
 <b>ZCOER</b> PUNE	<b>ZEAL EDUCATION SOCIETY'S</b> <b>ZEAL COLLEGE OF ENGINEERING AND RESEARCH</b> <b>NARHE   PUNE -41   INDIA</b>	
Record No.: ZCOER-ACAD/R26	Revision: 00	Date: 01/04/2021

**Students' Project Guide and Topic List**

Department: Mechanical

Semester: II

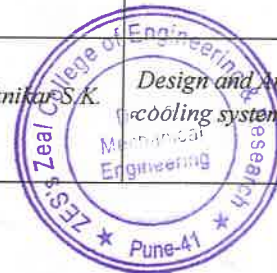
Academic Year: 2021-22

Class: BE

Div: All

Date:

Project Gr. No.	Roll No	Name of Students	Name of Guide	Project Title	Sponsored/ In-house
G1	B612028	KALE ANAND JAGJEEVAN	Prof. Godase S. M.	Solar Dryer with Thermal Energy Storage	In House
	B612012	GAJARE VINAYAK POPAT			
	B612039	LOKHANDE AMAN ANOSH			
	B612021	JADHAV RAJVEER HIMMAT			
G2	B624006	BASUTKAR APRATIM A	Dr. Bhamare Y.M	Manufacturing of recreational Vehicle	Sponsored
	B624010	BHOJANE RUTWIK ARVIND			
		BIRWADKAR KETAN			
G3	B624012	RATHOD AVISHKAR	Dr. Ubale A. B	Design and analysis of 3D printing battery bracket with experimental testing	In House
	B625040	KOTWAL UMER PASHA			
	B625022	BHISE BAJARANG			
	B625007	PAWAR GANESH LAXMAN			
G4	B613014	LOHOKARE TANMAY	Prof. Maknikar S.K.	Design and Analysis of Central cooling system using Ansys.	In House
	B625027	DEOKAR SURAJ ANIL			
	B625008	BHALE ASHWIN JITENDRA			
	B625006	YADAV AKASH ARJUN			





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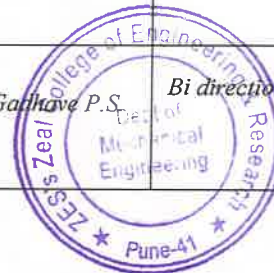


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Project Group No.	Roll No	Name of Students	Name of Guide	Project Title	Sponsored / In-house
G5	B611004	BARBHAI ANIKET KISHOR	Dr. Ritapure P.P.	Design and development of press	In House
	B611047	MHASKE VINAYAK			
	B613032	SHITOLE DHIRAJ PRAKASH			
	B613013	PATIL VISHWAJEET			
G6	B611029	KAKDE KUNDAN DILIP	Dr. Jagtap H.P.	Thermal Management of Li-ion Battery in an Electric CAR	Sponsored
	B611009	BHATTA RUTWIK KAILASH			
	B611025	GAWADE UDAY KIRAN			
	B611036	KHAMKAR NILESH			
G7	B611008	BHARGUDE ABHISHEK H	Prof. Kamble P.S.	Home Automation using Adriano	In House
	B611044	MANJARE DHIRAJ BALU			
	B613045	VISHWAKARMA ATMARAM			
	B613022	RAJIWADE RAHUL DILIP			
G8	B613004	NIGADE ROHIT SHIVAJI	Prof. Aldar B.D.	Four comports Tanker Design for failure reduction & minimum water loss	In House
	B613035	SONAWANE NILESH			
	B611016	DESHPANDE RAJ SUNIL			
	B613020	RAJESHIRKE INDRAJEET			
G9	B613037	SURAVKAR JAY SANTOSH	Prof. Adewar S.S.	Control and operation of Industrial Robot	Sponsored
	B613041	TAWARE SWAPNIL VASANT			
	B612003	BHURE VARUN DILIPBHAI			
	B612004	BINGUNDI ANIRUDH			
G10	B612008	DAIVADNYA GAYATRI	Prof. Gadhave P.S.	Bi direction air flow by cooling fan on tractor	In House
	B612030	KATU PRERANA MOHAN			
	B625033	NARALE AMEYA LAHU			
	B625034	PATIL NIKHIL ANIL			





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G11	B612029	KAMBLE SUSHANT	Prof. Bhoite K.L.	Modify a machine for manufacturing power block from plastic waste.	In House
	B613047	YADAV ABHISHEK SHIVAJI			
	B613025	RAUT SOURABH			
	B613050	ZAGADE ABHISHEK ANIL			
G12	B611033	KATKAR SNEHAL	Prof. Magade P.B.	Design and fabrication of Cylindrical tank cleaner	In House
	B611031	KAMBLE VIKRAM RAJAN			
	B611050	NAGVANSHI YOGITA			
	B611048	MUNDE ASHWINI VISHNU			
G13	B612050	NURAJI AMMAR IQBAL	Prof. Deshmukh J.A.	Battery Thermal Management system	In House
	B612053	SHAIKH NOORUDDIN			
	B612044	MORE ANKIT RAJARAM			
	B612046	NAIK MOHD HAROON			
G14	B612005	BIRAJDAR VISHAL ANIL	Prof. Mali L.B.	Experimental testing and analysis of optimized existing lower control arm	In House
	B612013	GARAD ANIKET SUDAM			
	B612048	NAVALE PRAVIN VILAS			
	B612002	AWALE SHUBHAM SHIVAJI			
G15	B611017	DHAIGUDE ANUP	Prof. Gadpayle U. K.	Design and analysis of thermo siphon heat pipe with metal oxide naon fluid	In House
	B611015	DEOKAR ATHARVA			
	B611003	AJMIRE PRAJWAL KISHOR			
	B611005	BARIDE PURUSHOTTAM			
G16	B612037	LEKAWALE PRANIL	Prof. Gadekat T D	Design and development of rolling machine shaft	Sponsored
	B611013	BIRAJDAR PRASAD BALAJI			
	B612017	GUJARE DEEPAK			
	B612032	KHAIRNAR CHETAN VIJAY			





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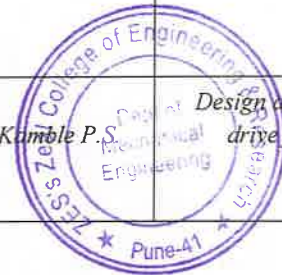


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G17	B612007	CHAVAN POOJA	Prof. Nikam S.	Archimedean screw power generation	In House
	B613049	YENPURE BHARAT			
	B612011	FUTANE PRASANNA RAM			
	B613030	SHELKE MAYURESH			
G18	B611023	GALANDE AVADHOOT	Prof. Bhoite K.L.	Automated Wheat Straw Cutting Machine	In House
	B611028	JADHAV SWAPNIL UMESH			
	B611027	GODSE ISHWANKU SANJAY			
	B611001	ABHINKAR ATHARVA			
G19	B613039	SURYAWANSHI STIFAN	Prof. Gujar S.H	Agriculture Fertilizer Drone	In House
	B613009	PATIL JAGRUT BHAGWAT			
	B625035	PATIL RUSHIKESH SANJAY			
	B613008	PATIL HINDURAO			
G20	B611019	DHUMAL PRATHAMESH	Prof. Bombale R.R.	Design and Fabrication of Automatic Sugarcane bud cutter	Sponsored
	B611040	LOKARE SWAPNIL			
	B611010	BHOSALE SUMIT			
	B624050	WAGHMODE RUTURAJ			
G21	B612010	DUDHANE PRASAD	Prof. Powar N.S.	Inclined Breaking system for 4 wheeler	In House
	B612009	DHENE DINESH POPAT			
	B612033	KHIRID SUJIT			
	B612006	CHANDANSHIVE AKASH			
G22	B624038	POTDAR SHUBHAM	Prof. Kumbale P.S.	Design and analysis of two wheel drive fork lift for industrial warehouses	In House
	B624013	CHATE MADHUSUDAN			
	B624003	ASMAR SHARDUL VINOD			
	B624037	PAWAR ANIKET			





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G23	B611045	MARJE PRATIK RAVINDRA	Prof. Gandigude A.U.	Design and analysis of two wheel drive fork lift for industrial warehouses	In House
	B611038	KONDE ASHITOSH NILESH			
	B611041	LONARE SANKET			
	B611039	KUMBHAR DEEPAK			
G24	B624014	CHAUDHARI ANIRUDDHA	Prof. Patil K.S.	Earth Tube Heat Exchanger	In House
	B624047	TEKALE GANESH VISHNU			
	B624044	SAWALKAR SHUBHAM			
	B624007	BENDALE TEJAS			
G25	B625018	KALEKAR NILESH	Prof. Deshmukh J.A.	Analysis of glass fiber sheet based o glass fiber orientation of working structure.	In House
	B625049	TAPKIR SHUBHAM			
	B625051	WAGH ROHIT TANAJI			
	B625054	YADAV SHUBHAM			
G26	B625016	JADHAV GANESH	Prof. Survase N. B.	Design and development of agriculture cultivator	In House
	B625032	NADRE DIPAK YASHWANTA			
	B625019	KHANDAGALE KAILAS			
	B625010	GADADE SWAPNIL			
G27	B613051	RATHIWADEKAR PRATEEK	Prof. Kamble R.S.	Power generation using LAT machine in GYM	In House
	B613031	SHIRKE VIVEK DILIP			
	B613017	PAYGUDE OMKAR ASHOK			
	B613010	PATIL MAHESH UMESH			
G28	B612026	JAWALGIKAR ISHA	Dr. Bhamare Y.M	Design and shape optimization of industrial crane hook	In House
	B612043	MHASAWADE RADHIKA			
	B625046	RAUT ANKUR			
	B611045	SHETE PRATIK PRAVIN			





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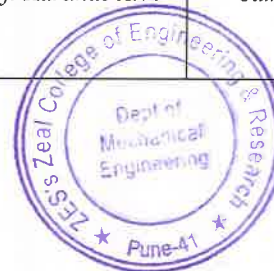


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Project Group No.	Roll No.	Name of Students	Name of Guide	Project Title	Sponsored/ In-house (if sponsored, name of sponsor organization)
G29	B625012	GHADWALE PRANAV	Dr Kate A.M.	Heat Pipe Heat Exchanger	In House
	B624024	KADAM SURAJ KALYAN			
	B625020	KHUSTULE TEJAS PRAVIN			
	B625048	SUTAR OMKAR SHANKAR			
	B624005	BARGAJE AJAY DAJIBA			
G30	B612014	GHUTE DIVYARAJ	Dr. Jagtap H.P	Influence of Shock Observer in battery pack's housing of EV using FEA and UTM	In House
	B612054	SHIVARAJ MOHAN			
	B613024	RANSING SOHAM SANTOSH			
	B612035	KORPAD PREM PRAMOD			
G31	B625028	MALEQUE ABDUL	Prof. Borade S.S	Design Modifications and Analysis of Heat Exchanger	Sponsored
	B625013	GHOSPURKAR SHIVANI			
	B625031	MORE SNEHAL ROHIDAS			
	B613012	PATIL SNEHA SUNIL			
G32	B612023	JAGATAP ABHISHEK	Prof. Kulkarni S. S.	Design and fabrication of Pneumatic Punching Machine	In House
	B612024	JAGTAP PRASAD			
	B612027	KADAM PRATIK SANJAY			
	B624011	BHOSALE AKSHAY			
G33	B624025	KASHID CHANDRAKANT	Prof. Karande A.V.	Design and development of Pneumatic bumper and automatic braking system.	In House
	B624019	GAIKWAD VIVEKANAND			
	B624046	TAWAR RAJSING			
	B624027	LOKHANDE PANKAJ			





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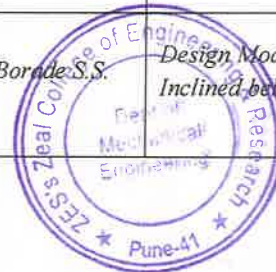


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G34	B613016	PAWAR SWAPNIL RAJESH	Prof. Randive V. A.	Design of Rocker Bogie Mechanism	In House
	B613043	THOPATE AKSHAY			
	B611046	MASKE SURAJ BALU			
	B611032	KASPATE SANKET			
G35	B624002	ARKAL VARUN SUNIL	Prof. Kamble D.P.	Experimental and CFD Simulation of Fins for 2-wheeler engine	Sponsored
	B624020	GULVE KUNAL NARENDRA			
	B625052	WARALE PRASAD			
	B625036	PATIL RUSHIKESH SHARAD			
G36	B625003	ALASE HARSHVARDHAN	Prof. Karande A. V.	Design of Pipe Inspection robot for all pipeline	Sponsored
	B625026	LANJEWAR KAJOL			
	B625045	SASTIKAR ABHIRAM			
G37	B612051	PAL ANAND ACHCHHELAL	Prof. Gadpayale U. K.	Design and Manufacturing of Pneumatic seal Testing machine	Sponsored
	B613005	PANDIT OMKAR			
	B612018	HAJARE AKSHAY VINAYAK			
	B612047	NARAWADE VAIBHAV			
G38	B625042	SALI VINAYAK UMESH	Prof. Survase P.M.	Design and fabrication of Pneumatic Punching Machine	In House
	B624017	RAUT SAURABH SUNIL			
	B624022	DHOKALE PRASAD			
	B613006	JADHAV AVADHUT			
G39	B613029	PARAB SWAPNIL	Prof. Borade S.S.	Design Modification and Analysis of Inclined belt Conveyer	Sponsored
	B611024	SHELAR ROHIT			
	B613016	SUKI SHANKAR SANDESH			
	B613043	GAWADE AMAR			





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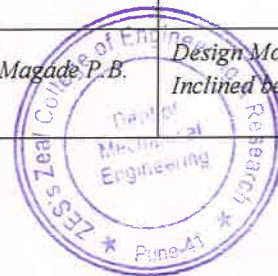


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Project Group No.	Roll No.	Name of Students	Name of Guide	Project Title	Sponsored/ In-house (if sponsored, name of sponsor organization)
G40	B625001	ADSUL SUNIL ARJUN	Prof. Godase S. M.	Automatic rain operated wiper	In House
	B625011	GAPAT RAJKUMAR			
	B625015	JADHAV DHIRAJ			
	B625014	GUND VISHAL ACHYUT			
G41	B612034	KOCHARI ATHARV	Prof. Aldar B. D	Design ,development and Analysis of 1000 ton forging press	In House
	B612019	HANDE VARUN DILIP			
	B612001	AMANGI CHARUDATTA			
G42	B613033	SHIVANKAR MRUNAL	Prof. Kulkarni S. S.	Modelling and Analysis of Electric Car Chassis in Solid Work and AnSYS Software	Sponsored
	B613038	SURYAWANSHI SAINATH			
	B613002	KALE SURAJ SUNIL			
	B613001	DESHMUKH KRUSHNA			
G43	B612041	MANE RAJ SUDHAKAR	Prof Adewar S.S.	Design & Analysis of Injection Plastic Molding	Sponsored
	B612031	KENGAR SUHAS			
	B612042	MANERKAR PRATHAMESH			
	B612038	LINGADE KAILAS PUNDLIK			
G44	B625017	KADAM SWAPNIL	Prof. Gadpayle U. K.	Robotic Arm	In House
	B625005	BAUSKAR TANMAY			
	B625038	POTDAR KIRTI VIJAY			
	B625030	MORE SHIVANI SUDHAKAR			
G45	B624009	BHOJ AKSHAY ANIL	Prof. Magade P.B.	Design Modification and Analysis of Inclined belt Conveyer	In House
	B624032	MORE YASH SHANKAR			
	B624004	BAGAL SATYAJIT			







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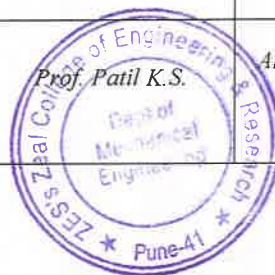


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G46	B625023	KUDALE PRANAV HEMANT	Prof. Kamble D.P.	PCM Heat Exchanger	In House
	B625002	AJURKAR MAYUR			
	B625029	MAWAL TUSHAR SUBHASH			
	B625021	KOHADE RAJAT RAMDAS			
G47	B611035	KHALADKAR SHUBHAM	Prof. Maknikar S.K.	Acetylen as IC Engine Alternative fuel.	In House
	B611049	NAGARGOJE UTKARSHA			
	B611006	BAVISKAR AMIT ANIL			
	B611037	KOLI AVINASH NARSING			
G48		RAMSINGH RAJPUROHIT	Prof. Randive V. A	Design and fabrication of pedal operetaed can crusher	In House
	B613042	TAYADE SACHIN ASHOK			
	B613026	REKHALE PRASHANT			
G49	B612015	GOGAWALE TANMAY	Prof. Karande A.V.	Design and Fabrication of automatic adjustable ground clearance in vehicle	Sponsored
	B612045	NAIK MOHAK SATYAVAN			
	B613040	SURYAWANSHI TEJAS			
	B611022	GADGIL VISHAL SHRINIVAS			
G50	B613044	VIBHUTE SHUBHAM	Prof. Wakchoure G.N.	Assembly stand for low range pressure switch	In House
	B625043	SALVE RAHUL SUNIL			
		PATIL VISHVAJEET			
	B624015	DAKVE BHAVESH SURESH			
G51		GUNGE VINEET	Prof. Patil K.S.	Analysis of BS4 VS BS6 engine using different types of fuels	In House
	B624001	AKERKAR OMKAR SHARAD			
	B624045	SHIRKE VIRAJ KUMAR			
	B624031	MORE MAYUR KAILAS			
		NINAD INAMDAR			





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G52	B624030	MORE MAHESH	Prof. Gadhave P.S.	Analysis of forced convection heat transfer from smooth and rough surface	In House
	B624042	SAKPAL SHUBHAM			
	B624048	UPADE ANIKET MAHADEV			
	B624016	DANGE PRATHAMESH			
G53	B611030	KALE SHUBHAM VASANT	Prof. Randive V. A	Archimedes Wind Turbine	In House
	B611014	CHAVAN PRATAPSIKH			
	B611011	BHURE NAGESH			
	B613007	PATIL DEVENDRA			
G54	B612016	GORAD PRADHIM	Prof. Charthaj S.M.	Assembly stand for low range pressure switch	Sponsored
	B613028	SAYYAD SHARIF ISMAIL			
	B612025	JARIKOTE MAHESH BALAJI			
G55	B613018	PHALKE MAHESH PRADIP	Prof. Survase N.B.	Solar Assisted grass cutter	In House
	B611021	FADALE ANIKET JAYESH			
	B611012	BIDVE ABHIJIT SUNIL			
	B611007	BHALERAO SWAPNIL			
G56	B624036	PATIL ABHIJEET NAMDEO	Dr. Ubale A.B.	Design and fabrication of mixture and extrusion die	In House
	B624040	RAWOOT FAIZAN MOOSA			
	B624034	PAREKH SMIT MILIND			
	B624041	SAKPAL ANIKET MANGESH			
G57	B625039	PUJARI VISHAL TANAJI	Prof. Mali L.B.	Automatic bumper for four wheeler	In House
	B625044	SANAP NIKHIL POPAT			
	B625009	DHONDGE TIRUPATI			
	B625050	TAPSE AKSHAY SUNILRAO			



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G58	B624051	ZALTE AMIT SUNIL	Dr. Ritapure P.P.	Shell and Tube Heat Exchanger	In House
	B624035	PARMAR NARESH JAGDISH			
	B624026	KOTHALKAR SAHIL			
	B624043	SARADGI HANMANTH			
G59	B611043	MANGLEKAR SUSHANT	Prof. Suryavanshi A.R.	Design and Development of Hybrid Solar Dryer	In House
	B611042	MANDAVKAR SHUBHAM			
	B624018	DOHALE GAURAV			
G61	B624033	NIRGUDE MANOJ	Prof. Gujar S.H	Design and fabrication of automatic ground clearance height adjustment mechanism	Sponsored
	B624028	MOHOLKAR SUNIL			
	B612052	PAWAR ASMITA			
	B613015	PAWAR KIRAN MOHAN			
G62	B611020	DOIPHODE PRATIK	Prof. Kamble R.S.	Water electro bicycle.	In House
	B611026	GHUME SHRIJAY SUNIL			
	B611034	KAUSTUBH BHASKAR			
	B612020	INAMDAR ADITYA SANJAY			
G63		JADHAV VAIBHAV	Prof. Nikam S.	Design and development of agriculture cultivator	In House
	B612036	KSHETRI KIRAN ASHOK			
	B612040	MAHAJAN AKSHAY			
	B612049	NIKAM SHUBHAM			
G64	B613011	PATIL SAURABH SUBHASH	Prof. Bombale R.R.	Analysis of 2 wheeler suspension spring using FEA for different material	In House
	B613021	RAJIVADE ROHIT			
	B624049	WAGHMARE UMESH			
	B624052	TANDLE ADITYA ANIL			



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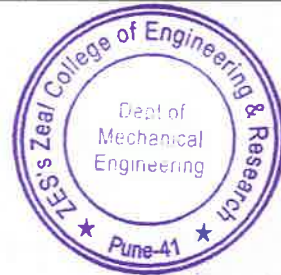
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G65	B624053	LOHKARE BHAGWAN	Prof. Charthal S.M.	Design and development of tyre inflation system.	In House
	B625004	BARAVKAR SAGAR LAXMAN			
	B625024	KULKARNI AMOL			
	B625025	LABADE SHARAD NARAYAN			
G66	B625047	SHILIMKAR	Prof.Gadekar T.D	Design and development of agriculture cultivator	In House
	B613003	KUNVAR KRUNALBHAI			
	B624023	JADHAV MAHESH			
	B624029	MORE MAHESH SANJAY			
G67	B613019	PRATIK SANJAY PULUJKAR	Prof.Wakchoure G. N.	Design & Analysis of plastic mold to eliminate defects.	Sponsored
	B611002	HAI ABUZAR ABDUL			
	B611018	DHIRAJ SWARUP DHUMAL			
	B613027	SANKPAL SOURABH			
G68	B613034	SINGH ANIKET	Prof.Jagtap V.	Development of360 degree welding Machine	Sponsored
	B613046	WAGHMARE SAGAR ASHOK			
	B613048	YADAV JAYESH DHARMRAJ			
	B613052	MANE RAHUL ATMARAM			

  
Project Coordinator



  
Academic Coordinator

  
Head of the Department

Date - 22/09/2021

To  
Principal  
Zeal college of Engineering & Research  
Narhe, Pune-41

Sub - for requesting the application letter  
for Sponsorship

Dear sir

I am swapnil .R.kadam from BE & division E.  
In these year we have project so that our group  
decided to go for sponsorship project. for these  
purpose we required Application letter for sponsorship  
we trying to take sponsership from  
P&B technologies. The problem statement will be  
provided by company so we work on it.

So I request you to give us the  
application letter for the sponsorship

Your faithfully

Swapnil Kadam

Company Name &  
Address

- |                             |                    |  |
|-----------------------------|--------------------|--|
| 1) Kadam Swapnil Ramchandra | BE, E (8856816961) | — P&B Technologies<br>Mangalwar peth<br>Pune |
| 2) More Shivani Sudhakar    | BE E (9373605535)  |  |
| 3) Bauskar Tanmay           | BE E (9145161367)  |  |
| 4) Patdar Kirti Vijay       | BE E (8806843253)  |  |

(Letter given)



ZEAL EDUCATION SOCIETY'S  
ZEAL COLLEGE OF ENGINEERING AND RESEARCH  
NARHE | PUNE -41 | INDIA



Department: Mechanical Engineering

Semester: I

Academic Year: 2021- 22

Class: BE

Date: 28/08/2021

To,

The Director,

P&B Technologies,

Mangalwar Peth, Pune.

**Subject:** Regarding Sponsored Project for Engineering Students.

Dear Sir/Madam,

We introduce ourselves as "Zeal Education Society's, Zeal College of Engineering & Research, Pune", approved institute by AICTE & affiliated to Savitribai Phule Pune University. Our Institute is also well-known as "Educational Venture of Zeal Industries". We are running Engineering & Management courses in various streams.

To improve the practical knowledge during the Engineering Course, students are promoted to undergo sponsored projects in the industry.

In this context, you are requested to provide facilities for sponsored project in your esteemed organization to our below listed student in AY 2021-22. Please feel free to call if you require any further clarification.

Looking forward to a mutually beneficial relationship & with regards.

Sr. No.	Roll No.	Name of Student	Class	Contact No.
1	B625017	KADAM SWAPNIL RAMCHANDRA	BE E	8856816961
2	B625030	MORE SHIVANI SUDHAKAR	BE E	9373605535
3	B625005	BAUSKAR TANMAY S.	BE E	9145161367
4	B626038	POTDAR KIRTI VIJAY	BE E	8806843253

Thanking You,

Yours Sincerely,

1/10/2021  
Prof. Gadpayale U.K.

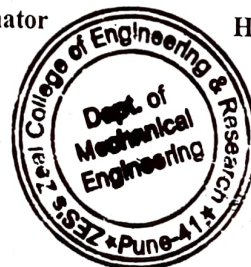
Project Guide

Prof. Karande A. V.

Project Coordinator

Prof. Godase S. M.

Head of Department



Department  
Mechanical Engg  
LCOER  
Date: 25<sup>th</sup> Sept 2021

Subject: BE Sponsored Project

Respected Sir,

I am Anand Achhhelal Pal, class - BE B  
Roll No. B612051.

I request you a letter regarding permission  
of Sponsored project.

Project Details are as follows:-

Project Name:- Small Press machine for Scrap metal  
Domain: Manufacturing

Company:- Aessed India Pvt. Ltd.

Address of Company:- Aessed India Pvt Ltd., Gate No 85,  
At Post Vavre, Taluka-Bhor,  
Maharashtra- 412205.

Project Group Member Details:- (G 37)

- 1) Narawade Vaibhav Ashok - Div B - 9960014729
- 2) Pandit Omkar Somnath - Div C - 9518744772
- 3) Hajare Akshay Vinayak - Div B - 9867092226
- 4) Anand Achhhelal Pal Div B - 9860835975

allowed

Prof. Gadpayale U.K.  
25/9/2021

forwarded  
A. V. Karle  
25/9/21



**ZEAL EDUCATION SOCIETY'S  
ZEAL COLLEGE OF ENGINEERING AND RESEARCH  
NARHE | PUNE -41 | INDIA**



Department: Mechanical Engineering

Semester: I

Academic Year: 2021- 22

Class: BE

Date: 25/09/2021

To,

The Manager.

Aesseal India Pvt.Ltd,

Varve, Bhore,Pune -412205.

**Subject:** Regarding Sponsored Project for Engineering Students.

Dear Sir/Madam.

We introduce ourselves as "Zeal Education Society's, Zeal College of Engineering & Research, Pune". approved institute by AICTE & affiliated to Savitribai Phule Pune University. Our Institute is also well-known as "Educational Venture of Zeal Industries". We are running Engineering & Management courses in various streams.

To improve the practical knowledge during the Engineering Course, students are promoted to undergo sponsored projects in the industry.

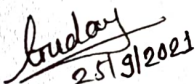
In this context, you are requested to provide facilities for sponsored project in your esteemed organization to our below listed student in AY 2021-22. Please feel free to call if you require any further clarification.

Looking forward to a mutually beneficial relationship & with regards.


Sr. No.	Roll No.	Name of Student	Class	Contact No.
1	B612018	HAJARE AKSHAY VINAYAK	BE B	*9867092226
2	B612051	PAL ANAND ACHCHELAL	BE B	9860835975
3	B612047	NARAWADE VAIBHAV ASHOK	BE B	9960014729
4	B613005	PANDIT OMKAR SOMANATH	BE C	9518744772

Thanking You,


Yours Sincerely,

  
25/9/2021  
Prof. Gadpayale U.K.

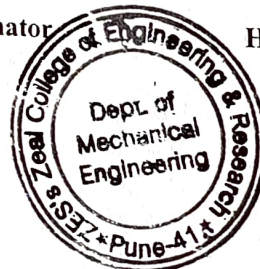
Project Guide

  
25/9/2021  
Prof. Karande A. V.

Project Coordinator

  
Prof. Godase S. M.

Head of Department





Zeal Education Society's  
Zeal College of Engineering and Research  
Narhe, Pune -411041



## CERTIFICATE

This is to certify that *Mr. Rohit Dattatray Rajivade, Mr. Saurabh Subhash Patil, Mr. Umesh Hanmant Waghmare* have successfully completed the Project Stage – II entitled “Analysis of Two Wheeler Suspension Spring by Using FEA for Different Materials” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : 27/05/2022

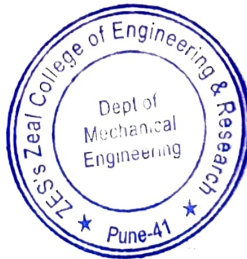
Place : Pune.

**Prof. R. R. Bombale.**

Project Guide

**Prof. S. M. Godase**

Head of Department



Internal Examiner

**Dr. A. M. Kate**

Principal

**External Examiner**

Torque = 196.2 N-m.

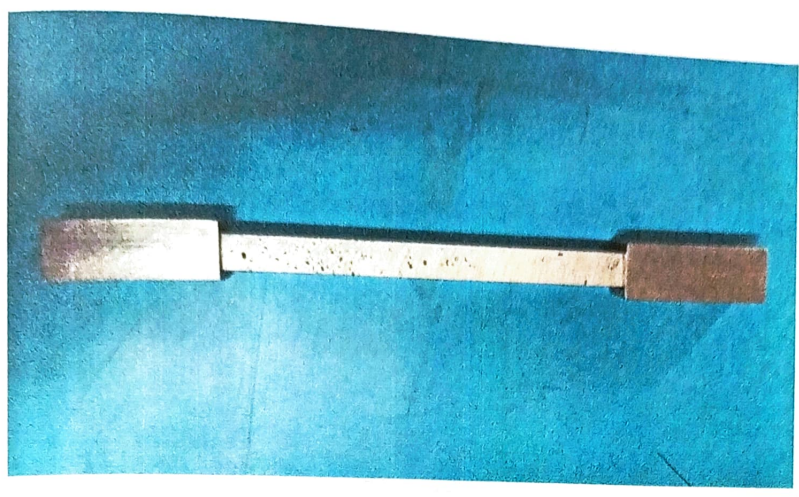


Fig. 4.2 Test Specimen.

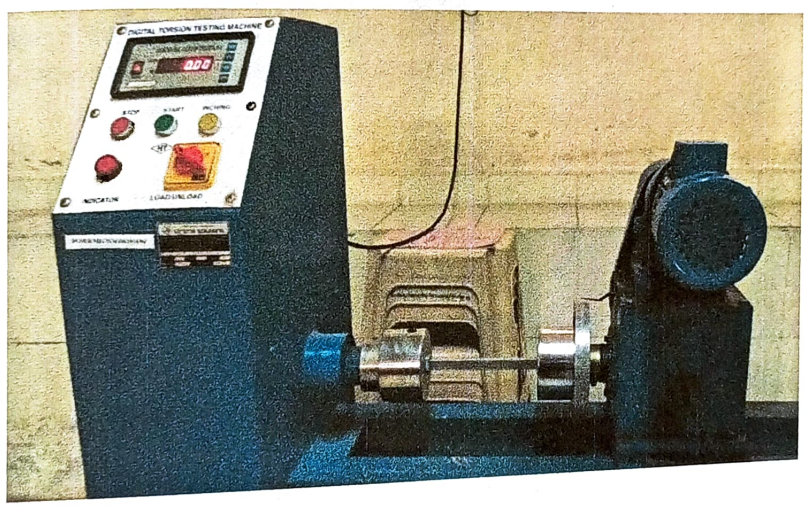


Fig. 4.3 Torsional Testing Machine.


## 4.2. Finite Element Analysis -

### 4.2.1. Preparation of 3D model for FEA -

A 3D model of a helical suspension spring is created by using SOLIDWORKS. The specifications of spring are as follows;


1. Diameter of wire (d) = 8 mm.

APPENDIX



## PROMPT METALLURGICAL SERVICES

Address : Survey No. 36, Hissa No. 1/3/1,  
Between Khedekar Industries & Canara Bank, Narhe, Pune - 411041.  
Mobile: 8149024626, 9850149329, 9850273858  
Website : www.promptpune.com | Email : pms.vvraje@gmail.com / promptmetallurgicalservices@gmail.com



TC-6811

Scope : Chemical Testing - Optical Emission Spectrometer (Steel, Aluminium & Its Alloys, Copper & Its Alloys)  
Mechanical Testing : Hardness Test, Micro Hardness Test, Metallography Test, Tensile Test, Bend Test

---

F / 7.8 / 06

Test Report

( Aluminium & Aluminium Alloys )

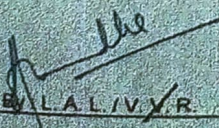
Work Order No.	12335	Page No.	1 of 1
Test Report No. / Date	ULR - TC6811220000001002F / 12-03-2022	Challan No.	Letter
Date of Test Performance	12-03-2022	Date of Receipt	12-03-2022
Customer Name & Address	M/s. Rohit Rajivade - Mo. 9511989679. ( Zeal College, Narhe Gaon, Pune ).		
Customer's Data	15 mm Sq. Gravity Die Casting Aluminium Bar Cut Piece ( Witness Test )	Qty.	01 No.
Condition of the sample	Heavy porosity.		
Customer's Specification	---	Err. Cond.	25.4°C
Methods Used	Hardness ( IS : 1500 - Part 1 - 2019 ), Tensile Test ( IS : 1608 - 2018 ), Bend Test ( IS : 1599 - 2019 ).		

	Mechanical Testing - 1. Mechanical properties of metals	Company's Specification
C	Hardness	Hardness cannot be determined due to heavy porosity
D	Tensile Testing	
	Yield Stress ( Mpa )	---
	Tensile Strength ( Mpa )	37.79
	% Elongation	---
E	Bend Test	Cracks observed at a Load of 1780 N

REMARK :

Observation given only.

(Statement of the remark is based on the specification provided by the Customer)

Tested By 

L.A.L / V.V.R.



Rohit D. Rajivade  
Witness by

Saurabh S. Palli  
Witness by

V.V. Raj / L. A. Londhe  
Authorised Signatory

End Of Report ( Terms and Conditions Overleaf )

Fig. Test Report.

	<b>ZEAL EDUCATION SOCIETY'S ZEAL COLLEGE OF ENGINEERING AND RESEARCH NARHE   PUNE -41   INDIA</b>	
Record No.: ZCOER-ACAD/R/21	Revision: 00	Date: 01/04/2021
<b>Letter of Thanks</b>		

Date: 16/02/2022

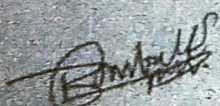
To,  
Mr. P.D. Jadhav,  
Director-Founder,  
Shagun Industries Pvt. Ltd.,  
Pune, India.

Subject: Letter of Thanks.

Respected Sir,  
The Zeal Education Society's Zeal College of Engineering & Research would like to thank you for giving permission to perform project work of final year students of group no. 64.

Sr. No.	Students Name	Class- Division
1.	Rohit Dattatray Rajivade	BE C
2.	Saurabh Subhash Patil	BE C
3.	Umesh Hanmant Waghmare	BE B

Thanking You,

  
Project Guide  
(P. R. Bombale)



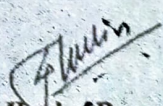
  
Head of Department  
Head of Department  
Dept. of Mechanical Engineering  
ZES's Zeal College of Engineering & Research, Pune-411004

Fig. Letter of Thanks for Shagun Industries Pvt. Ltd.

Zeal Education Society's

Zeal College of Engineering and Research

Narhe, Pune -411041



## CERTIFICATE

This is to certify that **Mr. KUNDAN KAKDE, Mr..RUTWIK BHATTA, Mr. UDAY GAWADE, Mr. NILESH KHAMKAR.** has successfully completed the Project Stage – II entitled “**Thermal Management of Li-ion Battery Battery cell For Electric Vehicles**” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : 27/05/2022

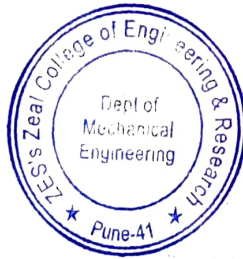
Place : \_\_\_\_\_

**Dr .H P. Jagtap**

Project Guide

**Prof. S. M. Godase**

Head of Department



Internal Examiner

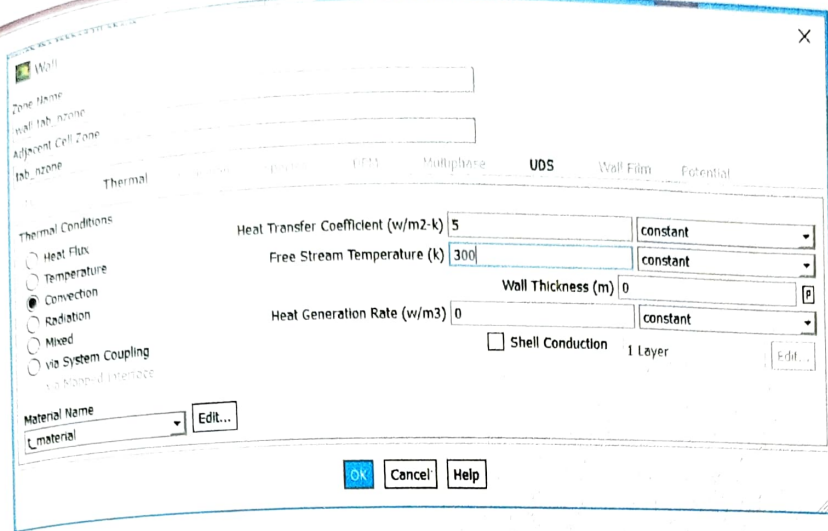
**Dr. A. M. Kate**

Principal

External Examiner

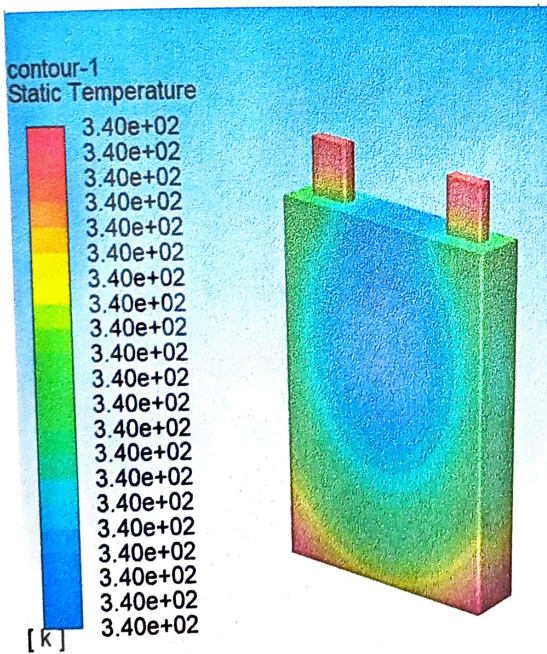
Seal

# Thermal Management Of Li-Ion Battery Cell For EV's



**Fig.3.4.11** Boundary condition for negative zone

Fig 3.4.10 and 3.4.11 shows boundary conditions for positive and negative zone which consist of thermal



**Fig.3.4.12** Battery result static temperature

Fig 3.4.12 shows static temperature varying in layers of battery under load condition on both positive and negative nod at a same time. Chart of temperature ranges according to colour are given.



**SAMVINSAN ENGINEERING Pvt Ltd**

Date: 8/10/2021

TO WHOM IT MAY CONCERN

Re: Official Approval letter

Greetings from SAMVINSAN ENGINEERING Pvt Ltd!

We would like to confirm that that

- Mr. RUTWIK K BHATTA ,
- Mr. UDAY K GAWADE,
- Mr. NILESH KHAMKAR ,
- Mr. KUNDAN D KAKDE,

A STUDENT OF B.E. (MECHANICAL), ZEAL COLLEGE OF ENGINEERING AND RESEARCH  
Is official recipient of scholarship, under the Academic project at SAMVINSAN ENGINEERING Pvt Ltd.

The approval consists of total expenditure required for completion of the project.

SAMVINSAN ENGINEERING Pvt Ltd is a Mechanical service-based company.

At SAMVINSAN ENGINEERING Pvt Ltd we're committed to deliver speedy and cost-effective services and solutions without compromising on quality.



Authorized Sign

SAMVINSAN Engineering Pvt. Ltd  
CIN: U74999PN2018PTC175036

Address: SR No. J63/1 Near Mahaveer Kunj Society, Santosh Nagar, Karaj  
Pune - 411046 Maharashtra, India. Email: info@samvinsan.com



**ZEAL EDUCATION SOCIETY'S  
ZEAL COLLEGE OF ENGINEERING AND  
RESEARCH  
NARHE | PUNE -41 | INDIA**



Record No.: ZCOER-ACAD/R/

Revision: 00

Date:01/04/2021

**List of Students with Internship Titles (AY 2021-22)**

SN	Roll No.	Student Name	Industry Name	Period
1	T612019	Gornal Narasimha Gururaj	Engg. Design	1 Month
2	T625031	Mahajan Rutuj Sudhakar	Trimurti Stainlink Equipment's Pvt. Ltd	1 Month
3	T625048	Salunke Mayur Rajendra	Trimurti Stainlink Equipment's Pvt. Ltd	1 Month
4	T624034	Mirade Mahammad Akbar	Brother Industries Pvt. Ltd	1 Month
5	T625035	Nanavare Nitin Datta	Kunal Engineering Works	1 Month
6	T612045	Ram Vidyadhar Patil	Shree Ganesh Enterprises	1 Month
7	T612018	Gayke Kiran Ramesh	Shree Ganesh Enterprises	1 Month
8	T612054	Thorat Mangesh Avinash	Shree Ganesh Enterprises	2 Months
9	T612050	Satpute Rushikesh Jaywant	Shree Ganesh Enterprises	2 Months
10	T612029	Kolekar Nitesh Jagannath	Shree Ganesh Enterprises	1 Month
11	T612048	Sadamate Akash Ajit	Shree Ganesh Enterprises	1 Month
12	T611020	Gore Hrithik Sanjay	SRS Enclosures And Plastics Components	1 Month
13	T612030	Kore Atish Tukaram	R.A. Enterprises	1 Month
14	T612017	Gawade Rohan Vidyasagar	R.A. Enterpr	1 Month
15	T611001	Adamane Abhay Narayan	VM Engineering Works	1 Month
16	T611002	Adhyapak Chinmay Sunil	Team Engineering	1 Month
17	T611003	Adsul Aniket Gajanan	Vaishnavi Dies And Tools	1.6 MONTH
18	T611004	Ansari Rehan Abdulwahid	Saar Industries	
19	T611005	Bhoj Prakash Panchakshari	Saar Industries	1 Month
20	T611006	Bhosale Kushal Prakash	Decimin Control Systems Pvt. Ltd.	1 Month
21	T611007	Bhosale Purushottam Laxman	Aasa Engineering	1 Month
22	T611008	Bombatkar Sahil Pramod	Applied Hydraulics	1 Month
23	T611010	Dhanavade Sumeet Tanaji	Applied Hydraulics Uail Aditya Birla	1 Month
24	T611011	Dhotre Mayuresh Sajnjay	Mohite Electronics Pvt. Ltd.	1 Month
25	T611012	Dhumal Anuj Navnath	4-Dimensions InfoTech	1 Month
26	T611013	Dhuri Dipti Deepak	Rajgad Sahakari Sakhar Karkhana Ltd	1 Month
27	T611014	Dikonda Pranav Satyajeet	Applied Hydraulics	1 Month
28	T611015	Durvank Vijay Dewale	Bhakti Industries	1 Month
29	T611016	Ganesh Kumar	Aasa Engineering	1 Month
30	T611017	Ghare Karan Navnath	Igstart-Up	1 Month
31	T611018	Ghutake Rutuja Dinesh	Shri Laxmi Engineering	1 Month
32	T611019	Gole Satyam Vijay	Dheeraj Tools	1 Month
33	T611021	Goud Onkar Ashok	Trimurti Stainlink Equipment Pvt. Ltd.	1 Month



34	T611022	Gunjal Rushikesh Suresh	Srs Enclosure & Plastic Components	1 Month
35	T611023	Hulsure Samarath Gopalrao	Aasa Engineering	1 Month
36	T611024	Ijantkar Om Jatwant	C-Tech Engineers	1 Month
37	T611025	Ingale Shubham Sunil	C-Tech Engineers	1 Month
38	T611028	Kadam Swanand Sadanand	Ab Alucast Industries	1 Month
39	T611029	Kambale Kunal Sanjay	Kunal Fabrication	3 Months
40	T611031	Kasbekar Rohit Dhondiba	VM Engineering Works	1 Month
41	T611032	Lambrud Rahul Abhiman	Saar Industries	1 Month
42	T611033	Linge Vaibhav Uttam	SRS Enclosure & Plastic Components	1 Month
43	T611034	Lokhande Pramod Machindra	Solicarb Gauges & Tools Pvt. Ltd.	1 Month
44	T611035	Mahajan Yashraj Pandharinath	Dwarka Engineering	25 Days
45	T611036	Malusare Aakanksha Nitin	Rajgad Sahakari Sakhar Karkhana Ltd	40 Days
46	T611037	Mhatre Tanvi Pandurang	Rajgad Sahakari Sakhar Karkhana Ltd	1 Month
47	T611038	Mohite Kshitij Gokulnath	Mohite Electronics Pvt. Ltd.	1 Month
48	T611042	Padma Mitesh Mohan	Shradha Industries	1 Month
49	T611043	Pangare Kunal Rajendra	Rohit Engineering Works	1 Month
50	T611045	Patil Shubham Rajaram	Vm Engineering Works	1 Month
51	T611046	Phate Siddheshwar Ajay	Dheeraj Tools	1 Month
52	T611047	Ragade Rohit Navnath	Shradha Industries	1 Month
53	T611048	Sawant Prajwal Premanand	Dheeraj Tools	1 Month
54	T611049	Sawant Rohan Jagannath	Star Infotech	1 Month
55	T611050	Saykar Jay Rajaram	Castomach Global Pvt. Ltd.	2 Month
56	T611051	Shelar Hrutik Ravindra	Saar Industries	1 Month
57	T611052	Shinde Chetan Shankar	4-Dimension InfoTech	1 Month
58	T611053	Shingare Atharva Dattatray	Dheeraj Tools	1 Month
59	T611054	Singh Abhinash Bijendra	4 Dimension InfoTech	1 Month
60	T611055	Suklal Mahajan Vishal	Mohite Electronics Pvt. Ltd.	1 Month
61	T611056	Sutar Amey Ashok	SRS Enclosure & Plastic Components	1 Month
62	T611059	Tibhe Om Dinesh	Alliance Engineering Company	1 Month
63	T611060	Ulemale Nikhil Ramesh	Ultratech Cement Ltd.	1 Month
64	T624003	Bandgar Satish Ambadas	Leena Engineering Works	1 Month
65	T624006	Bedre Rameshwar Balu	Maruri Suzuki Arena	1 Month
66	T624037	More Bhooshan Vitthal	Saar Industries	1 Month
67	T624041	Nath Laxmikant Dhaneshwar	Decimin Control System Pvt. Ltd.	1 Month
68	T624050	Shaikh Lukman Shemahadrafti	Maruti Suzuki Arena	1 Month
69	T624052	Shinde Shivendra Sunil	Somanshu	1 Month
70	T624057	Wagh Omkar Santosh	Shradha Industries	1 Month
71	T612001	Bansode Santosh Sadhu	Shri Laxmi Engineering	1 Month
72	T612002	Bhosale Gokul Umesh	S.K. Engineering	1 Month
73	T612003	Bidgar Hrishikesh Shankar	Shree Sadguru Krupa Electroplates	1 Month
74	T612004	Budde Abhishek Rangnath	S.K. Engineering	1 Month
75	T612006	Chavan Nikhil Dhondiba	Shri Laxmi Engineering	1 Month
76	T612007	Chavan Rutuja Sunil	Shree Precision Engineers, Pune	3 Months
77	T612008	Dawalar Akash Devendra	Kalpak Enterprises	1 Month
78	T612009	Dhayale Harshal Madhukar	R.A. Enterprises	1 Month
79	T612012	Dixit Harshit Mahendra	Pranu Plastic	1 Month
80	T612014	Fernandes Aryan Felix	M/S P. P. Electroplaters	1 Month
81	T612015	Gaikwad Nikhil Subhash	R.A. Enterprises	1 Month

82	T612016	Gaikwad Sanket Kishor	Gassafe India Ltd	1 Month
83	T612017	Gawade Vishal Ishwer	S.K. Engineering	1 Month
84	T612018	Ghodke Gaurav Raju	R .A Enterprises	1 Month
85	T612019	Gowande Atharva Sagar	Mauli Engineering Pvt. Ltd.	1 Month
86	T612020	Hajare Dipak Rajkumar	R.A. Enterprises	1 Month
87	T612021	Jadhav Prathamesh Dattatray	Shree Sadguru Krupa Electroplates	1 Month
88	T612022	Jadhav Rushikesh Vinod	Amol Enterprises	1 Month
89	T612023	Jadhav Vishal Vijay	Shree Sadguru Krupa Electroplates	1 Month
90	T612024	Jaknale Ajay Venkat	C-Tech Engineers	1 Month
91	T612025	Jangam Rahul Laxman	M/S P. P Electroplaters	1 Month
92	T612027	Kawad Parth Avinash	Shree Sadguru Krupa Electroplates	1 Month
93	T612028	Khavanekar Prasad Dattaram	M/S P. P Electroplaters	1 Month
94	T612030	Kumbhar Rohit Bandu	Rss Enterprises	1 Month
95	T612031	Malji Omkar Satish	Kakade Laser	1 Month
96	T612032	Mohite Kanakraj Mahesh	Bharat Forge	1 Month
97	T612033	Mohite Sandesh Sunil	R.A. Enterprises	1 Month
98	T612034	More Saurabh Suhas	C-Tech Engineers	1 Month
99	T612035	Mulani Aarish Riyaj	Kakade Laser	1 Month
100	T612036	Naik Digambar Dattatray	C-Tech Engineers Pvt. Ltd.	1 Month
101	T612037	Naik Pratham Vinay	Shri Laxmi Engineering	1 Month
102	T612038	Naykawadi Nihal Najaruddin	Gassafe India Ltd	1 Month
103	T612039	Niungare Harshal Dhasharath	Jebin Engineering Co	1 Month
104	T612043	Rane Anish Nilesh	Applied Hydraulics	1 Month
105	T612044	Sangare Gauresh Janardhan	Jebin Engineering Co	1 Month
106	T612046	Shendge Ravi Vyankat	S.K. Engineering	1 Month
107	T612047	Shinde Rajat Jeevan	Mutha Engineering Pvt. Ltd.	1 Month
108	T612049	Shinde Somnath Limbraj	R.A. Enterprises	1 Month
109	T612050	Solim Mayur Dilip	Kalpaka Enterprises	1 Month
110	T612052	Tandale Omkar Anil	Kalpaka Enterprises	1 Month
111	T612053	Tengli Saket Santoshkumar	Amol Enterprises	1 Month
112	T612055	Waghmare Pradeep Shankar	Unique Industries	1 Month
113	T625012	Deorukhkar Shreyas Vasudeo	Unique Industries	1 Month
114	T625051	Shendge Dheeraj Vilas	Unique Industries	1 Month
115	T612001	Bhanage Rutwik Ramdas	Sp Engineering	1 Month
116	T612006	Bulbule Shivprasad Mahadev	R.A. Enterprises	1 Month
117	T612007	Chindarkar Abhishek N Kumar	Kiran Automobiles	1 Month
118	T612013	Dige Prem Pradip	Girme Automotive	1 Month
119	T612015	Gajare Gaurav Raju	SP Engineering	1 Month
120	T612016	Gandhewar Karan Rajendra	R.A. Enterprises	1 Month
121	T612020	Jadhav Suraj Sudhakar	R.A. Enterprises	1 Month
122	T612022	Jivane Sagar Ashok	Gurukrupa Engineering Works	1 Month
123	T612024	Khan Qibrahim Abuthair	RSS Enterprises	1 Month
124	T612025	Khan Sohail Irfan	Gurukrupa engineering Works	1 Month
125	T612026	Khandelwal Ritesh Kiran	Kiran Automobiles	1 Month
126	T612027	Khapare Gaurav Ganpat	Supreme Hi-Tech Industries	1 Month
127	T612031	Lamkhede Jagannath Vitthal	Jebin Engineering Co	1 Month
128	T612032	Mane Keshav Rajesh	Amol Enterprises	1 Month
129	T612033	Mokashi Aakib Altaf	Amol Enterprises	1 Month
130	T612034	Mulani Asad Aslam	Raj Engineering Enterprises	1 Month
131	T612035	Mule Ganesh Akrosh	Pranu Plastic	1 Month

132	T612037	Nipane Rupesh Anand	R.A. Enterprises	1 Month
133	T612038	Pachhapure Abhishek Rajaram	Raj Engineering Enterprises	1 Month
134	T612040	Pathan Salman Sharif	Raj Engineering Enterprises	1 Month
135	T612042	Patil Indrajeet Sachin	R.A. Enterprises	1 Month
136	T612043	Patole Viraj Jagannath	Unique Industries	1 Month
137	T612044	Pol Rushikesh Shahaji	Green Power Sugar Ltd	1 Month
138	T612047	Raut Samiksha Hanumant	R.A. Enterprises	1 Month
139	T612049	Saindane Hemanshu Vinayak	M Cad Solutions Training For Excellence	1 Month
140	T612051	Sawant Saurabh Arun	R.A. Enterprises	1 Month
141	T612053	Thakare Komal Nana	Shree Sadguru Krupa Electroplates	1 Month
142	T625017	Gorad Komal Rajendra	M Cad Solutions Training For Excellence	1 Month
143	T624004	Barkul Neha Rajendra	Toyota	1 Month
144	T624005	Bedage Sachin Dhanaji	Shree Precision Engineers, Pune	1 Month
145	T624007	Bhandare Mahesh Dagdu	Shrutee Enterprises	1 Month
146	T624008	Bhikule Atharva Rahul	Shree Bhairavnath Engineering Works	1 Month
147	T624009	Bhil Ajay Supadu	JCB India Ltd.	6 Months
148	T624010	Birajdar Mahesh Chandrakant	Premium Transmission Pvt. Ltd.	1 Month
149	T624011	Chauhan Suraj Shrilal	Perfect Enterprises	1 Month
150	T624012	Chaurpagar Vaibhav Devrao	Nexteer Automotive India Pvt. Ltd.	1 Month
151	T624013	Chavan Pruthviraj Iswarlal	Raptech Engineering Pvt. Ltd	1 Month
152	T624014	Chougule Prajakata Suresh	Shree Precision Engineers	1 Month
153	T624015	Dani Viraj Anand	Deepakyogiom Engineering Pvt. Ltd	1 Month
154	T624016	Dhanwade Atul Balasaheb	Shradha Industries	1 Month
155	T624021	Ghotane Sahil Sanjay	Kusum Engineering	1 Month
156	T624022	Jagtap Adarsh Gajanan	Asha Enterprises	1 Month
157	T624025	Kamble Chetan Anand	Vision Engineering	1 Month
158	T624026	Kamble Prathamesh Maruti	Shree Bhairavnath Engineering Works	1 Month
159	T624027	Kamble Yogesh Jalindar	Vision Engineering	1 Month
160	T624028	Kolhe Rahul Sanjay	Geeta Industries	1 Month
161	T624030	Kumbhar Abhishek Sanjay	Shree Bhairavnath Engineering Works	1 Month
162	T624032	Kushwaha Deepak	R.A. Enterprises	1 Month
163	T624033	Mahajan Sarthak Supadu	Tata Motors Ltd	1 Month
164	T624035	Momin Muskan Parwej	Ge India Industrial Pvt. Ltd.	1 Month
165	T624038	More Pandurang Ramesh	Swiftin Corporation Llp	1 Month
166	T624042	Navane Shankar Ganapati	C. L Engineers	1 Month
167	T624044	Pawar Rohit Uttam	Prowiz Mansystems Pvt. Ltd	1 Month
168	T624045	Paygude Pratik Ramesh	Asha Enterprises	1 Month
169	T624048	Sanap Ishwar Popat	Shivam Motors	2 Months
170	T624051	Shinde Arati Ganpatrao	Perfect Enterprises	1 Month
171	T624056	Vatsal Kumar	Shree Precision Engineers, Pune	1 Month
172	T624059	Yadav Sandesh Ashok	Vision Engineering	1 Month
173	T612026	Kambale Sujit Madhukar	Kirloskar Oil Engines Pvt. Ltd.	1 Month
174	T612002	Bhorde Rutik Sanjay	Sp Tooling	1 Month
175	T612004	Borade Yash Sunil	Asha Enterprises	1 Month
176	T612005	Bornarkar Siddhesh Vilas	Ansox Industries Pvt. Ltd	1 Month
177	T612014	Doiphode Akash Ramdas	Dana India Pvt. Ltd.(Shree Gajanan Engineering)	1 Month

178	T612021	Jarande Harshal Dattatray	Nikhil Enterprises	1 Month
179	T612023	Kalunge Ojes Dattatray	Aspire Auto Parts	1 Month
180	T612036	Naik Yash Nilesh	Geeta Industries	1 Month
181	T625001	Ade Suraj Ganesh	Swiftin Corporation Llp	1 Month
182	T625002	Awhad Sandesh	Geeta Industries	2 Month
183	T625005	Bhingare Karan Rajendra	Geeta Industries	1 Month
184	T625006	Bhosale Akshaykumar Gautam	Seinmero Nirman Pvt. Ltd	1 Month
185	T625010	Chavan Shubham Sanjay	Burckhardt Compression India Pvt. Ltd.	1 Month
186	T625015	Gajdhane Vishwakamal Shrimant	Maruri Suzuki Arena	1 Month
187	T625016	Gokawar Pavankumar Gangadhar	Trimurti Stainlink Equipment's Pvt. Ltd	1 Month
188	T625019	Jadhav Mahesh Dattatray	Swapnapurthi Builders And Developers	2 Month
189	T625022	Javir Rohit Kisan	Shrutee Enterprises	1 Month
190	T625023	Koditkar Niranjan Ganesh	Geeta Industries	1 Month
191	T625026	Kolte Soumil Shailesh	Sadguru Enterprises	1 Month
192	T625027	Lasore Nikhil Bandu	Raptech Engineering Pvt. Ltd.	4 Months
193	T625028	Limbhore Lokesh Vishnu	Sp Tooling	1 Month
194	T625030	Litesh Vasudev Amberkar	Maruri Suzuki Arena	1 Month
195	T625032	Mahajan Shweta Shrikant	Tata Motors	1 Month
196	T625034	Mujawar Jahir Salim	Shree Precision Engineers, Pune	1 Month
197	T625037	Nigade Aniket Hemant	Shree Bhairavnath Engineering Works	1 Month
198	T625040	Patil Prasad Shashikant	Asha Enterprises	1 Month
199	T625042	Pawar Rutuja Vaibhav	Adved Motors	1 Month
200	T625043	Penurkar Sayali Arunrao	Geeta Industries	2 Month
201	T625044	Potdar Vijay Virbhadra	Kusum Engineering	1 Month
202	T625047	Saindane Neha Sunil	Thomson Tool Room	1 Month
203	T625050	Sawant Amay Anil	Cloos India Welding Tech Pvt. Ltd	1 Month
204	T625052	Shinde Dhiraj Ankush	Micro-India Engineering	1 Month
205	T625053	Shinde Rupak Krushnat	Burckhardt Compression India Pvt. Ltd.	1 Month
206	T625057	Wagh Kamlesh Gokul	JCBh India Ltd.	6 Months
207	T625059	Wankhede Prajwal Gajanan	Kusum Engineering	1 Month
208	T625024	Kokare Omkar Arun	Maind Flow Controls Private Limited	1 Month



**Dr. Y. M. Bhamare**  
Internship Coordinator




**Prof. S. M. Godase**  
Head of the Department

D = 14/03/2022

To  
Principle/HOD,  
Zeal collage  
Nashe, Pune.

Sub:- for getting permission of internship

Respected sir,

My name is Nitin Datta Nanaware student of zeal collage. I am studying in TE mechanical Engineering Div:- D. My roll No. is T625035

I want to do Internship of 1 month in Hexxon Technomax PVT. LTD. The company is in Dattanagar Katraj - Pune :- 411046. So, I request you to allow me for the Internship. Internship Date:- 15/03/22 to 14/04/22.

Allowed after 2:00 pm  
Nitin

Your student  
Nitin



Ref. No.:

ZES/NC/1620

Date :

Date: 14<sup>th</sup> March 2022

To,  
The HR Manager,  
Hexxon Technomax Pvt Ltd,  
S.N. 40/3 ,dattanagar chowk,  
Katraj - Ambegaon BK Rd,  
Pune, Maharashtra 411046

**Subject:** Regarding Internship Programme for Engineering Students

Dear Sir/Madam,

We introduce ourselves as "**Zeal Education Society's, Zeal College of Engineering & Research, Pune**", approved institute by AICTE & affiliated to SP Pune University. Our Institute is also well-known as "**Educational Venture of Zeal Industries**". We are running Engineering & Management courses in various streams.


To improve the practical knowledge & to know how to take part in practical projects, students are promoted to undergo Internship Programme in the industry.

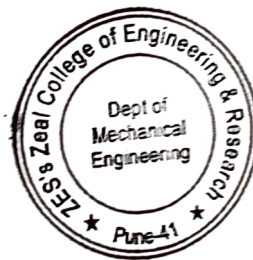
In this context, you are requested to provide facilities for **Internship Programme** in your esteemed organization to our below listed student for the span of **One Month** from **15<sup>th</sup> March 2022 to 14<sup>th</sup> April 2022**. Please feel free to call if you require any further clarification.


Looking forward to a mutually beneficial relationship & with regards.

Sr. no.	Name of Student	Class
1	Nitin Nanaware	TE MECHANICAL

Thanking You,

  
Prof. V. H. Barge  
Training & Placement Officer



Yours Obviously,  
  
Prof. Sachin Godase  
HOD - Mechanical. Dept.



# KUNAL ENGINEERING WORKS

**TAPER LOCK MOTOR PULLEY, FLY WHEEL & FABRICATION**

Sr. No. 40, Dattanagar, Ambegaon Budruk, Pune - 411046. Mo. 9011053333, 9822314337

Ref. No.

Date / / 20

## CERTIFICATE

This is to certify that **Mr. Nitin D. Nanaware**, student of **T.E. Mechanical Engineering** Programme from **Zeal Collage of Engineering and Research**, has undergone. Industrial Training at **KUNAL ENGINEERING WORKS**, Pune from **15/03/2022 To 14/04/2022**.

He has successfully completed the training and submitted a report with his overall performance being **Excellent**

**M. S. BELDARE**

**KUNAL ENGINEERING WORKS**

Sr. No. 40, Dattanagar,  
Ambegaon Budruk, Pune-411046.  
Mob.: 9011053333 / 9822314337



## Internship Report

### Part I: Contact Information Student

Name: Nitin Datta Nanaware Student ID: 120E20378 Class Year: Mech. Third  
Year \_\_\_\_\_ Campus Address: Zeal College of Engineering and  
Research, Narhe, Pune-411041  
City, State: Maharashtra  
Phone: 9890386221  
Email: nitinnanaware169@gmail.com

### Industrial Supervisor

Name: MR M.A.SHAIKH Title: production manager  
Company/Organization: Kunal Engineering Works Internship Address: Dattanagar Ambegaon (BK) pune 41104  
City, State, Pin: Pune, Maharashtra Phone: \_\_\_\_\_ Email: \_\_\_\_\_

### Faculty Mentor

Name: Dr. Y.M.Bhamare Phone: 9172103903  
Campus Address: Zeal College of Engineering and Research,  
ch, Survey no. 39, Narhe-Dhavari road, Narhe, Pune.

### Academic Credit Information

Department: Production  
Internship Title: As Operator Course: BE MECHANICAL  
Beginning Date: 15/03/2022 Ending Date: 14/04/2022 Hours per Week: 2HR to 3HR  
Internships: \_\_\_\_\_ Paid \_\_\_\_\_ Unpaid \_\_\_\_\_





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Photographs During Internship:



Fig :- Company Photo



Fig :- Raw material used for Rotor

For the manufacturing of the rotor raw material is required which is been chosen by the inspection and quality department as is has to satisfy the customer demand of choice of material is in the fig showing the raw material which has been tested and checked before machining.



Fig :- Centered Rotors

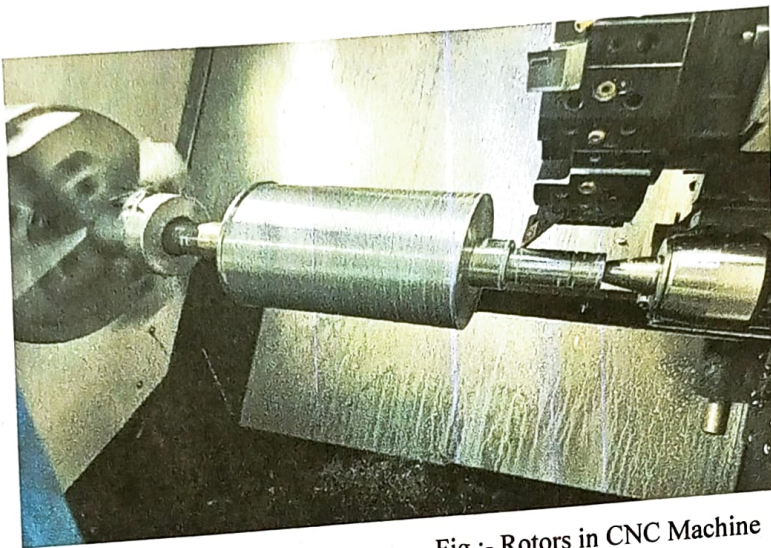


Fig :- Rotors in CNC Machine

After the threading is done in CNC and the process the rotor is being checked by the quality team and third party inspector provided by the customer all the dimension are checked and verified by the drawing ( tolerance is also being checked ) of rotor is ready.



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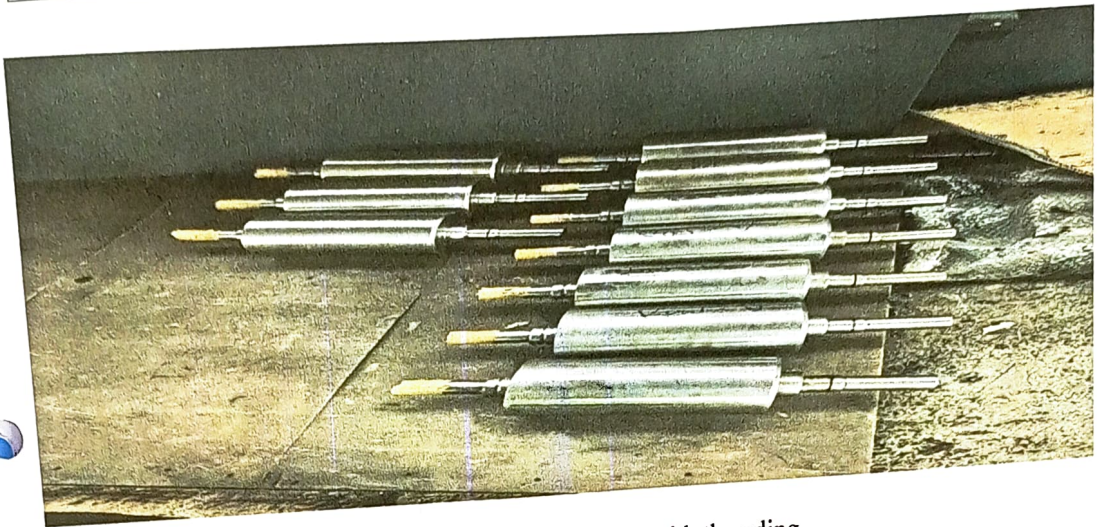


Fig :- Rotors are ready with threading

### Acknowledgement

First, I would like to thank MR .M.A SHAIKH OF PRODUCTION SUPERVISOR HEXXON TECHNOMAX PVT.LTD. within the organization. I also would like all the people that worked along with me in HEXXONTECHNOMAX PVT.LTD. PUNE with their patience and openness they created an enjoyable working environment. I am highly indebted to the Principal Prof. Ajit Kate, for the facilities provided to accomplish this internship.

I would like to thank my Head of the Department Prof. Sachin Godse, for his constructive criticism throughout my internship. I am extremely great full to my department staff members and friends who helped mein successful completion of this internship.

From:- Narasimha Gornal  
 Roll no - T613019  
 Date - 1 March 2022.

To  
 The Respected Principal  
 Zeal college of Engineering & Research.  
 Pune.

Subject:- Asking permission for Internship.

Respected Sir.

I the undersigned Narasimha Gornal studying in III<sup>rd</sup> year Mechanical Engineering would like bring to your notice that I have decided to complete my internship with one of the well known Design Engineering firm Named as Engg Design. Engg Design office is located at Moshi in Pimpri Chinchwad area near to my house. My Internship timing is from 3 pm to 7 pm. I request you sir that I can attend college till 12:30 pm because it take 1 hour or  $1\frac{1}{2}$  to reach my home. Kindly accept my request.

Internship duration :- 1 month

Starting date :- 7<sup>th</sup> of March 2022.

End date :- 7<sup>th</sup> of April 2022.

Internship Company name :- Engg Design.

Internship Address :- Engg Design 2<sup>nd</sup> floor

Bhayoday Building  
 Tapkir Nagar Moshi Pune -  
 412105

Allowed  
 [Signature]

Your faithfully  
 Narasimha Gornal  
 [Signature]

Ref. No.: ZES/NC/1504

Date :

Date: 2<sup>nd</sup> March 2022

To,  
The HR Manager,  
Engineering Design,  
2<sup>nd</sup> Floor, Bhagyoday Building,  
Tapkir Nagar, Moshi  
Pune 411105

**Subject:** Regarding Internship Programme for Engineering Students

Dear Sir/Madam,

We introduce ourselves as "**Zeal Education Society's, Zeal College of Engineering & Research, Pune**", approved institute by AICTE & affiliated to SP Pune University. Our Institute is also well-known as "**Educational Venture of Zeal Industries**". We are running Engineering & Management courses in various streams.

To improve the practical knowledge & to know how to take part in practical projects, students are promoted to undergo Internship Programme in the industry.


In this context, you are requested to provide facilities for **Internship Programme** in your esteemed organization to our below listed student for the span of **One Month** from **7<sup>th</sup> March 2022 to 7<sup>th</sup> April 2022**. Please feel free to call if you require any further clarification.

Looking forward to a mutually beneficial relationship & with regards.

Sr. no.	Name of Student	Class
1	Narsimha Gornal	TE MECHANICAL

Thanking You,

Yours Obviously,

  
Prof. V. H. Barge  
Training & Placement Officer

  
Prof. Sachin Godase  
HOD - Mechanical. Dept.



**EnggDesign**

ANALYSE DESIGN & DELIVER

ED/LET/22-23/0101

15/04/2022

**TO WHOM IT MAY CONCERN**


This is certifying that **Mr. Narasimha Gornal** has been performed Internship activity in our organization, from period 07/03/2022 to 07/04/2022 as a Mechanical Engineer, during this tenure he has undertaking various tasks in Technical / Management discipline and has successfully completed them to the best of his abilities. His conduct has been excellent during this tenure.


We wish him good luck for his future assignments.


Warm regards,


**Eshwar Pawar**  
Founder



[+91 992097877] 

[eshwar@enggdesign] 

[www.enggdesign.in] 

[A-204, P6, Gandharv Nagari, Moshi, Pune 412105] 



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## Internship Report

### Part I: Contact Information Student

Name: NARASIMHA .GURURAJ .GORNAL Student ID#T613019  
Class Year: 3<sup>rd</sup> year 6<sup>th</sup> semester

Campus Address: Survey no. 39, Narhc-Dhayari road, Narhe, Pune.

City, State: Pune ,Maharashtra  
Phone: 8329912294 Email: narasimhagornal@gmail.com

### Industrial Supervisor

Name: Eshwar Pawar Title: Promoter  
Company/Organization: Engg design  
Internship Address: A-204, P6, Gandharv Nagari ,Moshi, Pune-412105

City, State, Pin: Pune ,Maharashtra-412105  
Phone: 992097877 Email: eshwar@enggdesign

### Faculty Mentor

Name: Dr. Y. M. Bhamare Phone: 9172103903  
Campus Address: Zeal College of Engineering and research, Survey no. 39, Narhe-Dhayari road, Narhe, Pune.

### Academic Credit Information

Internship Title: Design of different components Department: Mechanical Engineering  
Course : Design of different components,  
Beginning Date: 07/03/2022 Ending Date: 07/04/2022  
Hours per Week: 25 Internship is: Unpaid  
Paid Unpaid



**Part II: Internship Objectives/Learning Activities**

Internship Objectives: What do you intend to learn, acquire and clarify through this internship? Try to use concrete, measurable terms in listing your learning objectives under each of the following categories:

- Knowledge and Understanding

I got knowledge about how to design different types of pressure vessel ,Tank , which is based on Food and Pharama product. And I designed evaporaters .I got to how to analyze the components . I learned how to save many design files and how to take print in A3 size paper . And I got opportunity to see tanks and pressure vessel.

- Skills

I improved my skills in design , First I was not aware how to use shortcut command in autocad. But improved myself by designing small components.

**Learning Activities:** How will your internship activities enable you to acquire the knowledge/understanding, and skills you listed above?

It helps me to understand how Mnc works in design department .

It helps me about automation in companies

It teaches me about how much knowledge needed to work in company





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**Part III: The Internship**

**Job Description:** Describe in as much detail as possible your role and responsibilities while on your internship. List duties, project to be completed, deadlines, etc. How can you contribute to the organization/site of internship?

My role was to check details of drawing and to save in file and take the print for 5 days. Then I got how to calculate the pressure vessel. It helped me design the pressure vessel. I got knowledge how to design thin cylinder and thick cylinder & calculations respectively.

**Supervision:** Describe in as much detail as possible the supervision to be provided/needed at the work site. List what kind of instruction, assistance, consultation you will receive from whom, etc.

My supervisor was guiding how to design complicated drawings in easy way. He helped me to how to take dimensions in drawing.

**Evaluation:** How will your work performance be evaluated? By whom?

My performance will be evaluated how I design complicated drawing and analyze it.  
My performance will be evaluated by my technical knowledge.



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Photographs During Internship:







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Record No.: ZCOER-ACAD/R/39

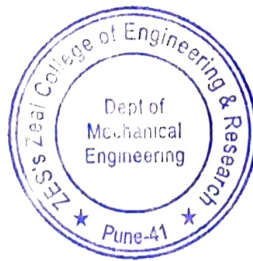
Revision: 00

Date: 01/04/2021

**Department of Mechanical Engineering**

<b>INDUSTRIAL VISIT SUMMARY REPORT(2021-22)</b>					
Sr. No	Organization Name	Date of Visit	Class (SE/TE/BE)	Subject/ Course	No. of Students Participated
1	Central Workshop Bus Depot, Swargate	12, 13 & 16, April 2022	SE	Applied Thermodynamics	70
4	Kranti Industries, Pirangut	10 & 11 May 2022	TE	Measurement Laboratory	119
2	Shree Sant Tukaram Sugar Factory Co-generation Plant, Mulshi	29 & 30 March 2022	BE	Power Plant Enginnering	145
3	Hydro- Electric Power Plant, Panshet	30-Mar-22	BE	Power Plant Enginnering	168
5	Pune Alternate Fuel Conclave, Pune	05-Apr-22	SE/TE/BE	Thermal Group	74
	Remark of Auditor				

  
**Head of Department**





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Record No.: ZCOER-ACAD/R/

Revision: 00

Date: 01/04/2021

**Permission for Industry Visit**

**Department: Mechanical Engineering**

**Semester: II**

**Academic Year: 2021-2022**

**Class: BE**

**Div: A, B, C, D, E**

**Date: 14/03/2022**

**Ref:**

**To,**  
**Managing Director,**  
**Shri Sant Tukaram S.S.K. Ltd.,**  
**Kasarsai-Darumbre,**  
**Tal: Mulshi, Dist: Pune-410506**

**Subject:** Permission to visit your renowned industry for final year Mechanical Engineering Student.

Dear Sir,

Zeal Education Society's, Zeal College of Engineering and Research is affiliated to Savitribai Phule Pune University, imparting quality technical education to under graduate and postgraduate students. As a part of curriculum, it is essential to provide industrial exposure to our 264 Final Year Mechanical Engineering students, which will add to technical knowledge and field experience of **Cogeneration Power Plant**. Yours being a renowned industry, we request you to kindly grant the permission for industrial visit to our students. There will be **264 students** who will be accompanied by **10 staff** members.

In this context, we request you to permit our students and convey the feasible dates.

Thanking you in anticipation,

Yours faithfully,

Prof. P.S. Gadhave/Prof. D. P. Kamble/Prof. A. G. Nimbalkar  
**Course Faculty**

Prof. S. M. Godase  
**Head of Department**

Confirm your Visit on 24, 25 March 2022

Managing Director  
Shri Sant Tukaram S.S.K. Ltd.,  
Kasarsai-Darumbre, Tal. Mulshi, Dist. Pune-410506 (Maharashtra )  
9689509292/9689759292/9423793955/56/57

On Tuesday, 15 March, 2022, 04:47:53 pm IST, Ajitkumar Nimbalkar <ajitkumar.nimbalkar@zealeducation.com> wrote

To,  
**Managing Director,**  
**Shri Sant Tukaram S.S.K. Ltd.,**  
**Kasarsai-Darumbre,**  
**Tal: Mulshi, Dist: Pune-410506**

**Subject:** Permission to visit your renowned industry for Final year Mechanical Engineering Student.

Dear Sir,

Zeal Education Society's, Zeal College of Engineering and Research is affiliated to Savitribai Phule Pune University, imparting quality technical education to under graduate and postgraduate students. As a part of curriculum, it is essential to provide industrial exposure to our 264 Final Year Mechanical Engineering students, which will add to technical knowledge and field experience of **Cogeneration Power Plant**. Yours being a renowned industry, we request you to kindly grant the permission for industrial visit to our students. There will be **264 students** who will be accompanied by **10 staff** members.

In this context, we request you to permit our students and convey the feasible dates.

**Tentative Dates for Visit are: 24, 25 and 26 March 2022.**

Please find attachment of the request letter for the Cogeneration Power Plant Visit.

Thanking you in anticipation,

Yours faithfully,

**Prof. A. G. Nimbalkar**  
Assistant Professor  
Mechanical Engineering Department  
Zeal College of Engineering and Research Narhe, Pune- 411041.  
Contact: +91- 9604888999  
E-Mail: ajitkumar.nimbalkar@zealeducation.com

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-End of Disclaimer-

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\*\*\*\*\* Disclaimer \*\*\*\*\*



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Record No.: ZCOER-ACAD/R/39

Revision: 00

Date: 01/04/2021

**Industrial Visit Students Notice**

Department: Mechanical

Semester: II

Academic Year: 2021 - 2022

Class: BE

Div: A,B,C,D & E

Date: 25/3/2022

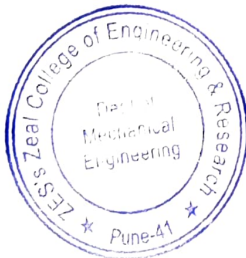
All the students of B.E. Mechanical Engineering are hereby informed that, the Industrial visit has been arranged to "Sant Tukaram sugar Factory: Cogeneration Plant" for the subject Energy Engineering on 29-30 March 2022.

**Schedule for Visit:**

S.N.	Class & Div	Date	Reporting time
1	BE A & B division students	29/3/2022	8.00 am
2	BE C & E only Girls Students	29/3/2022	8.00 am
3	BE C, D & E division students	30/3/2022	8.00 am

**Guidelines:**

1. Students should follow all COVID-19 precautions; rules and regulations by Government of Maharashtra and SPPU, Pune
2. Students should not allow for visit without mask.
3. Students should wear formal attire and college Identity Card. Shoes are compulsory.
4. Students should follow all safety rules of industry.
5. Bring water bottle, sanitizer bottle and eatable with you.



*[Signature]*  
Head of Department



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Record No.: ZCOER-ACAD/R/39

Revision: 00

Date: 01/04/2021

**Industrial Visit Staff Notice**

Department: Mechanical

Semester: II

Academic Year: 2021 - 2022

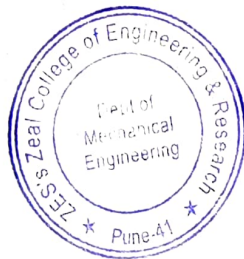
Date: 25/3/2022

Following faculty members are hereby informed that, the Industrial visit has been arranged to "Sant Tukaram Sugar Factory: Cogeneration Plant" for the subject Energy Engineering on 29-30 March 2022. You are informed to visit the said industry along with students as per below schedule;

**Schedule for Visit:**

S. N.	Date	Name of Faculty	Sign	S. N.	Date	Name of Faculty	Sign
1	29/3/2022	Prof. Gadhave P.S.		5	30/3/2022	Prof. Kamble D. P	
2		Prof. Gadpayle U. K.		6		Prof. Nimbalkar A. G	
3		Prof. Jagtap V.P.		7		Prof. Bomble R.R.	
4		Dr. Bhamre Y. M.		8		Dr. Jagtap H. P	

Reporting time: 8.00am sharp



Head of Department





**ZEAL EDUCATION SOCIETY'S  
ZEAL COLLEGE OF ENGINEERING AND RESEARCH  
NARHE | PUNE -41 | INDIA**



Record No.: ZCOER-ACAD/R/

Revision: 00

Date: 01/04/2021

**UNDERTAKING LETTER FOR STUDENTS**

We the students of **Class:BE .Div:A Branch: Mechanical Engineering** At ZCOER, Narhe-411041 do hereby undertake that we are going on industrial visit to **Industry:Sant Tukaram Sugar Factory: Co generation Plant** organized on **Date:29/03/2022**

**Departure: Date: 29/03/2022 Time:8.30 AM**

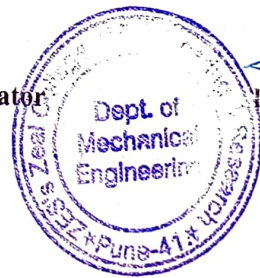
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Roll No	Name of the student	Sign	Roll No	Name of the student	Signature
B611001	ABHINKAR ATHARVA NILESH	<i>ANA</i>	B611030	KALE SHUBHAM VASANT	<i>Shubham</i>
B611002	ABUZAR ABDUL HAI	<i>Abuzar</i>	B611031	KAMBLE VIKRAM RAJAN	<i>Vikram</i>
B611003	AJMIRE PRAJWAL KISHOR		B611032	KASPATE SANKET BAJRANG	<i>Sanket</i>
B611004	BARBHAI ANIKET KISHOR		B611033	KATKAR SNEHAL SUDHAKAR	<i>Snehal</i>
B611005	BARIDE PURUSHOTTAM R		B611034	KAUSTUBH BHASKAR SHETE	<i>Shete</i>
B611006	BAVISKAR AMIT ANIL		B611035	KHALADKAR SHUBHAM SUDAM	<i>SA</i>
B611007	BHALERAO SWAPNIL DAYANAND		B611036	KHAMKAR NILESH MADHUKAR	
B611008	BHARGUDE ABHISHEK H		B611037	KOLI AVINASH NARSING	<i>Avinash</i>
B611009	BHATTA RUTWIK KAILASH	<i>B</i>	B611038	KONDE ASHITOSH NILESH	<i>Akonde</i>
B611010	BHOSALE SUMIT HANMANT	<i>Sumit</i>	B611039	KUMBHAR DEEPAK BHASKAR	
B611011	BHURE NAGESH SURYAKANT	<i>Nagesh</i>	B611040	LOKARE SWAPNIL JANARDAN	<i>Swapnil</i>
B611012	BIDVE ABHIJIT SUNIL		B611041	LONARE SANKET RAMNATH	
B611013	BIRAJDAR PRASAD BALAJI		B611042	MANDAVKAR SHUBHAM ROHIDAS	
B611014	CHAVAN PRATAPSINH P	<i>Chavan</i>	B611043	MANGLEKAR SUSHANT VIJAY	<i>Sushant</i>
B611015	DEOKAR ATHARVA SANJAYKUMAR		B611044	MANJARE DHIRAJ BALU	
B611016	DESHPANDE RAJ SUNIL		B611045	MARJE PRATIK RAVINDRA	<i>Pratik</i>
B611017	DHAIGUDE ANUP PANDURANG	<i>A</i>	B611046	MASKE SURAJ BALU	<i>Suraj</i>
B611018	DHIRAJ SWARUP DHUMAL		B611047	MHASKE VINAYAK NAMDEO	<i>Vinayak</i>
B611019	DHUMAL PRATHAMESH DATTATRAY		B611048	MUNDE ASHWINI VISHNU	<i>Ashwini</i>
B611020	DOIPHODE PRATIK KAILASH		B611049	NAGARGOJE UTKARSHA D	<i>Utkarsha</i>
B611021	FADALE ANIKET JAYESH		B611050	NAGVANSHI YOGITA KISHOR	<i>Yogita</i>
B611022	GADGIL VISHAL SHRINIVAS	<i>V.S.G.</i>	B613012	PATIL SNEHA SUNIL	<i>Sneha</i>
B611023	GALANDE AVADHOOT BHARAT	<i>Avadoot</i>	B613015	PAWAR KIRAN MOHAN	<i>Kiran</i>
B611024	GAWADE AMAR GURUNATH	<i>AM</i>	B613033	SHIVANKAR MRUNAL SUDAM	<i>Mrunal</i>
B611025	GAWADE UDAY KIRAN	<i>Uday</i>	B625013	GHOSPURKAR SHIVANI RAJAN	<i>Shivani</i>
B611026	GHUME SHRIJAY SUNIL		B625026	LANJEWAR KAJOL NARENDRA	
B611027	GODSE ISHWANKU SANJAY	<i>Godse</i>	B625031	MORE SNEHAL ROHIDAS	<i>Snehal</i>
B611028	JADHAV SWAPNIL UMESH	<i>Jadhav</i>	B625030	MORE SHIVANI SUDHAKAR	
B611029	KAKDE KUNDAN DILIP	<i>Kakde</i>	B625038	POTDAR KIRTI VIJAY	

*[Signature]*  
Subject Teacher

*[Signature]*  
Industrial visit Coordinator



*[Signature]*  
HOD



**ZEAL EDUCATION SOCIETY'S  
ZEAL COLLEGE OF ENGINEERING AND RESEARCH  
NARHE | PUNE -41 | INDIA**



Record No.: ZCOER-ACAD/R/

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**UNDERTAKING LETTER FOR STUDENTS**

We the students of **Class:BE .Div:B Branch: Mechanical Engineering** At ZCOER, Narhe-411041 do hereby undertake that we are going on industrial visit to **Industry:Sant Tukaram Sugar Factory: Co generation Plant** organized on **Date:29/03/2022**

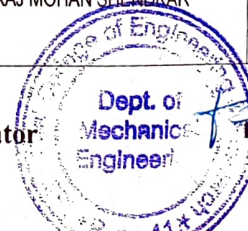
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Roll No	Name of the student	Sign	Roll No	Name of the student	Signature
B612001	AMANGI CHARUDATTA UDAY	<i>Amangi</i>	B612028	KALE ANAND JAGJEEVAN	<i>Amangi</i>
B612002	AWALE SHUBHAM SHIVAJI		B612029	KAMBLE SUSHANT SHARAD	<i>Amangi</i>
B612003	BHURE VARUN DILIPBHAI	<i>Amangi</i>	B612030	KATU PRERANA MOHAN	<i>Amangi</i>
B612004	BINGUNDI ANIRUDH SHRINIWAS	<i>Amangi</i>	B612031	KENGAR SUHAS DAYANAND	
B612005	BIRAJDAR VISHAL ANIL		B612032	KHAIRNAR CHETAN VIJAY	
B612006	CHANDANSHIVE AKASH VASANT		B612033	KHIRID SUJIT DNYANESHWAR	
B612007	CHAVAN POOJA HAJIMALANG	<i>Amangi</i>	B612034	KOCHARI ATHARV SHIVANAND	<i>Amangi</i>
B612008	DAIVADNYA GAYATRI MANOHAR		B612035	KORPAD PREM PRAMOD	
B612009	DHENE DINESH POPAT		B612036	KSHETRI KIRAN ASHOK	
B612010	DUDHANE PRASAD PRAKASH		B612037	LEKAWALE PRANIL SHANTARAM	
B612011	FUTANE PRASANNA RAM		B612038	LINGADE KAILAS PUNDLIK	
B612012	GAJARE VINAYAK POPAT	<i>Amangi</i>	B612039	LOKHANDE AMAN ANOSH	<i>Amangi</i>
B612013	GARAD ANIKET SUDAM		B612040	MAHAJAN AKSHAY NANDKUMAR	
B612014	GHUTE DIVYARAJ MEGHRAJ		B612041	MANE RAJ SUDHAKAR	
B612015	GOGAWALE TANMAY PRASHANT		B612042	MANERKAR PRATHAMESH SANDIP	
B612016	GORAD PRADHIM BALASAHEB	<i>Amangi</i>	B612043	MHASAWADE RADHIKA AJIT	<i>Amangi</i>
B612017	GUJARE DEEPAK VISHWANATH		B612044	MORE ANKIT RAJARAM	<i>Amangi</i>
B612018	HAJARE AKSHAY VINAYAK	<i>Amangi</i>	B612045	NAIK MOHAK SATYAVAN	<i>Amangi</i>
B612019	HANDE VARUN DILIP	<i>Amangi</i>	B612046	NAIK MOHD HAROON LATIF	
B612020	INAMDAR ADITYA SANJAY	<i>Amangi</i>	B612047	NARAWADE VAIBHAV ASHOK	
B612021	JADHAV RAJVEER HIMMAT	<i>Amangi</i>	B612048	NAVALE PRAVIN VILAS	
B612022	JADHAV VAIBHAV SAREENATH		B612049	NIKAM SHUBHAM RAVINDRA	
B612023	JAGATAP ABHISHEK RAJENDRA	<i>Amangi</i>	B612050	NURAJI AMMAR IQBAL	<i>Amangi</i>
B612024	JAGTAP PRASAD MAHADEV	<i>Amangi</i>	B612051	PAL ANAND ACHCHELAL	
B612025	JARIKOTE MAHESH BALAJI		B612052	PAWAR ASMITA DHANANJAY	
B612026	JAWALGIKAR ISHA DATTATRAYA	<i>Amangi</i>	B612053	SHAIKH NOORUDDIN NASIRUDDIN	<i>Amangi</i>
B612027	KADAM PRATIK SANJAY	<i>Amangi</i>	B612054	SHIVARAJ MOHAN SHENDKAR	<i>Amangi</i>

Subject Teacher

Industrial visit Coordinator



HOD



**ZEAL EDUCATION SOCIETY'S  
ZEAL COLLEGE OF ENGINEERING AND RESEARCH  
NARHE | PUNE -41 | INDIA**



Record No.: ZCOER-ACAD/R/

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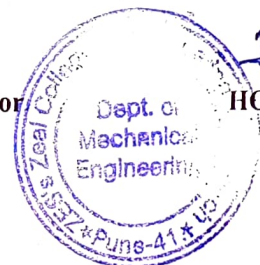
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Roll No	Name of the student	Sign	Roll No	Name of the student	Signature
B613001	DESHMUKH KRUSHNA ACHUTRAO		B613028	SAYYAD SHARIF ISMAIL	
B613002	KALE SURAJ SUNIL		B613029	SHELAR ROHIT RAMCHANDRA	
B613003	KUNVAR KRUNALBHAI DILIPBHAI		B613030	SHELKE MAYURESH SHAHURAJ	
B613004	NIGADE ROHIT SHIVAJI		B613031	SHIRKE VIVEK DILIP	
B613005	PANDIT OMKAR SOMANATH		B613032	SHITOLE DHIRAJ PRAKASH	
B613006	PARAB SWAPNIL RAVINDRA		B613034	SINGH ANIKET	
B613007	PATIL DEVENDRA SUDHAKAR		B613035	SONAWANE NILESH SHIVAJI	
B613008	PATIL HINDURAO KESHAVRAO		B613036	SUKI SHANKAR SANDESH	
B613009	PATIL JAGRUT BHAGWAT		B613037	SURAVKAR JAY SANTOSH	
B613010	PATIL MAHESH UMESH		B613038	SURYAWANSHI SAINATH RAJESH	
B613011	PATIL SAURABH SUBHASH		B613039	SURYAWANSHI STIFAN BHAGWAN	
B613013	PATIL VISHWAJEET MANIKRAO		B613040	SURYAWANSHI TEJAS ANKUSH	
B613014	PAWAR GANESH LAXMAN		B613041	TAWARE SWAPNIL VASANT	
B613016	PAWAR SWAPNIL RAJESH		B613042	TAYADE SACHIN ASHOK	
B613017	PAYGUDE OMKAR ASHOK		B613043	THOPATE AKSHAY MADHUKAR	
B613018	PHALKE MAHESH PRADIP		B613044	VIBHUTE SHUBHAM KAILAS	
B613019	PRATIK SANJAY PULUJKAR		B613045	VISHWAKARMA ATMARAM D	
B613020	RAJESHIRKE INDRAJEET S		B613046	WAGHMARE SAGAR ASHOK	
B613021	RAJIVADE ROHIT DATTATRAY.		B613047	YADAV ABHISHEK SHIVAJI	
B613022	RAJIWADE RAHUL DILIP		B613048	YADAV JAYESH DHARMRAJ	
B613023	RAJPUROHIT DHANESH RAMSINGH		B613049	YENPURE BHARAT MONOHAR	
B613024	RANSING SOHAM SANTOSH		B613050	ZAGADE ABHISHEK ANIL	
B613025	RAUT SOURABH BALKRUSHNA		B613051	RATHIWADEKAR PRATEEK L	
B613026	REKHALE PRASHANT SHRIMANT		B613052	MANE RAHUL ATMARAM	
B613027	SANKPAL SOURABH HANUMANT		B613053	RATHOD RAVI GOPI	

Subject Teacher

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B624001	AKERKAR OMKAR SHARAD	<i>AK</i>	B624028	MOHOLKAR SUNIL BALASAHEB	
B624002	ARKAL VARUN SUNIL	<i>AR</i>	B624029	MORE MAHESH SANJAY	
B624003	ASMAR SHARDUL VINOD	<i>AS</i>	B624030	MORE MAHESH SUNIL	<i>MS</i>
B624004	BAGAL SATYAJIT PUNJARAM		B624031	MORE MAYUR KAILAS	<i>MM</i>
B624005	BARGAJE AJAY DAJIBA	<i>BA</i>	B624032	MORE YASH SHANKAR	<i>YS</i>
B624006	BASUTKAR APRATIM AVANEENDRA	<i>BA</i>	B624033	NIRGUDE MANOJ	
B624007	BENDALE TEJAS JANARDAN	<i>BT</i>	B624034	PAREKH SMIT MILIND	<i>SM</i>
B624008	BHIRDIKAR NINAD INAMDAR	<i>BN</i>	B624035	PARMAR NARESH JAGDISH	<i>PN</i>
B624009	BHOJ AKSHAY ANIL		B624036	PATIL ABHIJEET NAMDEO	<i>PA</i>
B624010	BHOJANE RUTWIK ARVIND	<i>BR</i>	B624037	PAWAR ANIKET DNYANESHWAR	<i>PA</i>
B624011	BHOSALE AKSHAY MAHADEO		B624038	POTDAR SHUBHAM SURESH	<i>PS</i>
B624012	BIRWADKAR KETAN VINAYAK		B624039	ANKUR RAUT	<i>AR</i>
B624013	CHATE MADHUSUDAN TUKARAM	<i>CM</i>	B624040	RAWOOT FAIZAN MOOSA	
B624014	CHAUDHARI ANIRUDDHA SAMPAT	<i>CA</i>	B624041	SAKPAL ANIKET MANGESH	
B624015	DAKVE BHAVESH SURESH		B624042	SAKPAL SHUBHAM DEVENDRA	<i>SD</i>
B624016	DANGE PRATHAMESH M		B624043	SARADGI HANMANATH RACHANNA	<i>SR</i>
B624017	DHOKALE PRASAD DATTATRAY	<i>DP</i>	B624044	SAWALKAR SHUBHAM DEVIDAS	<i>SD</i>
B624018	DOHALE GAURAV GENDLAL	<i>DG</i>	B624045	SHIRKE VIRAJ KUMAR	<i>SV</i>
B624019	GAIKWAD VIVEKANAND RAJENDRA	<i>GV</i>	B624046	TAWAR RAJSING SURATSING	
B624020	GULVE KUNAL NARENDRA		B624047	TEKALE GANESH VISHNU	<i>TK</i>
B624021	GUNGE VINIT DHANANJAY		B624048	UPADE ANIKET MAHADEV	
B624022	JADHAV AVADHUT GANPAT	<i>JA</i>	B624049	WAGHMARE UMESH HANMANT	
B624023	JADHAV MAHESH MAHADEV	<i>JM</i>	B624050	WAGHMODE RUTURAJ HANUMANT	
B624024	KADAM SURAJ KALYAN		B624051	ZALTE AMIT SUNIL	
B624025	KASHID CHANDRAKANT BABAN	<i>KA</i>	B624052	TANDLE ADITYA ANIL	
B624026	KOTHALKAR SAHIL DNYANESHWAR	<i>KS</i>	B624053	LOHKARE BHAGWAN VISHNU	
B624027	LOKHANDE PANKAJ ROHIDAS	<i>LP</i>			

*gk*  
Subject Teacher

*[Signature]*  
Industrial visit Coordinator

*[Signature]*  
HOD  
Dept. of Mechanical Engineering



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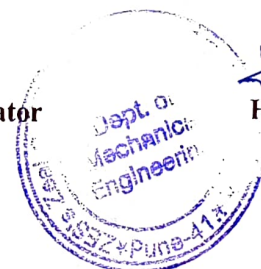
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B625001	ADSUL SUNIL ARJUN	<i>[Signature]</i>	B625028	MALEQUE ABDUL	<i>[Signature]</i>
B625002	AJURKAR MAYUR MALLAPPA	<i>[Signature]</i>	B625029	MAWAL TUSHAR SUBHASH	<i>[Signature]</i>
B625003	ALASE HARSHVARDHAN C		B625032	NADRE DIPAK YASHWANTA	<i>[Signature]</i>
B625004	BARAVKAR SAGAR LAXMAN		B625033	NARALE AMEYA LAHU	
B625005	BAUSKAR TANMAY SUDHAKAR		B625034	PATIL NIKHIL ANIL	<i>[Signature]</i>
B625006	BHALE ASHWIN JITENDRA	<i>[Signature]</i>	B625035	PATIL RUSHIKESH SANJAY	
B625007	BHISE BAJARANG VASANTRAO	<i>[Signature]</i>	B625036	PATIL RUSHIKESH SHARAD	<i>[Signature]</i>
B625008	DEOKAR SURAJ ANIL	<i>[Signature]</i>	B625037	PATIL VISHWAJEET LAXMANRAO	
B625009	DHONGDE TIRUPATI VITHALRAO	<i>[Signature]</i>	B625039	PUJARI VISHAL TANAJI	<i>[Signature]</i>
B625010	GADADE SWAPNIL NILKANTH	<i>[Signature]</i>	B625040	RATHOD AVISHKAR RAJARAM	<i>[Signature]</i>
B625011	GAPAT RAJKUMAR ANKUSH		B625041	RAUT SAURABH SUNIL	
B625012	GHADWALE PRANAV KIRAN	<i>[Signature]</i>	B625042	SALI VINAYAK UMESH	<i>[Signature]</i>
B625014	GUND VISHAL ACHYUT		B625043	SALVE RAHUL SUNIL	<i>[Signature]</i>
B625015	JADHAV DHIRAJ VIJAYKUMAR	<i>[Signature]</i>	B625044	SANAP NIKHIL POPAT	
B625016	JADHAV GANESH SHANKAR		B625045	SASTIKAR ABHIRAM SHRIKANT	
B625017	KADAM SWAPNIL RAMCHANDRA		B625046	SHETE PRATIK PRAVIN	
B625018	KALEKAR NILESH BALASAHEB	<i>[Signature]</i>	B625047	SHILIMKAR DNYANESHWAR B	
B625019	KHANDAGALE KAILAS DATTA		B625048	SUTAR OMKAR SHANKAR	<i>[Signature]</i>
B625020	KHUSTULE TEJAS PRAVIN	<i>[Signature]</i>	B625049	TAPKIR SHUBHAM DNYANESHWAR	<i>[Signature]</i>
B625021	KOHADDE RAJAT RAMDAS	<i>[Signature]</i>	B625050	TAPSE AKSHAY SUNILRAO	<i>[Signature]</i>
B625022	KOTWAL UMER PASHA	<i>[Signature]</i>	B625051	WAGH ROHIT TANAJI	<i>[Signature]</i>
B625023	KUDALE PRANAV HEMANT	<i>[Signature]</i>	B625052	WARALE PRASAD RAJENDRA	<i>[Signature]</i>
B625024	KULKARNI AMOL PRADEEP	<i>[Signature]</i>	B625053	YADAV AKASH ARJUN	<i>[Signature]</i>
B625025	LABADE SHARAD NARAYAN		B625054	YADAV SHUBHAM TULSHIRAM	<i>[Signature]</i>
B625027	LOHOKARE TANMAY MAKRAND				

*[Signature]*  
Subject Teacher

*[Signature]*  
Industrial visit Coordinator



*[Signature]*  
HOD



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NARHE | PUNE -41 | INDIA**



Record No.: ZCOER-ACAD/R/

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Date:01/04/2021

**Letter of Gratitude.**

To, .  
Managing Director,  
Shri Sant Tukaram S.S.K. Ltd.,  
Kasarsai-Darumbre,  
Tal: Mulshi, Dist: Pune-410506

**Subject: Letter of Gratitude.**

The Zeal Education Society's, Zeal College of Engineering and Research Pune would like to thank you for permitting us for conducting industrial visit for the subject Energy Engineering to study Cogeneration plant for final year mechanical engineering students. The guidance of domain expert from your plant on topic Cogeneration was one of the best and interesting topics to be studied by our students. It was an honor for Zeal College of Engineering and Research to have domain experts as our resourceful eminent personnel. We believe that the knowledge shared by expert will help immensely in the development of the students and eventually translate into better future for them in this sector.

We know that your time is precious and we are grateful you shared some of it with us. We look forward to get more time from your side to arrange such industrial interactive sessions in future.

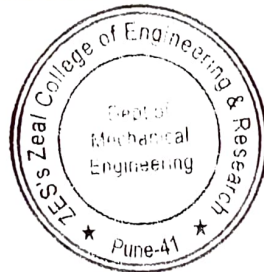
Again, thank you so much. We hope to see you soon again.

Yours faithfully,

*Received*  
*M*

आरक लिमिटेड  
श्री संत तुकाराम स. स. क. लि.  
कासर्सई-दरुम्बरे, ता. मुल्शी, जि. पुणे

*J. Tekur*  
Head of Department





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**Industrial Visit One Page Report**

To,  
The Principal  
ZES, ZCOER,  
Narhe.

**Subject:** Report on Industrial Visit of Final Year Students held at **Sant Tukaram Sugar Factory: Cogeneration Plant** on 29-30<sup>th</sup> **March 2022.**

Respected Sir,

With reference to above mentioned subject, I would like to inform you that, As a part of Savitribai Phule Pune University Final Year Mechanical Engineering curriculum for the subject, Energy Engineering, We had successfully visited **Sant Tukaram Sugar Factory: Cogeneration Plant** on 29 & 30 **March 2022**. This was good opportunity for the students to interact with industrial experts and understanding the practical knowledge of engineering. The students studied about working principle, daily power production of plant, its major equipments and suppliers of power producing devices etc.

The co-generation power plant has Boiler capacity of 85 tonne of steam generation per hour (85 TPH) which produces 15 MW power, out of which 4 MW is utilised for running electrical equipments of sugar cane factory and 11 MW is sold to MSEB. Power station is in working from october to april. For combustion, first woods are burnt to start combustion and then bagasse is used.

Total one hundred and Forty one (141) final year students (B.E. A, B, C, D & E) + 8 Faculties were presents for this visit.

POs/PSOs Attained	P	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	PSO 4
	1	✓					✓	✓			✓		✓	✓		
Outcomes	a) Able to understand the working of Cogeneration plant. b) Able to explain the major equipments of cogeneration plants. c) Able to learn suppliers of power producing devices.															



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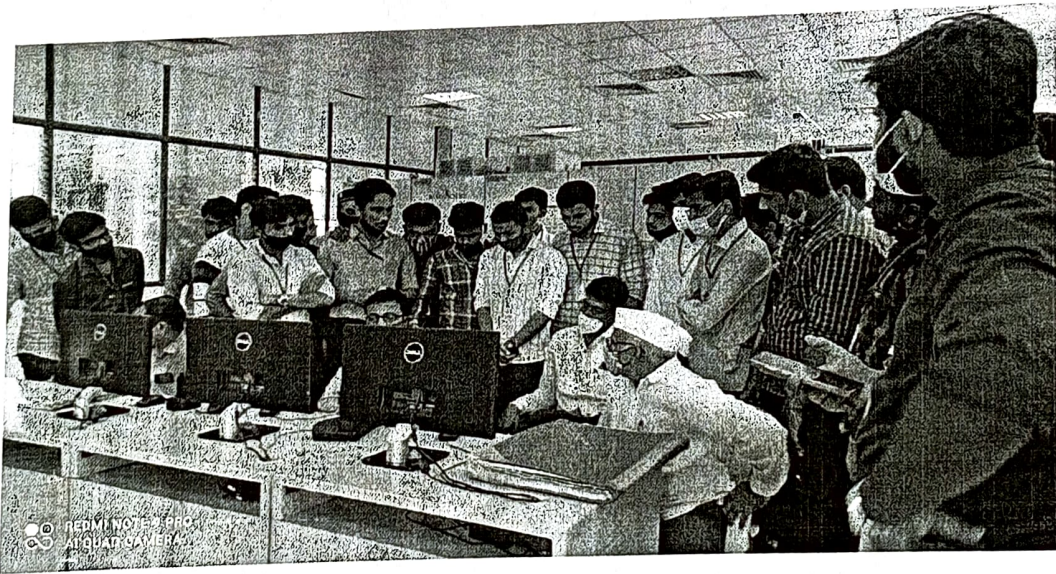
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**Industrial Visit at Sant Tukaram Sugar Factory: Cogeneration Plant on 29 & 30 March 2022**



Students of final year Mechanical Engineering at Sant Tukaram Sugar Factory: Cogeneration Plant during Industrial Visit (Entrance)



Students of final year Mechanical Engineering at Sant Tukaram Sugar Factory: Cogeneration Plant during Industrial Visit (In Control Room)

*[Signature]*  
Course Faculty

*[Signature]*  
Head of Department





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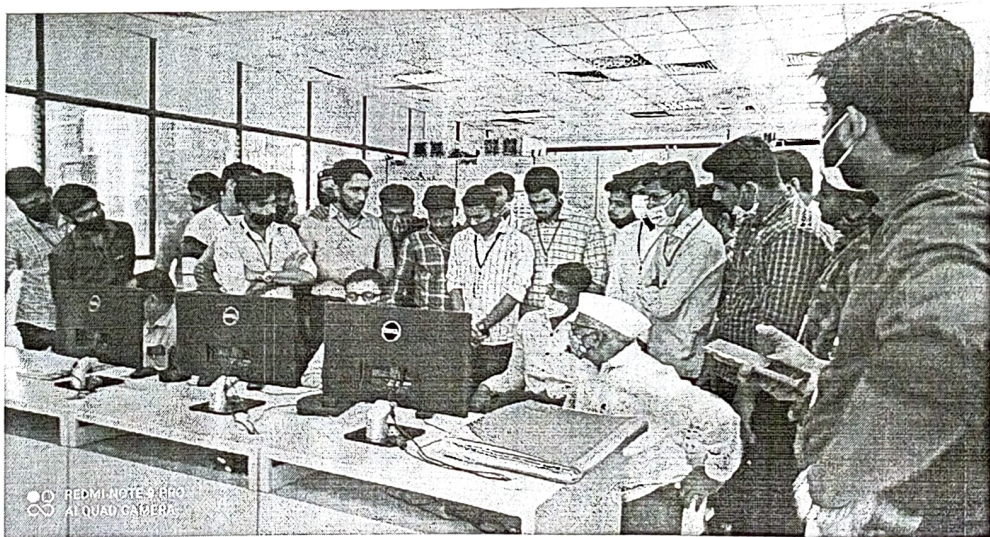
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Photographs of Industrial Visit at Sant Tukaram Sugar Factory: Cogeneration Plant on 29 & 30 March 2022



Students of final year Mechanical Engineering at Sant Tukaram Sugar Factory: Cogeneration Plant during Industrial Visit (Entrance)



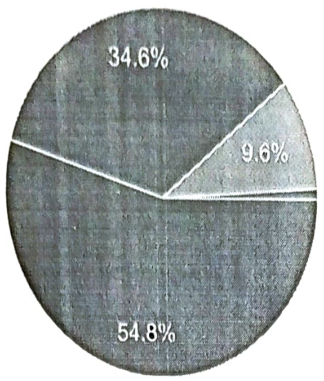
Students of final year Mechanical Engineering at Sant Tukaram Sugar Factory: Cogeneration Plant during Industrial Visit (In Control Room)

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Q.3 The industry selected in concern to meet the stated objective was

Copy

14 responses

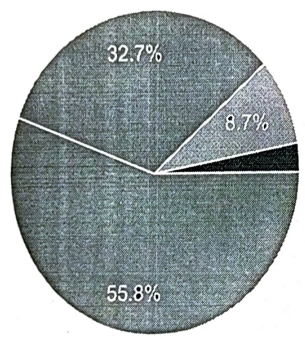


- Excellent
- Very Good
- Good
- Fair
- Poor

Q.4 The industrial visit was realize practical knowledge and knowledge gathered in lectures

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10 responses

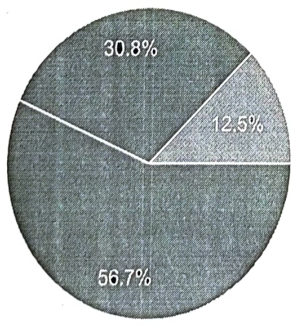


- Excellent
- Very Good
- Good
- Fair
- Poor

Q.5 Do you think the industrial visit added to your knowledge?

Copy

11 responses

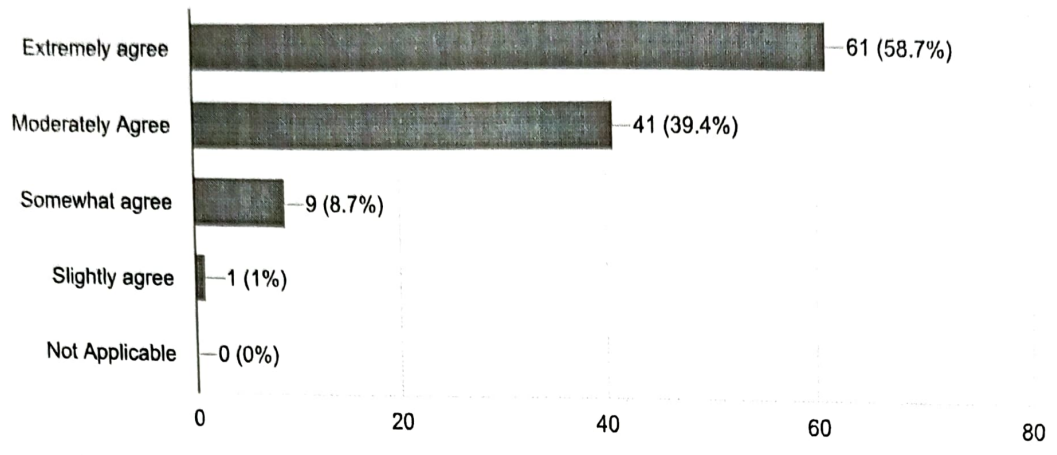


- Surely
- sufficiently
- To some extent
- Not much
- Not at all

Q.6 The industrial visit activity is useful to apply Engineering fundamentals to provide the solution of complex engineering problems



104 responses



Q.7 The industrial visit activity is useful to Identify, formulate and analyze the complex engineering problems



104 responses

