

# **LEAD ACID BATTERIES**

A Project work submitted in partial fulfillment of the requirements of  
the degree of

**Bachelor of Science in Physics**

To the

**Periyar University, Salem – 11**

by

**AMRUTHAVARSHINI.K**

**REG.NO : C21UG152PHY001**

Under the guidance of

**T.S.PREMNATH**



**ST JOSEPH'S COLLEGE OF ARTS & SCIENCE FOR  
WOMEN**

**(AFFILIATED TO PERIYAR UNIVERSITY)**

**MOOKANDAPALLI, HOSUR – 635126**

**JUNE- 2023**

REF : EIL/HR/2023/PC-109  
Date : 03.07.2023

### CERTIFICATE

This is to Certify that **Ms. Amruthavarshini (Reg No. C21UG152PHY001), B.Sc Physics Student of St. Joseph's College of Arts and Science for Women, Hosur** has successfully undergone Internship at our Factory from 15.06.2023 to 30.06.2023.

During her Internship, she has evinced keen interest and her conduct and character were satisfactory.

We wish her all the success in her future endeavours.

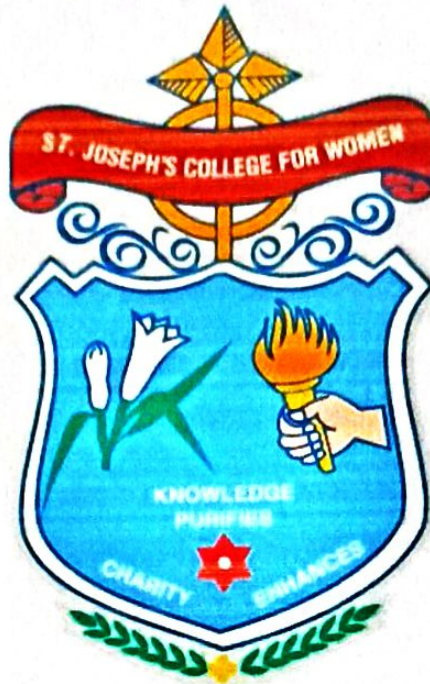
For Exide Industries Limited.



**C. Rajan**  
Head – Plant HR



ST.JOSEPH'S COLLEGE OF ARTS AND SCIENCE FOR WOMEN  
Mookandapalli, Hosur - 635126  
(Affiliated To Periyar University)




CERTIFICATE

This is to certify that the Internship entitled  
**LEAD ACID BATTERIES**  
is a bonafide work done by  
**AMRUTHAVARSHINI.K**  
**REG.NO : C21UG152PHY001**

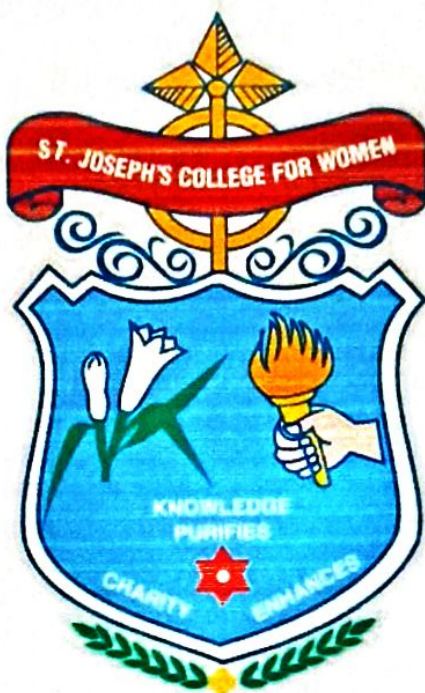
In partial fulfillment of the requirement for the degree of Bachelor of Science  
in Physics affiliated to Periyar University Salem 11, during the year 2022 -  
2023

  
INTERNAL GUIDE



  
HEAD OF THE DEPARTMENT  
MRS.T.SIVAPRIYA(M.Sc,M.phil,B.Ed)  
Hod. Dept.of Physics  
St.Joseph's College of  
Arts & Science for Women  
Sipcot, HOSUR-635 126.

ST.JOSEPH'S COLLEGE OF ARTS AND SCIENCE FOR WOMEN  
Mookandapalli, Hosur - 635126  
(Affiliated To Periyar University)



**CERTIFICATE**

This is to certify that the Internship entitled  
**LEAD ACID BATTERIES**  
is a bonafide work done by  
**ASHIKA.A.S**  
**REG.NO : C21UG152PHY002**

In partial fulfillment of the requirement for the degree of Bachelor of Science  
in Physics affiliated to Periyar University Salem 11, during the year 2022 -  
2023

INTERNAL GUIDE



*T. Sivapriya*  
**HEAD OF THE DEPARTMENT**  
**MRS.T.SIVAPRIYA(M.Sc,M.phil,B.Ed)**

Head and Assistant Professor  
Department of Physics  
St. Joseph's College of Arts and Science for Women  
SIPCOT, Hosur - 635 126.



REF : EIL/HR/2023/PC-110

Date : 03.07.2023

**CERTIFICATE**

This is to Certify that **Ms. Ashika.A.S (Reg No. C21UG152PHY002), B.Sc Physics** Student of **St. Joseph's College of Arts and Science for Women, Hosur** has successfully undergone Internship at our Factory from 15.06.2023 to 30.06.2023.

During her Internship, she has evinced keen interest and her conduct and character were satisfactory.

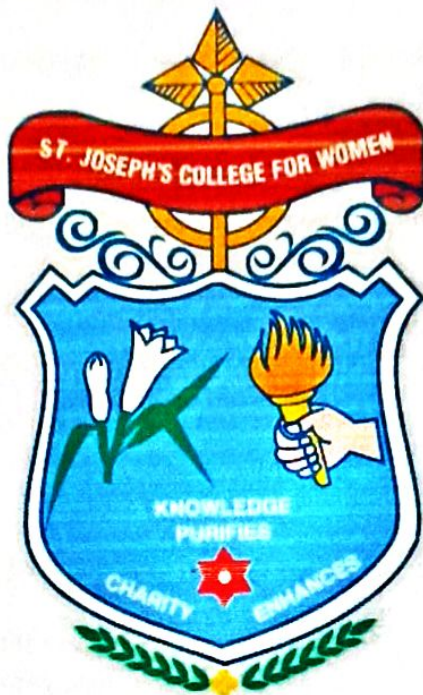
We wish her all the success in her future endeavours.

For Exide Industries Limited.



**C. Rajan**  
Head – Plant HR

ST.JOSEPH'S COLLEGE OF ARTS AND SCIENCE FOR WOMEN  
Mookandapalli, Hosur - 635126  
(Affiliated To Periyar University)



CERTIFICATE

This is to certify that the Internship entitled  
**LEAD ACID BATTERIES**  
is a bonafide work done by  
**ASHIKA.A.S**  
**REG.NO : C21UG152PHY002**


In partial fulfillment of the requirement for the degree of Bachelor of Science  
in Physics affiliated to Periyar University Salem 11, during the year 2022 -  
2023

INTERNAL GUIDE



HEAD OF THE DEPARTMENT  
MRS.T.SIVAPRIYA(M.Sc,M.phil,B.Ed)  
Head and Assistant Professor  
Department of Physics  
St. Joseph's College of Arts and Science for Women  
SIPCOT, Hosur - 635 126.

The Internship report was submitted for the viva-voce examination held on  
14/11/2023 at St.Joseph's college of Arts & Science for women, hosur.

  
Internal examiner

External examiner



# **LEAD ACID BATTERIES**

A Project work submitted in partial fulfillment of the requirements of  
the degree of

**Bachelor of Science in Physics**

To the

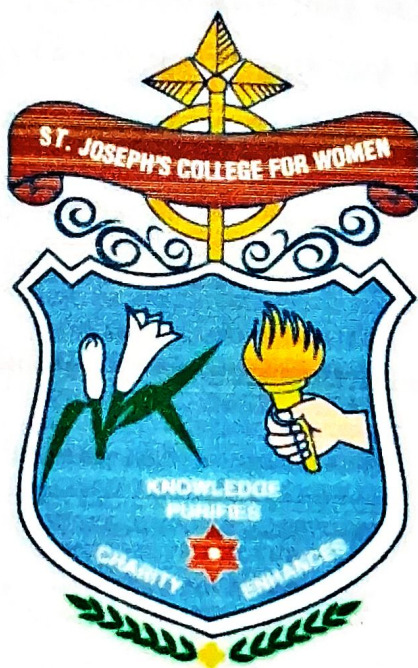
Periyar University, Salem – 11

by

**KIRUTHIKA.A**

**REG.NO : C21UG152PHY004**

Under the guidance of  
**T.S.PREMNATH**



**ST JOSEPH'S COLLEGE OF ARTS & SCIENCE FOR  
WOMEN**

**(AFFILIATED TO PERIYAR UNIVERSITY)  
MOOKANDAPALLI, HOSUR – 635126  
JUNE- 2023**

REF : EIL/HR/2023/PC-111  
Date : 03.07.2023

**CERTIFICATE**

This is to Certify that **Ms. Kiruthika.A (Reg No. C21UG152PHY004), B.Sc Physics** Student of **St. Joseph's College of Arts and Science for Women, Hosur** has successfully undergone Internship at our Factory from 15.06.2023 to 30.06.2023.

During her Internship, she has evinced keen interest and her conduct and character were satisfactory.

We wish her all the success in her future endeavours.

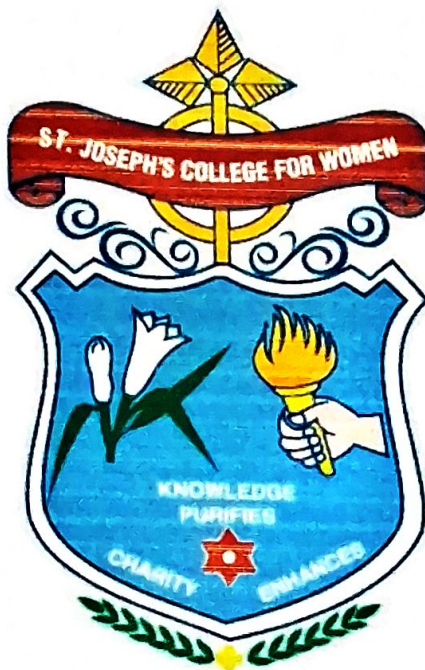
For Exide Industries Limited.



**C. Rajan**  
Head – Plant HR



ST.JOSEPH'S COLLEGE OF ARTS AND SCIENCE FOR WOMEN  
Mookandapalli, Hosur - 635126  
(Affiliated To Periyar University)

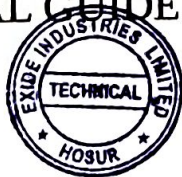


CERTIFICATE

This is to certify that the Internship entitled  
**LEAD ACID BATTERIES**  
is a bonafide work done by  
**KIRUTHIKA.A**  
**REG.NO : C21UG152PHY004**

In partial fulfillment of the requirement for the degree of Bachelor of Science  
in Physics affiliated to Periyar University Salem 11, during the year 2022 -  
2023

INTERNAL GUIDE



T. Sivapriya  
HEAD OF THE DEPARTMENT  
MRS.T.SIVAPRIYA(M.Sc,M.phil,B.Ed)

Head and Assistant Professor  
Department of Physics  
St. Joseph's College of Arts and Science for Women  
SIPCOT, Hosur - 635 126.

# **LEAD ACID BATTERIES**

A Project work submitted in partial fulfillment of the requirements of  
the degree of

**Bachelor of Science in Physics**

To the

Periyar University, Salem – 11

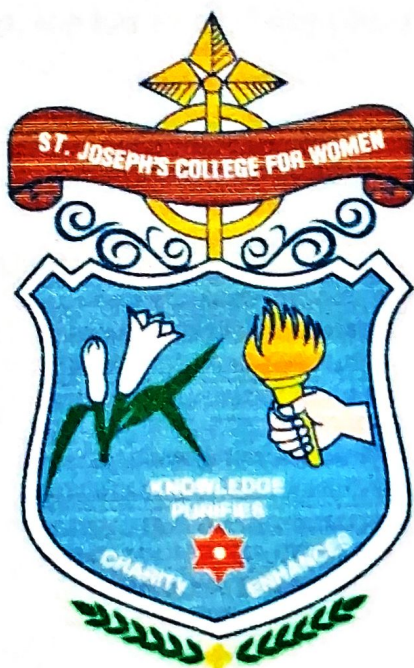
by

**MEGHA.R**

**REG.NO : C21UG152PHY005**

Under the guidance of

**T.S.PREMNATH**



**ST JOSEPH'S COLLEGE OF ARTS & SCIENCE FOR  
WOMEN**

**(AFFILIATED TO PERIYAR UNIVERSITY)  
MOOKANDAPALLI, HOSUR – 635126  
JUNE- 2023**



REF : EIL/HR/2023/PC-112

Date : 03.07.2023

**CERTIFICATE**

This is to Certify that **Ms. Megha. R (Reg No. C21UG152PHY005), B.Sc Physics** Student of **St. Joseph's College of Arts and Science for Women, Hosur** has successfully undergone Internship at our Factory from 15.06.2023 to 30.06.2023.

During her Internship, she has evinced keen interest and her conduct and character were satisfactory.

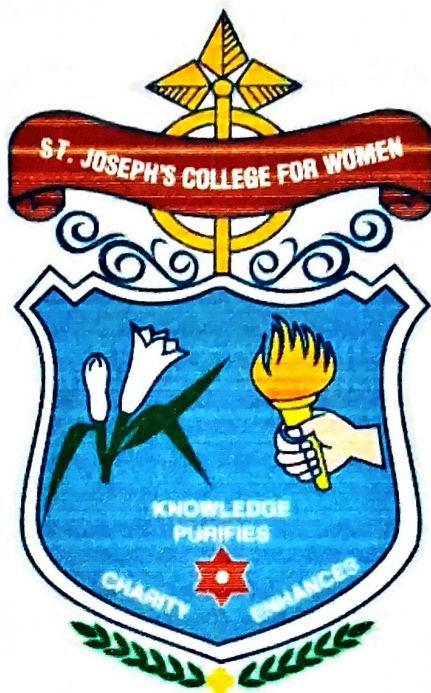
We wish her all the success in her future endeavours.

For Exide Industries Limited.



**C. Rajan**  
Head – Plant HR

ST.JOSEPH'S COLLEGE OF ARTS AND SCIENCE FOR WOMEN  
Mookandapalli, Hosur - 635126  
(Affiliated To Periyar University)



CERTIFICATE

This is to certify that the Internship entitled  
**LEAD ACID BATTERIES**  
is a bonafide work done by  
**MEGHA.R**  
**REG.NO : C21UG152PHY005**

In partial fulfillment of the requirement for the degree of Bachelor of Science  
in Physics affiliated to Periyar University Salem 11, during the year 2022 -  
2023

INTERNAL GUIDE



HEAD OF THE DEPARTMENT  
MRS.T.SIVAPRIYA(M.Sc,M.phil,B.Ed)

Head and Assistant Professor  
Department of Physics  
St. Joseph's College of Arts and Science for Women  
SIPCOT, Hosur - 635 126.