



# Bharath

## INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed-to-be University under section 3 of UGC Act, 1956)  
(Vide Notification No. F.9-5/2000 - U.3, Ministry of Human Resource Development, Govt. of India, dated 4<sup>th</sup> July 2002)

08-07-2019

**Dr. P. Naveenchandran, M.E., Ph.D.,**  
Professor & Head,  
Department of Automobile Engineering,  
Bharath Institute of Higher Education and Research,  
Chennai-73.

To  
R.V. Prasad  
Plant PR Team- Ashok Leyland-Ennore  
Ennore Express Highway,  
Ernavoor, Chennai, Tamil Nadu - 600057

Dear Sir,

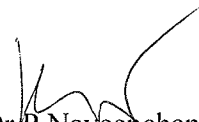
**Sub: Industrial Visit for our Automobile Engineering students – Reg.**

Bharath Institute of Science and Technology of Bharath Institute of Higher Education and Research is one of the leading Academic Institutions for providing engineering education to the students and offers four years B.Tech & Two years M.Tech course on full time basis in the Department of Automobile Engineering.

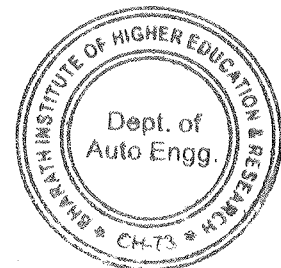
In our curriculum, the industrial visit is a core academic activity for the students to develop their knowledge. The students are very much interested to visit your esteemed organization to update and enrich their knowledge in the recent trends in automotive field.

The students could be sent in two batches for one day for this visit according to your convenience. We would be glad if you could accept our request and inform a suitable date during the 3<sup>rd</sup> week of July 2019. We are looking forward for your positive reply.

Thanking you,

  
(Dr. P. Naveenchandran)

Professor & Head  
Dept. of Automobile Engineering





**ASHOK LEYLAND**

Aapki Jeet. Hamari Jeet.

12.07.2019

From,

R.V. Prasad

Plant PR Team- Ashok Leyland-Ennore

Ennore Express Highway,

Ernavoor, Chennai, Tamil Nadu - 600057

To,

Dr P Naveenchandran,

Professor & Head - Department of Automobile Engineering,

Bharath Institute of Higher Education and Research,

Chennai - 600073.

Dear Sir,

This is with reference to your request letter received regarding permission for Industrial Visit to our plant. We are pleased to inform you that your request has been accepted and the Ennore plant hereby given permission for your students and faculties to visit our plant on **17<sup>th</sup> July 2019 (Wednesday)** for the purpose of learning and handful knowledge about the vehicle assembly section. During your visit we are supposed to teach your students regarding with the assembly section and road test of our plant.

We look forward to meet you on 17<sup>th</sup> July 2019 along with your Faculty Members and Students of your department.

Best Regards,

R.V. Prasad

Plant PR Team- Ashok Leyland-Ennore

**ASHOK LEYLAND LIMITED**

Registered & Corporate Office: No.1, Sardar Patel Road, Guindy, Chennai - 600 032, India | T : +91 44 2220 6000 | F : +91 44 2220  
CIN - L34101TN1948PLC000105 | [www.ashokleyland.com](http://www.ashokleyland.com)



**HINDUJA GROUP**

## **Industrial Visit Report**

We the batch of 80 students started with the learning centre. They explained about their history of the company and the facilities in the Ennore plant. Ashok leyland got the ISO: 9001 certification on 1994 and in 2002 they got the ISO: 14000 certification for environment management system. Ashok leyland supplies the 80% of the vehicle to the Indian army.

During the industrial visit, we have learnt about the axle assembly, frame assembly, chassis assembly, road testing and also explain about the engines. The visit was very much interesting and useful to academics.

### **1. AXLE ASSEMBLY:**

Axles are an integral part of most practical wheeled vehicles. In a live suspension system the axles serve to transmit during torque to the wheel as well as to maintain the position of wheels relative to each other. Rear axle consists of differential unit which is powered by the propeller shaft. Spindle assembly, brake shoe assembly and axle beam loading were also explained.

### **2. CHASSIS ASSEMBLY:**

Chassis assembly consists of following lines such as

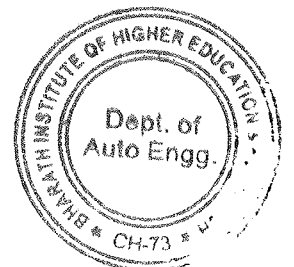
1. LCV (light commercial vehicle) - payload up to 4 tonne
2. ICV (intermediate commercial vehicle) - payload up to 12 tonnes
3. MDV (medium duty vehicle) - payload up to 35 tonnes
4. HDV (heavy duty vehicle) - yload up to 49 tonnes

### **3. FRAME ASSEMBLY:**

A vehicle frame is the main supporting structure of a vehicle to which all the components are attached. It also deals with all the static and dynamic loads of the vehicle without under any deflection and distortion. These include self-weight of the body, passengers, cargo loads, vibrations and twisting moments of mechanical components, ups and downs of roads. There are three lines in the frame assembly. The process are laying down the frame and assemble the axle fitting ,air piping, engine mounting, propeller shaft fitting, fuel tank mounting ,radiator fitting ,cab mounting, tire and bumper fitting.

**Student Name list attended Industrial Visit in Ashok Leyland Ennore on 17.07.2019**

| S.No | Registration Number | Name of the Student            |
|------|---------------------|--------------------------------|
| 1    | U18AM001            | SETHURAMANV                    |
| 2    | U18AM002            | PUCHAKAYALA SAI TEJA           |
| 3    | U18AM003            | DINESH BALAJI R                |
| 4    | U18AM005            | DULAM YESWANTH REDDY           |
| 5    | U18AM006            | CHANDRUJ                       |
| 6    | U18AM007            | ADDURISAI AKHIL                |
| 7    | U18AM008            | NARAYANAMKRISHNA SAI           |
| 8    | U18AM009            | JANJANAM U'TTEJ                |
| 9    | U18AM010            | AVINASH R PATEL                |
| 10   | U18AM011            | GANESH U                       |
| 11   | U18AM012            | REDDYDINESH                    |
| 12   | U18AM013            | NAGISETTYVINAY PRASAD          |
| 13   | U18AM014            | VELALA D N VSYAM PRASAD        |
| 14   | U18AM015            | DHIVAKARANB                    |
| 15   | U18AM016            | SYAMALACHAITANYA KRISHNA REDDY |
| 16   | U18AM017            | JUNNURI BALA RANGAYYA NAIDU    |
| 17   | U18AM019            | POTHURAJU NITHIN               |
| 18   | U18AM020            | SUDHARSANS                     |
| 19   | U18AM021            | THAMIZH SHAJI G.J              |
| 20   | U18AM023            | SHAIK KHASIM                   |
| 21   | U18AM024            | VIGNESH G                      |
| 22   | U18AM025            | MULADHAMODHAR REDDY            |
| 23   | U18AM026            | MOGHAL RAHEL BAIG              |
| 24   | U18AM027            | BANDARUPALLINAVEENCHOWDARY     |
| 25   | U18AM028            | ANUMULASANTHOSH REDDY          |
| 26   | U18AM029            | DHILIPSAGARM                   |
| 27   | U18AM031            | POLLAMPALLI BHANU PRAKASH      |
| 28   | U18AM032            | KOLLINIRANJAN                  |
| 29   | U18AM034            | LALCHHUANAWMA                  |
| 30   | U18AM035            | VIDUDHALA GURU VAMSI           |
| 31   | U18AM036            | SREENUVASADAPUREDDI            |



|    |          |                             |
|----|----------|-----------------------------|
| 65 | U17AM037 | PRATHWINR S                 |
| 66 | U17AM038 | TOVISHEZHIMO                |
| 67 | U17AM039 | LEO VASANTH                 |
| 68 | U17AM040 | DHANALAKOTA DAVI PHANINDRA. |
| 69 | U17AM042 | VIMALRAJAS                  |
| 70 | U17AM043 | AROKIA PRADEEPP             |
| 71 | U17AM044 | INUKONDA CHARANSRI          |
| 72 | U17AM045 | KAVINADHITHYAK B            |
| 73 | U17AM046 | VETRIVELP                   |
| 74 | U17AM047 | MANISH P MUTREJA            |
| 75 | U17AM048 | HARIHARAN S                 |
| 76 | U17AM701 | JABANESHSG                  |
| 77 | U17AM702 | LAWANBHA GYMPAD.            |
| 78 | U17AM703 | NEIKHOZO KHAMO.             |
| 79 | U17AM704 | SINGIREDDY HARSHITH REDDY.  |
| 80 | U17AM705 | STEVE CASTONECHYNE          |

  
Head of the Department

(Dr. P. Naveenchandran)

