



SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi.)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.

Web: www.sapthagiri.edu.in, Phone: 080-28372800/1/2

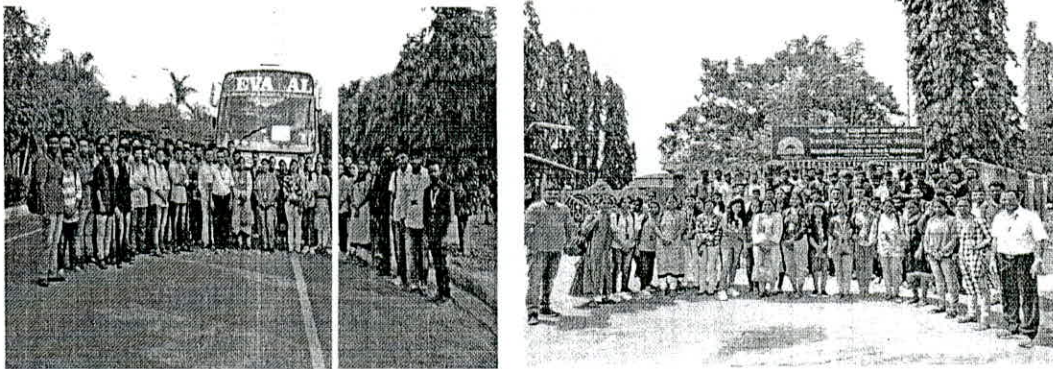
DEPARTMENT OF CIVIL ENGINEERING


SEMESTER: 3RD

An Industrial visit to National Institute of Rock Mechanics (NIRM) and Dr.T. Thimmaiah Institute of Technology, oorgaum, Kolar Gold Fields- 563120 in KGF on 23th September 2018

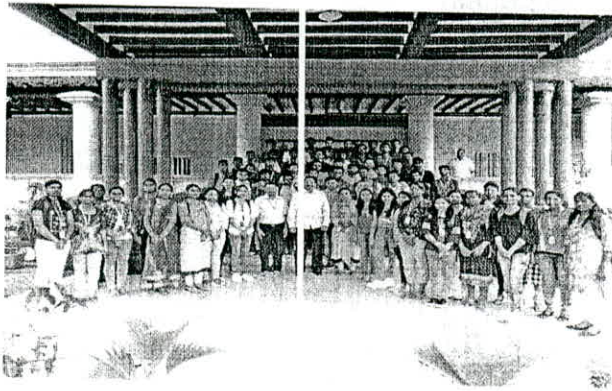
As the proverb goes "The Logic can take you from A to B, But Imagination can take you Anywhere" it perfectly corroborates to the magnificent creations of civil engineering which have been built by the admirers of Civil Engineering following their creative insight. No other branch of engineering is much more creative and ingenious as Civil Engineering is, so in order to cater the creative minds of civil engineering students and to make them abreast with the practical side an industrial visit to NIRM at KGF was organized by Department of Civil Engineering of Sapthagiri College of Engineering, Bengaluru on 26/09/2018.

A group of 65 students had an opportunity to gain practical knowledge of minerals and ore deposits; they had also had a great chance to view different parameters to be observed in rocks accompanied by Dr. R L Ramesh (HOD), Prof. Pramod K R, Prof Krupa T L and Prof. Raghavendra R

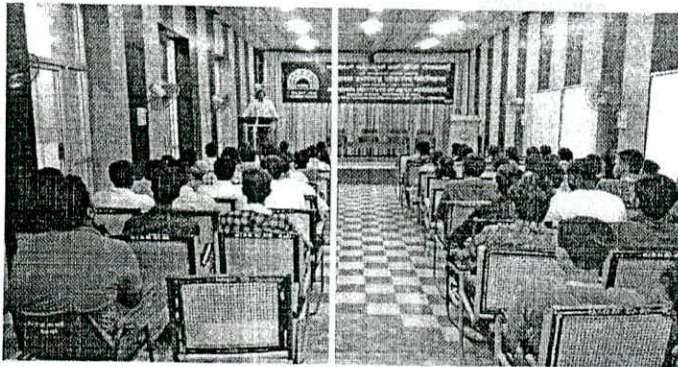



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Description of the Visit



We reach the **National Institute of Rock Mechanics (NIRM)** in KGF at 10 o'clock. Dr. Rajan Babu (principal) welcome to their auditorium, address the gathering and gave a brief introduction about their institute that how they test the quality of the rocks using the UTM (universal testing machine) through that we can do basic test on construction materials.

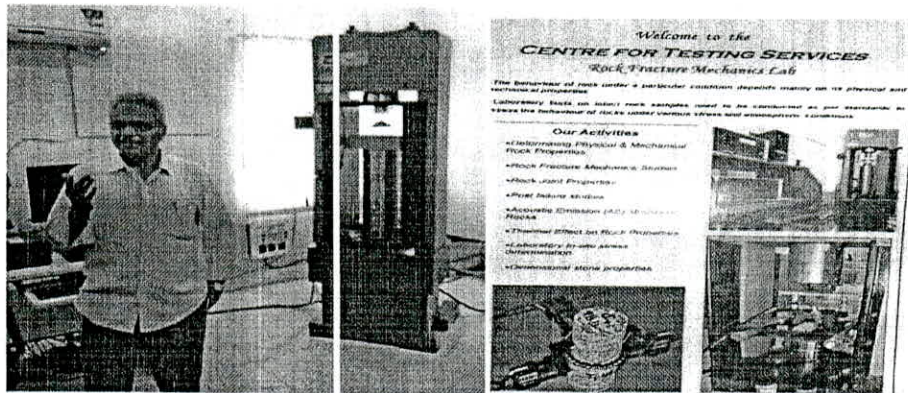


Then we move to the testing labs:

1. We observed the comparison of different types of rocks like Shale, Sandstone.



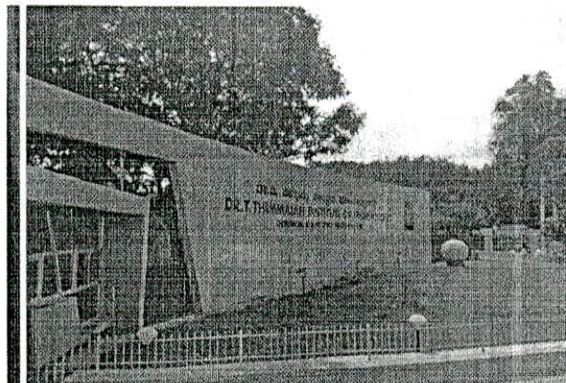
2. We observed the UTM instrument latest version it can be connected to computer, in that if we increase the strength gradually we get a graph, through that we can recognize the problems where the rocks layer will be strong and weak.



3. We observed the tensile testing machine in that we analyzed tensile strength on cables.

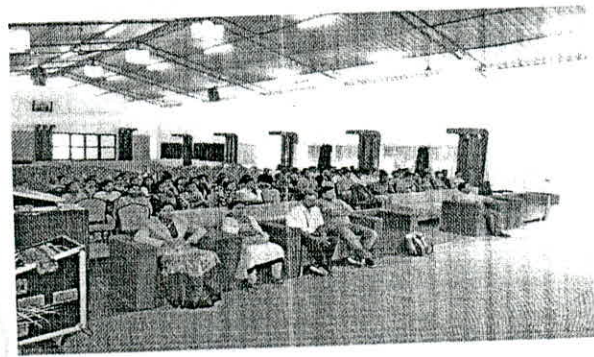
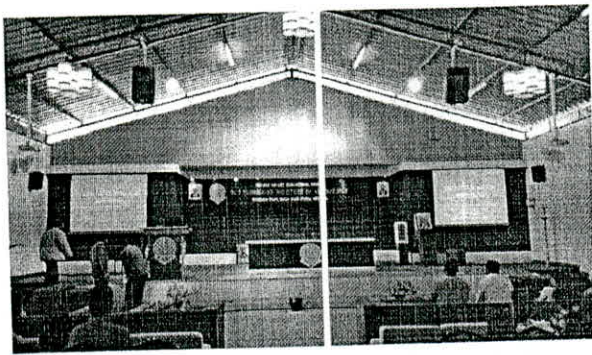


Then we visit the Dr.T.THIMMAIAH INSTITUTE OF TECHNOLOGY, oorgaum, kolar gold fields-563120 at 1clock.

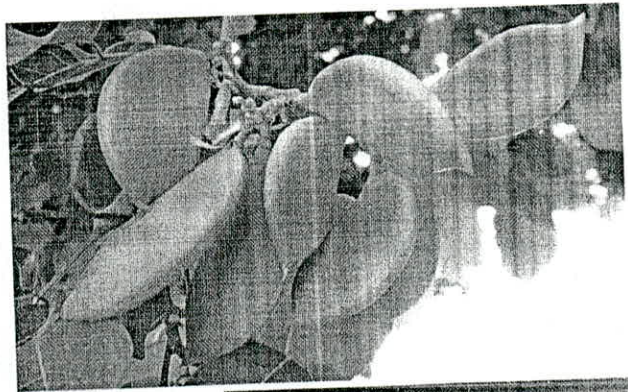
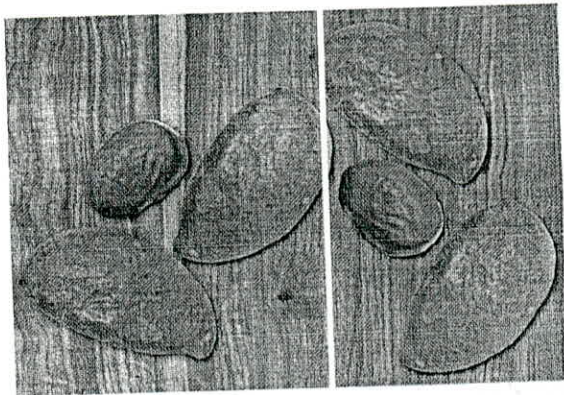


We meet HOD department of civil engineering prof. M. Maneela and had lunch in the college canteen, then we move to the auditorium, there prof. K. Ramesh Department of mining address the gathering. After that department of chemistry prof. Archana R explain the BIODESEL importance and extraction in their institution.

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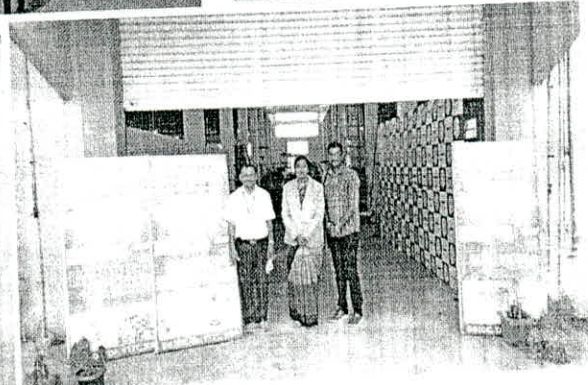


Then we move to the BIO-FUEL extraction department there we get to know how they extract a biodiesel using the Pongamia seeds. By this they prepare biodiesel, hand wash soap, cooking oil etc.



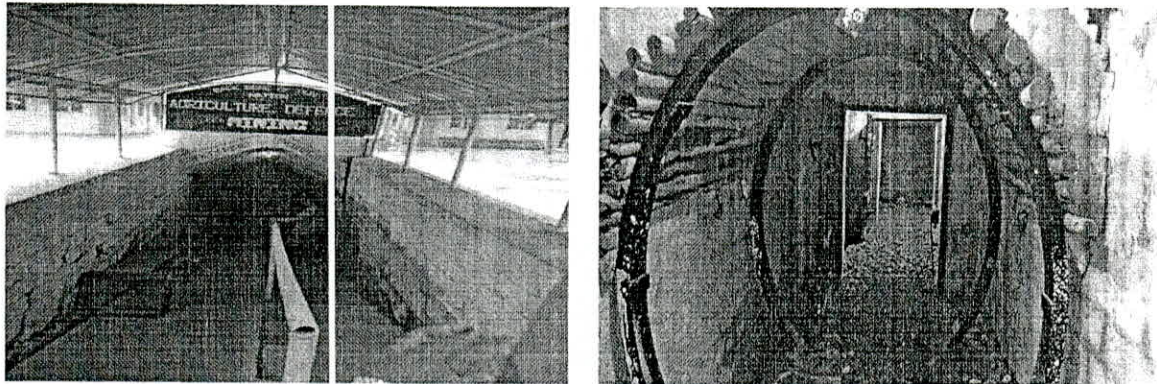
AUGUST 2018
1-09-18 KARNATAKA STATE BIO FUEL
DEVELOPMENT BOARD BANGALURU
DISTRICT KOLAR
Dr. T. Thimmiah Institute of Technology

Description	opening Balance	Closing Balance
(i) Seed (kg)	400	350
(ii) Dry hot oil	20	20
(iii) oil (kg)	218	228
(iv) Cake (kg)	643	67
(v) Biodiesel (kg)	144	136
(vi) Chemical (kg)	35	35



Then we move to the underground small mining sample area. prof. Jhon Gladious Department of mining explain nicely how actually mining will do in the mining area, how

they transport the materials and gave air blocks for oxygen, safety measures will take inside the mining.



Conclusion:

We conclude that while going through the entire industrial visit, the cooperation is found to be very well organized & most ideal Organization in every walk of its production, administration & management aspects.

We extend our hea tiest thanks to National Institute of Rock Mechanics and Dr. T. Thimmaiah Institute of Technology for making 26th September 2018 a day to cherish for our students who are honored with your humble gesture to get an opportunity to visit such an esteemed industry and college. We want to thank to our Sapthagiri College of engineering Chairman Mr. G. Dayanand, Director Mr. Manoj G D, Principal Dr. K L Shivabasappa, Administrative officer Dr. Nagabhushana K R and Head of the Department, Civil Engineering Dr. Ramesh R.L who gave the opportunity to go industrial visit.


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ಬೆಂಗಳೂರು ನೀರು ಸರಬರಾಜು ಮತ್ತು ಒಳಚರಂಡಿ ಮಂಡಳಿ

BANGALORE WATER SUPPLY & SEWERAGE BOARD
O/o Chief Engineer (WWM), 5th Floor, Cauvery Bhavan, Bangalore-560009.

No. BWSSB/CE(WWM)/A.CE(WWM)-1/TA-2/ 176 /2018-19

Date : 13/11/2018

To

The Head of Department
Department of Civil Engineering
SCE, Bangalore-560057.

Sir,

Sub: Permission to visit Mailsandra STP- reg.

Ref: Your letter Dt: 26-10-2018 .

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With reference to the above, as per your request made the permission is hereby accorded to 63 students and 02 faculties for visiting the Mailsandra STP on 16-11-2018. This approval is given subject to the following conditions:

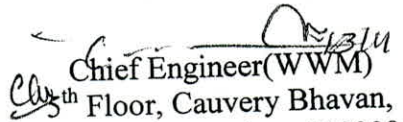
1. The entire team should visit the plant with the directions of the concerned Assistant Engineer of the Board who will be present at the plant site.
2. Photography is prohibited in the treatment plant and BWSSB premises.
3. No recreational/cultural activities will be entertained in the Vicinity of plant premises.
4. Faculty/representative of Institution will be held responsible for the safety of the students.
5. Visitors/students are prohibited to enter the restricted area in the plants. If violated Board will not be responsible for any kind of loss/damages to the visitors/students

In addition you are requested to deposit Rs.325/- (Rupees Three hundred and Twenty five only) at Assistant Controller (AC accounts), 1st floor, BWSSB, Cauvery Bhavan, K.G.Road, Bangalore-560009 before the visit.

For any details you may contact the concerned Asst.Executive Engineer in charge of the plant and his mobile number is No:9036560649).

Thanking you,

Yours faithfully,


Chief Engineer(WWM)
5th Floor, Cauvery Bhavan,
BWSSB, Bangalore-560009

Copy to CAO-S for kind information

Copy to EESTP-V.Valley for information and further necessary action.

14 No - 65603-14-11-18-14-3857
Office of the Assistant Controller (Accts.)
Bangalore Water Supply and Sewerage Board
1st Floor, Cauvery Bhavan,
Bangalore - 560 009
17-11-18


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SEMESTER: 7TH SEM

Industrial visit to SEWAGE TREATMENT PLANT (BWSSB) on 16th November 2018

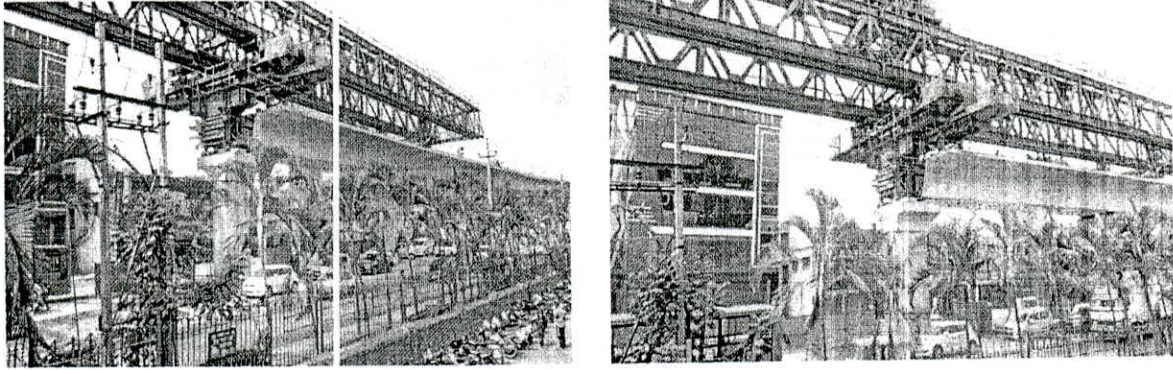
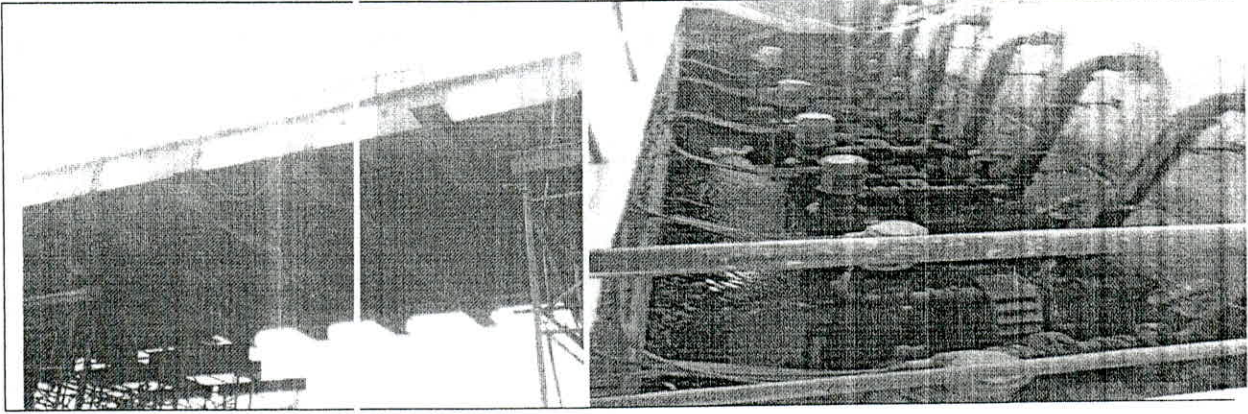


An Industrial Visit to SEWAGE TREATMENT PLANT (Mylasandra) BWSSB was organized by Sapthagiri College of Engineering Department of Civil Engineering on Friday 16th November. 63 students with 3 faculties visited to Sewage Treatment Plant to interact about the treatment of sewage water. We reached at morning 10:30 AM to the treatment plant. We divided our students into two batches of 30 students in a batch to visit and interact with the industry person. Ms Sai and Ms Kavya.

The treatment plant consists of Pre-treatment process like a) Primary Treatment b) Secondary Treatment c) Disinfection d) Sludge process. Inlet is from ISPC Subramanya Puram -500MLD. The sewage water is carried to the inlet by gravity and then carried to Force bar screen. The particles of size 40-60mm are filtered and particles of size 6mm and below 6mm are filtered in fine bars. Then reaches Grid Chamber by pumping. The sludge formed is used as fertilizers and cleaned water goes to global villages. The 8 pumps and the whole treatment plant works 24x7. Totally 48 aeration tanks this consist of ammonia, oxygen and nitrogen these forms nitrogen dioxide and these becomes de-nitrification. No chemicals are added. In Aeration tank: growth of micro organisms are formed, natural oxygen are supplied if micro organisms growth becomes less sludge will be returned and then growth of micro organisms will be made constant. Then the sludge is supplied to clarifiers.


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On the way, a visit was made to metro construction site near Kengeri, practically we got to see the I-section and detailing of the pier (intermediate column). Which was very useful for thorough understanding of theory concepts. Students raised few questions/doubts about the concepts, which were cleared. Overall the Industrial Visit was very effective and informative in both theoretical and practical aspects.



Kengeri Metro Construction


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1880
1881

Department of Mechanical Engineering

Sapthagiri College of Engineering, Bengaluru-57

Report

On

Industrial Visit to BFW (Bharath Fritz Werner Ltd.)

Date: 03.05.2019

Class: 6th SEMESTER

Time: 10.00am to 1.30 PM

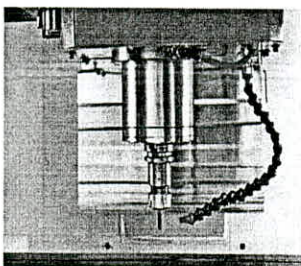
No. of Students: 20 Faculties: 02



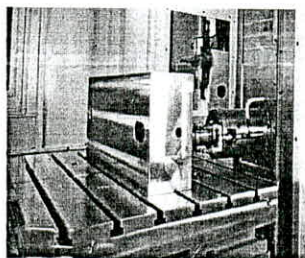
About the Organization;

BFW was established in the year 1961 and has built machine tools for industries, across the globe from plastic buckets to aerospace projects. R & D at BFW is keenly working on to create next-gen technology to ensure progress at every step, with every innovation.

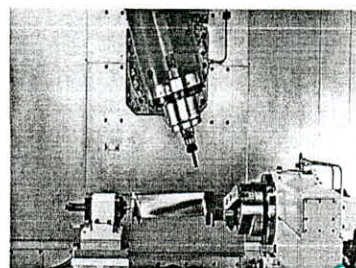
Products:



Vertical Machining Centres
(VMC)



Horizontal Machining Centres
(HMC)



Multi-Process
Technologies

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Also, BFW manufactures Horizontal turning centres, Knee type Milling machine and other special purpose machines.

Various Departments Visited;

1. Training / R & D Dept.
2. Installation and commissioning
3. Inspection and Quality control division
4. Spare parts section
5. Tool Room division.



About the Visit:

We first checked in to the security to get the gate pass. We were escorted to the training department by **Mr. Sridhar J**, who briefed us about the company profile and explained us the various activities undertaken in the entire organization. Most of the horizontal and vertical machining centres are exported to Germany and they leaders in the production of CNC machining centres. We visited the assembly section where the machine centres were assembled as per the chart prepared containing the step by step process in assembling. Such a process ensures reduced time and fool proof assembly with overall improvement in productivity in assembly. We could practically understand the design for manufacturing and

assembly concepts. We also visited the tool room where few conventional machine tools used to carry fabrication work. We were also shown the inspection department where measuring instruments, gauges and quality control tools were employed.

Faculty Coordinators:

1. Anil Kumar P.R



2. Ram Kumar .M



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