AMITY UNIVERSITY
RAJASTHAN

AMITY SCHOOL OF ENGINEERING & TECHNOLOGY(ASET)
Bachelor of Technology (Mechanical Engineering)

List of students undertaking field project or research projects or internships.

Program Code	Programme name	Name of the students
12998	B.Tech in Mechanical Engineering	Anand
12998	B.Tech in Mechanical Engineering	Prajjwal
12998	B.Tech in Mechanical Engineering	Ghmk Verma
12998	B.Tech in Mechanical Engineering	Jayanth
12998	B.Tech in Mechanical Engineering	Sohail
12998	B.Tech in Mechanical Engineering	S. Lokesh
12998	B.Tech in Mechanical Engineering	Eshwar
12998	B.Tech in Mechanical Engineering	Ankit Rao
12998	B.Tech in Mechanical Engineering	Aaskaran
12998	B.Tech in Mechanical Engineering	Shubham
12998	B.Tech in Mechanical Engineering	Arpit
12998	B.Tech in Mechanical Engineering	Gaurav Vyas
12998	B.Tech in Mechanical Engineering	Gaurav Yadav
12998	B.Tech in Mechanical Engineering	Devender Kumar
12998	B.Tech in Mechanical Engineering	Bharath G
12998	B.Tech in Mechanical Engineering	Bhatia Amanpreet
12998	B.Tech in Mechanical Engineering	Aayush
12998	B.Tech in Mechanical Engineering	Dushyant
12998	B.Tech in Mechanical Engineering	Wala Yash
12998	B.Tech in Mechanical Engineering	M. Nikhil Sai Reddy
12998	B.Tech in Mechanical Engineering	Anish Katoch
12998	B.Tech in Mechanical Engineering	Hemant Kumar
12998	B.Tech in Mechanical Engineering	Abhishek Juneja
12998	B.Tech in Mechanical Engineering	Manish Singh Rawat
12998	B.Tech in Mechanical Engineering	Ayush Singh Tawar
12998	B.Tech in Mechanical Engineering	Subham Kumar Gupta
12998	B.Tech in Mechanical Engineering	Challagulla Haswanth
12998	B.Tech in Mechanical Engineering	Vikas Jotad
12998	B.Tech in Mechanical Engineering	Yash Jain
12998	B.Tech in Mechanical Engineering	Subham Laddha
12998	B.Tech in Mechanical Engineering	Vishwendra Singh Rathore
12998	B.Tech in Mechanical Engineering	Nabeel Khan
12998	B.Tech in Mechanical Engineering	Sajan Kesari

12998	B.Tech in Mechanical Engineering	Naman Saxena
12998	B.Tech in Mechanical Engineering	Aditya Pandey
12998	B.Tech in Mechanical Engineering	Adtiya Pareek
12998	B.Tech in Mechanical Engineering	Ravi Pratap Singh
12998	B.Tech in Mechanical Engineering	Raushan Mishra
12998	B.Tech in Mechanical Engineering	Paras Jangid
12998	B.Tech in Mechanical Engineering	Shresth Kumar
12998	B.Tech in Mechanical Engineering	Dipin Yadav
12998	B.Tech in Mechanical Engineering	Akshat Chauhan
12998	B.Tech in Mechanical Engineering	Rajashekhar Gudise

A PROJECT REPORT

ON

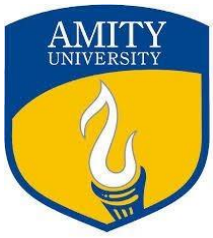
THERMAL ANALYSIS IN ANSYS

In
partial fulfillment for the award of the degree
of

BACHELOR OF TECHNOLOGY

in

MECHANICAL ENGINEERING



Submitted by

ANAND SINGH RAWAT A20499817009
PRAJJWAL DANGAYACH A20499817001

Under the guidance of

Dr. Nitesh Singh Rajput
Assistant Professor

DEPARTMENT OF MECHANICAL ENGINEERING
AMITY UNIVERSITY RAJASTHAN

May 2021

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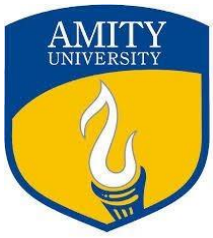

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May 2021

A PROJECT REPORT

ON

PNEUMATIC BRAKING SYSTEM

In
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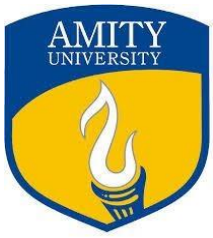

Submitted by

H M K VARMA GOTTUMUKKALA A20499817005
MALOTHU JAYANTH NAYAK A20499817024

Under the guidance of

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Assistant Professor

DEPARTMENT OF MECHANICAL ENGINEERING
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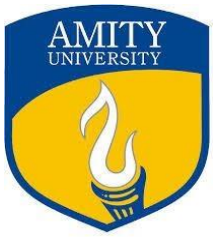

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May 2021

A PROJECT REPORT

ON

COMPOSTING MACHINE

IN
partial fulfillment for the award of the degree
of

BACHELOR OF TECHNOLOGY

in

MECHANICAL ENGINEERING

Submitted by

MOHAMMAD SOHAIL	**A20499817025**
SAMPATHARAO LOKESH	**A20499817004**
SIDDANATHI ESWAR VARDHAN	**A20499817006**
ANKIT RAO	**A20499817023**

Under the guidance of

Mr. M. S. Sisodiya
Assistant Professor

DEPARTMENT OF MECHANICAL ENGINEERING
AMITY UNIVERSITY RAJASTHAN

May 2021

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AMITY UNIVERSITY RAJASTHAN

May 2021

A PROJECT REPORT

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ELECTRIC FURNACE

In
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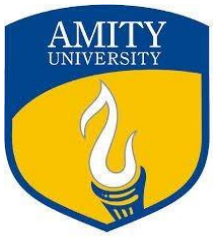

Submitted by

AASKARAN **A20499817016**
SHUBHAM CHHIPA **A20499817001**

Under the guidance of

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Assistant Professor

DEPARTMENT OF MECHANICAL ENGINEERING
AMITY UNIVERSITY RAJASTHAN

May 2021

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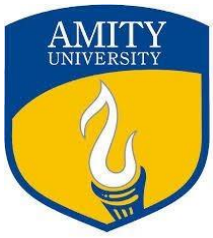

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May 2021

A PROJECT REPORT

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CARBON FOOTPRINT REDUCTION MODEL

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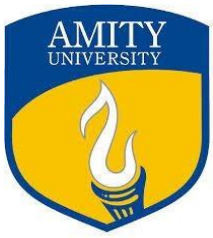

Submitted by

ARPIT KUMAR KASHYAP **A20499817003**
GAURAV VYAS **A20499817022**

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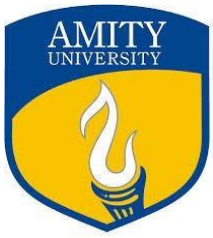

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May 2021

A PROJECT REPORT

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AGRICULTURAL SPRAYER

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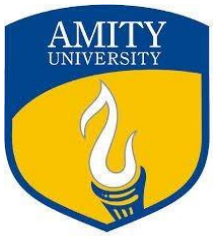

Submitted by

GAURAV YADAV **A20499817020**
DEVENDER KUMAR **A20499817010**

Under the guidance of

Mr. Amit Sharma
Assistant Professor

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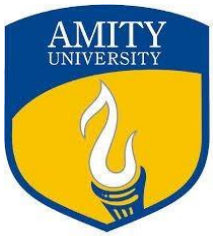

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May 2021

A PROJECT REPORT

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ROCKER BOGIE MECHANISM

In
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Submitted by

BHATIA AMAN PREET	**A20499817001**
SINGH PARAMJEET SINGH	
BHARATH G	**A20499817019**

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May 2021

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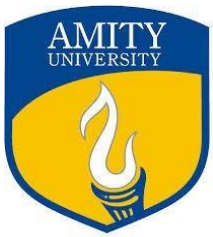

Submitted by

AAYUSH GUPTA	**A20499817012**
DUSHYANT RATHORE	**A20499817018**
WALA YASH UMESH	**A20499817002**

Under the guidance of

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Assistant Professor

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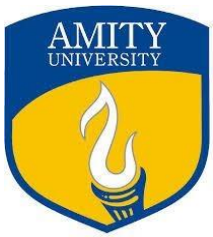

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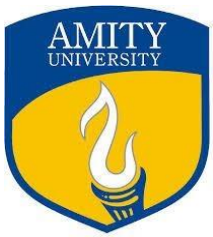

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AMITY UNIVERSITY RAJASTHAN

May 2021

A PROJECT REPORT

ON

AQUACULTURE WASTE COLLECTOR

In
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MECHANICAL ENGINEERING

Submitted by

MARREDDY NIKHIL SAI REDDY **A20499817007**

Under the guidance of

Mr. Deepak Kachhot
Assistant Professor

DEPARTMENT OF MECHANICAL ENGINEERING
AMITY UNIVERSITY RAJASTHAN

May 2021

A PROJECT REPORT

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MINI REFRIGERATOR

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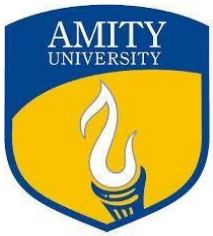

Submitted by

ANISH KATOCH **A20499817021**
HEMANT KUMAR **A20499817014**

Under the guidance of

Mr. Pankaj Agarwal
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AMITY UNIVERSITY RAJASTHAN

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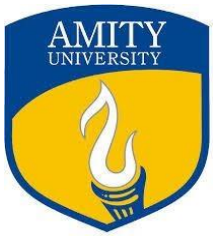

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May 2021

A PROJECT REPORT

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AUTOMATED DOUBLE HACKSHAW MACHINE

In
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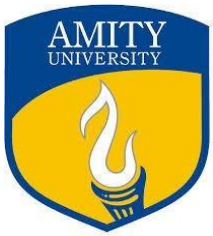

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ABHISHEK JUNEJA **A20499817011**
MANISH SINGH RAWAT **A20499817013**

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AMITY UNIVERSITY RAJASTHAN

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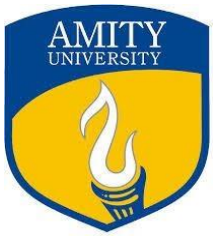

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AMITY UNIVERSITY RAJASTHAN

May 2021

CAPARO ENGINEERING INDIA LIMITED (A Group company)
Corporate Identity Number: U74101DL2000PLC105609
Steel Tube Road, Dewas - 455 001, Madhya Pradesh, INDIA
Phone No: 91 – 7272 – 424300, Website: www.caparo.co.in

CEIL/HR& ADMIN/ 159
Date:- 27/07/2021

To whomsoever it may Concern

This is to certify that Mr. Ayush Tawar has successfully completed his internship training with CAPARO ENGINEERING INDIA Limited, Dewas. His Internship tenure was Fifteen Days from 12th July 2021 to 26th July 2021.

During the training he was found satisfactory.
We wish him best wishes for his future endeavor.

For CAPARO ENGINEERING INDIA Limited

S.K. Choudhary

Authorized Signatory

Caparo Engineering India Ltd. DEWAS

DAIKIN

Perfecting the Air

DATE : 24-July-2021

Certificate of Training

HVAC Skill Enhancement Program

A.C.D.C Training Centre, Neemrana, Rajasthan

This is to certify that **Mr. SUBHAM KUMAR GUPTA** from **AMITY - JAIPUR** has successfully completed a **5 - Days** Industrial Training HVAC Products (Basic of Air-conditioning, Product Knowledge, R-32 Refrigerant, Inverter air-conditioners, Basics of Installation, Routine Service, Trouble shooting and introduction of VRV) from 19th July ~ 23th July 2021.

S.P. Singh
Deputy Manager - Training & Development
DAIKIN AIRCONDITIONING INDIA PVT. LTD.

APS Gandhi
Vice President - Training & Development
DAIKIN AIRCONDITIONING INDIA PVT. LTD.


Certificate of Completion
This is to certify that Challagulla Haswanth successfully completed 4.5 total hours of SOLIDWORKS: Become a Certified Associate Today (CSWA) online course on June 22, 2021
Tayseer Almattar
Tayseer Almattar, Instructor
TforDesign .
TforDesign ., Instructor
&
Udemy
Certificate no: UC-c78c4ae7-5cf3-4bfb-8205-807022c8af46
Certificate url: ude.my/UC-c78c4ae7-5cf3-4bfb-8205-807022c8af46
Version 3
#BeAble

PARSHI
TRAINING & TECHNICAL SERVICES PVT. LTD.
2nd Floor, Pixel Tower, Beside Morani Motors (VOLVO), Sitabari, Tonk Road, Jaipur - 302011 (Raj.)
Ph. : +91-7378123123, 7378123128 | info@caddeskindia.com | www.caddeskindia.com

CERTIFICATE FOR COMPLETION OF SUMMER TRAINING

TO WHOM EVER IT MAY CONCERN

DATE: - 15 July. 2021

This is to certify That **VIKAS JOTAD** a student of Mechanical Engineering of **"Amity University, Jaipur"** has successfully completed **"Online Internship program in CAD technology using AutoCAD "**, Jaipur, w.e.f. 15th June, 2021 to till 14th July, 2021.

VIKAS JOTAD has completed his training successfully under the guidance of Mr. Vishvendra (Trainer-Mechanical CAD).

We wish him all the best for future.

Thanking you,

Training Head
CAD DESK
Parshi Training & Technical services Pvt. Ltd.

JKTIL/KTP/HR/2021
Date : 06/08/ 2021

To Whom So Ever It May Concern

Certificate of Internship Training

Name of the Student : Mr. Yash Jain

Name of Institute : Amity University, Rajasthan

Discipline : B. Tech.(Mechanical Engg.)

Training Period : 21/06/2021 TO 12/07/2021

PROJECT : PRACTICAL TRAINING

We wish all the best for his future.

For JK Tyre & Industries Ltd.

(PD CHAUDHARY)
Dy. Manager (HRD)

JKTIL/KTP/HR/2021
Date : 06/08/ 2021

To Whom So Ever It May Concern

Certificate of Internship Training

Name of the Student : Mr. Subham Laddha

Name of Institute : Amity University, Rajasthan

Discipline : B. Tech.(Mechanical Engg.)

Training Period : 21/06/202 12/07/2021

PROJECT : PRACTICAL TRAINING

We wish all the best for his future.

For JK Tyre & Industries Ltd.

JK Tyre & Industries Ltd. HR Dept. Kankroli

(PD CHAUDHARY)
Dy. Manager (HRD)

MSME TECHNOLOGY CENTRE

(INDO-GERMAN TOOL ROOM, INDORE)

(A Govt. of India Society)

IGTR

Certificate No. 43908

This is to Certify that

Shri/Ms. VISHWENDRA SINGH RATHORE

of AMITY UNIVERSITY, RAJASTHAN

has attended and successfully completed the Training Programme

on CNC MILLING PROGRAMING

conducted by IGTR, Indore From 16-08-2021 *to* 28-08-2021

Course Co-Ordinator

Date: 28-08-2021

INDO-GERMAN TOOL ROOM INDORE

HOD (TRG.)

M.K. PALIWAL
H.O.D.
(Training)

SECTOR-E INDUSTRIAL AREA, SANWER ROAD, INDORE - 452 015 (M.P.)

INDO GERMAN TOOL ROOM

SAWER ROAD, INDORE, MADHYAPRADESH

A TRAINING REPORT

SUBMITTED IN PARTIAL FULLFILLMENT OF THE
REQUIREMENT FOR THE AWARD OF DEGREE

BACHELOR OF TECHNOLOGY
(MECHANICAL ENGINEERING)
SUBMITTED TO :
AMITY UNIVERSITY, RAJASTHAN
SUBMITTED BY :

NAME OF STUDENT
VISHWENDRA SINGH RATHORE
(A22299818003)

16-8-21 TO 28-8-21
(DURATION OF TRAINING PERIOD)

TO WHOMSOEVER IT MAY CONCERNED

Training Certificate

Date: 27/08/2019

This is to certify that Nabeel khan student of 4th Semester, Amity University Rajasthan, has undergone practical training from 10/06/2019 to 03/07/2019 at our workshop situated at Delhi by pass road Jaipur. He has taken training of service and maintenance of petrol and diesel engine of Maruti Suzuki vehicle.

His behaviour and conduct was good during the training period.

We wish him good future ahead

Thanks & Regards.

Authorized Signatory

Sanga Automobiles pvt. Ltd.

Maruti Suzuki Authorised Dealer

Jaipur

sanga automobiles pvt. ltd.

(Authorised Maruti Dealer)

Showroom
[illegible] Pratap Enclave Pratap Nagar
[illegible] Jaipur 302 033 (Raj.)
[illegible] 0141 2793624 / 5 / 6 / 7 4110100
[illegible] 0141 2793683

Workshop :
Sector-38, Pratap Nagar,
Tonk Road Jaipur - 302 020 (Raj.)
Ph 0141-2732250 / 1 / 2 / 3 / 6 4110200
Fax 0141-2731777

Workshop :
Opp. Laxman Doonga, Near Hpcl,
Delhi Bypass Road, Jaipur
Ph 0141-2630065
Fax 0141-2630046

Lifebond
MACHINES PVT. LTD.

Date : 26/07/2021

To Whom It May Concern

This is to certified that **Mr. Sajan Kesari**, a student of Bachelor of Tech. (Mech.Enng.) sem-v. Amity University, Jaipur(Rajasthan) has successfully completed his internship. The candidate has worked under my supervision, during his internship period (25th june 2021 to 25th July 2021) he handle CNC & Machine Assembly as his project. I am pleased to state that he worked hard in preparing this report and has been able to present to a good picture of concerned work. The information and findings presented in the report seems to be authentic.

Mr. Sajan Kesari possesses a good moral character and pleasing personality. I wish him every success in life.

Thanks & Regards

For Lifebond Machines Pvt. Ltd.

Director

LIFEBOND MACHINES PVT. LTD. SURAT

Office / Factory : Joy Silk Mills Compound, Lal Darwaja, Station Road, Surat - 395 003, Gujarat, INDIA.
Factory : Survey No. 122/1-B, Plot No. A5/8, Block No. 101, Road No. 11, Hojiwala Industrial Estate, Sachin Udhyognagar Sahkari Mandli Ltd. Village : Vanz, Tal. Choryasi, Dist. Surat - 394230
Phone : +91 - 261 - 2534132 / 2531837 - E-mail : accounts@lifebondindia.com. - www.lifebondindia.com

SIDHBALI MOTORS

MORADABAD, UTTAR PRADESH 244001

A TRAINING REPORT

SUBMITTED BY

NAMAN SAXENA

(A20499819007)

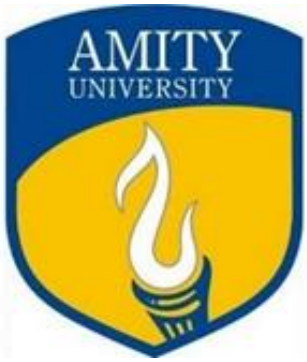
SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF

BACHELOR OF TECHNOLOGY

(Mechanical & Automation Engineering)

SUBMITTED TO

AMITY UNIVERSITY, RAJASTHAN



ACKNOWLEDGEMENT

I would like to place on record my deep sense of gratitude to **Mr. Manish Gumber** the quality manager at **Sidhbali motors** for his generous guidance, help and useful suggestions.

I express my sincere gratitude to **Mr. Sunny Singh**, the general manager at shop Manager of quality control department of Sidhbali motors**,** for his stimulating guidance and continuous encouragement.

I also wish to extend my thanks to Mr. Hitesh Yadav, and other workers for guiding and providing the knowledge related to engines and automobile parts.

I am extremely thankful to **Dr Pankaj Pandey**, Director, ASET, for encouragement and I wish to express my heartfelt gratitude to Mr. Deepak Kachhot Professor & Coordinator of Mechanical Engineering for his constructive criticism throughout my internship.

SIDHBALI MOTORS

ASHOK LEYLAND
Aapki Jeet. Hamari Jeet.

Date: 28-Jun-2021

To Whom It May Concern

This is certified that **Mr. Naman Saxena,** a student of Bachelor of Tech. (Mech. Engg.) sem-V. **AMITY University, Jaipur (Rahsthan)** has successfully completed his internship. The candidate has worked under my supervision, during his internship period **(01 June 2021 to 28 June 2021)** he handled **"Heavy Vehicle"** as his project. I am pleased to state that he worked hard in preparing this report and has been able to present a good picture of concerned work. The information and findings presented in the report seems to be authentic.

Mr. Naman Saxena possesses a good moral character and pleasing personality. I wish him every success in life.

Thanks & Regards

Sidhbali Motors Pvt. Ltd.
Auth. Signatory

.....

Manish Gumbar
Genral Manager- Sidhbali Motors.
Auth. For Ashok Leyland Ltd.

CERTIFICATE

I hereby certify that I **Naman Saxena**, have completed the four weeks Training in partial fulfilment of the requirements for the award of **Bachelor of Technology in Mechanical & Automation Engineering.** I did my training in Sidhbali Motors, Moradabad Uttar pradesh, from 01-06-2021 to 28-06-2021.

The matter presented in this Report has not been submitted by me for the award of any other degree elsewhere.

Signature of Student
Naman Saxena
(A20499819007)

Examined by

1…….

2…….

ABSTRACT

Every student of Bachelor of Technology in mechanical engineering has an essential requirement to do 4 weeks of training in any of the well reputed organisation. The purpose of this program is to do acquaint the students with practical application of theoretical concepts taught to them during conduct of their course.

The objective of this internship is to gather information about the organization's working and structure and the major-minor problem that can be observed in day-to-day life. In the organization, I have learnt the rules and safety instruction which helps me in understanding while working on heavy vehicles. I achieved many of my learning goals. I got insight into the work of an organization. The financing is an important factor and forces to be flexible in attitude and approach.

At last, this internship has given me new insights and motivation to pursue a career in mechanical engineering.

TABLE OF CONTENTS

1. INTRODUCTION TO COMPANY/INDUSTRY

1.1Overveiw

Sidhbali Motors Private Limited is a Private incorporated on 28 January 2015. It is classified as non-government company and is registered at Registrar of Companies, Kanpur It is involved in Sale of motor vehicles [Includes wholesale and retail sale of new and used passenger motor vehicles and lorries, trailers, and semi-trailers].

Also known for Leyland's truck towing services, repair & services part dealers and much more.

Sidhbali Motors Private Limited's Annual General Meeting (AGM) was last held on 30 December 2020 and as per records from ministry of corporate affairs (MCA)

Directors of Sidhbali Motors Private Limited are Puneet Agarwal, Rachit Agarwal.

This establishment offers leyland's truck in nearby cities with its wide network

Its Email address is rachitag1989@rediffmail.com and its registered address is Besauli Gate Chandausi Moradabad, UP, 244001.

Fig1.1

Fig1.2

Fig1.3

2.DEPARTMENTS OF THE COMPANY/INDUSTRY

2.1Workshop I have done my internship in the workshop of **Sidhbali Motors, Moradabad**. There, I have work under a mentor who tells me about the organization and the work procedure, quick repairs, how to solve major-minor problem generally observed in the **TRUCKS**

2.1.1 Break-down service department:

The break-down service department of our company is very good, as per reviewed by the customers, the break-down service is available for 24x7 hour. Breakdown maintenance is maintenance performed on a piece of equipment that has broken down, faulted, or otherwise cannot be operated. The goal of breakdown-maintenance is to fix something that has malfunctioned.

2.1.2 Power supply department:

The department of power supply is also good and its maintenance too.

2.1.3 Towing department:

Towing service is available for 24x7 hour.

2.1.4 maintenance and servicing department:

Excellent service provided by the company and at right price.

2.1.5Managing department:

At best price (customer's satisfactory price) company sells the parts and equipment

3. DESCRIPTION OF TOOLS AND TECHNIQUES LEARNED

3.1 Spanners: Tools that are used to loosen, put nuts and bolts in place and tighten are called as spanners. Spanners have a shaped opening, opening for turning a nut or bolt or jaws for gripping. These tools are used in a number of places and hence require a high quality raw material for a long lasting life.

3.1.1 Ring spanners: In these types of spanners, one or both ends are made of round rings to drip nuts and bolts, in order to tight or lose them. These rings are bent down in the opposite direction from each other. The ring spanner has a ring-shaped profile like an enclosed loop. The loop is placed over the head of a fastener for turning it clockwise or anti-clockwise.

Fig 3.1

3.1.2 Open end spanners: In these types of spanners, open ends are made at both ends to hold nuts or bolts heads in them. These two ends are made at angles of 15 to 30 degrees from the in-between body. These types of spanners are most widely used. It has a U-shaped profile with a fixed width to fit the nut or bolt head. The

head has two flat sides that grip on opposite sides of a fastener for tightening or loosening it.

Fig3.2

3.1.3 Combination spanners: On one end of this spanner, an open-end spanner, and on the other end ring spanner is made. At both these ends, the spanners are of equal size.

Fig 3.3

3.1.4 T-socket spanner: These types of spanners are almost similar to the box spanner but it has a fixed hand on the top and in the bottom, a socket is built. These sockets are of different sizes. They are used in deep spaces.

Fig 3.4

3.1.5Adjustable spanner: These are special types of spanners, It is also known as screw wrench. Its jaws can be expanded or narrowed down to tight or loose the nut bolts. They are used for those nuts where no other spanner fits well.

Fig 3.5

3.2 Allen keys: A hex key, also known as an Allen key is a simple tool used to drive bolts and screws with hexagonal sockets in their heads. From standard keys in chrome vanadium steel to extra-long with ballpoint heads in chrome molybdenum steel, there are a wide variety to choose from.

These are thin steel rods with six faces that are bent at 90° angles from one end.

They have a hole of six faces on the upper side. Such bolts perform the function of tightening while keeping the surface of the job equal. These are available in numbers and sets of different sizes.

Fig 3.6

3.3PLIERS:

3.3.1Cutting plier: In most cases, their jaw structure makes wire cutters less suitable for holding larger objects such as bolts. However, because they are effective in catching and removing nails, they are still considered pliers.

Fig 3.7

3.3.2 Needle nose plier: A set of needle-nose pliers is an essential tool for any task that involves bending, shaping, and cutting wire. They have distinctiveness features that differentiate them from other types of pliers: They are equipped with curved handles that provide both comfort & control, while a smart, spring-action design helps reduce hand fatigue.

Fig 3.8

3.3.3Round nose plier: Round nose pliers are special-purpose pliers for the precise bending of wire. The small tapping jaw of the pliers has a perfectly round cross-section and can be used to make smooth turns in the wire with a controllable bending radius.

Fig 3.9

3.3.4Spark plug pliers: The narrow jaws of these pliers are either tipped with insulated tongs or a cylindrical holder. As the name suggests, the tips hold the spark plugs by boot or plug wires, assisting in automotive repair.

Fig 3.10

3.3.5Locker plier: As the name itself suggests, these pliers are designed to lock the jaws in place, making them excellent for holding stripped screws and bolts. A wide variety of jaw sizes are available for this device, allowing you to choose a design that best suits your needs.

Fig 3.11

4.TECHNIQUES LEARNED:

4.1 Rear axle:

4.1.1 What is a axle?

An axle is a rod or shaft that rotates the wheels and supports the weight of your vehicle. Axles are essential components of any vehicle and come in three main types: front, rear, and stub.

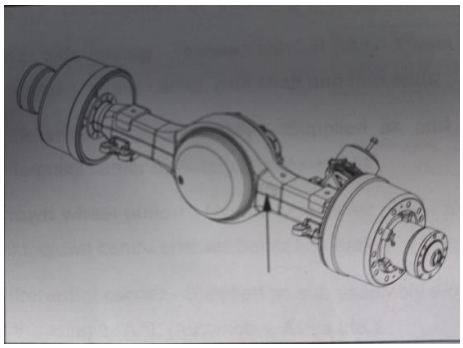


Fig4.1

4.1.2 Description of leading components

a. rear axle casing: pressed steel in banjo shape to house differential carrier, axle shaft and hub ends.

b. differential cage assembly: supplied as part of differential carrier by automotive axles ltd.

c. Crown wheel pinion: Hypoid type lower pinion axis w.r.t crown enables better lubrication

d. axle shaft: Of forged alloy steel heat treated with machined splines at one end and flange at another end

e. hub ends of spheroidal cast iron machined to accommodate inner/outer wheel bearings, oil seals, wheel bolts. The hub has spigot dia to locate brake, drums, wheel rims

f. wheel rim: of pressed steel with welded disc and loose ring. Available in 10-wheel bolts/ 8-wheel bolt versions

g. brake carrier assembly: of two makes available i.e., AAL, BIL. The brake is operated by a “S” form cam which is an integral part of the camshaft.

The Twin-Speed technology will be on offer on some of the company’s flagship models in the multi-axle range like the 2516IL, 2516XL, 3116IL and 3118IL, which are best suited for applications

like market load, cement, tankers and general cargo and are already top performers in their class. These vehicles, equipped with twin-speed axles, will be launched across the country in a phased manner. The package of such technology improvements will be extended to 4×2 haulage and buses as well.

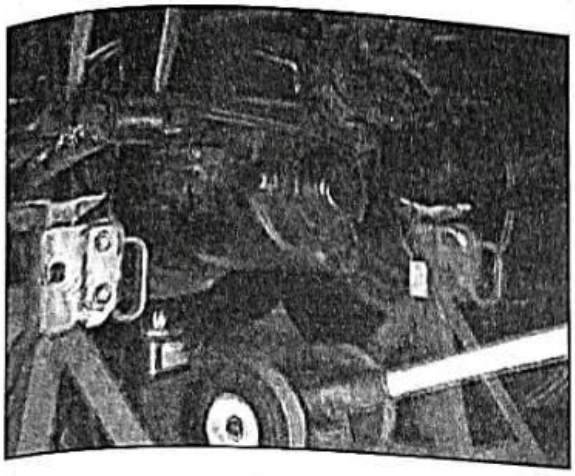
Fig 4.1

fig 4.2

Fig 4.3

fig 4.4

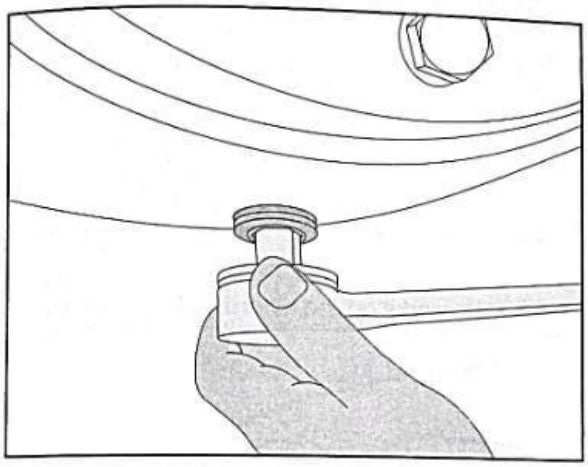
2. REMOVE AND REFIT DIFFERENTIAL CARRIER & OVERHAUL



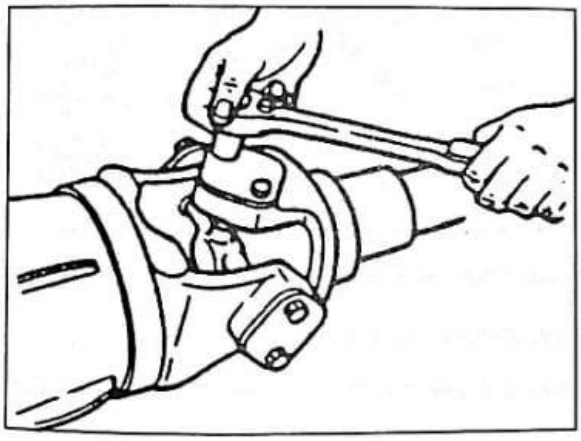
Raise the rear end of the vehicle by using suitable jack.

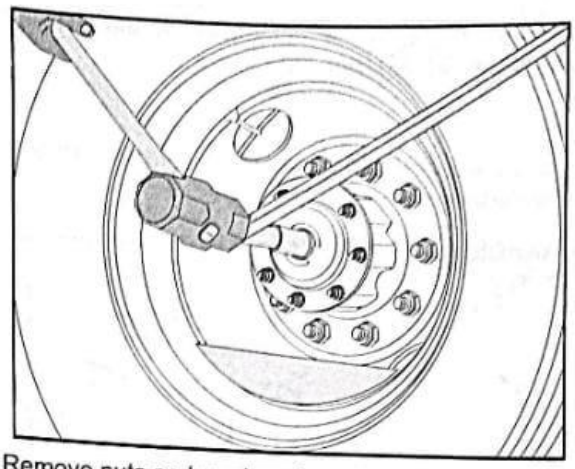
Put on jack stands.

Remove drain plug and drain differential oil.



Disconnect the propeller shaft from input flange.





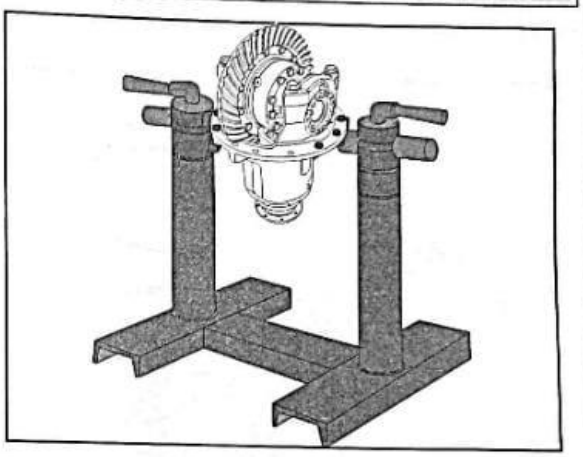
Remove nuts and washers from the axle shafts.

Loosen the taper dowels using brass drift and hammer.

Remove axle shafts using puller screws.

CAUTION

Do not hit round driving lugs on axle shaft.



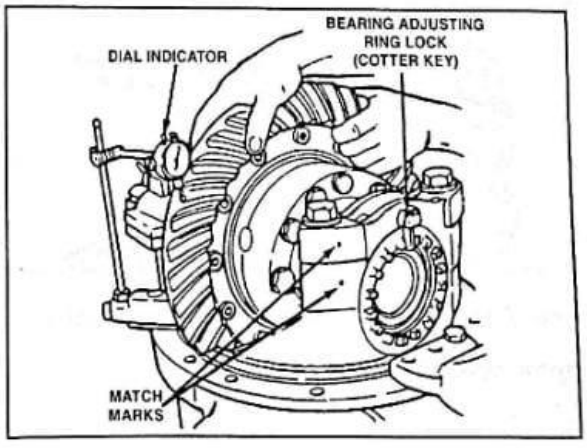
Remove axle shafts using puller screws.

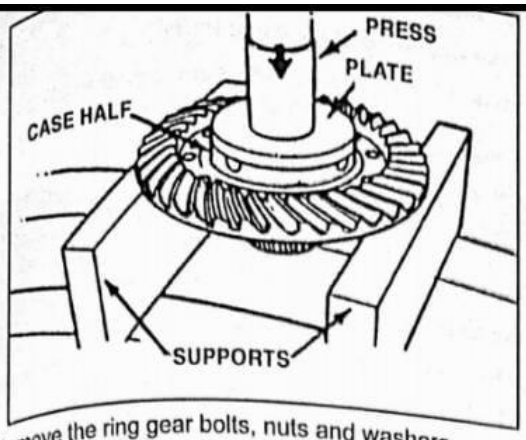
Remove all the carrier mounting fasteners.

Remove the carrier from the housing.

Mount the carrier on a repair stand.

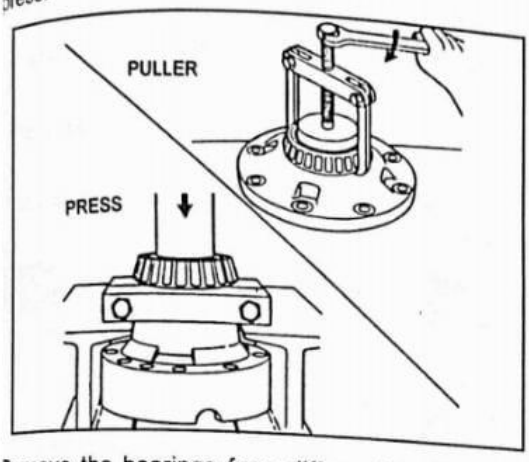
2.1 Dismantling of Main Differential



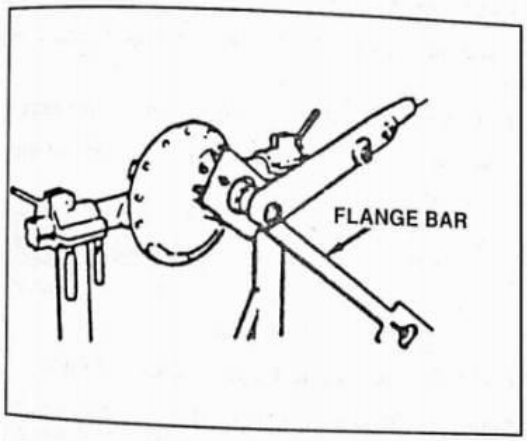


Remove the ring gear bolts, nuts and washers.

Remove the ring gear from differential case using a press.

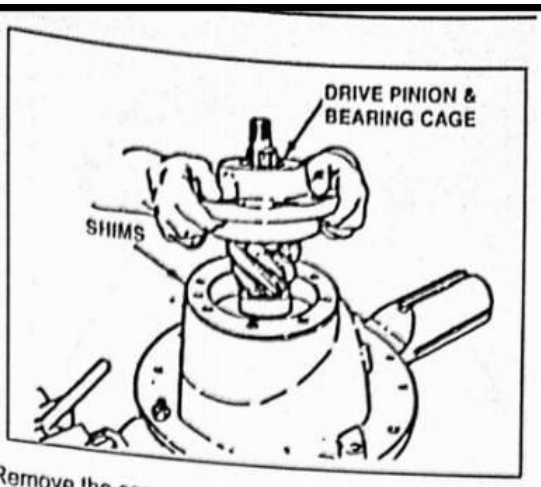


Remove the bearings from differential case using bearing puller/press.



Fasten a flange bar to the companion flange.

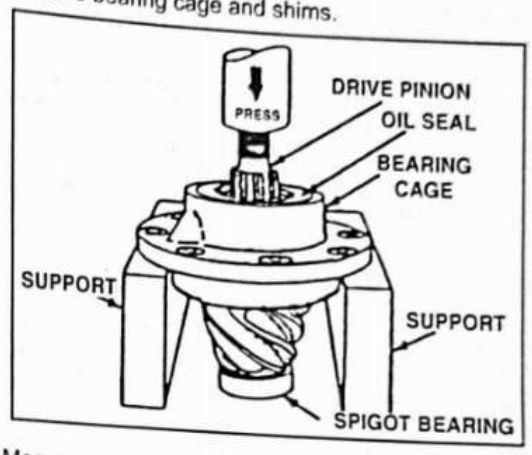
Remove pinion nut and washer.



Remove the companion flange using a suitable puller.

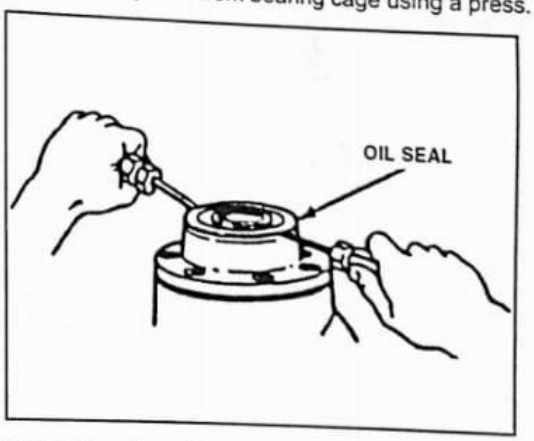
Remove cap screws and washers of bearing cage.

Remove bearing cage and shims.



Measure and note down the total thickness of removed shims.

Remove drive pinion from bearing cage using a press.

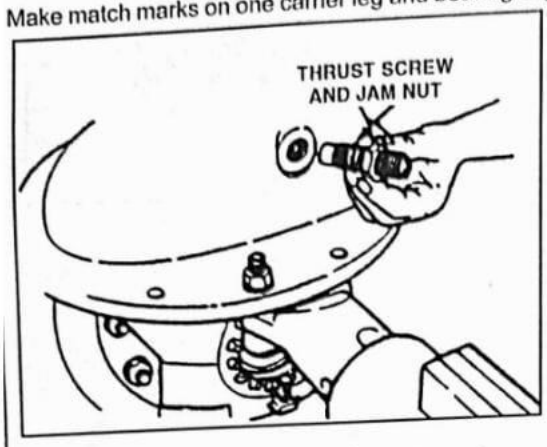


Remove the oil seal.

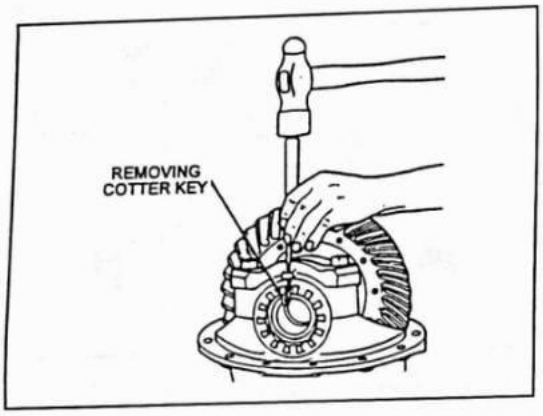
Mount the carrier in the repair stand so that the ring gear (crown wheel) is on top.

If the same gear set is to be reused record the backlash before disassembly.

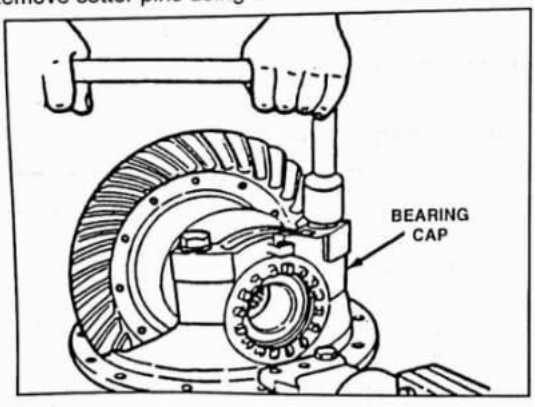
Make match marks on one carrier leg and bearing cap.



Remove thrust screw and jam nut.

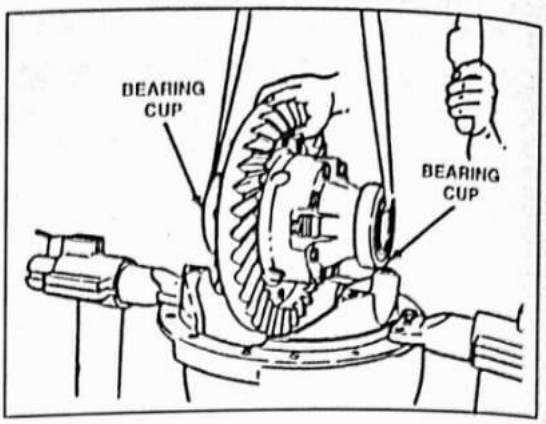


Remove cotter pins using a small drift and hammer.

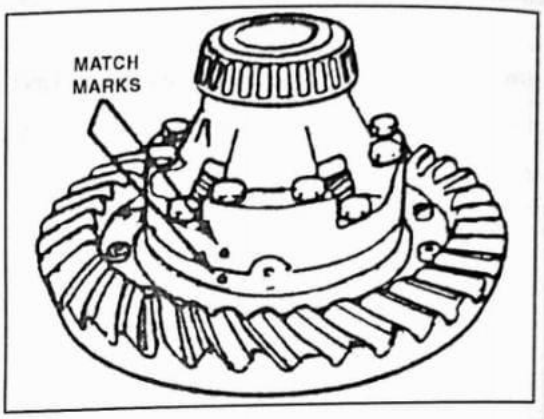


Remove cap screws and washers of bearing caps.

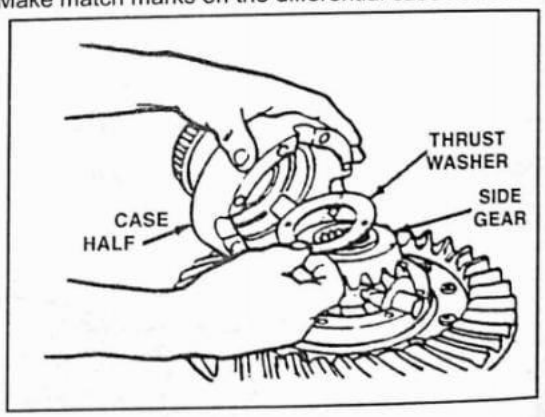
Remove bearing adjusting rings.



Lift the differential case and ring gear assembly.



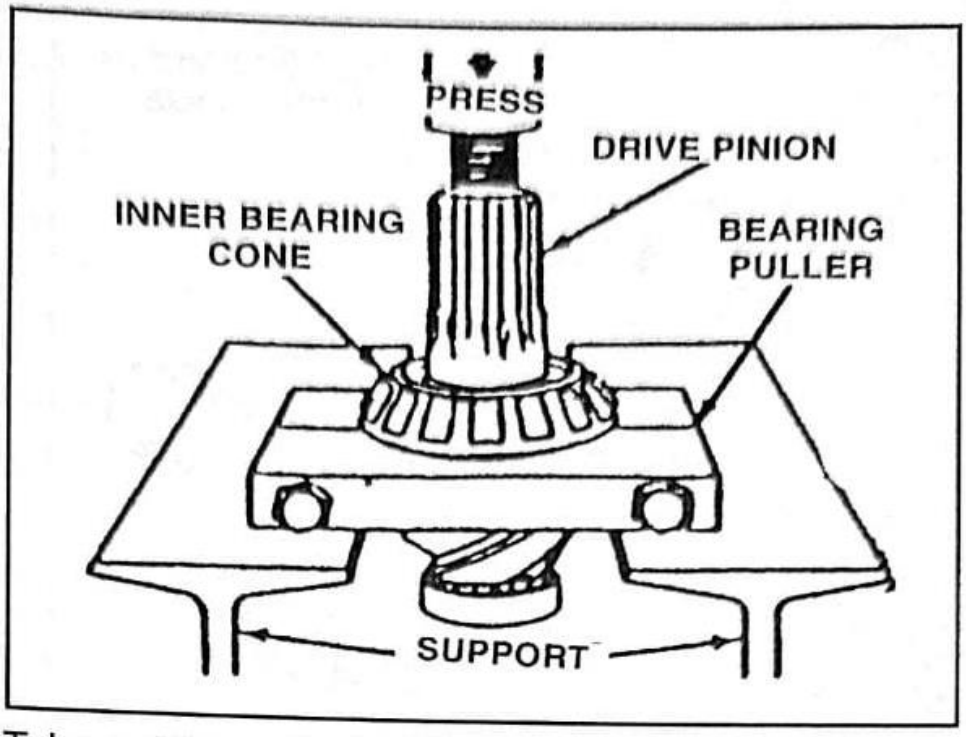
Make match marks on the differential case halves.



Remove the differential case bolts.

Separate case halves.

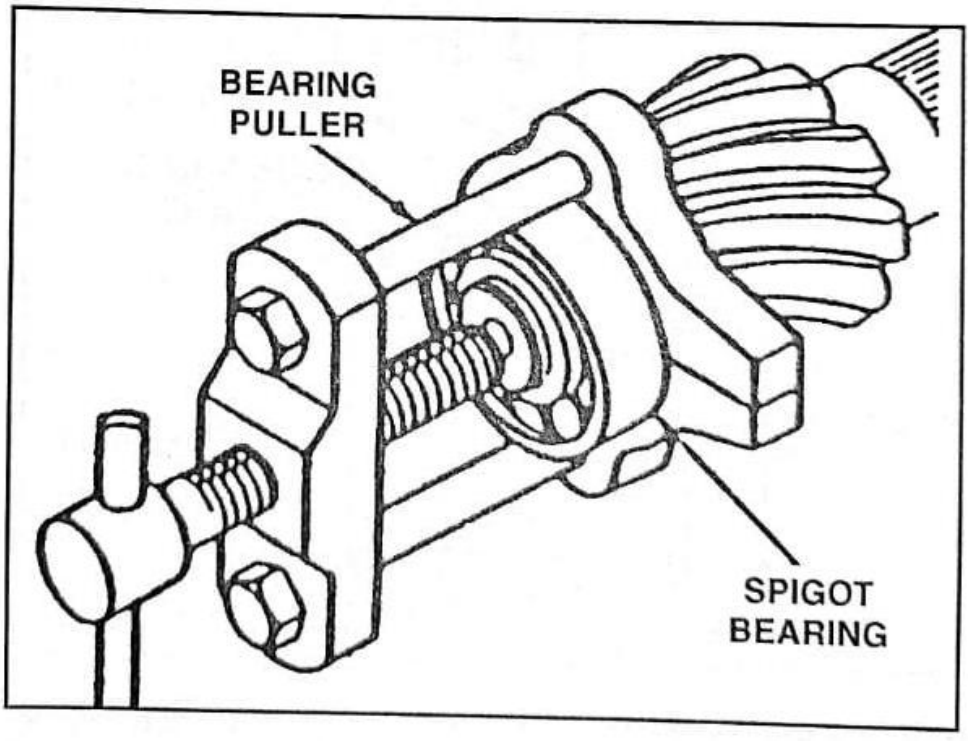
Remove spider, pinions, side gears and thrust washers.



Take out the outer bearing cone.

Remove the bearing cups from the cage using a sma drift and hammer.

Remove the inner bearing cone using the split pulle and press.



Remove the snap ring.

Remove the spigot bearing using **Special Tool P9900437 - Puller Spigot Bearing.**

4.2 Learned about gear box and clutch

4.2.1 Description of leading components of a clutch

a. Clutch disc is made of asbestos/ceramic dry type clutch linings riveted together to transmit engine power.

b. Pressure plate is made of cast iron to transmit clamping load to friction disc. The pressure plate is held square to the flywheel by driving pegs.

c. Face plate is made of cast iron. It is stepless, collarless plain disc ground either side.

d. Driving plate is made of mild steel with holes to accommodate spring cups. The clutch serial no. is punched on driving plate.

e. Thrust pad is made of mild steel machined with two different end thickness to enable free play adjustment.

f. Clutch lever is made of forged steel pivoted by a eccentric pin. The clutch lever actuates the pressure plate movement through thrust pads.

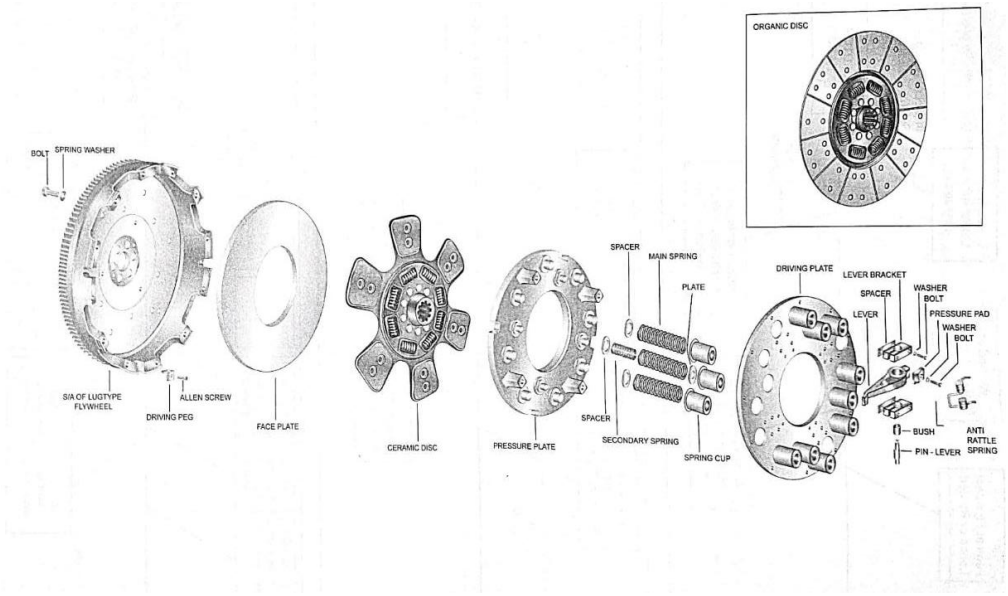


Fig 4.5 Axial spring clutch

4.2.2 Description of leading components of gear box

a. Gear Box Casing- of aluminium alloy casting with ribs all around to improve the structural strength.

b. Connection Housing of aluminium alloy casting serves as end cover, dowel located on gear box casing.

c. Gear Box Bearings the counter shaft is mounted on opposed taper roller bearings. The main shaft is mounted on cylindrical Roller Bearing at rear end and supported by a spigot bearing of front end, the input shaft supported by cylindrical roller bearing.

d. Selector Housing comprises of change speed operating mechanism, primary detents and interlock arrangement.

e.Main Shaft- of forged steel machined with stress free sections. Accommodates all fixed elements (synchro packs) on intermittent splined lengths with circlip locks. The gears are mounted on needle roller bearings.

g. Counter Shaft- of forged steel with press fitted gears, supported by two opposed taper roller bearings.

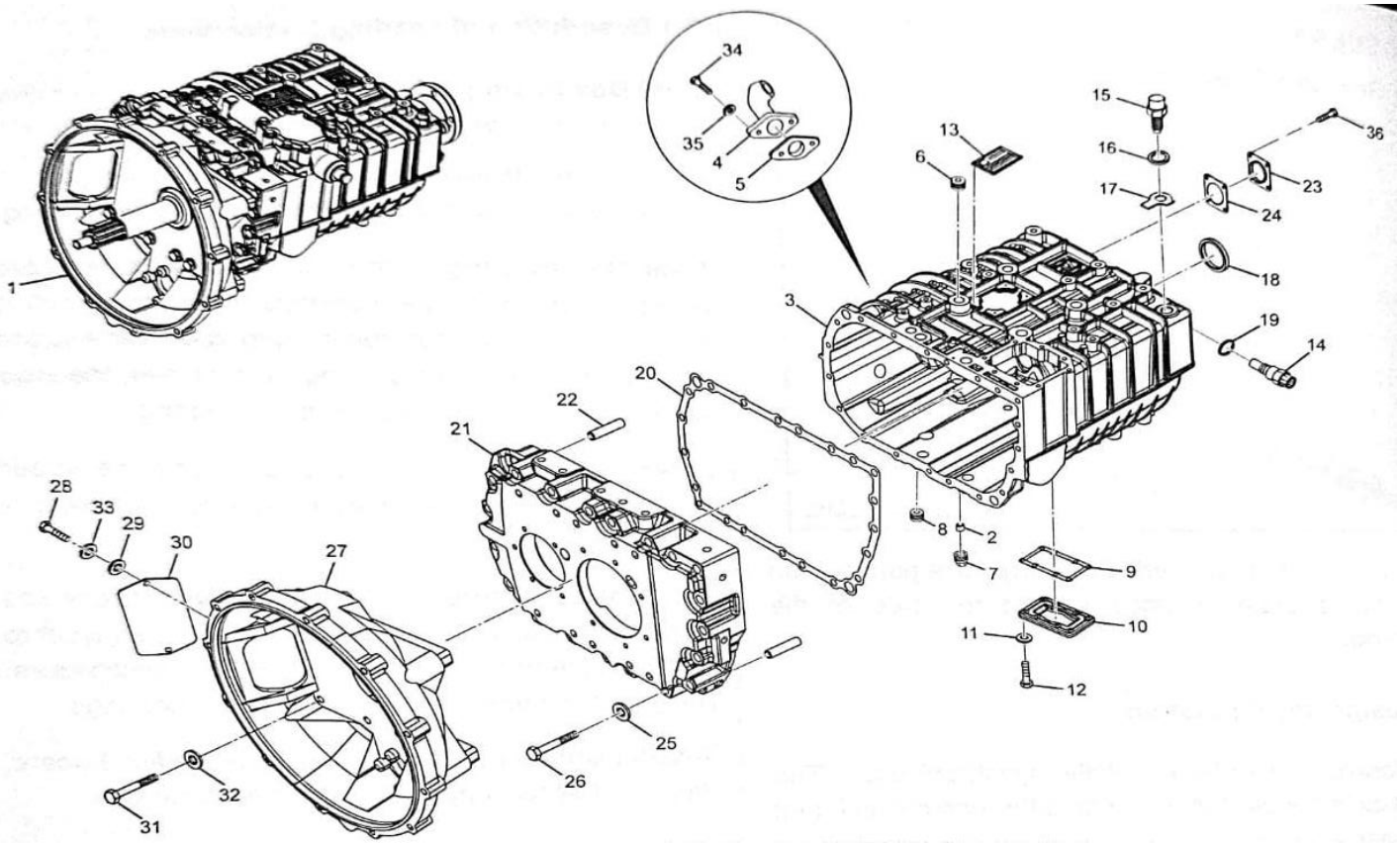


Fig 4.6 gear box casing

Sr. no.	description	qty	Sr no.	description	qty
1	Main gear case	1	26	Sealing ring	1
2	Joint for filler elbow	1	27	Washer	1
3	Filler elbow	1	28	Oil seal	1
4	Filler plug	1	29	Screwed bush	1
5	Wavy washer	2	30	Reverse light switch	1
6	Screw m8 for fixing filer elbow	2	31	Washer	1
7	Gas kit	1	32	Oil seal	1
8	Cover reverse idler	1	33	Gas kit	1
9	Wavy washer	8	34	End cover	1
10	Screw m8*30	8	35	Wavey washer	4

11	Drain plug mag.	1	36	Screw m12	4
12	Washer	1	37	Gasket	1
13	Heli coil insert m18*1.5	1	38	Gear case front	1
14	Plug m18*1.5	2	39	Dowel	2
15	Joint	1	40	Breather	1
16	PTO cover	1	41	Wavey washer	20
17	Wavey washer	6	42	Bolt m10	20
18	Screw m10*22 8.8	6	43	Clutch housing	1
19	Hammer driven screw	4	44	Special stud for fixing cl hsg to gear case	10
20	Identification plate	1	45	Spring washer	10
21	S/A of detent plunger	1	46	Nut m12	10
22	Joint for detent plunger	1	47	Cover plate on clutch housing	2
23	Tab washer	1	48	Set screw	4
24	Gear	1	49	Washer plain	4
25	shaft	1	50	Set screw	12
			51	Washer	12

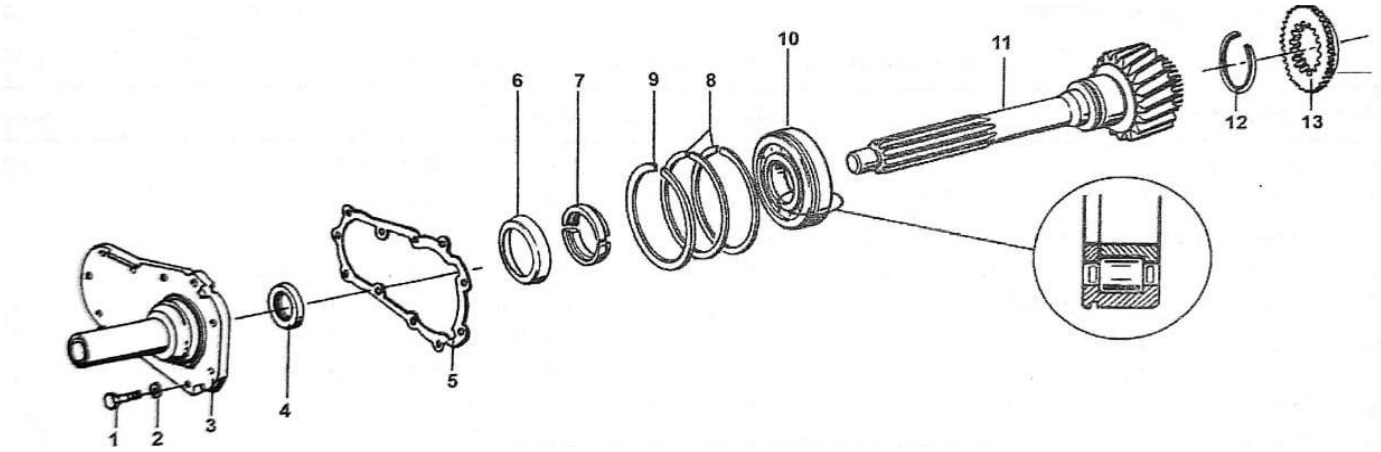
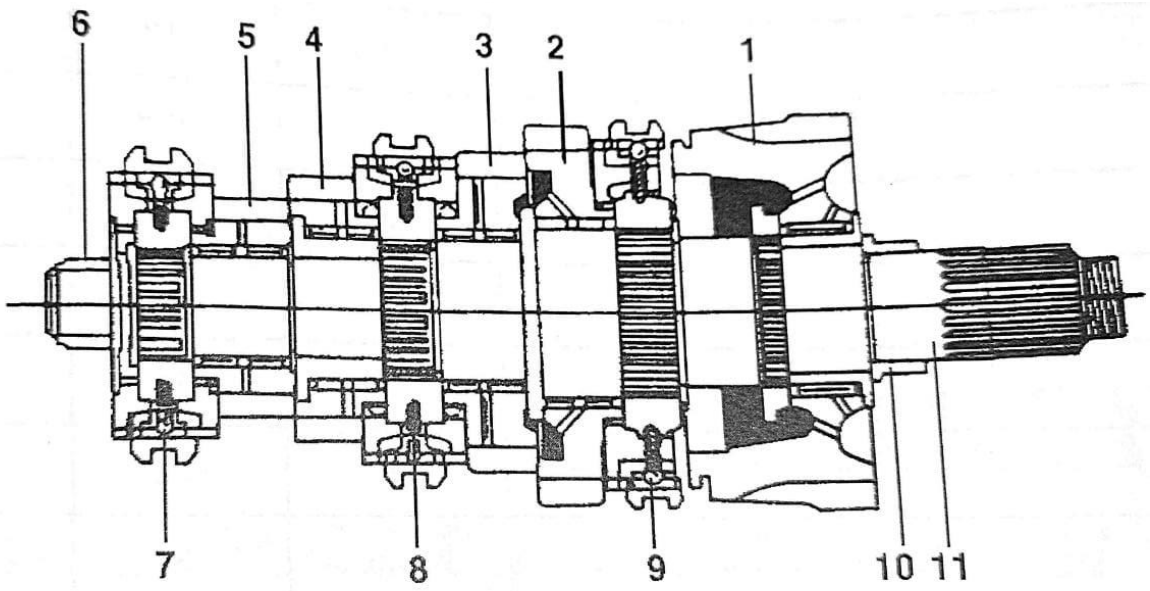


Fig 4.7 pinion shaft

Sr no.	description	qty
1	Screw m8*28	11
2	Wavy washer B Din137	11
3	Input shaft cover	1
4	Oil seal	1
5	Joint	1
6	Locking ring	1
7	Split ring	2
8	Washer	2
9	Snap ring	1
10	Roller bearing	1
11	Input shaft	1
12	Spacer	1
13	Synchro cone	1



1. Reverse Gear

2. 1st Gear

3. 2ND GEAR

4. 3rd Gear

5. 4th Gear

6. Spigot Bearing

7. 4th/5th Synchro Pack

8. 2nd/3rd Synchro Pack

9. 1st/Rev. Synchro Pack

10. Main Shaft Rear Bearing

11. Main Shaft

2.5 General Data

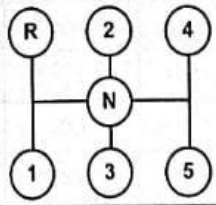
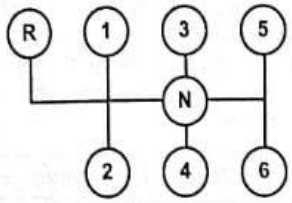
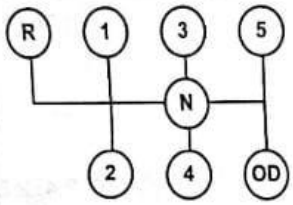
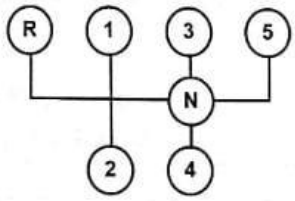
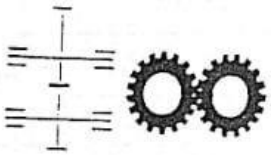
SL.NO	FIGURE	DESCRIPTION	VALUE
1		Gear Shifting pattern for ZF S5-36 (MK I)	5 + Reverse
2		Gear Shifting pattern for ZF S6-36	6 + Reverse
3		Gear Shifting pattern for ZF S6-36 OD	6 + Reverse
4		Gear Shifting pattern for ZF S5-36 MK II	5 + Reverse
5		Type of mesh	Reverse - Constant mesh Forward - Synchro mesh
6		Gear Ratio	Refer Gear Ratio Table

Fig 4.8

5.Teeth shifting of gears.

When you use gears, you might find a situation that you need to adjust the center distance to create more strength. In this section, we introduce profile shifting by changing tooth profile, or tooth thickness.

Gears are divided into two types, one is a standard gear, and the other is a profile-shifted gear. Standard gears have a basic tooth profile. Profile shifting is applied to create gears with tooth thickness that is different from standard gears. By making the tooth thickness of involute gears thicker or thinner, you can change gear strength and the center distance of paired gears

Fig 5.1

7.Uses of scanners.

8.Management skills.

6.Battery charging and potential balancing.

9 SCHEDULE OF INTERNSHIP

I started going to my internship from 1 of June 2021.

10.30 AM :- Reporting time.

10.45 AM to 1.30 PM :- Learning about the new topics/ working on trucks/ helping out the mechanics and learning how to work with tools

1.30 PM to 2:00 PM :- Lunch time.

2.00 PM to 6.00 PM :- talking about automobilies with the manager and gainig knowledge, Giving time on trucks and exploring it.

6.10 M :- Departure time.

10.SKILLS LEARNED

During my internship, I had learnt a lot of skills, like I can assemble and almost repair the differential of a truck if happens in an Ashok Leyland truck. I have even serviced a lot of trucks. I learnt how to use scanners to identify the internal problems of a vehicle. I have worked on gear box as well. The mechanic had made me work on the engine as well, I have helped them in assembling the engine. I learnt about various sensors in BSVI engine. I learnt a lot about braking system in heavy vehicles. I came across the disel tank and ad blue tank as well, I got to know how a diesel flows and reaches to the engine. I got to know the proper use of tools and equipment during my training. I had also gained some management skills during the buying and selling of parts of vehicle.

11.MY ROLE AS AN INTERNEE

In my early days of traning, they taught me the safety rules and precautions to keep in mind to work in such a workplace. They told me the importance of safety guards. Then I was introduced with the tools, I received a separate tool box of my own. I was asked to see the work and observe how the mechanic were working with the tools and what they were working on. At the very first I saw how a differential is repaired and placed back in its place then slowly and gradually came across all the parts of a truck. I was just learning the basics, like basic tools and equipment. After 1 week I started interacting with engine basics, like engine parts and their properties and uses. After 4 weeks, I started learning under the master technician of the company and he started teaching me how to troubleshoot the problems and how to fix it. After that, he taught me how to handle the breakdown situations. He took me to the spot where breakdown happened and showed me how to troubleshoot and fix it. In last week of my training. I was learning some management skills under the manager of the company.

12.CONCLUSION

Before ending this training report, I just want to say that I enjoyed my internship in Sidhbali motors a lot. I learnt everything with my full enthusiasm. In free time I would love to go to company and learn and learn these skills again. Each member of the company were really heling and kind. They also showed their full enthusiasm in teaching and guiding me. Most of the time I used to do the free services and some repair also, I have serviced brakes, learned how to lift heavy tyres, and heavy load like big differentials and how to place them and how to clean a engine head. I also learnt how to check all the sensors are working or not if not so, I have made a note for that in repair order. I also worked on management skills in interacting with customers and how to explain them their basic issue with the vehicle

After going through the internship program, the current company position, capabilities, facilities, and objectives and taking care of the customers and developing great service. It is concluded that there is a viable increase in production and management.

12.Summary of the Industrial Training Report

This report consists of information about Sidhbali motors. It gives details of different departments. This report also gives an idea on the tools and equipment and techniques used in the industry. The schedule of training has the proper timetable that I have followed while training with the name of the department I have visited. The next section consists of skills learned in my training period. It gives an idea on what role and responsibilities are assigned to me. Then comes the conclusion which consists of overview of Sidhabali Motors and its future vision.

PITHAMPUR AUTO CLUSTER

126 Kanchan Bagh, Indore (M.P.)

PITHAMPUR AUTO CLUSTER
(A Government of M.P. Undertaking)
(Established under IIUS of Department of Industrial Policy and Promotion, Government of India)

A Training Report

SUBMMITED IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE AWARD OF THE DEGREE OF

BACHELOR OF TECHNOLOGY

(Mechanical Engineering)

SUBMITTED TO

AMITY UNIVERSITY, RAJASTHAN

SUBMITTED BY

ADITYA PANDEY

(A20499819010)

14-06-2021 TO 19-07-2021

AMITY SCHOOL OF ENGINEERING & TECHNOLOGY
AMITY UNIVERSITY, RAJASTHAN

ACKNOWLEDGEMENT

I express my deep sense of gratitude to my guide Mr. Sandeep Modi, line manager of PITHAMPUR AUTO CLUSTER PVT.LTD for his valuable guidance and encouragement in carrying out my internship training.

I wish to express my sincere thanks to my guide Mr. Ashish Nigam, Working Manager of the SHEET METAL SHOP, ODF for permitting to pursue my internship training.

I also extend my thanks to Mr. D.V. Rautela, head of advanced training center & SME center.
Last but not least my thanks to Mr. Ram Dev Patel and all other workers for guiding and providing the knowledge related to machining and manufacturing processes.

Finally I thank all the people who have directly or indirectly help me through the course of my internship training.

Signature of Student

Indo Toolings

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Aditya Pandey student of Mechanical Engineering of Amity University Jaipur, undergone Industrial Training from 14th June 2021 to 19th July 2021.

We found him sincere and hard working, during the tenure of his training with us.

We wish Mr. Aditya Pandey good & prosperous career in his future endeavors.

For Indo Toolings Private Limited,

ASHISH NIGAM
MANAGER HR

Date :- 13/11/2021

CIN : U28931MP2008PTC034503

Indo Toolings Private Limited

Regd. Office & Works : Survey No. 113/2 A, Village Harnia Khedi, A.B. Road, Opposite-Veterinary College, Tehsil-Mhow, Distt. Indore - 453 446 (M.P.) India. Tel.: +91-7324-276824
E-mail : itplindore@yahoo.com, info@indotoolings.com. Website : www.indotoolings.com

CERTIFICATE

I hereby certify that I Aditya Pandey have completed the Six Week Training in partial fulfillment of the requirements for the award of **Bachelor of Technology in Mechanical & Automation Engineering.** I did my training in: Pithampur Auto Cluster, 126 Kanchan Bagh, Indore (M.P.) from 14-06-2021 to 19-07-2021.
From 10-06-19 to 09-07-19.
The matter presented in this Report has not been submitted by me for the award of any other Degree elsewhere.

Signature of Student

Aditya Pandey (A20499819010),

INTERNSHIP AT RENAULT

A REPORT SUBMITTED BY

ADITYA VARDHAN PAREEK (A20499819011)

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

AMITY SCHOOL OF ENGINEERING & TECHNOLOGY

AMITY UNIVERSITY, RAJASTHAN

AMITY SCHOOL OF ENGINEERING & TECHNOLOGY AMITY UNIVERSITY, RAJASTHAN

RENAULT
Passion for life

Certificate of Training Completion

This is to Certify that Mr. **Aditya Vardhan Pareek** From **Amity University Rajasthan (AUR)** Had successfully completed his training at Raunak Renault Workshop (A Unit Of Raunak Dream Developers Pvt. Ltd.) at Bikaner for the Period of 13/06/2021 to 28/07/2021.

We wish him good luck for this career and future assignments.

Quality Manager

Training Coordinator

RENAULT Bikaner
Raunak Dream Developers Pvt. Ltd.
CIN : U70101RJ2011PTC034361
Showroom : Ground Floor, Kishan Bhawan, Near K.U.M., Sriganganagar Road, Bikaner-334001 (Rajasthan)
Workshop : E-59, Near Laxmi POP Factory, Bichhwal Ind. Area, Bikaner-334006 (Rajasthan)

Reg. Office : F-82, Ground Floor, Khajanchi Market, Bikaner-334001 (Rajasthan)
Cont.: +91-9529222222
e-mail : jkrathi9999@gmail.com

Volkswagen Rajdhani

Date: 25/07/2021

TO WHOM IT MAYCONCERN

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Phone : 011-49040555, 56
Email : service.d@vw-liftech.co.in
account.d@vw-liftech.co.in

Registered Office :
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2762, First Floor, Hamilton Road
Mori Gate, Delhi-110006
Land Line : (011) - 23927500

This is certified that **Mr. Ravi Pratap Singh**, a student of Bachelor of Tech. (Mech. Engg.) sem-v. **AMITY University, Jaipur (Rajasthan)** has successfully completed his internship. The candidate has worked under my supervision, during his internship period **(15 June 2021 to 25 July 2021)** he handled "Various Company process and chores" as his project. I am pleased to state that he worked hard in preparing this report and has been able to present a good picture of concerned work. The information and findings presented in the report seems to be authentic.

Mr. Ravi Pratap Singh possesses a good moral character and pleasing personality. I wish him every success in life.

Thanks & Regards

.....

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Volkswagen Rajdhani
Liftech India Pvt. Ltd.

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NAVEEN AUTO GARAGE

A MULTI CAR SERVICE STATION

Date : 28-July-2021

To Whom It May Concern

*This is certified that **Mr. Roshan,** a student of Bachelor of Tech. (Mech Eng.) sem-v. **AMITY University, Jaipur (Rahsthan)** has successfully completed his internship. The candidate has worked under my supervision, during his internship period (15th June 2021to 25th July 2021) he handled "Light Vehicles" as his project. I am pleased to state that he worked on different types of Engines and hence he improved his knowledge and skills on Multi Car Engines.*

Mr. Roshan possesses a good moral character and personality.
I wish him every success in life.

Thanks & Regards
For: Naveen Auto Garage

Proprietor

Dada Hayath Ali M
Manager- Naveen Auto Garage

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INTERNSHIP AT VOLKSWAGEN RAJDHANI

A REPORT

SUBMITTED BY

PARAS JANGID(A20499819006)

in partial fulfilment for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

AMITY SCHOOL OF ENGINEERING & TECHNOLOGY

AMITY UNIVERSITY, RAJASTHAN

Volkswagen Rajdhani

Date: 25/07/2021

TO WHOM IT MAYCONCERN

Volkswagen Raldhanl
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S.69/2, Industrial Area,
Wcmrpvt N- Delhi • 110052
Mob. : 9999746000
Phone : 011-49().40555, 56
Email : MrVice.d@--rrfl«h.co.in
occount.d@--lifl«h.co.in

Registered Office:
Ufl«h Ind.. Pvt.lid.
2762, Fint Floor, Homil!on load
Mori Gate, Oelhi-110006
land Une: [011) • 23927500

This is certified that Mr. Paras Jangid, a student of Bachelor of Tech. (Mech. Engg.) sem-v. AMITY University, Jaipur (Rajasthan) has successfully completed his internship. The candidate has worked under my supervision, during his internship period (15 June 2021 to 25 July 2021) he handled "Various Company process and chores" as his project. I am pleased to state that he worked hard in preparing this report and has been able to present a good picture of concerned work. The information and findings presented in the report seems to be authentic.

Mr. Paras Jangid possesses a good moral character and pleasing personality. I wish him every success in life.

Thanks& Regards

LIFTTECH INDIA PVT. LTD. WAZIRPUR DELHI

.....

Generalist Human Resource

Volkswagen Rajdhanl

liftech India Pvt. ltd.

Volkswagen Rajdhani

Date: 25/07/2021

TO WHOM IT MAYCONCERN

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Liftech India Pvt Ltd.
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Wazirpur New Delhi - 110052
Mob. : 9999746000
Phone : 011-49040555, 56
Email : service.d@vw-liftech.co.in
account.d@vw-liftech.co.in

Registered Office :
Liftech India Pvt.Ltd.
2762, First Floor, Hamilton Road
Mori Gate, Delhi-110006
Land Line : (011) - 23927500

This is certified that **Mr. Shreshth Kumar**, a student of Bachelor of Tech. (Mech. Engg.) sem-v. **AMITY University, Jaipur (Rajasthan)** has successfully completed his internship. The candidate has worked under my supervision, during his internship period **(15 June 2021 to 25 July 2021)** he handled "Various Company process and chores" as his project. I am pleased to state that he worked hard in preparing this report and has been able to present a good picture of concerned work. The information and findings presented in the report seems to be authentic.

Mr. Shreshth Kumar possesses a good moral character and pleasing personality. I wish him every success in life.

Thanks & Regards

.....

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A TRAINING REPORT

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF

BACHELOR OF TECHNOLOGY

(Mechanical & Automation Engineering)

SUBMITTED TO

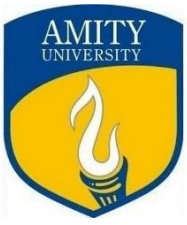
AMITY UNIVERSITY, RAJASTHAN

SUBMITTED BY

DIPIN YADAV

(A20499819008)

01-06-2020 to 30-06-2021



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To,

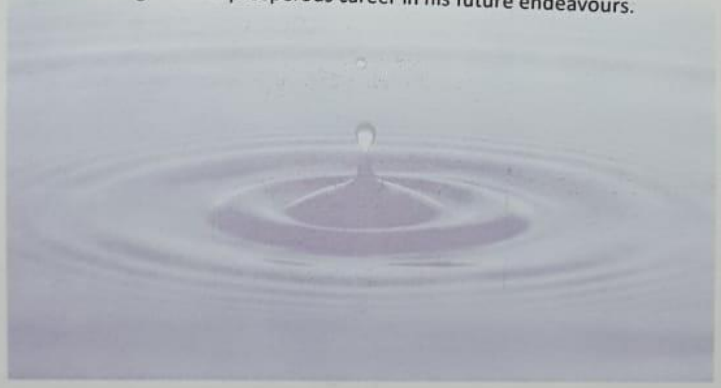
Sr. No.	Items	Qty.	Rate	Amount (Rs.)

TO WHOMSOVER IT MAY CONCERN

This is to Certified that **Mr. Dipin Yadav** Student of Mechanical Engineering of Amity University Jaipur, Undergone Industerial Training from **01/06/2020 to 30/06/2021**.

We Found him sincere and hard working , during the tenure of his training with us.

We wish **Mr. Dipin Yadav** good and prosperous career in his future endeavours.



For M/s ANKIT BORING CO

Proprietor

For : Ankit Boring Co.

SANGAM TEXTILES PRIVATE LIMITED

ATUN,CHITTORGARH ROAD,

BHILWARA,RAJASTHAN,311001

A TRAINING REPORT

SUBMITTED IN PARTIAL FULFILMENT OF

THE REQUIREMENT FOR THE AWARD

OF THE DEGREE OF

BACHELOR OF TECHNOLOGY

(Mechanical & Automation Engineering)

SUBMITTED TO

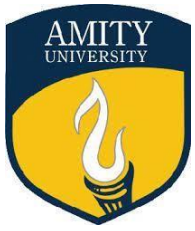
AMITY UNIVERSITY,RAJASTHAN

SUBMITTED BY

AKSHAT CHAUHAN

(A20499819012)

10-06-2021 to 10-07-2021



AMITY SCHOOL OF ENGINEERING & TECHNOLOGY

CERTIFICATE

Value through values

SANGAM (INDIA) LIMITED
(DENIM)
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Fax : 01482-249077
E-mail : bhilwara@sangamgroup.com
CIN : L17118 RJ 1984 PLC 003173

DATE 28-07-2021
PRS/21-22/01

To Whom So Ever It May Concern

This is certified that Mr. Akshat Chauhan, a student of Bachelor of Tech. (Mech. Engg.) **Amity University Rajasthan** has successfully completed his internship. The candidate has worked under my supervision, during his internship period (10-06-2021 to 10-07-2021) he handle "**Maintenance**" as his project. I am pleased to state that he worked hand in preparing his report and has been able to present a good picture of concerned work. The information and findings presented in the report seems to be authentic.

Mr. Akshat Chauhan possesses a good moral character and pleasing personality. I wish him every success in life.

Thanks & Regards

Sanjay Kumar Vyas
GM (H.R. & I.R.)
Sangam (India) Ltd. Unit-Denim

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Date: 27-07-2021.

This is to certify that Mr. GUDISE RAJASHEKAR (E.No: A20499819004. 5th semester, Bachelor of technology, Mechanical Engineering).

Of AMITY UNIVERSITY JAIPUR, RAJASTHAN has successfully completed his INTERSHIP in our WORK SHOP Department under the guidance of Mr. Vankayala Kiran Kumar (GM - service) during the time period 17.06.2021 to 25.07.2021.

He worked on the following projects:-

1. Engine components.

2. Engine Management system.

I am pleased to state that he worked hard in preparing this report and has been able to present a good picture of concerned work. This information and findings presented in the report seems to be authentic.

His conduct during the training period was satisfactory and we wish him all success in future endeavors.

Thanks & Regards

For Venkata Ramana Automobiles

Venkata Ramana Automobiles TATA Khammam