

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Affiliated to Visvesvaraya Technological University, Belagavi Approved by AICTE, New

Delhi & Recognised by Government of Karnataka)

Shobhavana Campus, Mijar – 574225, Moodbidri.

Dakshina Kannada Karnataka, India.



ALVA'S
Education Foundation®

A Report on

MEMORANDUM OF UNDERSTANDING

Between

Alvas Institute of Engineering and Technology and

SKF boilers and Driers Pvt Ltd ,Moodidri



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MEMORANDUM OF UNDERSTANDING

BETWEEN

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY, MOODBIDRI
574225



AND

SKF BOILERS AND DRIERS PVT. LTD. BANNADKA, MOODBIDRI.
574 213



SKF

PREAMBLE

Whereas, ALVAS INSTITUTE OF ENGINEERING & TECHNOLOGY, MOODBIDRI) at its various engineering and sciences departments is charged with responsibility of training technical and scientific manpower in various front-line areas of importance for the Nation and is also contributing to the rapidly growing scientific and technological knowledge and professional excellence in Science & Technology by undertaking industrial & applied research and consultancy.

WHEREAS, SKF BOILERS AND DRIERS PVT. LTD. BANNADKA is engaged in manufacturing of PARBOILED DRIERS, HEAT EXCHANGERS, WATER TREATMENT FACILITIES, and related fields in domestic and International locations.

WHEREAS, both ALVAS INSTITUTE OF ENGINEERING & TECHNOLOGY, MOODBIDRI and SKF BOILERS AND DRIERS PVT. LTD. BANNADKA, now

- Recognizing the importance of research and skill of mutual stakeholders development in the areas, as well as imparting industrial training to the engineering/technology/sciences students, etc.
- Appreciating the need for creation of large reservoir of highly qualified manpower in all fields related to PARBOILED DRIERS, HEAT EXCHANGERS, WATER TREATMENT FACILITIES, and related fields.
- Desiring to club their efforts by pooling their expertise and resources,

INTEND to form a nucleus for promoting excellent quality manpower in the fields of engineering, technology and sciences with special emphasis on PARBOILED DRIERS, HEAT EXCHANGERS, WATER TREATMENT FACILITIES, and related fields etc.

NOW, THEREFORE, in consideration of the mutual promises made herein and of good and valuable consideration, the receipt and sufficiency of which both ALVAS INSTITUTE OF ENGINEERING & TECHNOLOGY, MOODBIDRI and SKF BOILERS AND DRIERS PVT. LTD. BANNADKA hereby acknowledge, ALVAS INSTITUTE OF ENGINEERING & TECHNOLOGY, MOODBIDRI and SKF BOILERS AND DRIERS PVT. LTD. BANNADKA hereby agree to sign a memorandum of understanding (MOU).

ARTICLE-I: SCOPE OF THE MOU

This MOU details the modalities and general conditions regarding collaboration between ALVAS INSTITUTE OF ENGINEERING & TECHNOLOGY, MOODBIDRI and SKF BOILERS AND DRIERS PVT. LTD. BANNADKA for enhancing, within the country, the availability of highly qualified manpower in the areas of TO BE INTRODUCED HERE without any prejudice to prevailing rules and regulations in ALVAS INSTITUTE OF ENGINEERING & TECHNOLOGY, MOODBIDRI and SKF BOILERS AND DRIERS PVT. LTD. BANNADKA without any disregard to any mechanism evolved and approved by the competent authorities under Govt. of India in so far as such mechanism applies to ALVAS INSTITUTE OF ENGINEERING & TECHNOLOGY, MOODBIDRI and SKF BOILERS AND DRIERS PVT. LTD. BANNADKA. The areas of cooperation can be extended through mutual consent.

ARTICLE-II: SCOPE AND TERMS OF INTERACTIONS

Both ALVAS INSTITUTE OF ENGINEERING & TECHNOLOGY, MOODBIDRI and SKF BOILERS AND DRIERS PVT. LTD. BANNADKA shall encourage interactions between the Engineers, Scientists,

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- m) Neither of the supervisors will publish the work carried out under this MoU without knowledge of the other.
- n) In any of the activities mentioned above, wherever financial aspects are involved, amount, payment conditions, etc. would be spelt out clearly before starting the activity.

ARTICLE-II:

CO-ORDINATION OF THE PROGRAMME INCLUDING FINANCIAL ARRANGEMENTS

- a) The collaborative programme between ALVAS INSTITUTE OF ENGINEERING & TECHNOLOGY, MOODBIDRI and SKF BOILERS AND DRIERS PVT. LTD. BANNADKA shall be coordinated by a coordination committee appointed by Principal/Directors of both the Institutes.
- b) Financial arrangements for each specific collaboration will be decided on a case-to-case basis and brought on record in each case after due approval from heads of both the Institutions.

ARTICLE-III : EFFECTIVE DATE AND DURATION OF MOU

- a) This MOU shall be effective from the date of its approval by competent authorities at both ends.
- b) The duration of the MOU shall be for a period of 5 years from the effective date.
- c) During its tenancy, the MOU may be extended or terminated by a prior notice of not less than six months by either party. However, termination of the MOU will not in any manner affect the interests of the students/faculty/scientists who have been admitted to pursue a programme under the MOU.
- d) Any clause or article of the MOU may be modified or amended by mutual agreement of SKF BOILERS AND DRIERS PVT. LTD. BANNADKA and ALVAS INSTITUTE OF ENGINEERING & TECHNOLOGY, MOODBIDRI.

1. FOR SKF BOILERS AND DRIERS PVT. LTD.

SKF BOILERS & DRIERS (P) LTD.,

Managing Director KRISHNA ACHAR
Managing Director

Place- Bannadka Moodbidri
Date- 30/1/17

2. FOR ALVAS INSTITUTE OF ENGINEERING & TECHNOLOGY


Principal

Place- Mijar
Date- 30/1/2017

PRINCIPAL
Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K.



Alva's Institute of Engineering & Technology
&
M/S SKF Boilers and Driers Pvt Ltd

M/S SKF Boilers and Driers Pvt Ltd

Introduction

The Foundation is sponsored by the SKF Group of Companies, well known in the Rice Mill Industry for its superior quality driers and boilers. Mr. G. Ramakrishna Achar, the young and energetic Managing Director of SKF group of companies is the Chairman of the Education Foundation. Sri Kalikamba Industrial Training Centre (S.K.F.I.T.C.) has been established in the year 2003 by the SKF Education Foundation, with a view to impart the best quality of industrial training.

SKF Industrial Training Centre:

S.K.F. Education Foundation is the center is located at Bannadka on N.H.17 between Moodbidri & Karkala and is 5kms. from Moodbidri. The center is attached to the production unit of S.K.F. Boilers & Driers Pvt. Ltd.

In 1993 Mr. G. Ramakrishna Achar founded Sri. Kalikamba Fabricators (S.K.F.) in a hired shed. Beginning with the manufacture of small food grains processing machinery, like cookers, the company grew from strength to strength. During 1990-2000 S.K.F. built large boiler-cum-driers, especially for the production of boiled rice, with 100 Ton/8 hours capacity. However, taking into account the changing trends in the harvesting of paddy, the preparation of food and the eating habits of people, especially the youth. Mr. Achar successfully designed, manufactured and marketed Vardan, the state-of-the-art paddy boiler-cum-drier with unprecedented efficiency. Vardan is noted for its high output, with remarkably low consumption of power and fuel, each plant enabling a rice miller to save Rs.60 lakhs/annum because of the investment cost coupled with reduction in the broken rice and savings in power and fuel.

To elaborate compared to the traditional old plant, which required an investment of Rs.50 lakhs. Vardan needs only Rs.25 lakhs of investment. Whereas the old plant required 70 H.P of power, Vardan needs only 25 H.P. i.e. each plant saves power worth Rs.4500 per day. Whereas the old plant needed 350 k.g. fuel (of paddy husk) Vardan needs only 150k.g. of fuel thus saving Rs.4000 of fuel per day. Whereas in the production of old type of plant he broken

content was 12%, in Vardan the broken content is only 6%, enabling a miller to take a saving of Rs.8,000 per day. Thus, each mill makes a saving of Rs.16, 500 per day, for the miller, in power, fuel and broken content of rice.

Moreover, the old plant was made of M.S. But Vardan is made wholly of stainless steel and hence the rice produced is the most hygienic and of international quality.

Today, in India the eating habits of people, especially the youth, have changed. Their preference for fast food has made the demand for steamed rice the predominant one in the rice market. Vardan is especially designed for the production of steamed rice. Considering already 100 Vardan plants are functioning all over India, they together help save the nation about Rs.100 crore annually in power and fuel, along with the reduction in wastage in the form of broken rice.

The other product designed, manufactured and marketed by Mr. Achar that merits recognition is the Dhanyalaxmi, the drier, made wholly of stainless steel. With Hot Air Heat Exchanger, incorporated in it for the first time in Asia and Auto Control for temperature. Dhanyalaxmi is ideal for farmers and millers for drying and storing of harvested paddy.

Harvested paddy has a high content of moisture of 19% whereas the moisture content required for strong and milling is 12.5%. The traditional yard-drying of paddy is labor intensive and drying is not uniform. As a result such paddy contains undesirably high content of broken and discoloration of the paddy makes it unhygienic and unsuitable for export. Dhanyalaxmi is the answer to all these problems. It needs a low investment of Rs.8 lakh and needs only 9 H.P of power thus making it ideal for both farmer and millers.

Food grains processing industry has been declared a sunrise Industry by the Government of India. However, there is an acute shortage of qualified technicians in the Rice Mill Industry. Perceiving this need Mr. Achar has started, for the first time in India, a comprehensive trade in Rice Mill Technology at S.K.F.I.T.I. sponsored by S.K.F. Education Foundation (Reg.) the sister concern of S.K.F. group of companies. S.K.F. Boilers and Driers Pvt. Ltd. Has a plan to manufacture a 1000 Vardan plants and install them all over India, in the next three years. The company provides employment to some 350 people, especially from rural areas. Beside, Mr. Achar is known for his generosity and Philanthropy.

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY (AIET)

Alva's Institute of Engineering & Technology (AIET) is a premier Engineering Institute of Alva's Education Foundation established in the year 2008. AIET is strategically located adjacent to Moodbidri -Mangalore National Highway, which is 24 Kms from Mangalore International Airport. It has a lush green campus spread over 30 acres; a part of ALVA'S-SHOBHAVANA, 144 acres spread on a famous herbal garden with more than two thousand variety of herbal plants.

To set up a centre for excellence by offering world class technical education and research opportunities of very high standards and making our students technologically the best and ethically strong.

SALIENT FEATURES:

- Located at the lush green Shobhavana campus, Mijar.
- Experienced faculty facilitating a strong student-mentorship programme.
- Excellent infrastructural facilities: Spacious classrooms, well equipped laboratories, Separate hostels within the campus equipped with modern amenities & Wi-Fi facilities, food court , transportation facility, a well-stocked library supported by a state of the art Digital Library, Wi-Fi enabled Campus.
- A dedicated placement cell comprising counsellors, corporate trainers working to bridge the industry-academic gap and also organizing major placement initiatives like Alva's pragati, Chickballapur Udyog mela which has provided more than 20,000 jobs over 4 years.
- Summer Internship programs, industrial visits, live projects from the industry, visit by industry experts, seminars/paper presentations, conferences, process of mapping aspirations and building focus groups are other highlights of the course curriculum.

DEPARTMENT OF MECHANICAL ENGINEERING

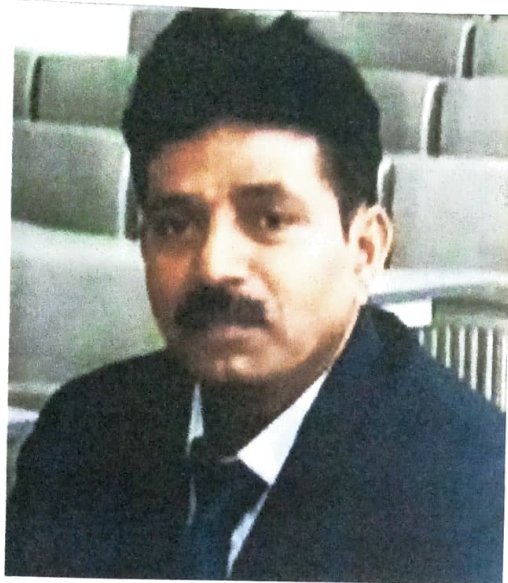
Department of Mechanical Engineering was established in the year 2008, recognized by AICTE, New Delhi and affiliated to VTU, Belgaum with an intake of 60 and has enhanced to 180 from academic year 2012-13. The Post Graduate course, M.Tech in Thermal Engineering has introduced from academic year 2012-13 with an intake of 18 students. Department recognize has a research centre by VTU and one faculty pursuing Phd programme in this centre. Department is actively involved in co-curricular and extracurricular activities with associations and professional bodies.. The main objective of the department is to provide academic excellence, knowledge and nurture talent in the area of Mechanical Engineering. The department is also looking forward to start Bio Diesel testing centre in the campus to explore and research on Alternative Fuels.

Vision of Mechanical Engineering Department is to develop Quality Mechanical Engineers to meet the ever growing the ever changing needs of the economy. To strive hard in inculcating students with best knowledge and latest skills to ensure competitive edge in the current standard.

We are committed to provide high quality technical education at undergraduate level by means of state of art curriculum with best teaching-learning programme. Dedicated to continuously develop the personality of the students through compressive scheme to curricular and extracurricular activities.

The department is having a dedicated and qualified team of faculty, technical and supporting staff. The department has two Professors (Including Principal), two Senior Associate Professors and three Associate Professor, 30 Assistant Professors, The faculty- student ratio in the department is less than 1:18. The department has the advantage of having four faculty members with a teaching experience of more than 22 years. Among the faculty members, three with Doctoral degree; thirty five are with master's degree. Twelve faculty members are pursuing the doctoral degree. The students will be undergoing the practical training with the help of 12 qualified and experienced technical staff member

CO-ORDINATOR DETAILS:



Coordinator Name: Prof.K.V.Suresh
Designation:Professor
Experience :33 years
Specilization :Thermal Engineering


(Prof. K.V. Suresh)
Assoc. Professor
Dept. of Mechanical Engg.
Alva's Institute of Engg. & Technology
MOODBIDRI

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

Shobhavan Campus, Mijar, Moodbidri - 574225

(Affiliated to Visvesvaraya Technological University, Belagavi)

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Activity Report on

“MOU between AIET and SKF boilers and driers Pvt Ltd”

Academic Year

2017 - 2018

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SKF
Boilers and Driers Pvt. Ltd.
An ISO 9001:2008 Certified Co.

Registered Office & Works
129, Bannadka, Belval - 574213, Moodbidri
Mangalore Karnataka, India
Ph : 08258 - 261291 / 92193 / 94 / 95
Toll Free No : 18004250291
ECC NO : AAHC59043DEM002, TIN : 29710367882
CIN U29253KA2003PTC032118

Dt. 28-10-2016

To,
THE PRINCIPAL
ALVAS INSTITUTE OF ENGINEERING & TECHNOLOGY
MOODBIDRI

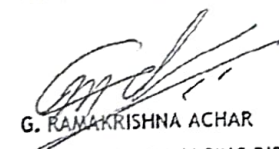
Dear Sir,

SUBJECT: REFERENCE TO YOUR MEMORANDUM OF UNDERSTANDING

With reference to the above, first of all we are thankful to you for choosing our organization for industrial training for your engineering students.

Firstly, in this regards we should make the infrastructure facilities for the students to carry out the work in our organization and we will giving the permission for Six month / batch wise for trail basis to look out our strength to carry out the industrial training to your students and if its comes good then will be proceed for MOU with your Institute.

Thanking you,
For SKF BOILERS & DRIERS PRIVATE LIMITED


G. RAMAKRISHNA ACHAR
CHAIRMAN & MANAGING DIRECTOR



Email : info@skfgroup.com / info@skfgroup.com
Website : www.skfgroup.com

ALVAS INSTITUTE OF ENGINEERING AND TECHNOLOGY , MOODBIDRI

Date: 8-12-2016

CIRCULAR

The following faculties are deputed for in-plant training at M/S SKF Boilers & Driers Pvt Ltd Bannadka Moodbidri .The training scheduled from 13th December to 15th December 2016, between 9AM to 5 PM.

SLNo	Name of the faculty	
1	Veerendra kumar	
2	G.B. Vaggar	
3	Shankarappa Kalgudi	
4	Hemanth Suvarna	
5	Ragavendra Baliga	
6	Varun Kumar Reddy	
7	Kiran CH	
8	Kumar Swamy M.C	
9	Muddukrishna Shetty	
10	Ragavendra Prasad	
11	Praveen KC	
12	Santhosh Acharya CB	
13	Mithun BR	
14	Manjunath	
15	Yogish Rao (On 13 th)	

The training is provided for faculties to get familiarized with the plant facility, so as to impart subsequent training to our students during internship.

The internship for Batch 1 (second year students) commences from 30th Dec 2016 and continue for seven days. The internship for Batch2 (third year students) commences from 9th Jan 2017 and continue for two weeks.


Principal
PRINCIPAL
Alva's Institute of Engg. & Technology
Moodbidri - 574 225, Dist.

CC: Principal Table/ HOD Mech/ SKF internship file

Circulation:

S. M. Gnananava

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ALVAS INSTITUTE OF TECHNOLOGY OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

Circular

The following faculties are deputed to assist third and fifth semester students for internship at M/S SKF Boilers and Driers Pvt Ltd Bannadka, Moodbidri as per the schedule mentioned below.

Date	Faculty
31/12/2016, 02/01/2017 & 03/01/2017	Mr. Veerendra Kumar Mr. Yogish Rao
4/01/2017, 05/01/2017,	Mr. Mithun B R Mr. Manjunath
06/01/2017	Mr. Manjunath Mr. Raghavendra Baliga
07/01/2017	Mr. Santhosh Acharya Mr. Mithun B R
09/01/2017 & 10/01/2017	Mr. Santhosh Acharya Mr. Hemanth Suvama
11/01/2017, 12/01/2017 & 13/01/2017	Mr. G B Vaggar Mr. Praveen K C
14/01/2017, 16/01/2017 & 17/01/2017	Mr. Shankar Kalgudi Mr. Raghavendra Prasad
18/01/2017, 19/01/2017 & 20/01/2017	Mr. Raghavendra Baliga Mr. Kiran C H
21/01/2017 & 23/01/2017	Mr. Varun Kumar Reddy N Mr. Kumaraswamy M C

S. Myamannara
HOD

Department of Mechanical Engineering


Principal

PRINCIPAL
Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K.

Training scheduled for different machine for 2nd year students (38) at SKF boilers & driers Moodbidri

Sl No	USN	Name	31/12/2016	02/01/2017	03/01/2017	04/01/2017	05/01/2017	06/01/2017	07/01/2017
1	4AL14ME096	SHRAVIKA K A	Lathe&UMM	SM,LCM, AW&SW	HE	HPM,PCM, ATM,BS,BM A,BMM	BM	ETP	ROP
2	4AL15ME003	ABHISHEK RAMESH MORE	Lathe&UMM	SM,LCM, AW&SW	HE	HPM,PCM, ATM,BS,BM A,BMM	BM	ETP	ROP
3	4AL15ME005	ADITHYA K V	Lathe&UMM	SM,LCM, AW&SW	HE	HPM,PCM, ATM,BS,BM A,BMM	BM	ETP	ROP
4	4AL15ME008	AKASH BP	Lathe&UMM	SM,LCM, AW&SW	HE	HPM,PCM, ATM,BS,BM A,BMM	BM	ETP	ROP
5	4AL15ME010	AKSHAYCHIN IVAR T N	Lathe&UMM	SM,LCM, AW&SW	HE	HPM,PCM, ATM,BS,BM A,BMM	BM	ETP	ROP
6	4AL15ME014	ANISH A AMIN	SM,LCM, AW&SW	HE	HPM,PCM,ATM ,BS,BMA,BMM	BM	ETP	ROP	Lathe&UMM
7	4AL15ME015	ANSON SUNIL HUNS	SM,LCM, AW&SW	HE	HPM,PCM,ATM ,BS,BMA,BMM	BM	ETP	ROP	Lathe&UMM
8	4AL15ME024	BHARATH KUMAR B U	SM,LCM, AW&SW	HE	HPM,PCM,ATM ,BS,BMA,BMM	BM	ETP	ROP	Lathe&UMM
9	4AL15ME025	BHASKAR NAGAPPA NAIK	SM,LCM, AW&SW	HE	HPM,PCM,ATM ,BS,BMA,BMM	BM	ETP	ROP	Lathe&UMM
10	4AL15ME028	CHRISTINA	SM,LCM, AW&SW	HE	HPM,PCM,ATM ,BS,BMA,BMM	BM	ETP	ROP	Lathe&UMM
11	4AL15ME029	DARSHAN K S	HE	HPM,PCM, ATM,BS,BM A,BMM	BM	ETP	ROP	Lathe&U MM	SM,LCM, AW&SW
12	4AL15ME030	DARSHAN KRISHNA DESHBHAND ARI	HE	HPM,PCM, ATM,BS,BM A,BMM	BM	ETP	ROP	Lathe&U MM	SM,LCM, AW&SW
13	4AL15ME033	GIRISH	HE	HPM,PCM, ATM,BS,BM A,BMM	BM	ETP	ROP	Lathe&U MM	SM,LCM, AW&SW
14	4AL15ME034	HAMZA MOHAMMED HAFEEZ	HE	HPM,PCM, ATM,BS,BM A,BMM	BM	ETP	ROP	Lathe&U MM	SM,LCM, AW&SW
15	4AL15ME037	HEMANTH KUMAR D	HE	HPM,PCM, ATM,BS,BM A,BMM	BM	ETP	ROP	Lathe&U MM	SM,LCM, AW&SW
16	4AL15ME039	JYOTHI A	HPM,PCM,AT M,BS,BMA,BM M	BM	ETP	ROP	Lathe&U MM	SM,LCM, AW&SW	HE
17	4AL15ME042	KARTHIK K	HPM,PCM,AT M,BS,BMA,BM M	BM	ETP	ROP	Lathe&U MM	SM,LCM, AW&SW	HE
18	4AL15ME044	KIRAN RAMANAGO WDA HOSAGOWDA R	HPM,PCM,AT M,BS,BMA,BM M	BM	ETP	ROP	Lathe&U MM	SM,LCM, AW&SW	HE
19	4AL15ME045	KOUSHIK N	HPM,PCM,AT M,BS,BMA,BM M	BM	ETP	ROP	Lathe&U MM	SM,LCM, AW&SW	HE
20	4AL15ME050	MANISH	HPM,PCM,AT M,BS,BMA,BM M	BM	ETP	ROP	Lathe&U MM	SM,LCM, AW&SW	HE

21	4AL15ME052	MANOJ KUMAR N S	BM	ETP	ROP	Lathe&UM M	SM,LCM, AW&SW	HE	HPM,PCM,AT M,BS,BMA,B MM
22	4AL15ME054	MAYYADDIN NAVEED	BM	ETP	ROP	Lathe&UM M	SM,LCM, AW&SW	HE	HPM,PCM,AT M,BS,BMA,B MM
23	4AL15ME055	MOHAMMED ILIYAZ	BM	ETP	ROP	Lathe&UM M	SM,LCM, AW&SW	HE	HPM,PCM,AT M,BS,BMA,B MM
24	4AL15ME062	NIKHIL Y J	BM	ETP	ROP	Lathe&UM M	SM,LCM, AW&SW	HE	H,PCM,ATM, BS,BMA,BMM
25	4AL15ME064	PAVANKUMA R B C	BM	ETP	ROP	Lathe&UM M	SM,LCM, AW&SW	HE	HPM,PCM,AT M,BS,BMA,B MM
26	4AL15ME067	PRASHANT MUCHAKHAN DI	ETP	ROP	Lathe&UMM	SM,LCM, AW&SW	HE	HPM,PC M,ATM,B S,BMA,B MM	BM
27	4AL15ME070	RAMYASHRE E	ETP	ROP	Lathe&UMM	SM,LCM, AW&SW	HE	HPM,PC M,ATM,B S,BMA,B MM	BM
28	4AL15ME071	RAVI SHIROSHI	ETP	ROP	Lathe&UMM	SM,LCM, AW&SW	HE	HPM,PC M,ATM,B S,BMA,B MM	BM
29	4AL15ME087	VIDISH SHETTY	ETP	ROP	Lathe&UMM	SM,LCM, AW&SW	HE	HPM,PC M,ATM,B S,BMA,B MM	BM
30	4AL15ME099	SHETTY YASH NARAYAN	ETP	ROP	Lathe&UMM	SM,LCM, AW&SW	HE	HPM,PC M,ATM,B S,BMA,B MM	BM
31	4AL15ME700	ABHISHEKA R S	ROP	Lathe&UM M	SM,LCM, AW&SW	HE	HPM,PC M,ATM,B S,BMA,B MM	BM	ETP
32	4AL15ME711	CHANDAN N	ROP	Lathe&UM M	SM,LCM, AW&SW	HE	HPM,PC M,ATM,B S,BMA,B MM	BM	ETP
33	4AL15ME714	GOWTHAMKU MAR S N	ROP	Lathe&UM M	SM,LCM, AW&SW	HE	HPM,PC M,ATM,B S,BMA,B MM	BM	ETP
34	4AL15ME715	JAIDEV K	ROP	Lathe&UM M	SM,LCM, AW&SW	HE	HPM,PC M,ATM,B S,BMA,B MM	BM	ETP
35	4AL15ME718	MELVIN GEORGE M	ROP	Lathe&UM M	SM,LCM, AW&SW	HE	HPM,PC M,ATM,B S,BMA,B MM	BM	ETP
36	4AL15ME723	PRASANNA H S	ROP	Lathe&UM M	SM,LCM, AW&SW	HE	HPM,PC M,ATM,B S,BMA,B MM	BM	ETP
37	4AL15ME725	REVATI RAVI KULKARNI	Lathe&UMM	SM,LCM, AW&SW	HE	HPM,PCM, ATM,BS,BM A,BMM	BM	ETP	ROP
38	4AL15ME726	RIYAS AHAMED K N	SM,LCM, AW&SW	HE	HPM,PCM,ATM ,BS,BMA,BMM	BM	ETP	ROP	Lathe&UMM

Symbol	Full form	Time	Symbol	Full form	Time
LSM	Lathe – Shaft Making	2Hrs 30min	HPM	Hydraulic punching machine	1 Hr
LHFS	Lathe- Housing for fan/ Blower shaft	30 min	PCM	Profile cutting machine	1 Hr
LBDP	Lathe- Brunel drier part	30 min	ATM	Automatic threading machine	1 Hr
LTBP	Lathe- Threading for boiler part	30 min	BS	Band saw	1 Hr
UMM	Universal milling machine	2 Hrs	BMA	Bending Machine automatic	1 Hr
SM	Slotting Machine	30 min	BMM	Bending Machine manual	1 Hr
LCM	Laser cutting machine	2 Hrs	BM	Boiler making	1 Day
AW&SW	Arc welding & Spot welding	4 Hrs	ETP	Effluent treatment plant	1 Day
HE	Heat Exchanger	1 Day	ROP	Reverse osmosis plant assembly	1 Day

Details of training scheduled for 3rd year students (43) at SKF Boilers&driers pvt ltd Moodbidri

Alva's Institute of Engineering & Technology

Department of Mechanical Engineering

M/S SKF Boilers and Driers Pvt Ltd

Internship for III year students (15Days)

Sl No	USN	Name	09/01/2017	10/01/2017	13/01/2017	14/01/2017	16/01/2017	17/01/2017	18/01/2017	19/01/2017	20/01/2017	21/01/2017	23/01/2017	24/01/2017	25/01/2017
1	4AL14ME716	NITHESH B M	Lathe	Lathe	AW&SW	IE	BS,BMA,BMM	BM	ETP	ROP	UNIM, SM,HPM	BFD	IIE	LCM	ATM, PCM
2	4AL14ME719	PAJWAL KOTIAN	Lathe	Lathe	AW&SW	IE	BS,BMA,BMM	BM	ETP	ROP	UNIM, SM,HPM	BFD	IIE	LCM	ATM, PCM
3	4AL14ME709	GANESHA VENKATRAMANNAIK	Lathe	Lathe	AW&SW	IE	BS,BMA,BMM	BM	ETP	ROP	UNIM, SM,HPM	BFD	IIE	LCM	ATM, PCM
4	4AL14ME100	SRINIVASAN	Lathe	Lathe	AW&SW	IE	BS,BMA,BMM	BM	ETP	ROP	UNIM, SM,HPM	BFD	IIE	LCM	ATM, PCM
5	4AL14ME710	GANESHA M S	Lathe	AW&SW	IE	BS,BMA,BMM	BM	ETP	ROP	UNIM, SM,HPM	LCM	BFD	IIE	ATM, PCM	Lathe
6	4AL14ME718	PAJWAL HOSMUTTHIR	Lathe	AW&SW	IE	BS,BMA,BMM	BM	ETP	ROP	UNIM, SM,HPM	LCM	BFD	IIE	ATM, PCM	Lathe
7	4AL14ME725	SHEETY ANKITH JAGANATH	Lathe	AW&SW	IE	BS,BMA,BMM	BM	ETP	ROP	UNIM, SM,HPM	LCM	BFD	IIE	ATM, PCM	Lathe
8	4AL14ME733	SOWRABH	Lathe	AW&SW	IE	BS,BMA,BMM	BM	ETP	ROP	UNIM, SM,HPM	LCM	BFD	IIE	ATM, PCM	Lathe
9	4AL14ME740	VJESH SHEETY	AW&SW	IE	BS,BMA,BMM	BM	ETP	ROP	UNIM, SM,HPM	LCM	ATM, PCM	BFD	IIE	Lathe	Lathe
10	4AL14ME690	RANITH P	AW&SW	IE	BS,BMA,BMM	BM	ETP	ROP	UNIM, SM,HPM	LCM	ATM, PCM	BFD	IIE	Lathe	Lathe
11	4AL14ME101	SUDESH BHAT	AW&SW	IE	BS,BMA,BMM	BM	ETP	ROP	UNIM, SM,HPM	LCM	ATM, PCM	BFD	IIE	Lathe	Lathe
12	4AL14ME981	RASLAN SHAFI	AW&SW	IE	BS,BMA,BMM	BM	ETP	ROP	UNIM, SM,HPM	LCM	ATM, PCM	BFD	IIE	Lathe	Lathe
13	4AL14ME739	VIGNESH NAYAK	IE	BS,BMA,BMM	BM	ETP	ROP	UNIM, SM,HPM	LCM	ATM, PCM	Lathe	BFD	IIE	Lathe	AW&SW
14	4AL14ME726	SHEETY GANESH DHARMAKAR	IE	BS,BMA,BMM	BM	ETP	ROP	UNIM, SM,HPM	LCM	ATM, PCM	Lathe	BFD	IIE	Lathe	AW&SW
15	4AL14ME702	ANIRUDH GACHAR	IE	BS,BMA,BMM	BM	ETP	ROP	UNIM, SM,HPM	LCM	ATM, PCM	Lathe	BFD	IIE	Lathe	AW&SW

16	4AL14ME065	POOJARI NAGARAJ MAHADEV	HE	BS,BNI A,BNI	BNI	ETP	X	ROP	UNIN, SMJIPM	LCM	ATM, PCNI	Lathe	Lathe	AWASV	AWASV	Lathe	BFD	HED	Lathe	AWASV
17	4AL14ME094	SHEETY PRANITH PRABHAKA R	BS,BNI A,BNI	BNI	ETP	ROP		UNIN, SMJIPM	LCM	ATM, PCNI	Lathe	Lathe	AWASV	AWASV	Lathe	BFD	HED	Lathe	AWASV	
18	4AL14ME700	ADARSH A	BS,BNI	BNI	ETP	ROP		UNIN, SMJIPM	LCM	ATM, PCNI	Lathe	Lathe	AWASV	AWASV	Lathe	BFD	HED	Lathe	AWASV	
19	4AL14ME120	HITHESH G	BS,BNI	BNI	ETP	ROP		UNIN, SMJIPM	LCM	ATM, PCNI	Lathe	Lathe	AWASV	AWASV	Lathe	BFD	HED	Lathe	AWASV	
20	4AL14ME162	YUVARAJ SHEETIGAR	BS,BNI A,BNI	BNI	ETP	ROP		UNIN, SMJIPM	LCM	ATM, PCNI	Lathe	Lathe	AWASV	AWASV	Lathe	BFD	HED	Lathe	AWASV	
21	4AL14ME433	RANU RAMESH KADAM	BNI	ETP	ROP	UNIN, SMJIPM		LCM	ATM, PCNI	Lathe	Lathe	AWASV	AWASV	Lathe	BFD	HED	Lathe	AWASV		
22	4AL14ME435	RAVINIDRA NAVAKAR	BNI	ETP	ROP	UNIN, SMJIPM		LCM	ATM, PCNI	Lathe	Lathe	AWASV	AWASV	Lathe	BFD	HED	Lathe	AWASV		
23	4AL14ME416	GOUVISIDD APPA IRAPPA ITAGI	BNI	ETP	ROP	UNIN, SMJIPM		LCM	ATM, PCNI	Lathe	Lathe	AWASV	AWASV	Lathe	BFD	HED	Lathe	AWASV		
24	4AL14ME415	GIRISH M	BNI	ETP	ROP	UNIN, SMJIPM		LCM	ATM, PCNI	Lathe	Lathe	AWASV	AWASV	Lathe	BFD	HED	Lathe	AWASV		
25	4AL14ME407	BHINANAG CHIDDA S BHARANAG CHIDDA S	ETP	ROP	UNIN, SMJIPM			LCM	ATM, PCNI	Lathe	Lathe	AWASV	AWASV	Lathe	BFD	HED	Lathe	AWASV		
26	4AL14ME070	PRASANT H KUNAR H R	ETP	ROP	UNIN, SMJIPM			LCM	ATM, PCNI	Lathe	Lathe	AWASV	AWASV	Lathe	BFD	HED	Lathe	AWASV		
27	4AL14ME713	LAKSHMEE SMA	ETP	ROP	UNIN, SMJIPM			LCM	ATM, PCNI	Lathe	Lathe	AWASV	AWASV	Lathe	BFD	HED	Lathe	AWASV		
28	4AL14ME413	DODDABAS AVA KOLUR	ETP	ROP	UNIN, SMJIPM			LCM	ATM, PCNI	Lathe	Lathe	AWASV	AWASV	Lathe	BFD	HED	Lathe	AWASV		
29	4AL14ME431	RAGHAVEN DMA V HIPPARAGI KIRANAKUM	ROP	UNIN, SMJIP M	LCM	ATM, PCNI		Lathe	Lathe	AWASV	AWASV	Lathe	AWASV	AWASV	Lathe	BFD	HED	Lathe	AWASV	
30	4AL14ME423	AR MELNANMA NI	ROP	UNIN, SMJIP M	LCM	ATM, PCNI		Lathe	Lathe	AWASV	AWASV	Lathe	AWASV	AWASV	Lathe	BFD	HED	Lathe	AWASV	
31	4AL14ME401	ABHISHEK OWDA G A	ROP	UNIN, SMJIP M	LCM	ATM, PCNI		Lathe	Lathe	AWASV	AWASV	Lathe	AWASV	AWASV	Lathe	BFD	HED	Lathe	AWASV	
32	4AL14ME017	CHETANAK UMARA VEERABHA DEAPPA U	ROP	UNIN, SMJIP M	LCM	ATM, PCNI		Lathe	Lathe	AWASV	AWASV	Lathe	AWASV	AWASV	Lathe	BFD	HED	Lathe	AWASV	

14/1 16/1 17/1

33	44114ME219	CHETHAN H N	UNIL. SMILP M.	LCN	ATN. PCN	Lathe	Lathe	AWASW	AWASW	BS.DIA. B.M	B.M	BFD	HED	ETP	ROP
34	44114ME209	MARUTHI HT	UNIL. SMILP M.	LCN	ATN. PCN	Lathe	Lathe	AWASW	AWASW	BS.DIA. B.M	B.M	BFD	HED	ETP	ROP
35	44113ME718	YOTHISH LALKUMAR	UNIL. SMILP M.	LCN	ATN. PCN	Lathe	Lathe	AWASW	AWASW	BS.DIA. B.M	B.M	BFD	HED	ETP	ROP
36	44113ME202	KINSHITH KUMAR M B	UNIL. SMILP M.	LCN	ATN. PCN	Lathe	Lathe	AWASW	AWASW	BS.DIA. B.M	B.M	BFD	HED	ETP	ROP
37	44115ME417	SUNAS J	LCN	ATN. PCN	Lathe	Lathe	Lathe	AWASW	AWASW	BS.DIA. B.M	B.M	BFD	HED	ETP	ROP
38	44115ME205	ANAND B S	LCN	ATN. PCN	Lathe	Lathe	Lathe	AWASW	AWASW	BS.DIA. B.M	B.M	BFD	HED	ETP	ROP
39	44115ME458	SANDEEP Y M	LCN	ATN. PCN	Lathe	Lathe	Lathe	AWASW	AWASW	BS.DIA. B.M	B.M	BFD	HED	ETP	ROP
40	44114ME207	MANJUNAT H LAXMAN	LCN	ATN. PCN	Lathe	Lathe	Lathe	AWASW	AWASW	BS.DIA. B.M	B.M	BFD	HED	ETP	ROP
41	44115ME259	KERIKAR HA D V	ATN. PCN	Lathe	Lathe	Lathe	Lathe	AWASW	AWASW	BS.DIA. B.M	B.M	BFD	HED	ETP	ROP
42	44115ME219	HAARISH COARCOOL	ATN. PCN	Lathe	Lathe	Lathe	Lathe	AWASW	AWASW	BS.DIA. B.M	B.M	BFD	HED	ETP	ROP

Symbol	Tool form	Time	Symbol	Tool form	Time
LNH	Lathe - Shaft Making	6 Hrs	HPI	Hydraulic punching machine	2 Hrs
LHFS	Lathe - Flanging for fan/ Blower shaft	2 Hrs	PCN	Profile cutting machine	3 Hr
LBDP	Lathe - Drum drier part	2 Hrs	ATN	Automatic threading machine	3 Hr
LTHP	Lathe - Threading for boiler part	2 Hrs	BS	Band saw	2 Hrs
UNM	Universal milling machine	2 Hrs	BNM	Bending Machine automatic	2 Hrs
SM	Slotting Machine	2 Hrs	BNM	Bending Machine manual	2 Hrs
LCN	Laser cutting machine	1 Day	BNM	Boiler making	1 Day
AWASW	Arc welding & Spot welding	1 Day	ETP	Effluent treatment plant	1 Day
HIE	Heat Exchanger	1 Day	ROP	Reverse osmosis plant assembly	1 Day
BFD	Boiler Furnace Design	1 Day	HED	Heat Exchanger Design	1 Day



Students get internship training at SKF Boilers & driers pvt ltd



Students get internship training (simulation) at SKF Boilers & driers pvt ltd



Students get internship training (lathe operation) at SKF Boilers & driers pvt ltd



training at SKF Boilers & driers pvt ltd



Internship certificate distribution by Dr.Shakar goud Nyammamnavar at SKF Boilers & driers pvt ltd



Internship certificate distribution By Prof.K.V.suresh at SKF Boilers & driers pvt ltd



INTERNSHIP CERTIFICATE

is hereby awarded to

R.MU.RAMESH KADAM

has successfully completed his internship program from ~~09.01.2017~~ to ~~25.01.2017~~

In the period of internship his candidature was found to be very sincere and hard working.

We wish him bright future.

SKF Boilers and Driers Pvt. Ltd.
Registered Office & Works
129, Ramnagar, Sarva - 574213, Mysore
Mangalore, Karnataka
Tel: 08258 201281/99

21 January 2017

Director (Technical)

Industrial visit



About Visit

Industrial visit is a part of the education. The main objective behind the industrial visit is to make students to gain first-hand information regarding functioning of the industry which presents the students with opportunities to plan, organize and engage in active learning experiences both inside and outside the class room. Industrial visits also give greater clarity about various management concepts for students as they can practically see how these concepts are put into action.

In Our Visit

Industrial visit was carried out at SKF Boilers & Driers Pvt. Ltd & Elixer India Pvt. Ltd – Moodabidri on 10th Feb 2018 from 10AM to 1.30pm for 1st year B.E Chemistry cycle – ‘A’ section students. The main objective behind the visit was to make us exposure to industries and to gain practical knowledge of machine construction and handling.

In SKF Boilers & Driers Pvt. Ltd premises we gain the knowledge of designing & manufacturing of food grain especially paddy- processing plants and machinery, working & handling of machines like Japan made-Japanese installed CNC Laser cutting machine & leak proof welding machines for fabrication, food grade stainless steel tanks & machines, industrial chimneys, Effluent (waste water) Treatment Plants (ETPs) specially designed for rice mills and industries. Later we visited to nearby sister concern of SKF group, Elixer India Pvt. Ltd. Here we saw the

Water purifiers cum Coolers/Heaters- incorporated RO & UV purifying technology, that are suitable for homes, hotels, hostels, educational, commercial institutions and industries along with knowing the water purification procedure.



Training about cutting materials

A design engineer explaining about designing of materials

The visit was fruitful by gaining the knowledge of some industrially important machines and their design, working and applications.

Laser cutting is a technology that uses a laser to cut materials, and is typically used for industrial manufacturing applications, but is also starting to be used by schools, small businesses, and hobbyists. Laser cutting works by directing the output of a high-power laser most commonly through optics. The laser optics and CNC (computer numerical control) are used to direct the material or the laser beam generated. A typical commercial laser for cutting materials involved a motion control system to follow a CNC or G-code of the pattern to be cut onto the material. The focused laser beam is directed at the material, which then either melts, burns, vaporizes away, or is blown away by a jet of gas, leaving an edge with a high-quality surface finish. Industrial laser cutters are used to cut flat-sheet material as well as structural and piping materials.

DRILLING MACHINE: The drill machine is a very powerful tool and can be used to do heavy work without much effort. Though it is a very useful tool, care should be taken while using this machine as it can cause harm to a person if he is not careful. A person should be careful all the time and being in an inebriated while working with a drilling machine can be very dangerous. It takes less than a second for the drill to go through flesh since it is much softer than where it is supposed to be used like concrete or walls. No clothing or article is supposed to be hanging from a person especially while using a drill machine. In no time it can

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m of CO₂ WELDING MACHINE: Gas Metal Arc Welding or Metal Inert Gas welding

(GMAW or MIG welding) is an electric arc welding procedure that uses a spool of continuously fed wire. It is likely used to join long stretches of metal without stopping. The welder, or apparatus, holds the wire feeder and a wire electrode is fed into a weld at a controlled rate of speed, while a blanket of inert argon gas shields the weld zone from atmospheric contamination. Shielding the arc and molten weld pool is done by "externally" supplying gas or a gas mixture.



Laser cutting machine

MIG welding can be used on all thicknesses of steels, on aluminum, nickel, and even on stainless steel, etc. However, it is most typically utilized in manufacturing and in commercial

fabrication settings.



Welding section

CENTRIFUGAL BLOWERS:

Blowers are used in industries when there is a requirement for larger volumes of air flow at higher pressures. A fan with higher pressure ratio (output pressure / input pressure) can be called as a blower provided it produces pressures as high as 1.20 kg/cm^2 . Like fan systems, blowers are widely used in industrial processes where a constant flow of air/gas is needed at higher pressures such as conveying material in dust collector systems, combustion air for burners, drying & cooling, general ventilation & circulation of air and so on. Blowers with higher efficiency are also used in industrial vacuum systems where suction or negative pressures are required.

Centrifugal blowers are widely used in industrial applications where there is a requirement for constant flow of larger volumes of air such as in ventilation, combustion, transporting materials, cooling and heating systems, dust control, air conveyor systems, industrial vacuum applications

and in other industrial processes.

Centrifugal blowers vary on the basis of their air flow capacity, blower type, blower dimension, and maximum operating pressure. Based on the requirement, blowers of various types can be customized and installed to serve the needs of diverse industrial applications



Drier unit

GAS CUTTING: Gas cutting or oxy-fuel cutting, it is a low cost and basic equipment suitable for cutting, gouging and other jobs such as welding and heating. The work is based on manual or mechanized operations, suitable for site work. It uses a cutting Torch (mostly angled at 90 degrees to provide more power) to heat the metal to its auto ignition temperature. A stream of oxygen is then trained on the metal, burning it into metal oxide that flows out of the slag. In gas cutting the oxygen is increased to raise the temperature to melting point and also blast away debris.



Welding section



Water purifier unit

Water purifier manufacturing unit in *Elixir India Pvt. Ltd. Water purifiers incorporated*

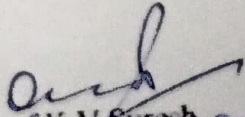
RO & UV purifying technology having varying liters of water storage capacity that are suitable for school, college, hostel, hotel, hospital, office, Bank, Factory, Industry, Temple, Church, Mosque etc..

Final Words

Totally it was an informative, interesting and a successful visit. As students of Mechanical & Computer science Engineering we got awareness in developing, designing, manufacturing and fabricating machinery tools, software/hardware assisted industrial equipments. The visit also benefited with practical knowledge linking to theoretical aspects that are prescribed for first year academic syllabus



Inside the plant


Prof. K.V. Suresh
coordinator
Prof. K.V. Suresh
Professor
Dept. of Mechanical Engg.
Alva's Institute of Engg. & Technology
MOODBIDRI

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

Shobhavan Campus, Mijar, Moodbidri - 574225

(Affiliated to Visvesvaraya Technological University, Belagavi)

Approved by AICTE, New Delhi & Recognized by Government of Karnataka)



Activity Report on

“MOU between AIET and SKF”

Academic Year

2018 - 2019

CONTENTS

SL NO	PARTICULAR	PAGE NO
1	Activity conducted during academic year 2018-2019 (odd semester)	3
2	Activity conducted during academic year 2018-2019 (odd semester)	4
3	Industrial visit	5-10

Progress report on Industrial MOUs and Academic Collaboration Department of Mechanical Engineering

Academic year 2018-2019 (Odd)

Sl.no	Type of activity	Name of the organisation	Resource person /guide name	Student name	USN No.	Section /semester	duration
1	Micro project	SKF Boilers & Driers Pvt Ltd Moodbidri	Mr.Prajwal Achar	Shradha Vaishnavi Sneha G Sairochana P S	4AL17EC088 4AL18EC055 4AL18EC050 4AL18CV033	1 st sem	One day
2	Internship	SKF Boilers & Driers Pvt Ltd Moodbidri	Mr.Prajwal Achar	Girish R	4AL16ME411	7 th Semester	30 Days

Academic year 2018-2019 (even)

Sl .No	Type of activity	Name of the organisation	Resource person /guide name	Student /Faculty	USN No.	Section /semester	duration
1	Regarding Consultation	SKF Boilers & Driers Pvt Ltd Moodbidri	Mr.Prajwal Achar	Dr.Satyanarayan Prof K V Suresh			half day
2	Industrial Visit	SKF Boilers & Driers Pvt Ltd Moodbidri	Mr.Prajwal Achar	All students of 2 nd semester E and F Section		2 nd Semester	half day

Activates conducted between AIET and SKF Boilers & Driers Pvt Ltd Moodbidri

1.Four students of 1st year of "C" section visited the company in order to interact with Mr.PrajwalAchar Technical Director for their micro project "Purification of water".Technical director explain about RO water purification system to students and giving some idea with their plant SKF elixir India Pvt ltd .

2 Mr.Girish R successfully carried out Final Year Internship programme for one month during Jan 2019 to Feb 2019

3. Dr.Satayanarayan and Prof.K V Suresh visited the company to discuss about the consultation project proposal on Heat exchanger and refrigeration heat pump and finding their suitable solution regarding the effectiveness.

4. Industrial visit organized for 2nd semester students of E and F section accompanied by Prof.K V Suresh, Prof .Harish.K and Prof Mohan Reddy during May 2019.

5. Dr. Satayanarayan and Prof. K V Suresh visited the company to discuss about the consultation project proposal on Heat exchanger and Centrifugal Fan design
6. Prof. K. V. Suresh visited the company and discuss with Mr. Prajwal Achar Technical director regarding design of Centrifugal Fan and request to submit the design of centrifugal Fan.

Industrial visit

Industrial visit to SKF Boilers and Driers Pvt. Ltd & Elixer India Pvt. Ltd – Moodabidri

Industrial visit is a part of the education. The main objective behind the industrial visit is to make students to gain first hand information regarding functioning of the industry which presents the students with opportunities to plan, organize and engage in active learning experiences both inside and outside the class room. Industrial visits also give greater clarity about various management concepts for students as they can practically see how these concepts are put into action

In Our Visit

Industrial visit was carried out at SKF Boilers & Driers Pvt. Ltd & Elixer India Pvt. Ltd – Moodabidri on 24th April 2019 from 1pm to 5pm for 1st year B.E Chemistry cycle – 'D & E section students. The main objective behind the visit was to make us exposure to industries and to gain practical knowledge of machine construction and handling



Industrial visit to SKF boilers and drier faculty with students

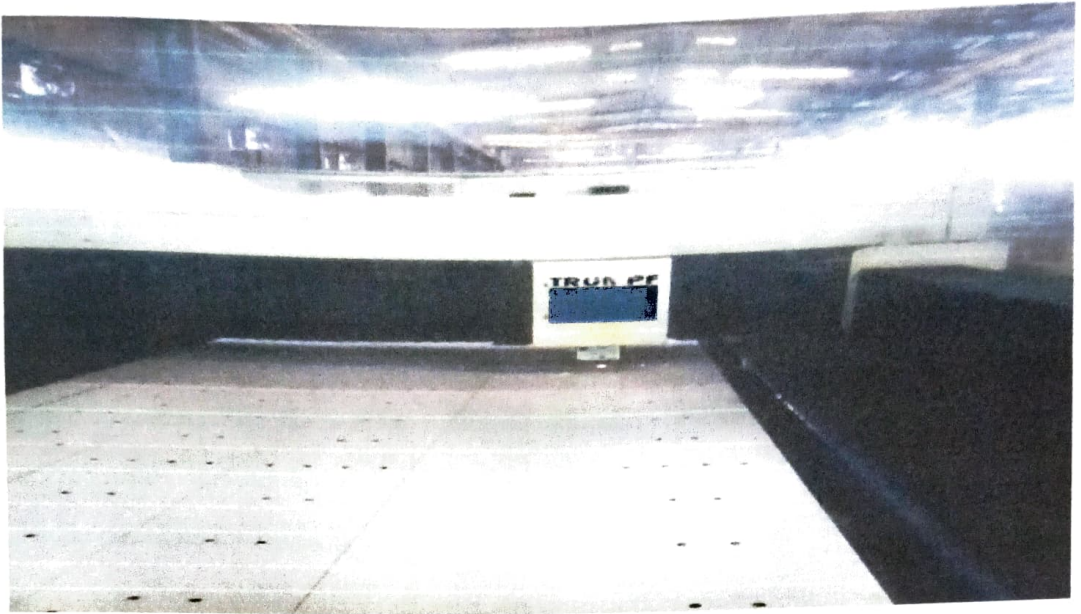
About Visit

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MIG welding can be used on all thicknesses of steels, on aluminum, nickel, and even on stainless steel, etc. However, it is most typically utilized in manufacturing and in commercial fabrication settings.

CENTRIFUGAL BLOWERS:

Blowers are used in industries when there is a requirement for larger volumes of air flow at higher pressures. A fan with higher pressure ratio (output pressure / input pressure) can be called as a blower provided it produces pressures as high as 1.20 kg/cm². Like fan systems, blowers are widely used in industrial processes where a constant flow of air/gas is needed at higher pressures such as conveying material in dust collector systems, combustion air for burners, drying & cooling, general ventilation & circulation of air and so on. Blowers with higher efficiency are also used in industrial vacuum systems where suction or negative pressures are required. Centrifugal blowers are widely used in industrial applications where there is a requirement for constant flow of larger volumes of air such as in ventilation, combustion, transporting materials, cooling and heating systems, dust control, air conveyor systems, industrial vacuum applications and in other industrial processes.



At the entrance of the factory

Gas cutting or oxy-fuel cutting, it is a low cost and basic equipment suitable for cutting, gouging and other jobs such as welding and heating. The work is based on manual or mechanized operations, suitable for site work. It uses a cutting Torch (mostly angled at 90 degrees to provide more power) to heat the metal to its auto ignition temperature. A stream of oxygen is then trained on the metal, burning it into metal oxide that flows out of the slag. In gas cutting the oxygen is increased to raise the temperature to melting point and also blast away debris.

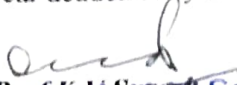
ELIXER WATER PURIFIER: Water purifier manufacturing unit in *Elixer India Pvt. Ltd.* Water purifiers incorporated RO & UV purifying technology having varying liters of water storage capacity that are suitable for school, college, hostel, hotel, hospital, office, Bank, Factory, Industry, Temple, Church, Mosque etc.



SKF Elixir unit

Final Words

Totally it was an informative, interesting and a successful visit. As students of Mechanical & Computer science Engineering we got awareness in developing, designing, manufacturing and fabricating machinery tools, software/hardware assisted industrial equipment's. The visit also benefited with practical knowledge linking to theoretical aspects that are prescribed for first year academic syllabus.


Prof. K. H. Suresh
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ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Affiliated to Visvesvaraya Technological University, Belagavi Approved by AICTE, New
Delhi & Recognised by Government of Karnataka)
Shobhavana Campus, Mijar – 574225, Moodbidri.
Dakshina Kannada Karnataka, India.



Activity Report on **“MOU between AIET and SKF boilers and driers Pvt** **Ltd”**

Academic Year
2019 - 2020

CONTENT

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3	Mail conversation	4-6

Academic year 2019-2020 (Odd)

Sl.no	Type of activity	Name of the organisation	Resource person /guide name	Faculty	Date	duration
1	Visit	SKF Boilers & Driers Pvt Ltd Moodbidri	Mr.Prajwal Achar	Prof.K.V.Suresh and Dr.Satyanarayan	25-11-2019	Half day
2	Visit	SKF Boilers & Driers Pvt Ltd Moodbidri	Mr.Prajwal Achar	Prof.K.V,Suresh	23-12=2019	30 Days

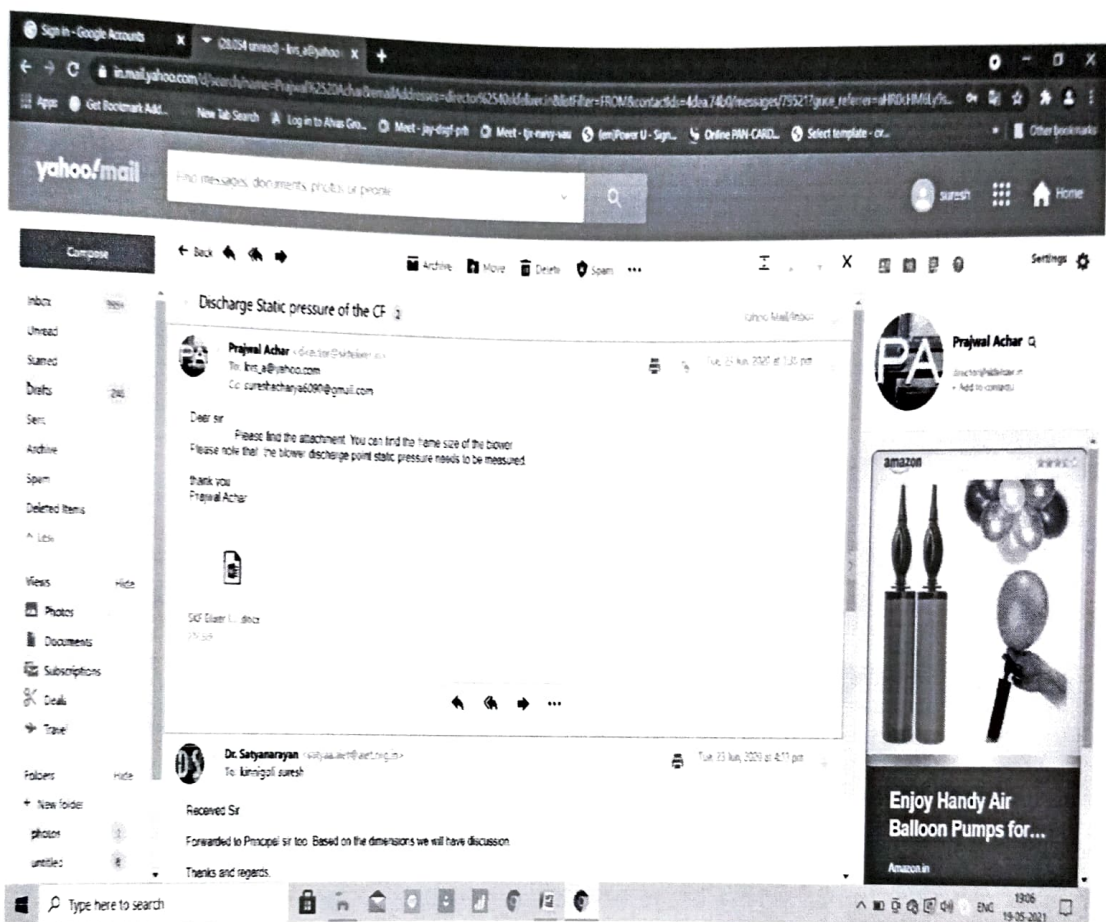
Name of the coordinator: Prof. K V Suresh

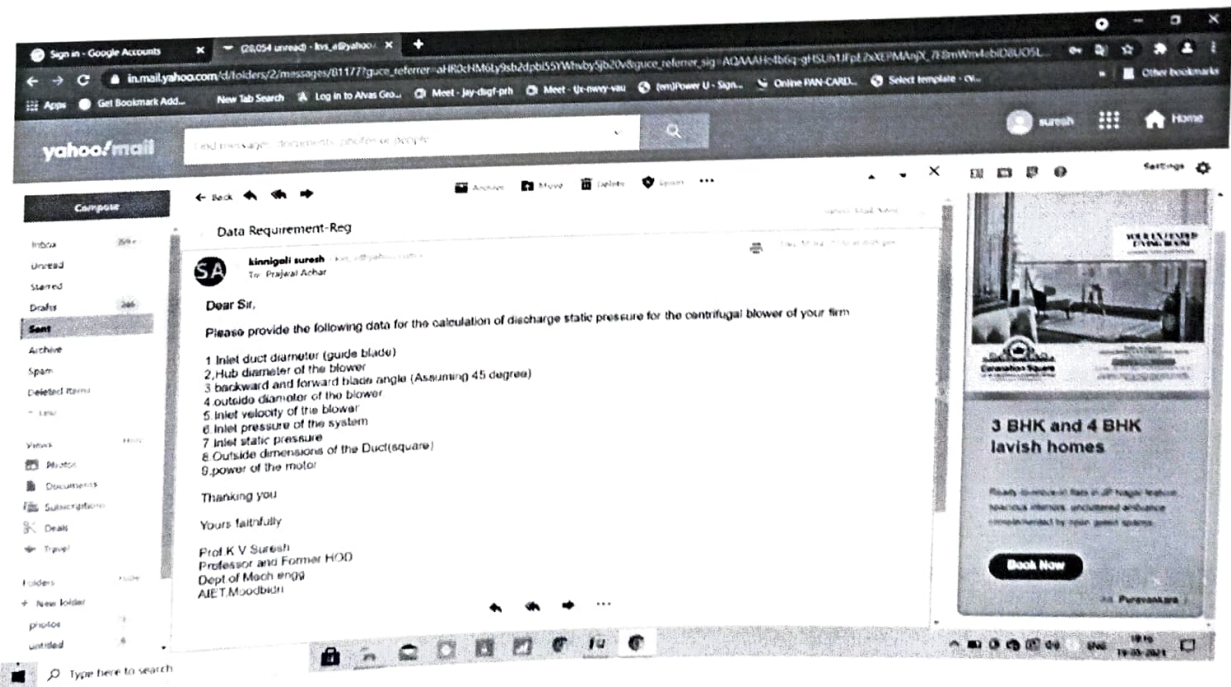
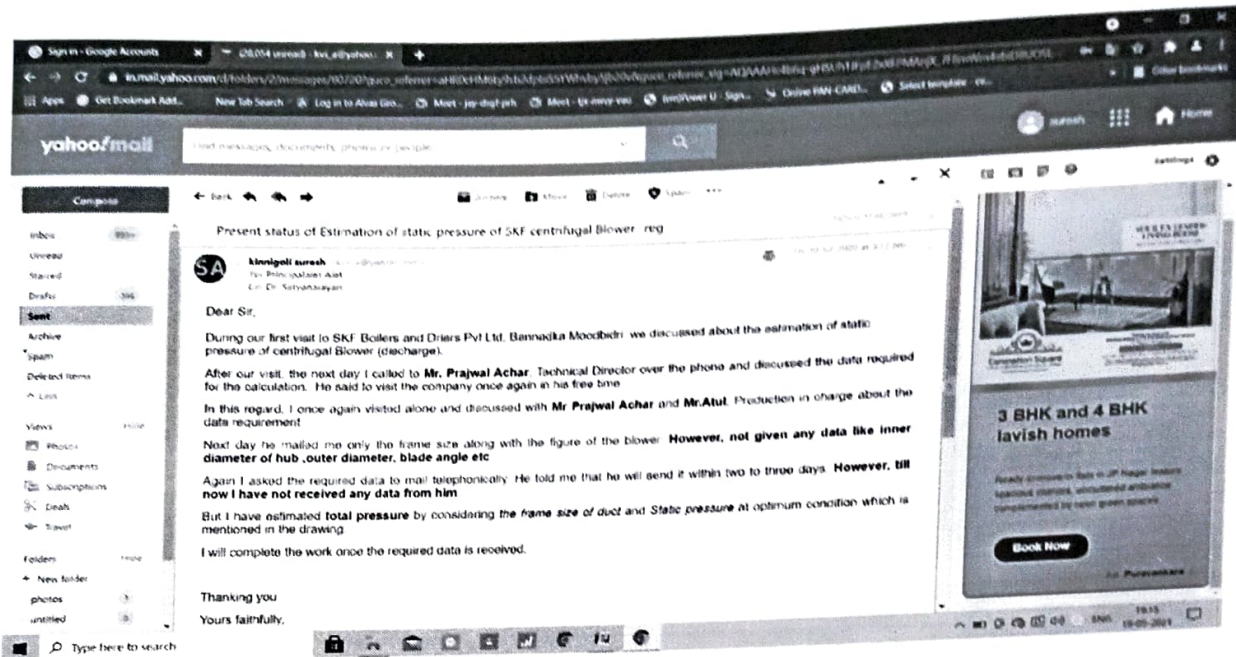
Academic year 2019-2020 (Even)

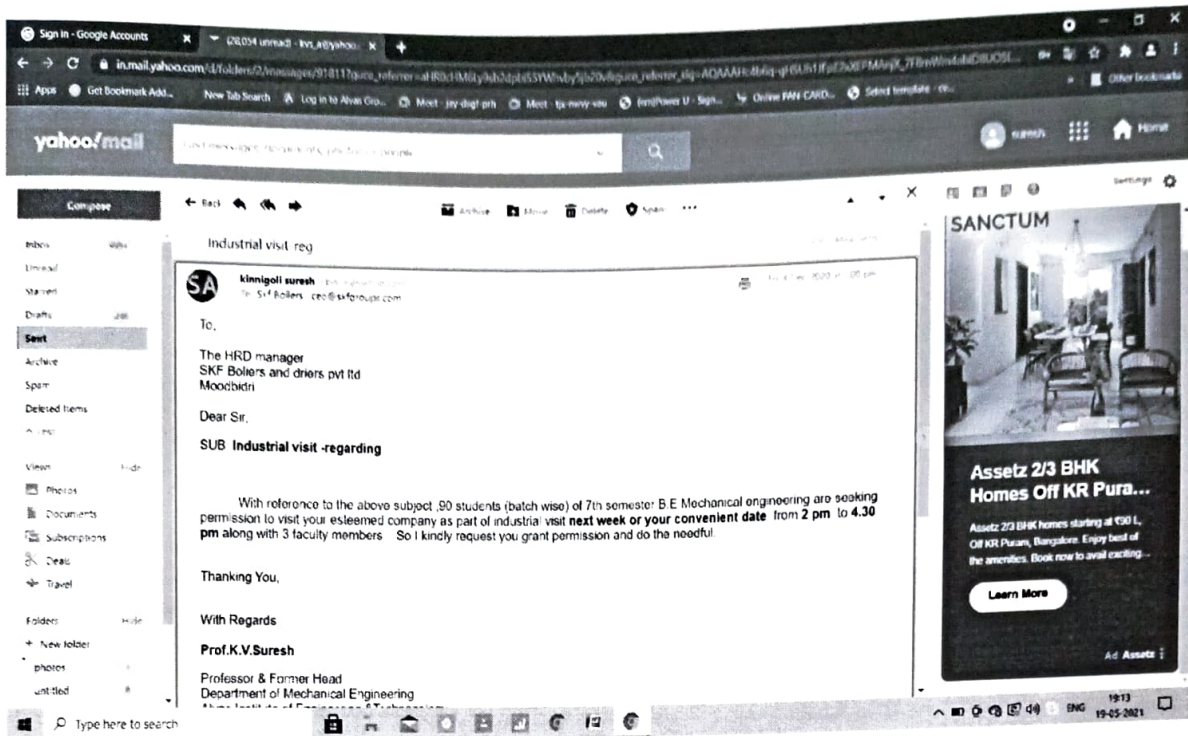
Sl.No	Type of activity	Name of the organisation	Resource person	Faculty	duration
1	Design of Centrifugal Fan	SKF Boilers and driers Pvt Ltd	Mr.Prajwal Achar and Atul Achar	Prof,K.V.Suresh	Half day
2	Design	same	Mail to Technical Director	Prof.K.V.Suresh	10 days

Industrial visit and Internship for the students, company does not give permission due to RENOVATION of the Company

Mail conversation







Due to renovation and COVID -19 the industry was not given permission to visit the company as well as internship for our students.

Prof. K. V. Suresh
Coordinator
Dept. of Mechanical Engg.
Alva's Institute of Engg. & Technology
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Activity Report on “MOU between AIET and SKF” Academic Year 2020 - 2021

COORDINATOR:
Prof.K.V.Suresh
Dept.ofMechanical Engineering

Content

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2	Internship details	18/12/2020	5
3	Mail conversation details	18/12/2020	6-7
4	Industry visit	03/08/2021	8-12

Progress report on Industrial MOUs and Academic Collaboration

Department of Mechanical Engineering

Name of the coordinator: Prof.K V Suresh

Academic year 2020-2021

Sl.no	Type of activity	Name of the organisation	Resource person /guide name	Faculty	Date	duration
1	Visit	SKF Boilers & Driers Pvt Ltd Moodbidri	Mr.Prajwal Achar	Prof.K.V.Suresh	20-11-2020	Half day
2	Visit	SKF Boilers & Driers Pvt Ltd Moodbidri	Mr.Prajwal Achar	Prof.K.V,Suresh	23-12-2020	3 Days
4	Design of Centrifugal Fan		Mr.Prajwal Achar	Prof.K.V,Suresh	21-07-2020	30 days

Internship details

Sl.No	Type of activity	Name of the organisation	Name of the candidate	Year of collaboration	Duration
1	Internship	SKF boiler and drier Pvt Ltd Moodbidri	ARJUN R	2021	17/03/2021 To 17/04/2021
2			RAGHAVENDRA M G		17/03/2021 To 17/04/2021
3			RAKSHAK RAI		17/03/2021 To 17/04/2021
4			ROHAN PRABHU		17/03/2021 To 17/04/2021
5			VISHAL S		17/03/2021 To 17/04/2021
6			ASHISH S SHETTY		17/03/2021 To 17/04/2021
7			ASHISH PINTO		20/03/2021 To 20/04/2021
8			RAJATH RAJ U K		17/03/2021 To 17/04/2021
9			LIKHITH POOJARY		17/03/2021 To 17/04/2021
10			SAURAV MANIKANTAN		17/03/2021 To 17/04/2021
11			IRFAN B		17/03/2021 To 17/04/2021

Mail conversation

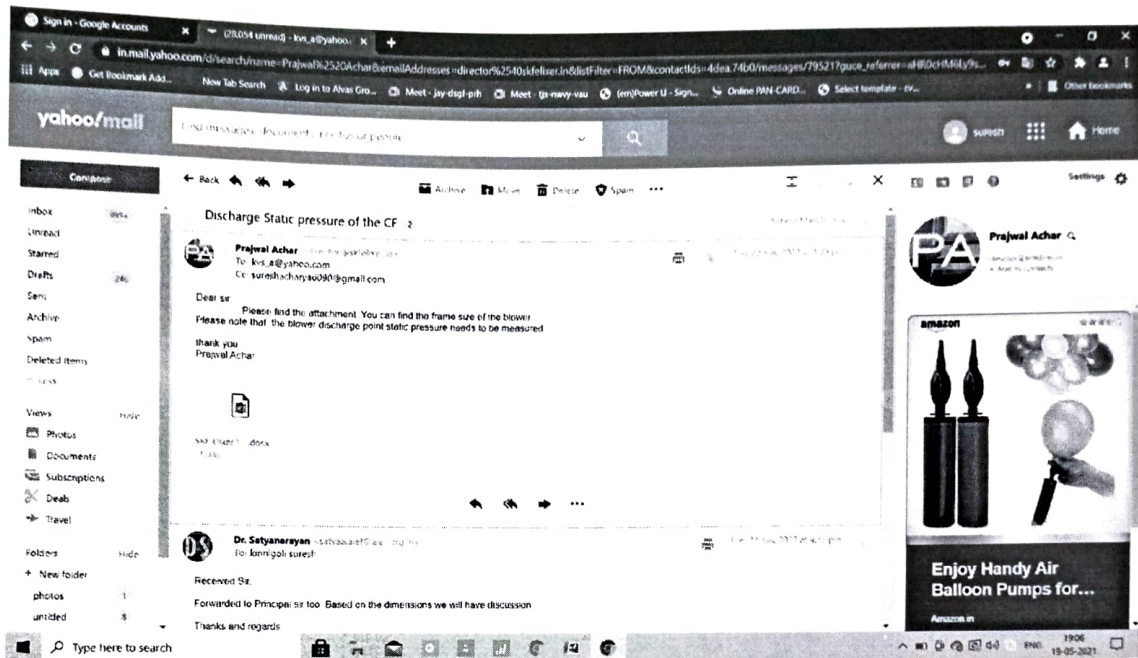


Fig 1 Mail conversation about Centrifugal fan design

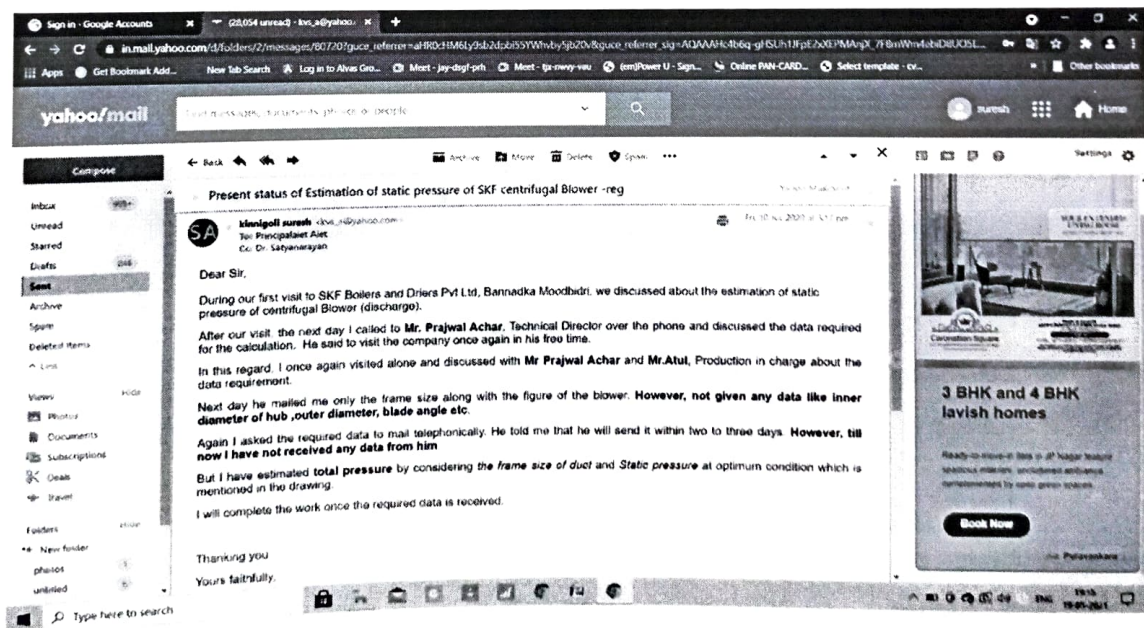


Fig 2. Mail conversation about Centrifugal fan design

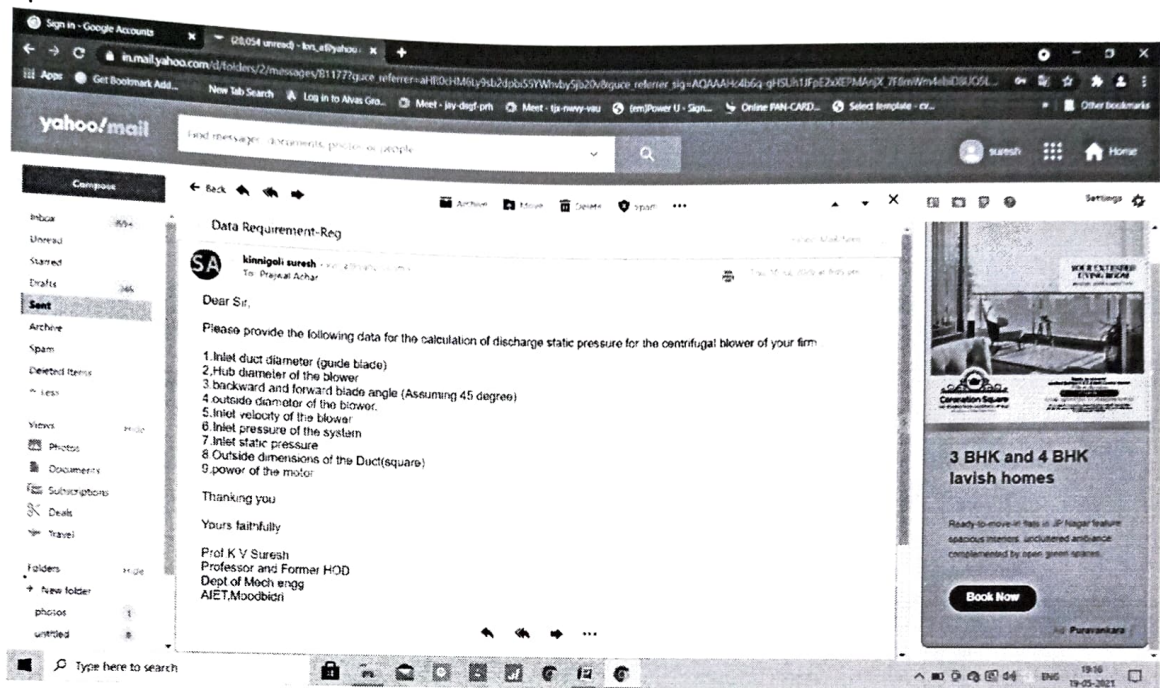


Fig 3. Mail conversation about Centrifugal fan design data collection

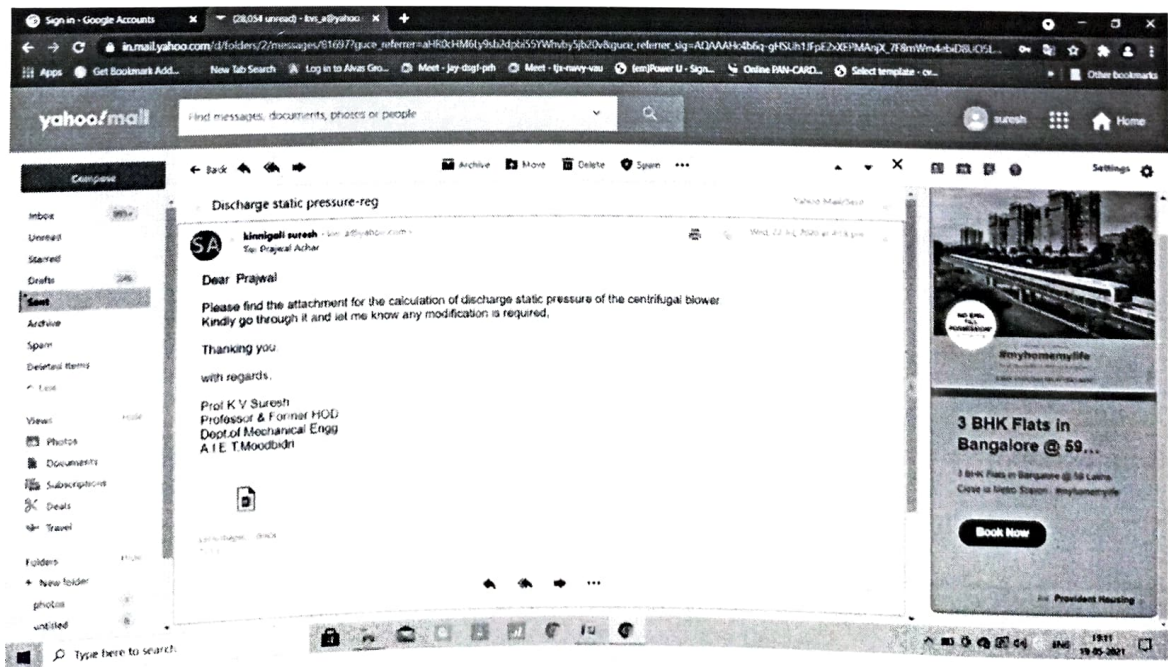


Fig 4. Mail conversation about Centrifugal fan design final version

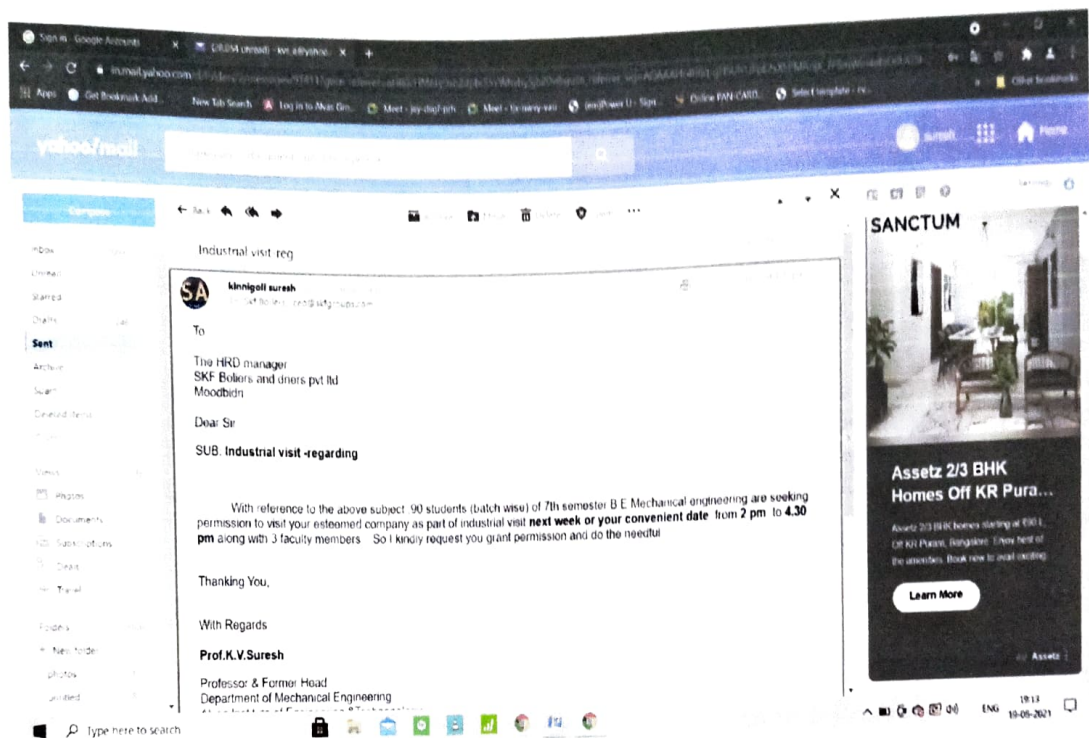


Fig.5 Mail conversation about industrial visit

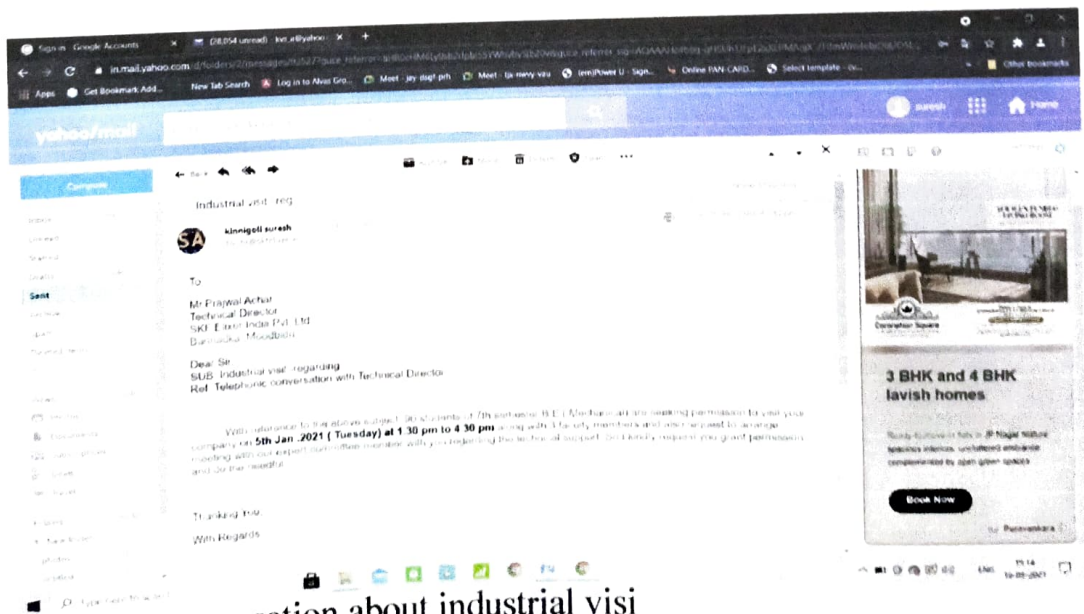


Fig 6.ail conversation about industrial visi

Industrial visit

Mechanical students of 3rd semester, AIET have visited **SKF Elixer India Pvt. Ltd, Bannadka, Moodbidri**, on 11th February 2021 as an Industrial visit. Totally 41 students were participated in this Industrial visit.

SKF Elixer India Private Limited was founded by **Sri G. Ramakrishna Achar** in the year 1990. He started this worldwide legacy with Paddy Processing Technology that has made SKF Elixer, a global leader in food grains. SKF Elixer then ventured into Water Purifiers, aiming to give the community access to safe drinking water. Today SKF Elixer is India's largest producer of commercial water purifiers.

After achieving success in the field of Paddy Processing and Water Purifying, SKF Elixer India Private Limited went on to redefine the Wastewater Treatment System by providing an effective solution for wastewater treatment and management. We aim to make pure water, nutritional food and a clean environment available to everyone.

We visited the campus at 2:30 pm and Campus in charge and Staff members of SKF given the Introduction about SKF to our students. Later they carry the students to different place of the plant where different work is under progressing. In the plant they are manufacturing the boilers for paddy processing and Water purifying components. Along with that our student observed different machining operations like Lathe operations, Drilling, Milling, Cutting, Punching, Sheet metal working and other joining processes like welding, soldering, Brazing, Laser welding, Gas cutting etc.

It was a good opportunity for our students to visit SKF plant and learn about all these fabrication processes and to gain the knowledge about Industrial environment and management.



Fig.7 Discussion with engineer at Elixer plant (water purifier section)



Fig 8. Discussion with Mr.Atul Achar Design engineer at the plant



Fig .9 At lathe machine section



Fig 10.At the drier plant



Fig 11.At punching section



Fig 12. Cutting machine section



Fig 13. In front of SKF Elixer pvt ltd Bannadka


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