i>

[Signature]
Head of the Department



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Founder President: Shri Rambhau Moze


NOTICE

Date -30/09/2023

All students of TE, BE are hereby informed that the department of Electronics & Telecommunication is organizing One day Industrial Visit to RV Automation ,Sr. no 25/11 Bhairav Industrial Estate, Abhinav College Road, Nahre Pune-411041 on 7th Oct 2023. Enroll your name to Prof. Snehal Ranit on or before Thursday, 5th Oct 23 up to 4 o'clock personally without fail. The detailed schedule will be conveyed soon

Note:

The visit is compulsory for all students for internal assessment.


Prof. Aishwarya Sankpal

(IV coordinator)


Prof. Sushma Patwardhan

(H.O.D, E&TC Dept)


Dr. Ratnaraja Jambhi

Principal



"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"
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Founder President: Shri Rambbhau Moze

Industrial Visit Report

"RV Automation"

Dated : October 7, 2023

Organised By: ENTC department

Schedule: 10am to 5pm

Venue: RV Automation Bhairav Industrial Estate Narhe ,Pune

Coordinators : Prof. Sushma Patwardhan , Prof. Snehal Ranit

Details of the visit:

On 7th October ,2023 Extc department of engineering had organized an industrial visit for the TE and BE students at RV Automation . Total 26 students of Third year and Final year EXTC visited this company. Mr. Prashant Londhe from RV automation showed demonstration of Automation using pneumatic and electric control, Mechatronics control and Introduction to industry 4.0 I. Students got new directions to explore field of automation and Industry . While going through the entire industrial visit, the cooperation is found to be very well organized developed & most ideal industry in every walk of its production , administration & management aspects. We came to know about different technologies used in automation industries.



RV Automation is a leading supplier of automation technology and the performance leader in industrial training and education programs. RV stands for innovation and technology throughout the country

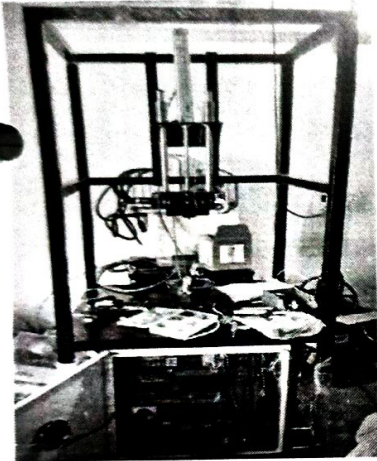


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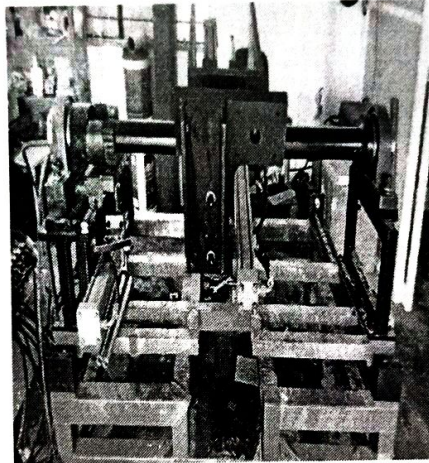
PRODUCTS

- 1) Leaf Spring lifting and titling arrangements ,
- 2) Welding SPM ,
- 3) Gravity roller conveyor and

In the welding SPM machine , PLC controls the ON-OFF moments of welding gun .stepper motor controls the pneumatic cylinder.



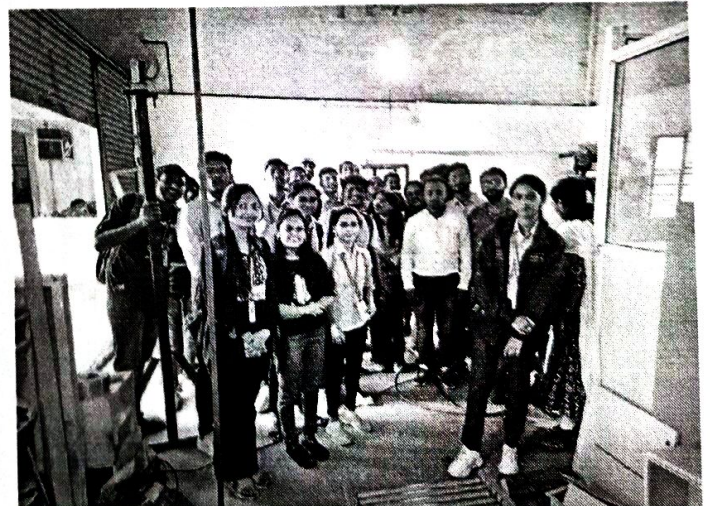
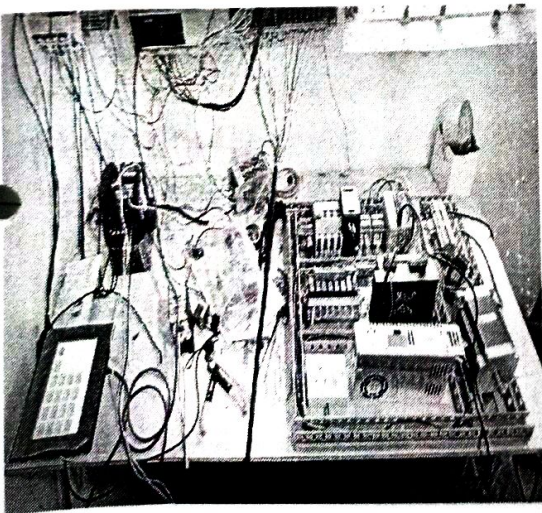
Welding SPM



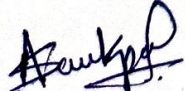
Leaf Spring lifting and titling arrangement




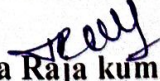
Gravity roller conveyor



All the students participated actively and learnt technically. All the concepts were cleared about automation.


Prof. Aishwarya Sankpal
(IV co-ordinator)


Prof. Sushma Patwardhan
(HOD, E&Tc)


Dr. Ratna Raja kumar Jambi
(Principal)

Date: 7/10/2023

Attendance of IV- RV Automation

Academic Year 2023-24

Branch: TE/BE E&TC

Sr.No.	Name of Student	Sign
1	Bhavana S Gaikwad	Bhavana Gaikwad
2	Akanksha K Jadhav	Akanksha
3	Divya C Patil	Divya Patil
4	Tejashree R Dixit	Tejashree Dixit
5	Kandekar Krushna	Kandekar
6	Swaraj Mandhare	Swaraj Mandhare
7	Shubham. M. Patil	Shubham Patil
8	Shweta Kharche	Shweta Kharche
9	Rohit Ganjure	Rohit Ganjure
10	Shubham A Patil	Shubham Patil
11	Sneha Wakade	Sneha Wakade
12	Harshad Santosh Nimse	Harshad Nimse
13	Aditya. G. Gaerkle	Aditya Gaerkle
14	Jadhav Vaishnavi	Jadhav Vaishnavi
15	Janket Pawar	Janket Pawar
16	Manisha Mane	Manisha Mane
17	Nikhil Lamture	Nikhil Lamture
18	Ritika Oihal	Ritika Oihal
19	Sagar bhosle	Sagar bhosle
20	Abhinav Thakre	Abhinav Thakre
21	Aarti Vishwasrao Patil	Aarti Patil
22	Juli Pradeep Vyas	Juli Vyas
23	Lalit Ashok Patil	Lalit Patil
24.	Saurabh Ashok Bhangale	Saurabh Bhangale
25.	Anish Anil <u>Khamkar</u>	Anish Khamkar



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Ph: 020-27390500 Website: www.gsmozecoe.org Email: gsmoze@yahoo.co.in

Founder President: Shri Rambhau Moze

Date: 06/10/2023

To,
The Principal,
GSMCOE Balewadi,
Pune

Subject: Request to grant the permission for one day Industrial visit to Chalkewadi
Windmill Farm, Satara on 16th October, 2023.


Respected Sir,

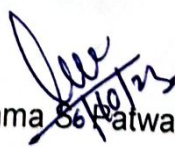
With reference to subject mentioned above we want to arrange Industrial visit for
the Second Year, Third Year and Final Year students of E&TC Engineering Dept.


The site is situated at Satara which is 148 km approximately away from our college.

It's a kind request to grant us permission for the same along with 46 students and
4 faculty members to visit this site on 16th October, 2023 (MONDAY).

Thanking You


Prof. Aishwarya Sankpal
(IV Coordinator)


Prof. Sushma S. Patwardhan
(H.O.D, E&TC Dept.)


Dr. Ratnaraj Jambi
Principal



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Founder President **Shri Rambhau Moze**

Ref. No. GSMCOE/ADMIN/731/2023-24

Date 06/10/2023

To,
Mr. Sunil Joshi,
State Head MH & MP
Suzlon Energy Limited,
Pune.

Subject: Permission for Industrial visit at Chalkewadi Wind Mill Farm, Satara

Respected Sir,

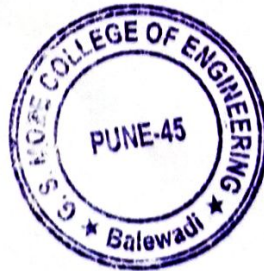
We introduce ourselves as G. S. Moze College of Engineering Balewadi Pune, affiliated to Savitribai Phule Pune University and approved by AICTE, New Delhi. The college runs seven UG program including Electronics & Telecommunication Engineering.


As a part of course curriculum, we would like to arrange a one day visit for second year, third year and final year students of E&TC department to "Chalkewadi Windmill Farms by Suzlon Energy Limited, Satara" on 16th October, 2023 for team of 50 members (46 Students + 4 Faculty).


So as to provide them the real insight of working procedure of esteemed institute such as yours and to fulfill the curriculum demand, it's a kind request to grant us the permission for the same along with students and faculties. Your coordination in this regards will not only help the cause of education but will also give insight about the way things work in the real life scenario to the students.

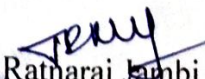
We will be thankful if you do the needful and allot us in-charge person who will explain us in detail the information

Thanking you in advance.




Prof. Aishwarya Sankpal
(IV Coordinator)


Prof. Sushma Patwardhan
(H.O.D, E&TC Dept.)


Dr. Ratharaj Janbi

PRINCIPAL

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045



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Founder President: Shri Rambhau Moze

DEPARTMENT OF E&TC ENGINEERING

NOTICE

Date -11/10/2023


All students of SE, TE & BE, are hereby informed that the department of Electronics & Telecommunication has organized an Industrial Visit to Chalkewadi Windmill Farm, Satara on 16th October 2023.


Instructions:

1. College reporting – 6:30 am sharp.
2. The bus will leave the campus by 7:00 am sharp.
3. College ID card is compulsory.
4. Students should bring water bottles, medicines, caps, goggles, snacks etc.

Flow of Trip:

1. GSMCOE to Chalkewadi wind mill farm Satara (Lunch Included)
2. Chalkewadi wind mill farm to Thoseghar waterfall
3. Thoseghar Waterfall to Sajjangad Fort
4. Sajjangad Fort to GSMCOE


Prof. Aishwarya Sankpal
(IV Coordinator)


Prof. Sushma N Patwardhan
(H.O.D, E&TC Dept.)



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Founder President: Shri Ramnath Moze

DEPARTMENT OF E&TC ENGINEERING

UNDERTAKING

Date -11/10/2023

We, the students of SE, TE & BE of Electronics and telecommunications Department, GSMCOE here-by undertake that we are going on Industrial Visit to Chalkewadi Windmill Farm, Satara organized on 16th October, 2023.

Sr. No	Name	Year	Mobile No.	Signature
1.	Harshada Sanjay Patil	S.E.	8857920224	Harshada
2.	Vaishnav Ashok Mahajan	S.E.	932202557	Vaishnav
3.	Bhosale Shital Satish	S.E.	8468967067	Shital
4.	Komal Ambadas Shinde	S.E.	9022611305	Komal
5.	Smruti Santosh Gate	S.E.	9503368627	Smruti
6.	Omkar Digambar Bisele	S.E.	7709984574	Omkar
7.	Aditya Sanjay Bhosale	S.E.	9325246542	Bhosale
8.	Prathamesh M. Aale	S.E.	7057998792	Prathamesh
9.	Chetana S. Bhiwase	S.E.	7875641740	Chetana
10.	Gaurav S. Wankhade	S.E.	9322631809	Gaurav
11.)	Shubham Kadam	S.E.	7785526090	Shubham
12.)	Omkar Aale	S.E.	9028471911	Omkar
13.)	Bhavana S. Gaikwad	T.E.	9075365621	Bhavana
14.)	Akanksha K. Jadhav	T.E.	7756056053	Akanksha
15.)	Divya C. Patil	T.E.	8788850481	Divya
16.)	Shweta Kharche	T.E.	7387122897	Shweta
17.)	Sneha Wakade	T.E.	8378936964	Sneha
18.)	Bipin Pawale	T.E.	7498582246	Bipin
19.)	Shyambhar Nathkar	T.E.	9370027698	Shyambhar
20.)	Anand Chauhan	T.E.	8263864710	Anand
21.)	Rahulraj Mahan	B.E.	9130889691	Rahul
22.)	Yash Bishwas	B.E.	8698003355	Yash *
23.)	Lalit Patil	B.E.	7769834214	Lalit
24.)	Saurabh Bhangale	B.E.	9322955176	Saurabh



Date: 16/10/2023

Attendance of IV- Chalkewadi Windmill Farm, Satara

Academic Year: 2023-24

Branch: SE, TE & BE


Department: E&TC


Sr.No.	Name of Student	Year	Sign
1	Jadhav Vaishnavi	BE	
2	Aarti Patil	BE	
3	Sanket Pawar	BE	
4	Sagar bhosle	BE	
5	Abhinav Thakre	BE	
6	Saurabh bhangle	BE	
7	lalit Patil	BE	
8	Umesh Patil	BE	
9	Sujit Talekar	BE	
10	Divya patil	TE	
11	Bhavna Gaikwad	TE	
12	AKanksha Jadhav	TE	
13	Omkar D. Bisale	SE	
14	Aditya S. Bhosale	S.E	
15	Yashwanth S. Wankhade	S.E	
16	Shubham S. Kadam	S.E	
17	Omkar A. Astole	S.E	
18	Vaibhava A. Mahajan	S.E	
19	Prathamesh M. Ade	S.E	
20	Bipin R. Pawale	T.E	
21	Anand A. Chauhan	T.E	
22	Sneha S. Watade	T.E	



"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING, BALEWAD Pune - 411 045
(Approved by AICTE and Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University)
Founder President: Shri Rambhau Moze

23	Shubham A. Patil	T.E	Patil
24	Rohit Ganjure	T.E	Bhat
25	Shweta Kharche	T.E	Kharche
26	Harshada Patil	S.E.	Harshada
27	Chetana Bhiwate	S.E	Bhiwate
28	Rahulraj Mahan	B.E	Patil
29	Yash Bishwas	B.E	Yash
30	Aditya. Garde	T.E	Patil
31	Kandekar Krushna	T.E	Patil
32	Shital Bhosale	S.E.	Shital
33	Komal Shinde	S.E.	Komal
34	Smmeti Gate	S.E.	Smmeti
35	Tejashree Dixit	T.E	Dixit
36	Harshad Nimse	T.E	Harshad
37	*Sfrom Pharkar	T.E	Pharkar
38	~		
39	-		
40	-		


Prof. Aishwarya Sankpal
(IV Coordinator)


Prof. Sushma N Patwardhan
(H.O.D, E&TC Dept.)



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DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph. 020-27390500 Website www.gsmozecoe.org Email gsmoze@yahoo.co.in

Founder President Shri Rambhau Moze

Ref. No. GSMCOE/ADMIN/768/2023

Date 17/10/2023

To,
Mr. Sunil Joshi,
State Head MH & MP
Suzlon Energy Limited,
Pune.

Subject: Letter of Appreciation

Respected Sir,


We the Department of Electronics & Telecommunication Engineering of Genba Sopanrao Moze College of Engineering, Balewadi, Pune, would sincerely like to thank Mr. Sunil Joshi Sir for giving us permission to visit your renowned Suzlon Windmill farm at Chalkewadi, Satara.


Our E&TC students are extremely satisfied with the guidance and knowledge shared by Mr. Sanjaykumar Thube & his entire team. It was very interesting for students to see the live models and parts of windmill structures at Suzlon Knowledge Center, Chalkewadi, Satara

We would also like to thank Mr. Santosh Joshi Sir for making the arrangements very nicely. We really appreciate Suzlon Global Service Ltd. Team for giving us the opportunity to visit & for guiding our students by sharing your valuable time.

Thanking You.




Prof. Aishwarya Sankpal
(IV Coordinator)


Prof. Sushma S. Patwardhan
(H.O.D, E&TC Dept.)


Dr. Ratnaraj Jambhi

Principal

PRINCIPAL

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045



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Founder President: Shri Rambhau Moze

DEPARTMENT OF E&TC ENGINEERING

Industrial Visit Report – 16/10/2023

Suzlon Chalkewadi Windmill Farm

Industrial visit was scheduled to Suzlon Chalkewadi Windmill Farm, with 37 students of SE, TE & BE of E&TC department along with 3 faculty members (Prof. Sushma Patwardhan, Prof. Aishwarya Sankpal & Prof. Harshalata Toke) on 16th October, 2023 by taking the permission of College Principal and of State Head (MH & MP) of Suzlon Global Service Limited, Mr. Sunil Joshi .

We all assembled at college at 6.30 AM and left the college at 07.00 AM. We reached the site at 11.45 AM. Mr. Sanjaykumar Thube along with Mr. Santosh Joshi welcomed us to the Knowledge Center of SUZLON and gave brief introduction. Mr. Sanjaykumar Thube along with team explained live model of Windmill, its operation and shared all the knowledge to students. Students enjoyed, learned and understood the windmill structure and its working at the Knowledge Center.

Chalkewadi Windmill Farms is a wind power project located in Satara district of Maharashtra, India. It consists of a cluster of wind turbines that generate electricity by harnessing the power of wind. The windmill farm has a capacity of 49.5 MW, and it was commissioned in 2012.

Chalkewadi Windmill Farm is one of the largest windmill farms in Asia situated at Chalkewadi in Satara district of Maharashtra. The Chalkewadi Windmill Farms project is owned and operated by **Suzlon Global Service Limited**, a leading Indian wind turbine manufacturer and renewable energy company. The wind farm comprises of 33 wind turbines, each with a capacity of 1.5 MW. The turbines are installed on towers that are 90 meters tall, and the blades have a diameter of 77 meters.

Wind Energy Project in Satara was developed with the intention of generating clean energy. There are hundreds of windmills on the adjoining hills. The windmills are stretched over a 5 km plateau and supply electricity to Satara and neighboring places like Mahabaleshwar and Panchgani. Chalkewadi is developed as a tourist spot, because the windmills and the hills offer a magical landscape together.



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In the Suzlon's sprawling Satara Wind Farm, Vankusawade site is a highest wind parks set up by the company. It stands at an elevation of about 1,000 meters above the Koyna Reservoir, 40 km from the town of Satara. The wind farm's total installed capacity as of March 2015 stood at 570.15 MW spread across 824 wind turbine generator units of different ratings, ranging from 350 kW to 2,100 kW. Some of the key sites at the farm are Vankusawade, Bothe, Gude and Sadawachapur.

Amidst these turbines is located the Satara Knowledge Center, which was inaugurated in November 2009 and plays a vital role in imparting training to company employees. After a brief tour of the site (and plenty of photo opportunity), we were ushered into the knowledge center for an information session on the mechanics, machinery and operation of wind turbines. The knowledge center also houses a 1.25 MW and a 1.5 MW wind turbine simulator used for training purposes. We had the opportunity to see the turbine machinery and components up close Wearing canary-yellow helmets and gloves with rubber grips. We shakily climbed up the ladder to the nacelle Standing on the machine platform, we could see how each of the components the generator, bearings, shafts, gearbox, etc. - function.

Suzlon's new S9X machines compared to the 350 kW Vankusawade turbines, these 2.100 kW turbines were gigantic, their huge blades slicing the air in wide powerful sweeps. According to Suzlon, the S9X suite can operate effectively even in a lower wind spectrum. The key design features of this turbine are a doubly fed induction generator converter with variable speeds: a larger swept area with rotor diameters of 95 meters and 97 meters and hub heights of 80 meters, 90 meters and 100 meters

The project has helped to reduce India's dependence on fossil fuels and has contributed to the country's efforts to reduce greenhouse gas emissions. It has also created employment opportunities for local communities and has provided a source of income for landowners who lease their land for the project.

Overall, the Chalkewadi Windmill Farms project is a significant step towards a more sustainable and renewable energy future for India.



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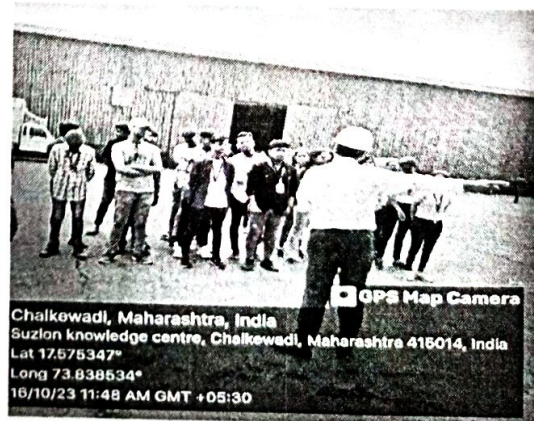
S. No. 25/1/3, Balewadi, Pune – 411 045

(Approved by AICTE and Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University)

DTE Code - EN6144 University Affiliation ID - PUPN/ENGG/138/1999

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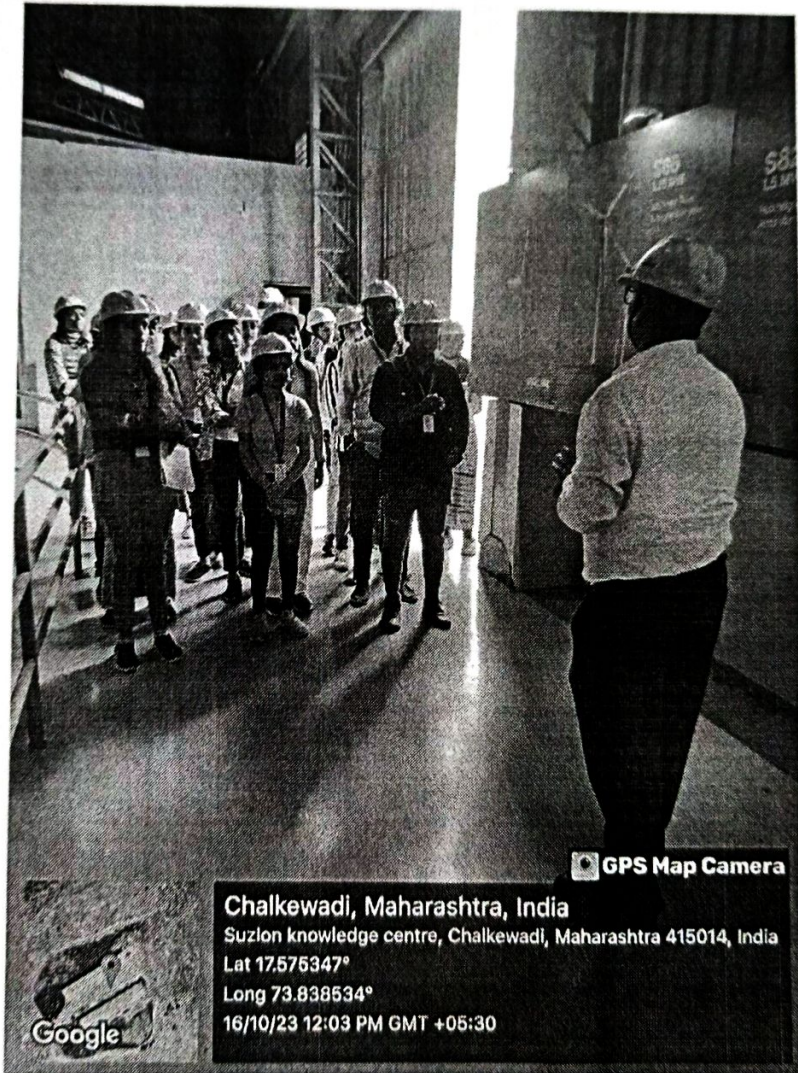
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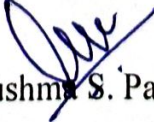
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Founder President: Shri Rambhau Moze




Prof. Aishwarya Sankpal
(IV Coordinator)


Prof. Sushma S. Patwardhan
(H.O.D, E&TC Dept.)


Dr. Ratnaraj Jambhi
Principal



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Founder President: Shri Rambhau Moze

Date -29/1/2024

To,

The Principal,
GSMCOE Balewadi,
Pune

Subject: Request to grant the permission for five days Industrial visit to ISRO
– NRSC, Hyderabad from 2nd Feb to 6th Feb, 2024.

Respected Sir.

With reference to subject mentioned above we want to arrange Industrial visit for the Second Year, Third Year and Final Year students of E&TC Engineering Dept.

It's a kind request to grant us permission for the same along with 30 students and 3 faculty members (Prof. Sushma Patwardhan, Prof. Aishwarya Sankpal and Prof. Harshalata Toke) to visit Hyderabad from 2nd Feb to 6th Feb, 2024.

Thanking You

Prof. Aishwarya Sankpal

(IV Coordinator)

Prof. Sushma Patwardhan

(H.O.D, E&TC Dept.)

Dr. Ratnaraj Jambi

Principal



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Founder President **Shri Rambhau Moze**

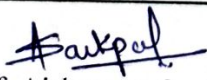
Ref. No. GSMCOE / ADMIN / 015 / 2023-24

Date 10/01/2024

Industrial Visit Student & Faculty Details

Sr. No.	Name of Student	Roll No.	Year	Branch
1	Harshada Sanjay Patil	23	S.E.	E & TC
2	Komal Ambadas Shinde	27	S.E.	E & TC
3	Gaurav Subhash Wankhade	33	S.E.	E & TC
4	Smruti Santosh Gate	9	S.E.	E & TC
5	Pranav Vinayak Pisal	26	S.E.	E & TC
6	Sneha Nitin Patil	40	S.E.	E & TC
7	Omkar Digambar Bisale	6	S.E.	E & TC
8	Shravani Shivaram Kumbhar	17	S.E.	E & TC
9	Chetana Sanjay Bhiware	3	S.E.	E & TC
10	Shital Satish Bhosale	5	S.E.	E & TC
11	Bhavna Sanjay Gaikwad	6	T.E.	E & TC
12	Akanksha Kisan Jadhav	10	T.E.	E & TC
13	Atharva Kisan Jadhav	29	T.E.	E & TC
14	Aditya Gajanan Garde	8	T.E.	E & TC
15	Krushna Prabhakar Kandekar	12	T.E.	E & TC
16	Divya Chandrakant Patil	22	T.E.	E & TC
17	Shweta Subhash Kharche	14	T.E.	E & TC
18	Harshad Santosh Nimse	21	T.E.	E & TC
19	Sneha Shuklakumar Wakade	28	T.E.	E & TC
20	Juili Pradeep Vyas	28	B.E.	E & TC
21	Shubham Anil Kusal	12	B.E.	E & TC
22	Vaishnavi Ajit Jadhav	8	B.E.	E & TC
23	Sagar Ambaji Bhosle	3	B.E.	E & TC
24	Sanket Vasant Pawar	21	B.E.	E & TC
25	Yash Johnson Bishwas	29	B.E.	E & TC
26	Rahulraj Sureshkumar Mahan	13	B.E.	E & TC
27	Rohini Pandharinath Patil	18	B.E.	E & TC
28	Umesh Balu Patil	20	B.E.	E & TC
29	Manisha Hanumant Mane	14	B.E.	E & TC
30	Pruthviraj Sujit Jadhav	30	B.E.	E & TC

Sr. No.	Facult Name
1	Prof. Sushma Patwardhan
2	Prof. Aishwarya Sankpal
3	Prof. Harshalata Toke


Prof. Aishwarya Sankpal
(IV Coordinator)




Dr. Ratnaraj Jambri
Principal

PRINCIPAL

Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045

Permission to Industry Visit to NRSC Centre for G.S.Moze College, Pune. » Inbox x



Aishwarya Sankpal <aishwaryasankpal3@gmail.com>

Sun, Jan 7, 11:44 AM (5 days ago)



to outreach ▾

Respected Sir,

Myself Ms. Aishwarya Sankpal, from E&TC department of Genba Sopanrao Moze College of Engineering, Balewadi, Pune writing to you this mail to request you for the permission for the industrial visit to NRSC (ISRO).

We introduce ourselves as G. S. Moze College of Engineering Balewadi Pune, affiliated to Savitribai Phule Pune University and approved by AICTE, New Delhi. The college runs seven UG programs including Electronics & Telecommunication Engineering.

As a part of course curriculum, we would like to arrange an Industrial Visit for second year, third year and final year students of E&TC department to "National Remote Sensing Centre (NRSC) of Indian Space Research Organisation (ISRO)" for team of 33 members (30 Students +3 Faculty).

We will be in Hyderabad city for 3 days i.e. on 3rd, 4th & 5th February, 2024. So kindly allow us to visit the centre any day suitable. It is Ok for us even if we get merged with any other group.

So as to provide them the real insight of working procedures of your esteemed institute and to fulfill the curriculum demand, it's a kind request to grant us the permission for the same along with students and faculties. Your coordination in this regard will not only help the cause of education but will also give insight about the way things work in the real life scenario to the students.

Thank you in advance.

Ms. Aishwarya A. Sankpal
IV Coordinator,
E&TC Department,
GSMCOE, Balewadi, Pune



outreach@nrsc.gov.in

Tue, Jan 9, 10:15 AM (3 days ago)



Dear Sir/Mam,

Thank you for the interest shown to visit NRSC/ISRO, Hyderabad.

Request you to send the details of students name/Roll No/Year/Branch (mobile numbers not required) along with the faculty details on your college/institute letter head signed by concerned head of department/Principal through your college email ID to this same email ID.

As requested by you, 3rd and 4th February are not possible for visit as being Saturday and Sunday, officialy closed days for ISRO.

5th February is possible for your visit provided you give us the above details as early as possible.

Please give your contact phone number so that we can reach you.

regards

कार्यालय, जनसम्पर्क Office of Outreach,
(जनसम्पर्क सुविधा Outreach Facility)

प्रशिक्षण, शिक्षण एवं जनसम्पर्क समूह Training, Education & Outreach Group
प्रबंधन प्रणाली क्षेत्र Management Systems Area (MSA)

Permission to Industry Visit to NRSC Centre for G.S.Moze College, Pune. Inbox

entchod@gsmozeceoe.org

to outreach, me, patwardhan.sushma

Wed, Jan 10, 11:55AM (2 days ago)

Respected Sir/Ma'am,

As per Requirement, Here I am attaching the scan copy of student details & faculty details of G. S. Moze College of Engineering, Pune for visit to NRSC/ISRO, Hyderabad on 5th February, 2024.

Also the for any information you can contact our Industry Visit Coordinator.

Prof. Aishwarya Sankpal

Ph : 8007700351

IV Coordinator,

E&TC Department,

GSMCOE, Balewadi, Pune

Thank you for coordinating.

Best Regards,

Prof. Sushma Patwardhan

HOD, E&TC

GSMCOE, Balewadi, Pune

Wed, Jan 10, 1:08PM (2 days ago)

outreach@nrsc.gov.in

to entchod, me, patwardhan

Dear Sir/Mam,

Your 33 Students And Faculty visit to Outreach Facility, NRSC/ISRO is confirmed for 05th FEB 2024.

Please make arrangements to be available at above address by 10AM.

Location info is as in the attached QR code.

regards

कार्यालय जनसम्पर्क Office of Outreach,
(जनसम्पर्क सुविधा Outreach Facility)

प्रशिक्षण, शिक्षण एवं जनसम्पर्क समूह Training, Education & Outreach Group
प्रबंधन प्रणाली क्षेत्र Management Systems Area (MSA)

राष्ट्रीय सुदूर संवेदन केंद्र, हसनूर, National Remote Sensing Centre, ISRO,

जेदस आर कॉम्प्लेक्स / ऐश्वर्या ग्रांड के बगल में, Beside JSR Complex/Aishwarya Grand,
शाहपुर, जेदमेटला, हैदराबाद - ५०० ०५५ Shahpur, Jeedimetla, Hyderabad - 500 055

दूरभाष / Phone 040-23884810, 23884816



"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"

Form No: AF24

GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

Revision: 0

UNDERTAKING LETTER – STUDENTS

Hyderabad Industrial Visit to ISRO NRSC (2nd – 6th February, 2024)

We the students of Electronics and Telecommunication Program at G. S. Moze College of Engineering, Balewadi do here-by undertake that we are going on Industrial Visit /Study Tour to Hyderabad - ISRO NRSC organized from 02/02/2024 and arriving on 06/02/2024. Faculty and staff of G S Moze COE, Balewadi will not be held responsible for any mishap/ eventualities during the trip.

Sr.No	Name	Year	Signature
1.	Harshada Sanjay Patil	S. E.	<u>Harshada</u>
2.	Branav Vinayak Pisal	S. E.	<u>Branav</u>
3.	Gaurav. Subhash. Wankhade	S. E.	<u>Gaurav</u>
4.	Shravani shivaram kumbhar	S. E.	<u>Shravani</u>
5.	Chetana Sanjay Bhiwate	S. E.	<u>Chetana</u>
6.	Smruti Santosh Gate	S. E.	<u>Smruti</u>
7.	Komal Amabadas Shinde	S. E.	<u>Komal</u>
8.	Shital Satish bhosale	S. E.	<u>Shital</u>
9.	Ankar Digambar Biscle	SE	<u>Ankar</u>
10.	Sneha Nitin Patil	S. E. comp	<u>Sneha</u>
11.	Krushna prabhakar kandekar	T. E.	<u>Krushna</u>
12.	Pawar Sanket	B. E.	<u>Pawar</u>
13.	Kusal Shubham	B. E.	<u>Kusal</u>
14.	Rahulraj Mahan	B. E.	<u>Rahulraj</u>
15.	Yash Bishwas	B. E.	<u>Yash</u>
16.	Jadhav Naishnavi	B. E.	<u>Naishnavi</u>

17.	Pruthvijay Jadhav	B.E	Pruthvijay
18.	Sankar Mane manisha	BE	Manisha
19.	Julli Vyas	BE	Vijay
20.	Rohini Patil	BE	Rohini
21.	umesh Patil	BE	Umesh
22.	Aditya. Gode	T.E	Adi.
23.	Sagar Bhosale	BE.	Sagar
24.	Shweta Kharche	TE	Shweta
25.	Sneha Wakade	TE	Sneha
26.	Harshad Santosh Nimse	TE.	H. S. Nimse
27.	Divya. Chandrakant Patil	T.E.	Divya
28.	Bhavna Sanjay Gaikwad	T.E	Bhavna
29.	Akanksha. Kisan. Jadhav	T.E	Akanksha
30.	Atharva. Kisan. Jadhav.	T.E.	Atharva



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Founder President: Shri Rambhau Moze

Attendance of Hyderabad Industrial Visit to ISRO NRSC

2nd - 6th February, 2024

Academic Year: 2023-24

Year: SE, TE & BE

Department: E&TC

Sr. No.	Name of Student	Year	Sign				
			02/02/24	03/02/24	04/02/24	05/02/24	06/02/24
1	Harshada Sanjay Patil	S.E.	✓	✓	✓	✓	✓
2	Komal Ambadas Shinde	S.E.	✓	✓	✓	✓	✓
3	Gaurav Subhash Wankhade	S.E.	✓	✓	✓	✓	✓
4	Smruti Santosh Gate	S.E.	✓	✓	✓	✓	✓
5	Pranav Vinayak Pisal	S.E.	✓	✓	✓	✓	✓
6	Sneha Nitin Patil	S.E.	✓	✓	✓	✓	✓
7	Omkar Digambar Bisale	S.E.	✓	✓	✓	✓	✓
8	Shravani Shivaram Kumbhar	S.E.	✓	✓	✓	✓	✓
9	Chetana Sanjay Bhiware	S.E.	✓	✓	✓	✓	✓
10	Shital Satish Bhosale	S.E.	✓	✓	✓	✓	✓
11	Bhavna Sanjay Gaikwad	T.E.	✓	✓	✓	✓	✓
12	Akanksha Kisan Jadhav	T.E.	✓	✓	✓	✓	✓
13	Atharva Kisan Jadhav	T.E.	✓	✓	✓	✓	✓
14	Aditya Gajanan Garde	T.E.	✓	✓	✓	✓	✓
15	Krushna Prabhakar Kandekar	T.E.	✓	✓	✓	✓	✓
16	Divya Chandrakant Patil	T.E.	✓	✓	✓	✓	✓
17	Shweta Subhash Kharche	T.E.	✓	✓	✓	✓	✓
18	Harshad Santosh Nimse	T.E.	✓	✓	✓	✓	✓
19	Sneha Shuklakumar Wakade	T.E.	✓	✓	✓	✓	✓
20	Juili Pradeep Vyas	B.E.	✓	✓	✓	✓	✓



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Founder President: Shri. Bannabhai Moze

21	Shubham Anil Kusal	B.E.	✓	✓	✓	✓	✓
22	Vaishnavi Ajit Jadhav	B.E.	✓	✓	✓	✓	✓
23	Sagar Ambaji Bhosle	B.E.	✓	✓	✓	✓	✓
24	Sanket Vasant Pawar	B.E.	✓	✓	✓	✓	✓
25	Yash Johnson Bishwas	B.E.	✓	✓	✓	✓	✓
26	Rahulraj Sureshkumar Mahan	B.E.	✓	✓	✓	✓	✓
27	Rohini Pandharinath Patil	B.E.	✓	✓	✓	✓	✓
28	Umesh Balu Patil	B.E.	✓	✓	✓	✓	✓
29	Manisha Hanumant Mane	B.E.	✓	✓	✓	✓	✓
30	Pruthviraj Sujit Jadhav	B.E.	✓	✓	✓	✓	✓

Prof. Aishwarya Sankpal
(IV Coordinator)

Prof. Sushma N Patwardhan
(H.O.D, E&TC Dept.)

Sr. No.	Name of Student	Year	AGE	Student Contact Number	Parents Contact Number
1	Harshada Sanjay Patil	S.E.	19	8857920224	9623568112
2	Komal Ambadas Shinde	S.E.	21	9022611305	9881057687
3	Gaurav Subhash Wankhade	S.E.	19	9322631809	9922172439
4	Smruti Santosh Gate	S.E.	18	9503368627	8956518832
5	Pranav Vinayak Pisal	S.E.	20	9579806278	9657758220
6	Sneha Nitin Patil	S.E.	20	7083319333	9403392454
7	Omkar Digambar Bisale	S.E.	19	7709984574	9067234435
8	Shravani Shivaram Kumbhar	S.E.	19	9322716126	9881161179
9	Chetana Sanjay Bhiware	S.E.	20	7875641740	9326331212
10	Shital Satish Bhosale	S.E.	20	8468967067	9763973664
11	Bhavna Sanjay Gaikwad	T.E.	20	9075365621	9881356135
12	Akanksha Kisan Jadhav	T.E.	21	7756056053	9923751248
13	Atharva Kisan Jadhav	T.E.	15	7756056053	9923751248
14	Aditya Gajanan Garde	T.E.	19	7057868072	9527594381
15	Krushna Prabhakar Kandekar	T.E.	20	9322042350	9834569237
16	Divya Chandrakant Patil	T.E.	20	8788850481	9158193568
17	Shweta Subhash Kharche	T.E.	20	7387722397	9767025150
18	Harshad Santosh Nimse	T.E.	21	8830618889	9892224174
19	Sneha Shuklakumar Wakade	T.E.	20	8378936964	9075227877
20	Juili Pradeep Vyas	B.E.	23	7517524387	9403853277
21	Shubham Anil Kusal	B.E.	22	8999832551	7030807812
22	Vaishnavi Ajit Jadhav	B.E.	23	7559344604	9850344604
23	Sagar Ambaji Bhosle	B.E.	21	7974448269	9755176527
24	Sanket Vasant Pawar	B.E.	23	8308116978	7620942242
25	Yash Johnson Bishwas	B.E.	23	8698003355	9923883754
26	Rahulraj Sureshkumar Mahan	B.E.	23	9130889691	9881794720
27	Rohini Pandharinath Patil	B.E.	23	9130549814	8975658298
28	Umesh Balu Patil	B.E.	23	7350539016	9960640143
29	Manisha Hanumant Mane	B.E.	27	9076126089	9503942760
30	Pruthviraj Sujit Jadhav	B.E.	22	9403727901	7841092369

G S Moze College of Engineering, Pune IV ITERNARY PLAN Visit Manage by Rainbow Events & Tour, Pune - 9975922768 Hyderabad NRSC Industrial Visit		
TRAVEL DATE -	02nd Feb 2024 - 06th Feb 2024	5 DAYS
DAY 1 02nd Feb 2024	TRAVEL - Pune To Secunderabad DEPT - 3:30PM BOARDING AT - Hadapasar Station	No Meal
DAY 2 03rd Feb 2024	Check in to Hotel Jaya International, Abid after arrival at Secunderabad at 3:30 AM	Breakfast
7:30-8:00	Breakfast at Hotel	Travel by Bus
8:00AM -12:30PM	Golkonda Fort	Lunch break at 12:30-1:30
1:30-3:00	Salar Jung Measum	
3:30-5:00	Birla Temple	
5:30- 8:00	Husain Sagar & NTR Garden	
	Stay at Hotel, Hyderabad	Dinner
DAY 3 04th Feb 2024	Places visit- Visit full Day at Ramoji Film City	Breakfast
09:00AM -6:00PM		Lunch at Ramoji
	Stay at Hotel, Hyderabad	Dinner
DAY 4 05th Feb 2024	Checkout from Hotel at 8:30 AM Places visit-	Breakfast
09:00- 12:30	NRSC Industrial Visit	Lunch break at 12:30-1:30
01:30-3:00	Snow World	
03:30-6:30	Charminar and Local Shopping	
7:30 pm	DROP TO - Secunderabad Junction for return Journey to Pune	Packed Veg Biryani at 8:30 PM
DAY 5 06th Feb 2024	Train will arrive at Pune Station by 10:30 AM	No meal

* Lunch, Entry fees and other than mentioned above will be towards individuals

* Visit Spots may change/drop based on time managed by client



“ EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE ”
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

S. No. 25/1/3, Balewadi, Pune – 411 045

(Approved by AICTE and Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University)

DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph: 020-27390500 Website: www.gsmozece.org Email: gsmoze@yahoo.co.in

Founder President: Shri Rambhau Moze

DEPARTMENT OF E&TC ENGINEERING

Industrial Visit Report – 05/02/2024

**ISRO National Remote Sensing Center (NRSC),
Hyderabad**

Industrial visit was scheduled to ISRO National Remote Sensing Centre (NRSC), with 30 students of SE, TE & BE of E&TC department along with 3 faculty members (Prof. Sushma Patwardhan, Prof. Aishwarya Sankpal & Prof. Harshalata Toke) on 5th February, 2024 by taking the permission of College Principal and of centralized Outreach Facility for NRSC.

We reached the ISRO National Remote Sensing Centre (NRSC) Outreach Facility, Jeedimetla, Hyderabad at 9.30 AM on 5th February, 2024. We were guided by the NRSC Outreach team towards Conference Room. The Expert Dr. Ganesh from NRSC gave a presentation and explained the students about all the theoretical and practical approaches towards NRSC of ISRO. Also, the videos regarding same were shown which made students understand even better.

Students enjoyed, learned and understood more after visiting the exhibition arranged by ISRO NRSC. The models and live streaming from different satellite stations from various campuses was shown and explained.

National Remote Sensing Centre (NRSC) is one of the primary centers of Indian Space Research Organization (ISRO), Department of Space (DOS). NRSC has the mandate for establishment of ground stations for receiving satellite data, generation of data products, dissemination to the users, and development of techniques for remote sensing applications including disaster management support, geospatial services for good governance and capacity building for professionals, faculty and students.

NRSC operates through multiple campuses to meet national and regional remote sensing data and applications needs of the country.

- Main Campus at Balanagar, Hyderabad for Administration, Remote Sensing Applications and Aerial Services
- Outreach facility at Jeedimetla in Hyderabad for providing training for professionals, faculty and students and for general outreach.



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- NRSC operates through multiple campuses spread across the country with main campus at Balanagar, Hyderabad, and other campuses at (1) Shadnagar, Ranga Reddy district. (2) Jeedimetla-Hyderabad,(3) Aircraft operations facility at Begumpet airport and Five Regional Centres covering different regions of the country (a) Regional Centre-West at Jodhpur, (b) Regional Centre-North-New Delhi, (c) Regional Centre-East at Kolkata, (d) Regional Centre-Central at Nagpur (e) Regional Centre-South-Bangalore.

NRSC is the nodal centre for hosting Satellite Data Products from more than 13 IRS satellites right from the first IRS optical mission namely IRS-1A and SAR imaging missions. Satellites are primarily tasked to cover India and surroundings in a programmatic manner or on-demand as required by user as per mission capability. NRSC also acquires and archives data of global regions for disasters, calibrations and specific studies. Near real time data products from IRS weather sensors is delivered for climate and weather models for a global coverage. Georeferenced, Orthokit, Orthorectified products are provided in standard formats like Geotiff, HDF. Customized value added products are generated based on the requirements from the user for large AOI.

NRSC Data archive is extensively utilized for Land use land cover monitoring, Ocean studies, weather applications and scientific research. The Government agencies, industries and academia is highly benefiting by the valuable huge data products archive and technology to meet their respective end objectives.

NRSC acquires, processes and disseminates data acquired by several foreign satellites to enable users to get products with a faster turnaround time for near real time applications and for adequate coverage for programmatic applications in Indian region. Foreign missions data products can be supplied either from NRSC archives or by procuring data products from foreign vendors.

NRSC / ISRO in collaboration with State remote sensing applications centres has generated database on natural resources and other thematic information. These databases are hosted on Bhuvan portal under thematic services. Bhuvan-Thematic Services facilitate the users to select, browse and query the thematic datasets from this portal. Users can consume these thematic maps and integrate into their systems as OGC Web Services.

Certainly, the Industry Visit to ISRO National Remote Sensing Centre (NRSC) Outreach Facility, Jeedimetla, Hyderabad helped students to understand more about satellites and made their Remote Sensing concepts clear.



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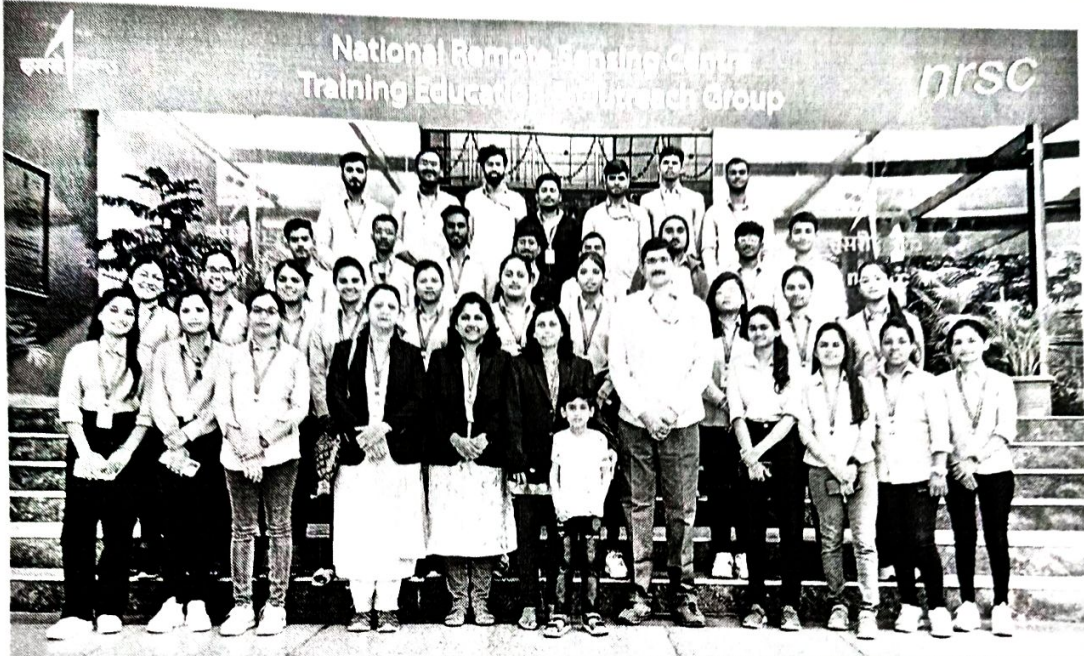
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G S Moze College of engineering, Balewadi, Pune.
Students Visit on 5th Feb, 2024



Hyderabad, Telangana, India

4, Shapur Nagar Main Rd, Opposite Sub Station, Phase 1, IDA Jeedimetla, Chinthal, Jeedimetla,

Hyderabad, Telangana 500055, India

Lat 17.522873°

Long 78.44572°

05/02/24 10:07 AM GMT +05:30



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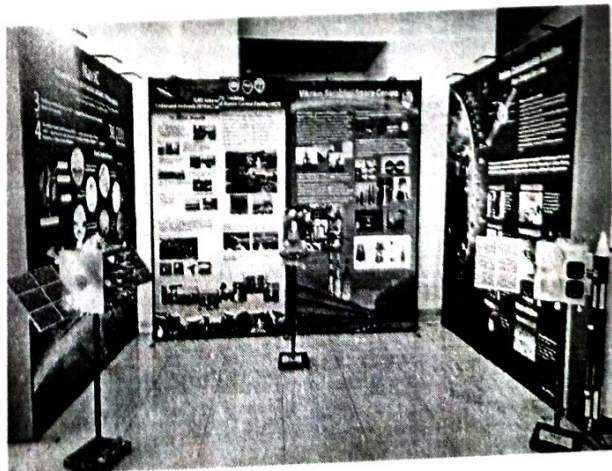
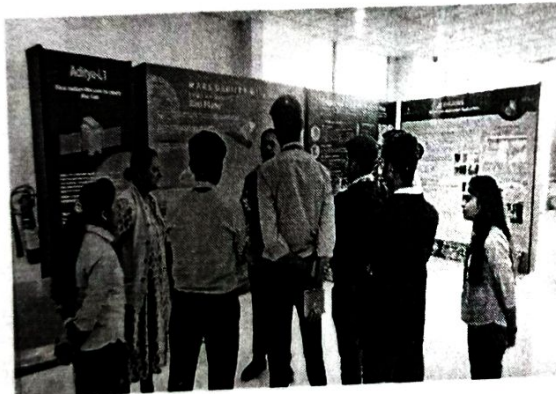
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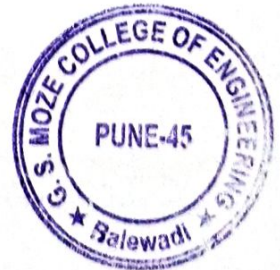
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Founder President: Shri Rambhau Moze



Ashwini S.
Prof. Aishwarya Sankpal
(IV Coordinator)

Sushma S.
Prof. Sushma S. Patwardhan
(H.O.D. E&TC Dept.)
Head of the Department
Electronics & Telecommunication Engg.
Genba Sopanrao Moze College of Engg.
Balewadi, Pune - 411 045.

Ratnaraj
Dr. Ratnaraj kumar Jambhi
Principal
PRINCIPAL
Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045



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Founder President: Shri RambhauMoze

DEPARTMENT OF INFORMATION TECHNOLOGY



"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"
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Ph. : 020-29513395 Website : www.gsmozecoe.org Email : gsmoze@yahoo.co.in

Founder President : Shri. Rambhau Moze

Ref. No. : *GSMCOE/Admin/159/2023.*

Date : *01/04/2023*

To,
Mr. Syed Noor Basha,
Startup Mentor, Deshpande Startups, Hubli
Karnataka, India.

Dear Sir,

Subject: Seeking the permission to visit your Esteemed Organization - Reg.

Greetings from Genba Sopanrao Moze College of Engineering, Balewadi, Pune, Maharashtra.

The G S Moze College of Engineering - GSMCOE, is a premier Engineering College with more than 15 years supporting the cause of value based education offering Education ranging from Under Graduate Programme to Post Graduate Programme including Management & Engineering. The main vision of GSMCOE is to impart quality technical education, moral values, social concern & patriotism to the students and mould them into excellent professionals and credible citizens.

As a part of the curriculum of Final year students, the Industrial visit is mandatory so as to provide them with the real insight of the working procedure of an esteemed organization like yours and fulfill the curriculum demand. The curriculum insists to feed a startup idea & to encourage students to become an Entrepreneur.

We request you to permit our Information Technology students to visit your Organization. Kindly accord us the permission to visit your Organization for a team of 55(50 students + 05 faculties) on 27/04/2023 at 9.30am.

Thanking you,

Hoping for positive Anticipation,

With Warm Regards,

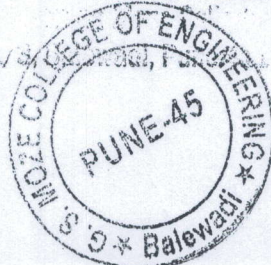
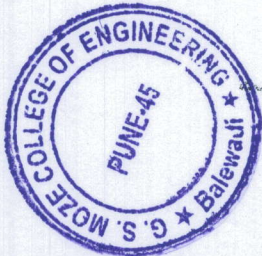
For further communication, kindly contact - Ms. Kaveri B. Kari, Asst. Professor, Dept. of IT
(kari.kaveri3@gmail.com Mob: 8884169264).

Kari
Prof. Kaveri B, Kari
IV Co-ordinator

Sana
Prof. Sana Shaikh
Head of Department
Information Technology

Ratnaraja
Dr. Ratnaraja Kumar Jambi
Principal, GSMCOE
PRINCIPAL

Genba Sopanrao Moze College of Engg
25/1/3, Balewadi, PUNE-411 045



Dear sir, I am herewith sending the request letter to get the permission to visit your organisation. The scanned document is attached along with this mail. Please

Apr 3, 2023, 10:21AM

Syed Noor Basha <syednoor.basha@dfmail.org>
to Rakesh, Rakshit, Amrut, me

Dear Kaveri,

Thank you for your interest in visiting our incubation center. We are pleased to inform you that we accept your request, and we look forward to welcoming you and your group on 27th April 2023.

Our incubation center is dedicated to promoting innovation and providing a platform for budding entrepreneurs to develop their ideas into successful businesses. During your visit, you will have the opportunity to explore our state-of-the-art facilities and interact with our experienced mentors.

In order to facilitate a smooth visit, we kindly request that you bring your student ID cards with you. This will help us to ensure that only authorized visitors are allowed access to our facilities, & also Photography and videography are permitted within our facility.

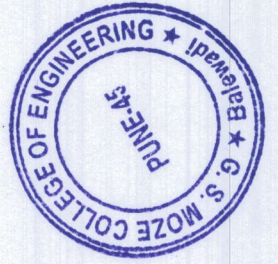
Please note that our availability is limited to the date mentioned above. However, if you have any special requirements or requests, please feel free to let us know, and we will do our best to fulfill them.

We look forward to meeting you and your group on 27th April 2023. If you have any further questions or concerns, please do not hesitate to contact us.

With regards

Syed Noor Basha

Executive
YUVA Entrepreneurship Program



Compose

Inbox

Starred

Snoozed

Important

Sent

Drafts

Categories

More

Labels

kaveri keri 1

kaveri.keri@setle... 1

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Personal



“Empowerment through Technological Excellence”

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ENGINEERING**

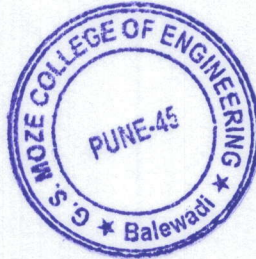
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Date: 15/03/2023

NOTICE

All the students of TE & BE, IT are hereby informed that our department is organizing an Industrial Visit to Deshpande Startups, Hubli, Karnataka on 27/04/2023 as a part of Academics(Startup & Entrepreneurship-414453). The amount to be paid for the visit is Rs. 5300/- which includes Travelling, Food & Accommodation. Interested students can fill the Google form through the link shared on your official Whatsapp groups on or before 17/03/2023. The detailed time table of the visit will be shared soon.

Kaveri B Kari
IV Coordinator



Sana Shaikh
HOD, IT

Department of Information Technology
Genba Moze College of Engg
25/1/3, Balewadi, Pune-411 045.



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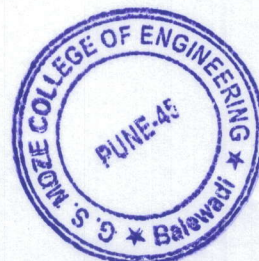
Date: 02/05/2023

Industrial Visit Report 2022-23(Deshpande Startups, Hubballi)

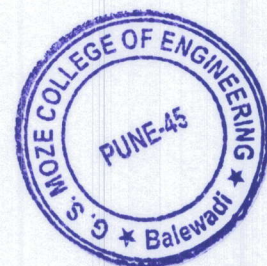
On 27th April 2023, Department of Information Technology had organized an Industrial Visit for 6th & 8th semester IT students as a part of their curriculum for the Subject “Startup & Entrepreneurship-414453(BE,IT)”. Students were accompanied by four faculties (Prof. Kaveri B. Kari, Prof. Swati Gaikwad & Prof. Sana Shaikh & Prof. Ketaki Katre) of IT Department. The visit was planned to Deshpande Startups, Hubballi, Karnataka. The Visit was organized by Prof. Kaveri B. Kari.

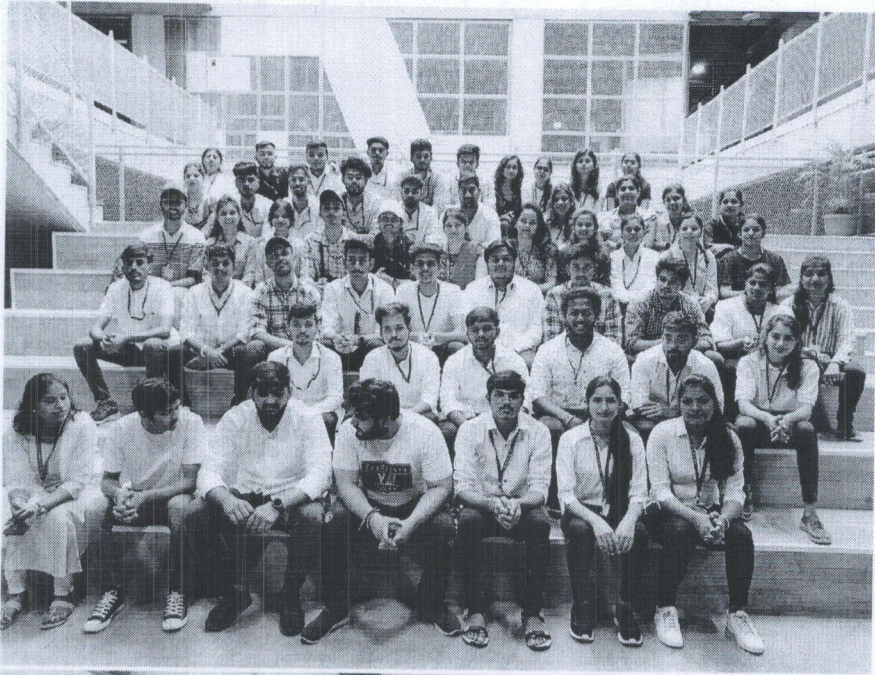
The journey started on 26th April at 6:30 am by a private bus booked for the visit. We reached Hubballi on 26th April at around 8:30 pm. We went to Shri Siddharoda Ashram at Hubballi where we stayed and started our journey to Deshpande Startups on 27th April. We reached the Startups by 9:30 am where after a few formal security checks were done & then we were let inside. The slot for the visit was from 9.30am to 11.30am which was pre-specified in the mail during communication. Mr. Syed Noor Badsha (Sr. Scientist, Deshpande Startups) guided us by showing the Incubation center giving a complete idea of Entrepreneurship. Sir demonstrated the working of various machines. They explained the importance of precise cutting & surface finishing of the jobs. He showed us the way of making of plastic objects using “Injecting Techniques” of plastic. Being an Entrepreneur Sir explained the management of manpower & machines. Sir explained the different courses offered by training sections. Sir had taken us to various labs for showing the real time working of all streams including Software (Computer, Electronics) & Hardware (Mechanical & Civil). After the session we left the place and started our journey back to GSMCOE, Pune, Maharashtra.

This one day of industrial visit enriched our knowledge and helped us to know more about Entrepreneurship & various challenges to go for a Startup. It gave students an idea of how Government aids Entrepreneurs. It made our students to think in a different way to build their career instead of just seeking a job.



Some Glimpses of the visit.



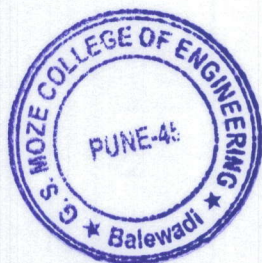


Kaveri B. Kari

Kaveri B. Kari
IV Coordinator

Sanjay

Head of Department
Information Technology
Genba Sopan 30 1078 Mark f Engg.
25/1/3, Balewadi, Pune-411 045.



GSMCOE, Balewadi, Dept. of IT

Details of students to Industrial Visit (AY:2022-23)

Deshpande Startups, Hubli, Karnataka

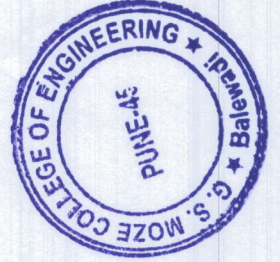


Sr. No.	Student Full Name:	Gender	Contact No.	Email id	PRN	Signature
1	Bankar Rohan Ganesh	Male	7887342480	rohanbankar041@gmail.com	72024833H	
2	Nikita Santosh Deore	Female	9373390035	nsdeore2000@gmail.com	72163826M	
3	Rushikesh Haridas Phapale	Male	7448138466	phapalerushikesh698@gmail.com	72024899L	
4	Mitali shailesh Ovhal	Female	9511622686	ovhalmitali25@gmail.com	72163827K	
5	Pranali Chhagan Shinde	Female	9921182995	pranalishinde2002@gmail.com	72163839C	
6	Samruddhi Bansod	Female	9011611133	samruddhibansod1133@gmail.com	71909015G	
7	Are Pooja Bhima	Female	8600681570	pooja11are@gmail.com	72163804L	
8	Madhuri Pawar	Female	9112683793	madhuri121@gmail.com	72163832F	
9	Shruti Jagdish Gorde	Female	9307446188	shrutigorde121@gmail.com	72027151aF	
10	Gaurav kalge	Male	9075902838	kalagegaurav@gmail.com	72163817B	
11	Namdev Raghunath Jedgule	Male	8669586311	jedgulenamdev@gmail.com	72024861C	
12	Nikita Subhash Bankar	Female	8459175530	nikitabankar92000@gmail.com	72909084k	
13	Swaraj Mirajkar	Male	9615596061	swaraj742000@gmail.com	72163823G	
14	Rutvik Sutar	Male	8788030324	rutviksutar02@gmail.com	72163836J	
15	Ashish Sopan Bhatkal	Male	7020546495	ashishbhatkal7@gmail.com	72163807E	
16	Omkar vikas sutar	Male	9529282409	om.sutar701@gmail.com	:72163841E	
17	Sanjana Aher	Female	9529630926	sanjanaaaher2000@gmail.com	71909007F	
18	Yogesh kaudare	Male	7387773897	yogeshkaudare24@gmail.com	72163819J	
19	Kalyani Dnyaneshwar Gosavi	Female	9370631515	kalyanigosavi@gmail.com	72163812M	
20	Nikita Rajendra Phad	Female	9607697644	nikitaphad2020@gmail.com	72024898B	
21	Nikhil Nikam	Male	7249390305	nikamnikhil003@gmail.com	72163825C	
22	Suraj Mahendra Patil	Male	8308539993	suraj_patil194227@gmail.com	72024921L	
23	Shweta pramod narkhede	Female	8308097168	shwetanarkhede99@gmail.com	71909083M	
24	Hanumant Bamdale	Male	7888260303	hansbatil5252@gmail.com	72163806G	
25	Shivani Sunil Sarode	Female	9763760608	shivani242sarode@gmail.com	72146657F	
26	Brijesh Vivek Gadewar	Male	7378446183	brijeshgadewar99@gmail.com	72291290M	
27	Pranali Pravin Suryawanshi	Female	9607389613	suryawanshipranali489@gmail.com	72146735M	

28	Tanuja Pandit Mukane	Female	7517882365	tanujapmukane@gmail.com	72146678J	
29	Dipti Bhanudas Patil	Female	9075230998	diptipatil1502@gmail.com	72146693B	
30	Vaibhav Anil Dhaigude	Male	9921349638	vaibhavdhaigude46@gmail.com	72146741F	
31	Prachiti Purushottam Pagar	Female	9028480738	prachiti1503@gmail.com	72146686K	
32	Arpita Gorkshmath Agale	Female	9834434385	agalearpita@gmail.com	72146602J	
33	Sukanya Pravin Nimbalkar	Female	8625967283	nimbalkarsukanya02@gmail.com	72146684C	
34	Darshan Raghunath Raut	Male	8080139587	darshan.raut@gmail.com	72024906G	
35	Shivam Shilamkar	Male	7040379520	shilamkarshivam43@gmail.com	:72163838E	
36	Atharv Balu Kore	Male	9545181125	atharva.kore900@gmail.com	72146658D	
37	Tejas Tarole	Male	8446628994	tejastarole.8@gmail.com	72146737H	
38	Janak Sonare	Male	82088140886	janaksonare27@gmail.com	72146732G	
39	Aniket Sanjay Wani	Male	8149459798	wanianiket12@gmail.com	72146750E	
40	Abhay Suresh Varkad	Male	7620986308	varkad.abhay2002@gmail.com	72146744L	
41	Om koli	Male	9021393983	koliomdinkar@gmail.com	72291305C	
42	Shashwat Sharma	Male	9158123393	sash.07@gmail.com	72178394F	
43	Omkar Mangnale	Male	8378949015	mangnaleomkar110@gmail.com	72024886J	
44	Uday Patre	Male	8975644510	udaypatre229@gmail.com	72163831H	
45	Shivam Khandare	Male	8605435288	khandarshivam28@gmail.com	72024874E	
46	Nihal Kazi	Male	9518992667	nihalkazi227@gmail.com	72024871L	
47	Aghav Shiriram	Male	7741828441	Shriramaghav@gmail.com	72163803B	
48	Rutvik Kabre	Male	7058195853	2000rutwikkabre@gmail.com	72163816D	
49	Dhananjay Kingre	Male	7620283657	dhananjaykingre235@gmail.com	72024877K	
50	Arti Kalegar	Female	7058266840	abkalegar@gmail.com	72024868L	

Kaveri B. Kari
IV Co-ordinator

Sana Shaikh
HOD, IT



Head of Department
Department of Technology
G. S. MOZE COLLEGE OF ENGINEERING
Pune-45, Batewadi, Pune-411 045.



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**GENBA SOPANRAO MOZE
COLLEGE OF ENGINEERING**

(Recognized by AICTE, New Delhi; Approved by Govt. of Maharashtra; Affiliated to Pune University
25/1/3, Balewadi, Pune – 411045, Ph: 020-27390500 Website: www.gsmozecoe.co.in

Date: 03/01/2022

To,
The Director,
Logipool Infotech,
Warje, Pune,
Maharashtra, India.

Subject: Seeking the permission to visit your Esteemed Organization.

Dear Sir,

Greetings from Genba Sopanrao Moze College of Engineering, Balewadi, Pune, Maharashtra. The G S Moze College of Engineering - GSMCOE, is an Engineering College with more than 10 years supporting the cause of value based education offering Education ranging from Under Graduate Programme to Post Graduate Programme including Management & Engineering. The main vision of GSMCOE is to impart quality technical education, moral values, social concern & patriotism to the students and mould them into excellent professionals and credible citizens.

As a part of the curriculum of Third & Final year students, the Industrial visit is mandatory so as to provide them with the real insight of the working procedure of an esteemed organization like yours and fulfill the curriculum demand. The curriculum insists to feed a startup idea & to encourage students to become an Entrepreneur.

We request you to permit our Information Technology students to visit your Organization. Kindly accord us the permission to visit your Organization for a team of 65(62 students + 03 faculties) as per your convenience. We Hope for positive Anticipation.
Thanking you.

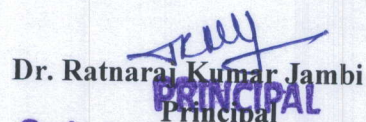


Ketaki Katre
IV Coordinator

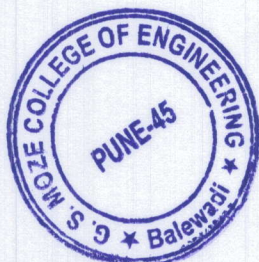


Sana Shaikh
HOD, IT

**Head of Department
Information Technology
Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, Pune-411-045.**


Dr. Ratnaraj Kumar Jambhi
Principal

**Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, PUNE-411 045**





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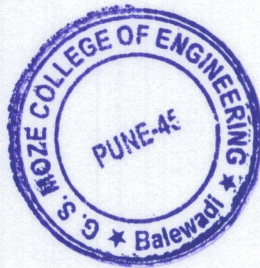
Date: 10/01/2022

NOTICE

All the students of BE, IT are hereby informed that our department has organized an Industrial Visit to “Logipool Infotech”, Warje, Pune from 17/01/2022 to 19/01/2022. The amount to be paid for the visit is Rs. 1200/- which includes Travelling and Food. Interested students can fill the Google form through the link shared on your official Whatsapp groups on or before 12/01/2022.

**Ketaki Katre
IV Coordinator**

**Sana Shaikh
HOD, IT
Head of Department
Information Technology
Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, Pune-411-045.**





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Date: 20/01/2022

Department of Information Technology

Industrial Visit Report 2021-22(Logipool Infotech)

On 17th January 2019, the Department of Information Technology had organized an Industrial Visit for 8th semester IT students. Students were accompanied by three faculties (Prof. Ketaki Katre, Prof. Kaveri Kari, Prof. Sana Shaikh) of IT Department. The visit was planned to “Logipool Infotech”, Warje, Pune. The industrial visit coordinator was Prof. Prof. Ketaki Katre.

The industrial visit started on 17th January 2022 at 9:00 am by a private bus booked for the visit. Students had a great chance for learning and professional development with Logipool Infotech. Therefore, Students consider themselves as a very lucky individual as they got an opportunity to be a part of it. Students are also grateful for having a chance to meet so many wonderful people and professionals who led them through this industrial visit.

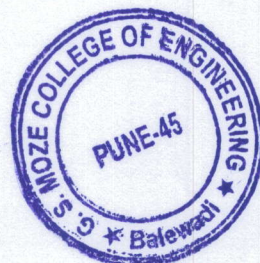
Logipool Infotech was established in 2018 with a vision to provide high-quality softwares in the field of Information Technology. Starting with a small team and a handful of students, Logipool Infotech embarked on a journey of knowledge-sharing and skill-building.

We express our deepest gratitude and special thanks to the Nikhil Patil sir an employee of Logipool Infotech who in spite of being extraordinarily busy with his duties, took time out to hear, guide and keep me on the correct path. We express my deepest thanks to Yashan Mehta sir the Director of the company for taking part in useful decision & giving necessary advices and guidance and arranged all facilities. We acknowledge his contribution gratefully.

It is our radiant sentiment to place on record our best regards, deepest sense of gratitude to Manager of the company Mr. Ashwin Singh and Abhishek Shelar employee of the company for their careful and precious guidance which were extremely valuable for Students study both theoretically and practically.

Students perceive as this opportunity as a big milestone in their career development. I will strive to use gained skills and knowledge in the best possible way, and they will continue to work on their improvement, in order to attain desired career objectives. Hope to continue cooperation with Logipool Infotech in the future.

This industrial visit enriched our knowledge and helped us to know more about software development.





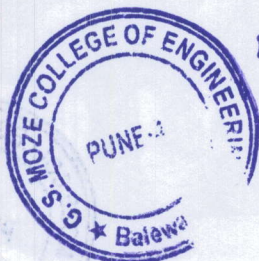
Katke
Ketaki Katre
 IV Coordinator

Sana
Sana Shaikh
 HOD, IT

Praveen
Dr. Ratnaraj Kumar Jambhi
 Principal

Head of Department
Information Technology
Genba Sopanrao
25/1/3, Balawadi, Pune - 411 045

Genba Sopanrao
25/1/3, Balawadi, Pune - 411 045



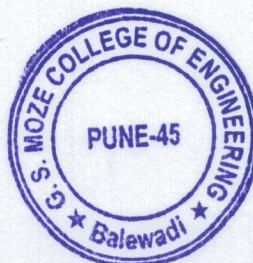


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**GENBA SOPANRAO MOZE COLLEGE OF
ENGINEERING**

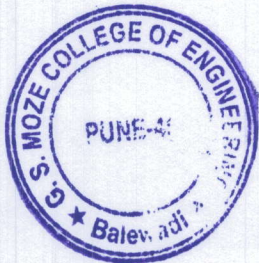
S. No. 25/1/3, Balewadi, Pune – 411 045
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DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999
Ph: 020-27390500 Website: www.gsmozece.org Email: gsmoze@yahoo.co.in
Founder President: Shri Rambhau Moze

**Department of Information Technology
Attendance**

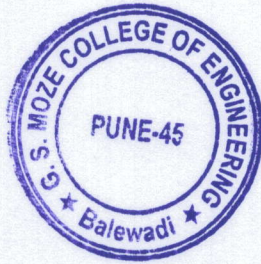
Sr. No.	Student Name	Signature
1	Tejal Vanaji Bangar	
2	Venkatrao Rammaya Bhnala	
3	Hrushikesh Santosh Chavan	
4	Akash Dasgupta	
5	Shivangi Pradeep Deshmukh	
6	Ketan Prasad Devasthali	
7	Gaurav Balu Ghadge	
8	Vaishnavi Rajendra Gurav	
9	Kite Tapasya Vijay	
10	Laghane Dhanashri Vishnu	
11	Chinmay Anil Limje	
12	Naman Keshav Pawar	
13	Vishwajit Satish Sayambar	
14	Anujkumar Yadav	
15	Mahadev More	
16	Pratik Ludhalkar	
17	Revathi	
18	Tanmay Sankpal	
19	Akash Pundlic Savle	
20	Pratiksha Rajendra Kapadnis	



Sr. No.	Student Name	Signature
21	Padamsinh padurang Khandagale	P.P.Khandagale
22	Tejaswini Uttam wakchaure	Wakchaure.T.
23	Renuka Vitthal Dhage	Dhage
24	Abhishek Yogesh taru	A.Taru
25	Harshali Anand Agarwal	H.A.Agarwal
26	Pranav Prakash Kenjale	P.P.Kenjale
27	Vaibhav Manohar Khandekar	Khandekar
28	Rishabh Shivanand Chopade	R.Chopade
29	Soniya Rajendra Binnod	Binnod
30	Shantanu Namdeorao Patil	S.N.Patil
31	Shriya Sudhir Satpate	S.S.Satpate
32	Akshay Sitaram wagh	Akshay
33	Abhishek Balaji Varpe	B.Varpe
34	Shreyas Shradrao Deshmukh	Deshmukh
35	Priyanka Sanjay Bhosale	Priyanka
36	Pratik Shreeram Thakare	Thakare
37	Pradnya Vasant Londhe	Pradnya
38	Shweta balu Kekade	Kekade-Shweta
39	Gauri Vilas Tupe	Gauri-Tupe
40	Akash Shalikram Wendole	Wendole
41	Rashmi Prakash Divekar	Divekar
42	Akanksha Keshav Varade	Akanksha
43	Nikita Govindrao Bhadsange	N.Bhadsange



44	Vaishnavi Sunil Kulkarni	V. Kulkarni
45	Mayuri gangadhar Menure	Menure
46	Shantanu Sanjiv Shelke	Shelke
47	Kunal Nemgonda Patil	Katil
48	Vaibhav Pradeep Pol	V. Pol
49	Aniket Sudhir Paluskar	Paluskar
50	Kiran Rajaram Munde	Munde
51	Sapana Laxman Nalla	Nalla
52	Sudarshan Pokale	Pokale
53	Akshada Vishnu Shingote	Shingote
54	Aniket Gorakh Jagtap	Jagtap
55	Adarsh Pandurang Bhenki	A. Bhenki
56	Pooja Milind Jadhav	Jadhav
57	Pratiksha Pradip Nimbalkar	P. Nimbalkar
58	Revati Gadgil	Gadgil
59	Dnyanesh Jadhav	Jadhav
60	Shubham Mahajan	Mahajan
61	Aarti Jinzad	Jinzad
62	Somnath Bhagwan Adagale	Adagale





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Date: 02/01/2019

To,
The Director,
Encryption Technology,
Karve Nagar, Pune,
Maharashtra, India.

Subject: Seeking the permission to visit your Esteemed Organization.

Dear Sir,

Greetings from Genba Sopanrao Moze College of Engineering, Balewadi, Pune, Maharashtra. The G S Moze College of Engineering - GSMCOE, is an Engineering College with more than 10 years supporting the cause of value based education offering Education ranging from Under Graduate Programme to Post Graduate Program including Management & Engineering. The main vision of GSMCOE is to impart quality technical education, moral values, social concern & patriotism to the students and mould them into excellent professionals and credible citizens.

As a part of the curriculum of Third & Final year students, the Industrial visit is mandatory so as to provide them with the real insight of the working procedure of an esteemed organization like yours and fulfill the curriculum demand. The curriculum insists to feed a startup idea & to encourage students to become an Entrepreneur.

We request you to permit our Information Technology students to visit your Organization. Kindly accord us the permission to visit your Organization for a team of 14(12 students + 02 faculties) as per your convenience. We Hope for positive Anticipation.

Thanking you.

S. Nawale

Sujit Nawale
IV Coordinator

Priyanka More

Priyanka More
HOD, IT

Head of Department

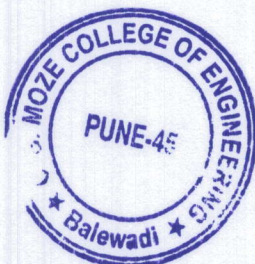
In: Encryption Technology
Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045

A. B. Auti

Dr. A. B. Auti
Principal

PRINCIPAL

Genba Sopanrao Moze College of Engineering
25/1/3, Balewadi, Pune-411045





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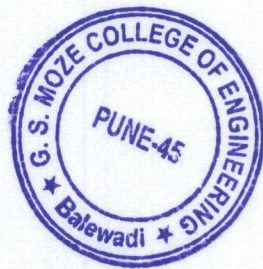
Date: 06/01/2019

NOTICE

All the students of SE, TE & BE, IT are hereby informed that our department has organized an Industrial Visit to “Encryption Technology”, Karve Nagar, Pune from 13/01/2019 to 15/01/2019. The amount to be paid for the visit is Rs. 1000/- which includes Travelling and Food. Interested students can fill the Google form through the link shared on your official Whatsapp groups on or before 10/01/2019.

S. Nawale

**Sujit Nawale
IV Coordinator**



Priyanka More

**Priyanka More
HOD, IT
Head of Department
Information Technology
Genba Sopanrao Moze College of Engg.
25/1/3, Balewadi, Pune-411-045.**



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Date: 16/01/2019

Department of Information Technology

Industrial Visit Report 2018-19(Encryption Technology)

On 13th January 2019, the Department of Information Technology had organized an Industrial Visit for 6th & 8th semester IT students. Students were accompanied by two faculties (Prof. Sujit Nawale, Prof. Poonam Desale) of IT Department. The visit was planned to “Encryption Technology”, Karve Nagar, Pune. The industrial visit coordinator was Prof. Prof. Sujit Nawale.

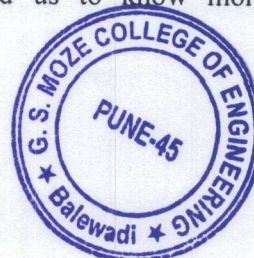
The industrial visit started on 13th January 2019 at 9:00 am by a private bus booked for the visit. Students had a great chance for learning and professional development with Encryption InfoTech. Therefore, Students consider themselves as a very lucky individual as they got an opportunity to be a part of it. Students are also grateful for having a chance to meet so many wonderful people and professionals who led them through this industrial visit.

Bearing in mind previous we express our deepest gratitude and special thanks to the Anand Parmar sir an employee of Encryption InfoTech who in spite of being extraordinarily busy with his duties, took time out to hear, guide and keep me on the correct path.

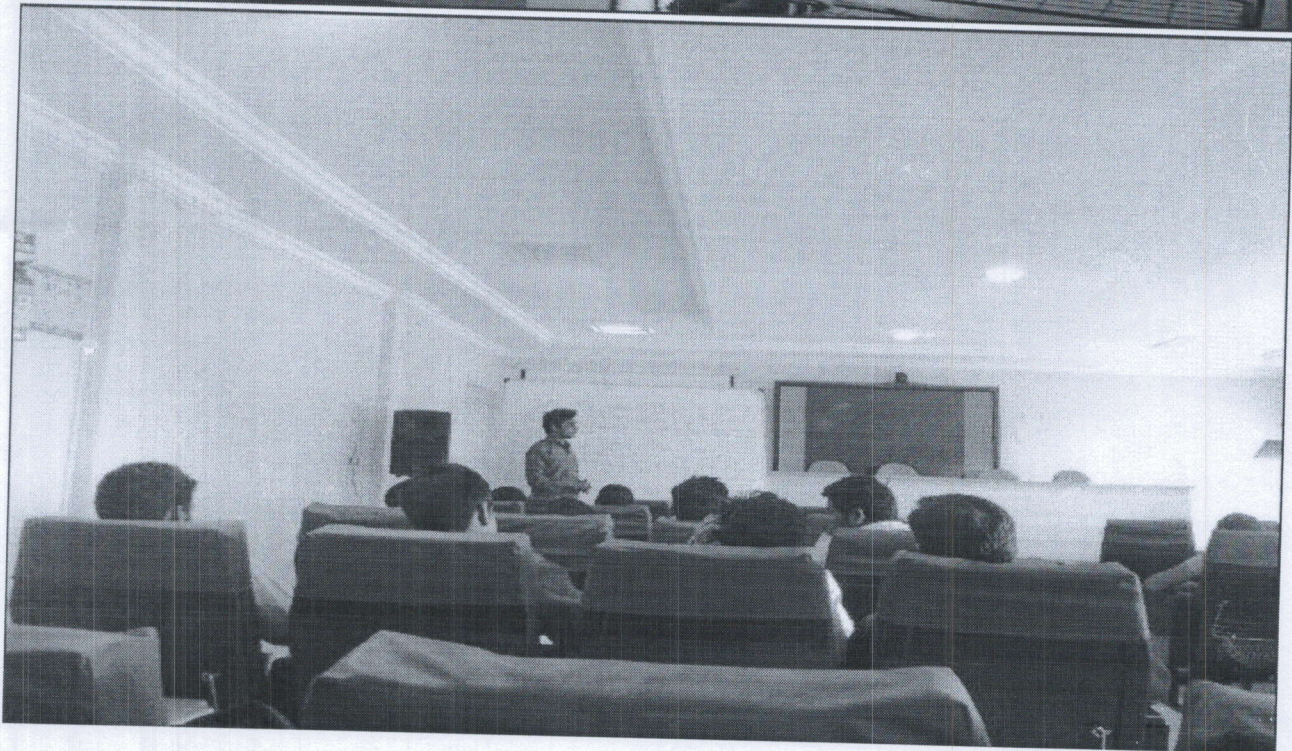
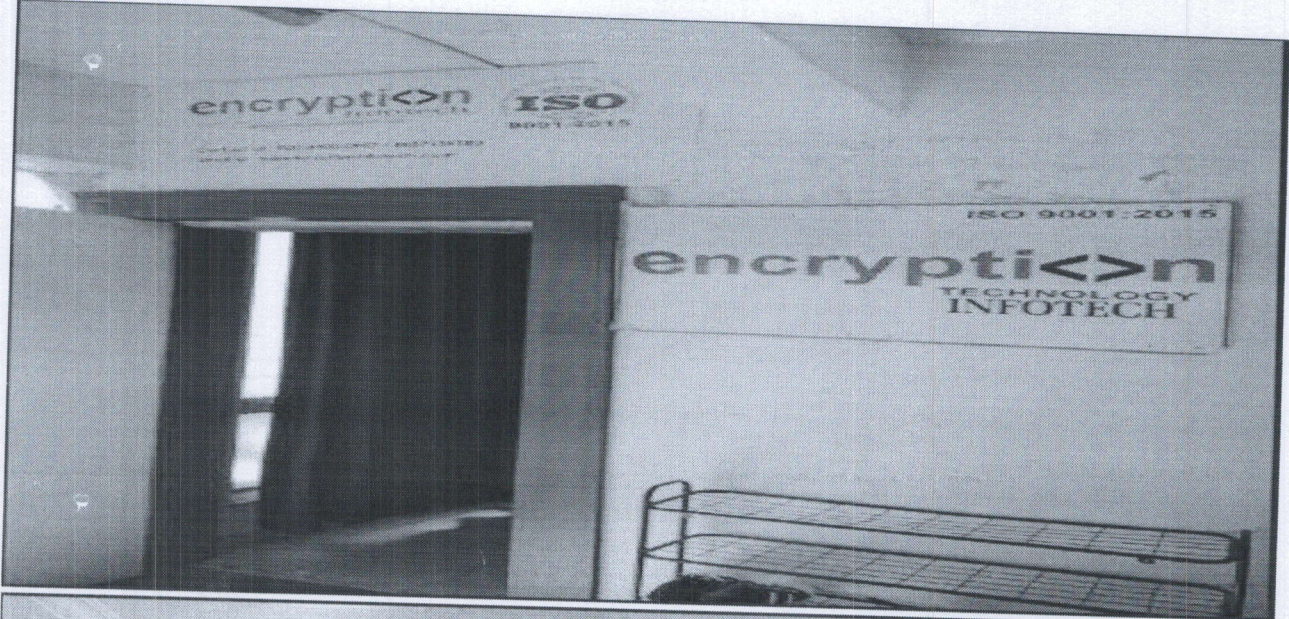
I express my deepest thanks to Avinash Mankar sir the Director of the company for taking part in useful decision & giving necessary advices and guidance and arranged all facilities. We acknowledge his contribution gratefully.

It is our radiant sentiment to place on record our best regards, deepest sense of gratitude to Manager of the company Mr. Jadhav Pandurang Mohite, and Mr. Anand Parma employee of the company for their careful and precious guidance which were extremely valuable for Students study both theoretically and practically. Students perceive as this opportunity as a big milestone in their career development. I will strive to use gained skills and knowledge in the best possible way, and they will continue to work on their improvement, in order to attain desired career objectives. Hope to continue cooperation with Encryption Technology in the future.

This industrial visit enriched our knowledge and helped us to know more about software development.



Some Glimpses of the visit.



S. Nawale

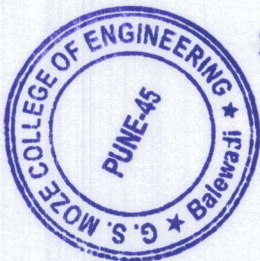
Prof. Sujit Nawale
IV-coordinator

P. More

Prof. Priyanka More
HOD

A. B. Auti

Dr. A. B. Auti
Principal



Head of Department
Info. Science Technology
Genba Sopanrao Moze College of Engg
25/1/3, Balewadi, Pune-411 045.

PRINCIPAL
Genba Sopanrao Moze College of Engg
25/1/3, Balewadi, PUNE-411 045



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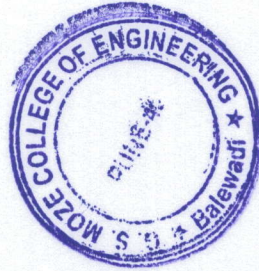
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

S. No. 25/1/3, Balewadi, Pune – 411 045
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DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999
Ph: 020-27390500 Website: www.gsmozece.org Email: gsmoze@yahoo.co.in
Founder President: Shri Rambhau Moze

Department of Information Technology

Attendance

Sr. No.	Student Name	Signature
1	Iyer Praharshita Srinivasan	P. Iyer.
2	Nimase Snehal Dattatray	Nimase
3	Neha Jankraj More	N. More
4	Gomes Francisco Santan	F.S. Gomes
5	Biswas Indira Nirmal	Biswas
6	Gothwal Mayuri Sunil	Gothwal
7	Bakale Ashwini Jalandar	Bakale
8	Sahajirao Pradnya Sangraj	Pradnya
9	Aarju Shaikh	Aarju
10	Bhole Shubham Mahesh	Bhole
11	Sharma Abhishek Virendra	Sharma
12	Mudgade Ajay Vaijinath	Mudgade





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Founder President: Shri RambhauMoze

DEPARTMENT OF MCA



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S. No. 25/1/3, Balewadi-Baner, Pune- 411 045

Approved by AICTE and Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University)

DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph: 020-29513395 Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in

Founder President: Shri. Rambhau Moze

Date 10/04/23

A Report on Industrial Visit

The MCA department of Genba Sopanrao Moze College of Engineering organized industrial visit to PubMatic India Pvt. Ltd. Baner Pune on 7th April 2023 for MCA first year students. The visit was coordinated by Prof Priyanka Yeole under the guidance of Prof. Mukta Deshpande (HOD-MCA). The travel started exactly at 1:30 pm from our college campus we reached the company around 2:00 pm. The industrial visit ended around 3:30 pm, and started back and reached college campus by 4:00 pm. The aim of this visit is that students have to get aware of company environment, working culture, meant to know the opportunities available with IT sector and prepare the students to meet the requirements of the IT industry. Focusing on future projects with SDLC (At PubMatic, we constantly push the boundaries of what's possible by leveraging our expertise, experience, and innovative ecosystem to empower enterprises, people, and communities to build a better Future, Faster).

- **Take away from the visit:**
- Students understood the company expectations.
- Students observed the real time working culture and enjoyed the infrastructure.
- Students got an idea on how to prepare themselves to build their career on software industry.

Prof. Priyanka Yeole expressed her thanks to the Team of PubMatic India Pvt. Ltd. for providing this wonderful opportunity and discussed about campus hiring, and workshops etc. Students and faculty coordinators expressed their special thanks and gratitude to HOD/MCA, Prof. Mukta Deshpande and Principal Dr. Ratnaraja Kumar Jambi for the permission and the support for this memorable industrial visit.

Overall session was fruitful. It was a very good interactive session. This visit helped us to bridge the gap between academics and industry to some extent” Aim to go beyond





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academics, industrial visits provide practical exposure about the functioning of various processes within an industry.





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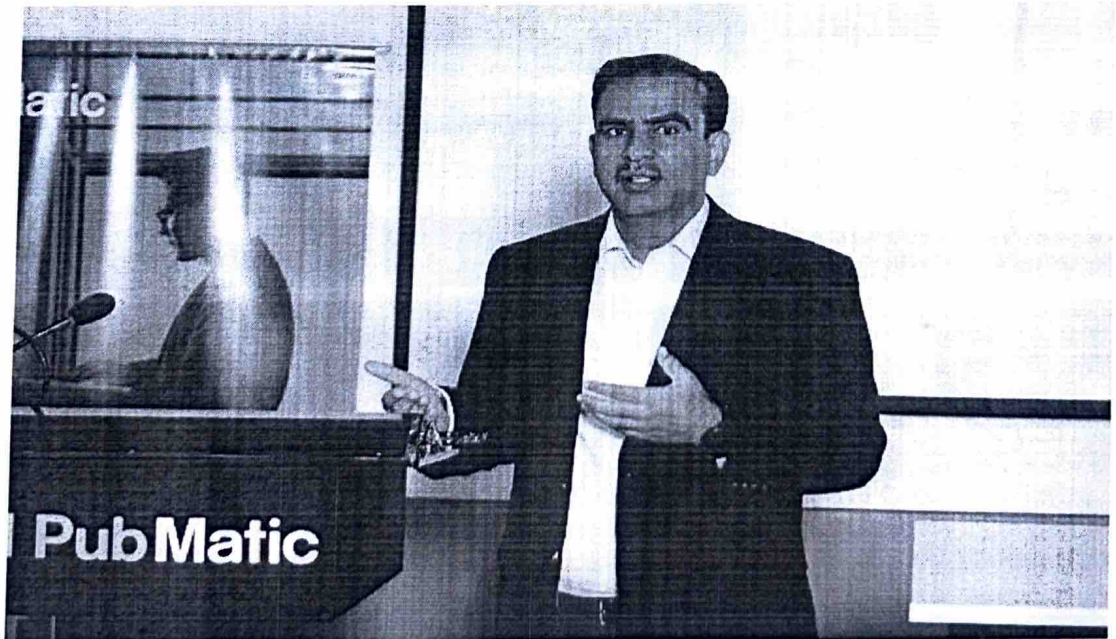
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GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

S. No. 25/1/3, Balewadi-Baner, Pune- 411 045

Approved by AICTE and Govt. of Maharashtra, Affiliated to SavitribaiPhule Pune University)

DTE Code - EN6144 University Affiliation ID - PU/PN/ENGG/138/1999

Ph: 020-29513395 Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in

Founder President: Shri. RambhauMoze





"EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE"

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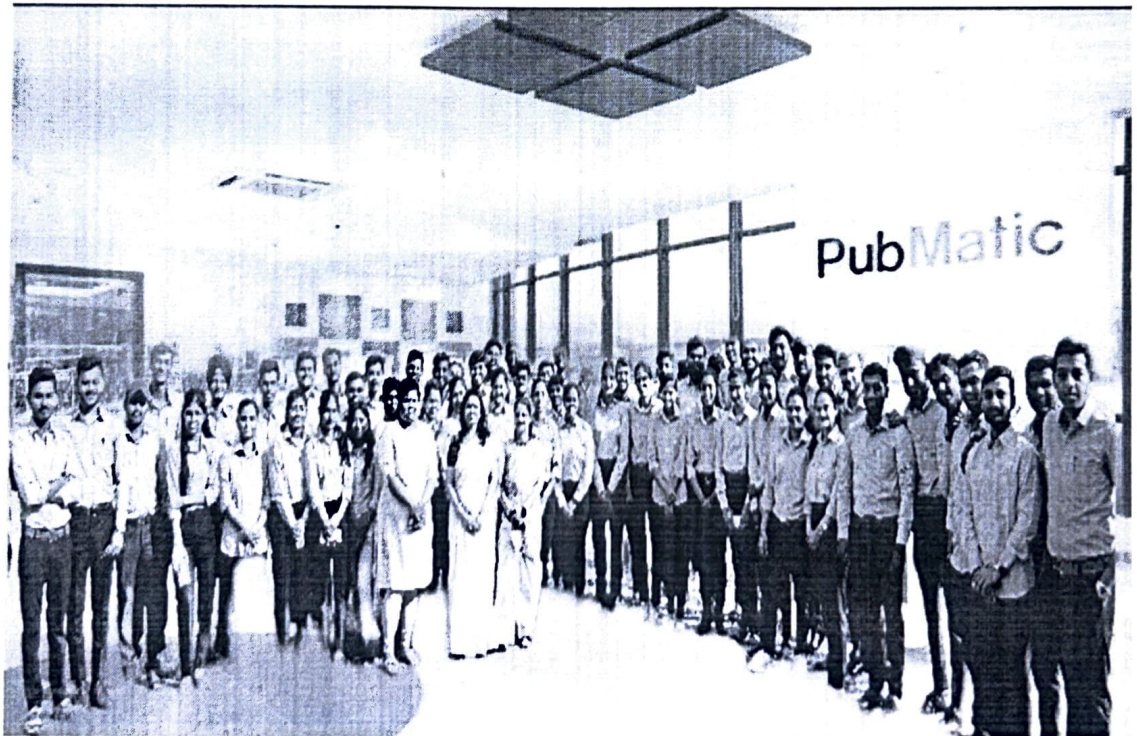
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Founder President: Shri RambhauMoze

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING



Date: 02/05/2023

Department of Computer Engineering

Industrial Visit Report 2022-23(Deshpande Startups, Hubballi)

On 27th April 2023, Department of Computer Engineering had organized an Industrial Visit for 6th & 8th semester students of Computer & IT as a part of their curriculum. Students were accompanied by four faculties of Computer (Prof. Neelam Jadhav) & IT Department. The visit was planned to Deshpande Startups, Hubballi, Karnataka. The Visit was organized by Prof. Kaveri B. Kari.

The journey started on 26th April at 6:30 am by a private bus booked for the visit. We reached Hubballi on 26th April at around 8:30 pm. We went to Shri Siddharoda Ashram at Hubballi where we stayed and started our journey to Deshpande Startups on 27th April. We reached the Startups by 9:30 am where after a few formal security checks were done & then we were let inside. The slot for the visit was from 9.30am to 11.30am which was pre-specified in the mail during communication. Mr. Syed Noor Badsha (Sr. Scientist, Deshpande Startups) guided us by showing the Incubation center giving a complete idea of Entrepreneurship. Demonstrated the working of various machines. They explained the importance of precise cutting & surface finishing of the jobs. He showed us the way of making of plastic objects using "Injecting Techniques" of plastic. Being an Entrepreneur Sir explained the management of man power & machines. Sir explained the different courses offered by training sections. Sir had taken us to various labs for showing the real time working of all streams including Software (Computer, Electronics) & Hardware (Mechanical & Civil). After the session we left the place and started our journey back to GSMCOE, Pune, Maharashtra.

This one day of industrial visit enriched our knowledge and helped us to know more about Entrepreneurship & various challenges to go for a Startup. It gave students an idea of how Government aids Entrepreneurs. It made our students to think in a different way to build their career instead of just seeking a job.



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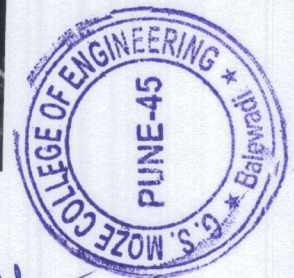


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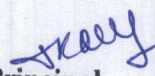
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Some Glimpses of the visit




Coordinator
Prof. Kaveri B. Kari


HOD
Prof. Bharti Kudale
Head of Department
COMPUTER ENGG.
Genba Sopanrao Moze College of Engg
25/1/3 Balewadi Pune-411 045


Principal
Dr. Ratnaraja Kumar Jambi

PRINCIPAL
Genba Sopanrao Moze College of Engg
25/1/3, Balewadi, PUNE-411 045



Academic Year 2022-23

Industrial Visit Attendance

Sr. No.	Name of Student	Signature
1	INGLE SHRIYASH SHRIKRISHNA	Ingle
2	AJABE SHUBHAM BALASAHEB	Shubham
3	AMEYA SUSHILKUMAR BHAWSAR	Bhawsar
4	ANISHA ANIL KHAMKAR	—
5	ANKITA	—
6	ATHARVA PRABHU	—
7	AYUSHI SAMIR PATIL	Ayushi
8	BAMMANI TUSHAR RAJSHEKHAR	Bammani
9	BHALERAO ABHISHEK MANOHAR	Bhalerao
10	BIBE VISHAL RAMDAS	Bibe
11	CHACHAR SANKET BHIMRAO	Chachar
12	CHAITANYA CHAVAN	Chavan
13	CHALWADI SUHAS SHIVSHARAN	Chalwadi
14	CHAVAN ABHIRAJ SURESH	—
15	DALVI JANKI JAYVANT	—
16	DALVI SANKET SANTOSH	Dalvi
17	DALVI TEJAS DATTU	Dalvi
18	DARWHEKAR CHAITANYA NANDKASHOR	Darwhekar
19	DESHMANE AJINKYA AVINASH	—
20	DESHPANDE RUSHIKESH VITTHAL	Deshpande
21	DEWASI BHOMARAM DEEPARAM	Dewasi
22	DHANASHREE PRADIP PATIL	Dhanashree
23	DIXIT SOHAN ABHAY	Dixit
24	DUKARE PANKAJ BABAJI	Pankaj
25	GADDAM THANUJA	—
26	GADE SHIVAM AJAY	Gade
27	GAIKWAD PRANALI JITENDRA	—
28	GAIKWAD VISHAL BHARAT	Gaikwad
29	GAURAV DATTATRAY PATIL	Gaurav
30	GAWADE MANSI SANDESH	Gawade
31	GAYATRI ARUN KHANDALKAR	Gayatri
32	GITE KARAN DATTARAO	Gite
33	GORE GAURAV SANJAY	Gore
34	HEMBADE SANSKRUTI VIKAS	—
35	INGLE ABHISHEK GULABRO	Abhi
36	JADHAV ATHARVA SUBHASH	Atharva



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37	JADHAV GAURI MAHESH	
38	JADHAV PALLAVI RAVINDRA	<u>Devi</u>
39	JAGTAP UTKARSH RAJARAM	<u>Geman</u>
40	JAVHERI PRAGATI PRAMOD	—
41	JAYESH SUNIL DUBALE	—
42	JOSHI ATHARVA MILIND	<u>Ami</u>
43	JOSHI MEGHANA UMESH	<u>Ashu</u>
44	KADAM GANESH VISHWAS	—
45	KADAM SONALI RAMESH	<u>Sonali</u>
46	KAMBLE SANDIP ANANT	<u>Sandip</u>
47	KAMBLE SHREYASH DHULIRAM	<u>Shreyash</u>
48	KAMBLE VISHWAJIT NAGNATH	<u>Vishwa</u>
49	KANSE SANKET SANJAY	—
50	KARISHMA CHOUDHARY	—
51	KAVERI RAGHAVENDRA DIWANJI	<u>Basit</u>
52	KENDRE DNYANESHWAR VENKATI	<u>Dnyanesh</u>
53	KETAN CHANDILE	<u>Venkati</u>
54	KHOLE SAYALI MUKUND	<u>Sayali</u>
55	KHUSHBU YOGESH PATIL	<u>Khushbu</u>
56	KOKARE SWARAJ ASHOK	<u>Ashok</u>
57	KOLAMBE TEJAS DNYANDEO	—
58	KONDHALKAR SAKSHI KIRAN	—
59	KSHITIJ RAMDAS BRAMHNE	<u>Ramdas</u>
60	MAHADIK DEEPANJALI VIKAS	<u>Vikas</u>
61	MAHESH RAMKISAN PAWALE	—
62	MATHE SAURABH RAJENDRA	<u>Saurabh</u>
63	MESHRAM VIBHAS MUKUND	<u>Vibhas</u>
64	MOMIN ARSHINA JAVED	<u>Javed</u>
65	MULLA SUMAYYA IRSHAD	<u>Irshad</u>
66	MULUK SAYALI SIDDHESHWAR	—
67	MUNDHE SANDHYA SUNIL	<u>Sunil</u>
68	NANGNURKAR VINAYAK JOTIBA	<u>Vinayak</u>
69	NANHORE SAMARTH NATTHU	<u>Samarth</u>
70	NAVGIRE GAURAV VIJAY	<u>Gaurav</u>
71	PALI WAL PRAMENDRA VAIBHAV	<u>Paliwal</u>
72	PANDIT SHUBHAM DATTATRAY	<u>Pandit</u>
73	PANSARE SHIFA ABDUL	—
74	PARIMAL DHAKE	—
75	PARTH RAJESHWAR KOMALWAD	<u>Parth</u>
76	PATIL ANKITA ANIL	<u>Ankita</u>



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77	PATIL KARAN RAVINDRA	—
78	PATIL TEJAL ANIL	—
79	PATIL TUSHAR VINOD	—
80	PATIL YASH SANJAY	—
81	POL MANASI TANAJI	—
82	POWAR SAGAR YASHWANT	—
83	PRATHMESH NITIN NARKHEDE	—
84	PRATIKSHA ABASAHEB KARANDE	—
85	PRIYA JYOTI	—
86	PUJARI SAMRAJYA GUNDAPPA	—


Coordinator

Prof. Kaveri B. Kari

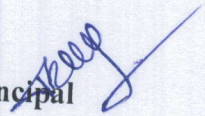


HOD

Prof. Bharti Kudale

Head of Department
COMPUTER ENGG.

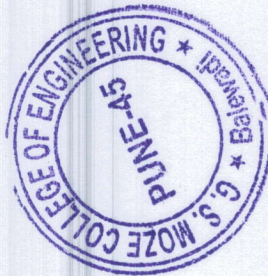
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Principal

Dr. Ratnaraja Kumar Jambi

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25/1/3, Balewadi, PUNE-411 045



Date: 20/02/2023

Department of Computer Engineering**Industrial Visit Report 2023-24**

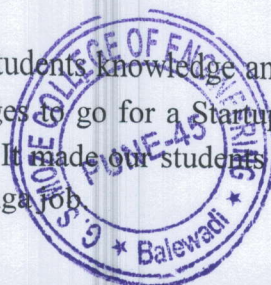
On February 15th, 2024, the Department of Computer Engineering at Genba Sopanrao Moze College of Engineering, located in Balewadi, Pune - 411045, orchestrated an Industrial Visit for 61 students enrolled in the SE, TE, and BE, as an integral part of their academic curriculum. Accompanying the students were three esteemed faculty members from the Computer Engineering Department: Prof. Ram Totkar, Prof. Rahul Kumar and Prof. Neelam Jadhav.

The destination of this educational excursion was Netsmartz House, situated in Chandigarh, Punjab. Prof. Neelam Jadhav was the driving force behind the organization of this enlightening visit, which aimed to provide students with practical insights and real-world exposure within the field of Computer Engineering.

The journey started on 14th Feb 2024 from Pune by Train to Delhi and then transferred to Chandigarh by private bus which was booked by Organizer. We reached Chandigarh on 15th Feb 2024 at around 12:30 pm. We have reached at Netsmartz House at Rajiv Ghandi IT Park, Chandigarh where after a few formal security checks were done & then we were let inside. Mr. Parth Gargish (Sr. Project Manager - Business & Technology) guided us by showing the business innovation & product delivery, as well as sales closures & Implementation of solutions on cloud environments.. They explained that Businessinnovation and efficient product delivery drive competitiveness and market relevance. Sales closures ensure revenue generation and sustained growth. Implementation of solutions on cloud environments enhances scalability, flexibility, and cost-effectiveness. All 61 students had learnt one can learn foundational principles of business innovation, product development methodologies, and sales strategies. Additionally, understanding cloud computing fundamentals, including deployment models and service types, is essential. Proficiency in project management practices and familiarity with relevant software tools further enriches one's skill set in this domain.

Being an Project Manager Sir explained the management of manpower & projects. Sir explained the different courses offered by training sections. Sir had taken us to training departments for showing the real time working of all streams of Softwares. After the session we left the place and started our journey back to GSMCOE, Pune, Maharashtra.

This industrial visit enriched students knowledge and helped them to know more about Technology & various challenges to go for a Startup. It gave students an idea of how Government aids Entrepreneurs. It made our students to think in a different way to build their career instead of just seeking a job.



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Glimpses of the visit

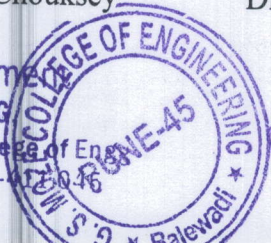


AK
Prof. Neelam Jadhav
Coordinator

P
Prof. Prateeksha Chouksey
HOD

Truly
Dr. Ratnaraja Kumar Jambhi
Principal

Head of Department
COMPUTER ENGG
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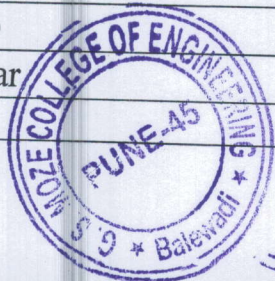
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25/1/3, Balewadi, PUNE-411 045



Academic Year 2023-24

Industrial Visit Attendance

Sr. No.	Name of Student	Signature
1	Omkar Shinde	Omkar
2	Aniket Shinde	Aniket
3	Zirape Swaranjali Rajkumar	Zirape
4	Mitali Milind Pise	Mitali
5	Sushant Vilas Jagtap	Sushant
6	Asawari Dileep Shingare	Asawari
7	Susmita pravin Soma	Susmita
8	Devesh Dhone	Devesh
9	Sanjana Shinde	Sanjana
10	Kotkar Pallavi Bharat.	Pallavi
11	Anushka Mangesh Chaudhari	Anushka
12	Ravina Digamber Meher	Ravina
13	Om Subhash Kate	Om
14	Vaishnavi Sanjay Magar	Vaishnavi
15	Pratik Vilas Jagdale	Pratik
16	Prajyot Maruti Malawade	Prajyot
17	Khushi Tushar Patil	Khushi
18	Srushti Prashant Patel	Srushti
19	Vaishnavi Tatyasaheb Patil	Vaishnavi
20	Sakshi Subhash Nikam	Sakshi
21	Atharva Sunil Patil	Atharva
22	Rushikesh Ravindra Kandurke	Rushikesh
23	Niranjan Ashok Kuldharan	Niranjan
24	Harshal Vardhman Kasliwal	Harshal
25	Mithali Thakur	Mithali
26	Pranita Vikas Kat	Pranita
27	Sakshi Santosh Jadhav	Sakshi
28	Tejas Antosh Sonawane	Tejas
29	Niharika Prasad Solanki	Niharika
30	Vedant Sachin Badve	Vedant
31	Ankleshwar Vishwakarma	Ankleshwar
32	Rutuja Sanjay Chitte	Rutuja
33	Rohit Sanjay Kakade	Rohit
34	Vaishnavi Shivaji Jagtap	Vaishnavi
35	Abhishek Sudhir Jawalkar	Abhishek
36	Chetal Patel	Chetal



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37	Disha Nemade	<i>Disha</i>
38	Siddhi Anil Dudhane	<i>Anil</i>
39	Sakshi Chandrakant Patil	<i>Sakshi</i>
40	Tejal Uttamrao Tayade	<i>Tayade</i>
41	Mrunal Vijaykumar Kulkarni	<i>Mrunal</i>
42	Vivek Ravindra Surve	<i>Vivek</i>
43	Namrata Hiwale	<i>Namrata</i>
44	Datta Kashinath Kalal	<i>Kalal</i>
45	Atharva Kaustubh Bhutkar	<i>Atharva</i>
46	Pankaj Papade	<i>Pankaj</i>
47	Aher Shubhada Subhash	<i>Aher</i>
48	Sohan Dadasaheb Kale	<i>Sohan</i>
49	Sakshi Sampatrao Godse	<i>Sakshi</i>
50	Prajakta Pramod Elinje	<i>Prajakta</i>
51	pranali sahebrao patil	<i>Pranali</i>
52	Aman Sanjay Meshram	<i>Aman</i>
53	Amol Asaram Rathod	<i>Amol</i>
54	Sonal Subhash Mehtre	<i>Sonal</i>
55	Omkar Nandkishor Pinjarkar	<i>Omkar</i>
56	Jaydeep Manoj Patil	<i>Jaydeep</i>
57	Kunal Rajendra Patil	<i>Kunal</i>
58	Nimish Uday Nawadkar	<i>Nimish</i>
59	Shreeraj Anil Pawar	<i>Shreeraj</i>
60	Aniket maruti palle	<i>Aniket</i>
61	Pratham Shaha	<i>Pratham</i>

AN
Prof. Neelam Jadhav

Coordinator

P
Prof. Prateeksha Chouksey

HOD

Head of Department

COMPUTER ENGG.

Genba Sopanrao Moze College of Engg.
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TRAY
Dr. Ratnaraja Kumar Jambi

Principal

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