



# SRI BHARATHI

ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)  
Kaikkurichi, Pudukkottai -622 303

[www.sbec.edu.in](http://www.sbec.edu.in)

## NAAC DOCUMENTS



Quality Indicator Frame Work

Criterion – 2

Teaching-Learning and Evaluation

Submitted by

**IQAC**

**Internal Quality Assurance Cell**

**Sri Bharathi Engineering College for Women**



**Criteria 2**

**Teaching-Learning and Evaluation**

**350**

**Key Indicator- 2.3. Teaching- Learning Process (40)**

**2022-2023**

**EXPERIENTIAL LEARNING  
CIVIL ENGINEERING**

<b>Activity</b>	<b>Number of Students Attended</b>	<b>Page No.</b>
<b>Internship</b>	<b>24</b>	<b>3</b>
<b>Project</b>	<b>10</b>	<b>34</b>
<b>Laboratory</b>	<b>14</b>	<b>43</b>
<b>Industrial Visit</b>	<b>17</b>	<b>49</b>
<b>TOTAL STUDENTS ATTENDED</b>	<b>65</b>	<b>-</b>



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

**Criteria 2**

**Teaching-Learning and Evaluation**

**350**

**Key Indicator- 2.3. Teaching- Learning Process (40)**

**2022-2023**

**CIVIL ENGINEERING**

**EXPERIENTIAL LEARNING**

**INTERNSHIP**





## SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

### DEPARTMENT OF CIVIL ENGINEERING

Experiential learning(Project,In-Plant Training,Industrial visit,Local visit)

Academic year 2022-2023

S.NO	REGISTER NO	NAME	YEAR/SEM	NAME OF THE LEARNING METHOD
1	912621103003	Jayabharathi.R	II/IV	EXPERIENTIAL LEARNING INTERNSHIP- Shabee Constructions, Pudukkottai
	912621103004	Jaya Manohari.B		
	912621103301	Jenifar.A		
	912621103302	Kalaiarasi.G		
2	912621103001	Akila.G	II/IV	EXPERIENTIAL LEARNING INTERNSHIP- Kamaal construction, Aranthangi
	912621103005	Priyadharshini.A		
	912621103006	Rabia Banu.M		
	912621103007	Sherlin Kavya.B		
3	912620103001	Aswini.T	III/VI	EXPERIENTIAL LEARNING INTERNSHIP- Water Resources Department, Viralimalai
	912620103002	Geetha.M		
	912620103003	Keerthi.S		
	912620103004	Subathra.S		
	912620103301	Bhavani.S		
	912620103302	Megala.V		
4	912619103001	Ajitha T	IV/VII	EXPERIENTIAL LEARNING INTERNSHIP- Shabee Constructions, Pudukkottai
	912619103003	Divya V		
	912619103004	Mangaiyarkarasi G		
	912619103006	Praveena S		
	912619103301	Lilly John J		
	912619103302	Bhuvani S		
5	912619103002	Aruljenifar C	IV/VII	EXPERIENTIAL LEARNING INTERNSHIP- PMP Consultants, Trichy
	912619103005	Muthulakshmi S		
	912619103007	Priyadharshini K		
	912619103009	Ragavi V		

  
Dr. S.THILAGAVATHI M.E.,Ph.D.,  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurichi - 622 303, Pudukkottai Dt.

HOD / CIVIL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
KAIKKURICHI,  
PUDUKKOTTAI - 622 303

  
HoD/Civil





# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

Pudukkottai - Aranthangi Road,  
Kaikkurichi, Pudukkottai - 622 303.

Date : 16.06.2023

## BONAFIDE CERTIFICATE

This is to certify that the following students are bonafide students of this college studying IV semester of Second year B.E/ Civil Engineering during this academic year 2022-2023 (Even Semester).

S.NO	REG.NO	NAME OF THE STUDENT
1.	912621103003	JAYABHARATHI.R
2.	912621103004	JAYA MANOHARI.B
3.	912621103301	JENIFAR.A
4.	912621103302	KALAIARASI.G

This certificate is issued only for the purpose of attending **INPLANT TRAINING** in **SHABEE CONSTRUCTION., PUDUKKOTTAL.**

Dr. **S.THILAGAVATHI** M.E., Ph.D.,  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurichi - 622 303, Pudukkottai Dt.

PRINCIPAL

PRINCIPAL 16/06/23  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
KAIKKURICHI - 622 303.  
PUDUKKOTTAI DISTRICT





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Pudukkottai - Aranthangi Road,  
Kaikkurichi, Pudukkottai - 622 303.

Date : 16.06.2023

## BONAFIDE CERTIFICATE

This is to certify that the following students are bonafide students of this college studying IV semester of Second year B.E/ Civil Engineering during this academic year 2022-2023(Even Semester).

S.NO	REG.NO	NAME OF THE STUDENT
1.	912621103001	AKILA.G
2.	912621103005	PRIYADHARSHINI.A
3.	912621103006	RABIA BANU.M
4.	912621103007	SHERLIN KAVYA.B

This certificate is issued only for the purpose of attending **INPLANT TRAINING** in **KAMAAL CONSTRUCTION, ARANTHANGI**

Dr. **S.THILAGAVATHI M.E., Ph.D.**,  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurichi - 622 303, Pudukkottai Dt.

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PUDUKKOTTAI DISTRICT





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(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

Pudukkottai - Aranthangi Road,  
Kaikkurichi, Pudukkottai - 622 303.

Date : 04/01/23.....


## BONAFIDE CERTIFICATE

This is to certify that the following students are bonafide students of this college studying VI semester of Third year B.E/ Civil Engineering during this academic year 2022-2023 (Even Semester).

S.NO	REG.NO	NAME OF THE STUDENT
1.	912620103001	ASWINI.T
2.	912620103002	GEETHA.M
3.	912620103003	KEERTHI.S
4.	912620103004	SUBATHRA.S
5.	912620103301	BHAVANI.S
6.	912620103302	MEGALA.V

This certificate is issued only for the purpose of attending **INPLANT TRAINING** in  
**WATER RESOURCES DEPARTMENT, VIRALIMALAI**

  
Dr. S. THILAGAVATHI M.E., Ph.D.,  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurichi - 622 303, Pudukkottai Dt.

  
PRINCIPAL  
PRINCIPAL 04/01/23  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
KAIKKURICHI - 622 303.  
PUDUKKOTTAI DISTRICT





# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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Pudukkottai - Aranthangi Road,  
Kaikkurichi, Pudukkottai - 622 303.

Date : 08/07/22

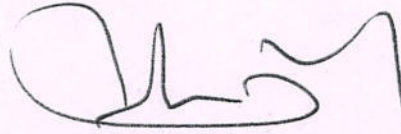
## BONAFIDE CERTIFICATE

This is to certify that the following students are bonafide students of this college studying VII semester of Final year B.E/ Civil Engineering during this academic year 2022-2023(Odd Semester).

S.NO	REG.NO	NAME OF THE STUDENT
1.	912619103001	AJITHA T
2.	912619103003	DIVYA V
3.	912619103004	MANGAIYARKARASI G
4.	912619103006	PRAVEENA S
5.	912619103301	LILLY JOHN J
6.	912619103302	BHUVANI S

This certificate is issued only for the purpose of attending **INPLANT TRAINING** in **SHABEE CONSTRUCTIONS, PUDUKKOTTAL.**

  
Dr. **S. THILAGAVATHI M.E., Ph.D.,**  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurichi - 622 303, Pudukkottai Dt.

  
PRINCIPAL  
PRINCIPAL 08/07/22  
SRI BHARATHI ENGINEERING  
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Pudukkottai - Aranthangi Road,

**Kaikkurichi, Pudukkottai - 622 303.**

Date : 08/07/2022

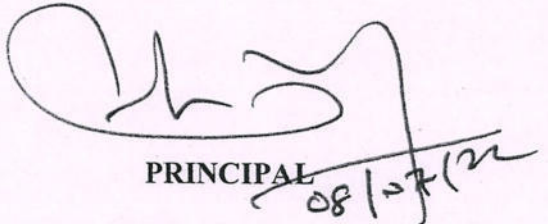
## BONAFIDE CERTIFICATE

This is to certify that the following students are bonafide students of this college studying VII semester of Final year B.E/ Civil Engineering during this academic year 2022-2023(Odd Semester).

S.NO	REG.NO	NAME OF THE STUDENT
1.	912619103002	ARULJENIFAR C
2.	912619103005	MUTHULAKSHMI S
3.	912619103007	PRIYADHARSHINI K
4.	912619103009	RAGAVI V

This certificate is issued only for the purpose of attending **INPLANT TRAINING** in **PMP CONSULTANTS, TRICHY.**

  
Dr. **S.THILAGAVATHI** M.E., Ph.D.,  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurichi - 622 303, Pudukkottai Dt.

  
PRINCIPAL  
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SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
KAIKKURICHI - 622 303.  
PUDUKKOTTAI DISTRICT





Er. K. BASHEER MOHAMED, B.E, M.Sc.(REV), FIV.  
98424 61166

- Engineers • Architects
- Licensed Building surveyors
- Consultants • Contractors
- Building Promoters • Value

01.07.2023

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.R.JAYABHARATHI**, studying B.E civil Engineering in Sri Bharathi Engineering College For Women, Kaikurichi, Pudukkottai has undergone **In-plant Training** in our concern from the date of **19.06.2023 – 30.06.2023**.

During this training period, she learned the construction of brick work, centering and shuttering, placing of concreting, plastering and bar bending of various members in the buildings. Her performance and commitment towards the work were found to be good.

  
**Dr. S. THILAGAVATHI M.E., Ph.D.,**  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurichi - 622 303, Pudukkottai Dt.

  
Signature

**Er. K. BASHEER MOHAMED, B.E, M.Sc.(REV), FIV.,**  
**SHABEE CONSTRUCTION**  
Registered Engineer RE-109/LS/2019/00007  
Shop No.12, KP Super Complex,  
T.S.No. 4128, South 3rd Street,  
PUDUKKOTTAI - 622 001.  
shabeecons@gmail.com Cell : 98424 61166

**SHABEE CONSTRUCTION**

Shop #12, KP Super Complex, TS No: 4128, South 3<sup>rd</sup> Street, Near Supreme Cycles, Pudukkottai-1  
Mobile: 98424 61166, 98428 77722, Office: 73737 16168





Er. K. BASHEER MOHAMED, B.E, M.Sc.(REV), FIV.  
98424 61166

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- Licensed Building survey
- Consultants • Contractors
- Building Promoters • Valu

01.07.2023

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms.B.JAYA MANOHARI**, studying B.E civil Engineering in Sri Bharathi Engineering College For Women, Kaikurichi, Pudukkottai has undergone **In-plant Training** in our concern from the date of **19.06.2023 – 30.06.2023**.

During this training period, she learned the construction of brick work, centering and shuttering, placing of concreting, plastering and bar bending of various members in the buildings. Her performance and commitment towards the work were found to be good.

**Dr. S.THILAGAVATHI** M.E.,Ph.D.,  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurchi - 622 303, Pudukkottai Dt.

Signature

**Er. K.BASHEER MOHAMED, B.E.M.Sc(REV), FIV.,**  
**SHABEE CONSTRUCTION**  
Registered Engineer RE-109/LS/2019/00007  
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• Licensed Building surveyors  
• Consultants • Contractors  
• Building Promoters • Value

01.07.2023

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms.A.JENIFAR**, studying B.E civil Engineering in Sri Bharathi Engineering College For Women, Kaikurichi, Pudukkottai has undergone **In-plant Training** in our concern from the date of **19.06.2023 – 30.06.2023**.

During this training period, she learned the construction of brick work, centering and shuttering, placing of concreting, plastering and bar bending of various members in the buildings. Her performance and commitment towards the work were found to be good.

**Dr. S. THILAGAVATHI** M.E., Ph.D.,  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurichi - 622 303, Pudukkottai Dt.

Signature

**Er. K. BASHEER MOHAMED, B.E, M.Sc.(REV), FIV.,**  
**SHABEE CONSTRUCTION**  
Registered Engineer RE-106/LS/2019/00007  
 Shop No.12, KP Super Complex,  
T.S.No. 4128, South 3rd Street,  
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shabeecons@gmail.com Cell : 98424 61166

**SHABEE CONSTRUCTION**

Shop #12, KP Super Complex, TS No: 4128, South 3<sup>rd</sup> Street, Near Supreme Cycles, Pudukkottai-1  
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98424 61166

• Engineers • Architects  
• Licensed Building surveyors  
• Consultants • Contractors  
• Building Promoters • Value

01.07.2023

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms.G.KALAIARASI**, studying B.E civil Engineering in Sri Bharathi Engineering College For Women, Kaikurichi, Pudukkottai has undergone **In-plant Training** in our concern from the date of **19.06.2023 – 30.06.2023**.

During this training period, she learned the construction of brick work, centering and shuttering, placing of concreting, plastering and bar bending of various members in the buildings. Her performance and commitment towards the work were found to be good.

**Dr. S. THILAGAVATHI M.E., Ph.D.,**  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurchi - 622 303, Pudukkottai Dt.

Signature

**Er. K. BASHEER MOHAMED, B.E, M.Sc.(REV), FIV.,**  
**SHABEE CONSTRUCTION**  
Registered Engineer RE-109/LS/2019/00007  
Shop No.12, KP Super Complex,  
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Mobile: 98424 61166, 98428 77722, Office: 73737 16168





Er.S.Rawuther Appa B.E.,  
Licensed Building Surveyor

+91 90039 99378

# Kamaal Construction

Good quality Good Service

## CERTIFICATE

### TO WHOMSOEVER IT MAY CONCERN

This is to Certify that Ms. Akila.G a student of II year, B.E (Civil Engineering), **SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**, Pudukkottai, has successfully completed Inplant Training Programme from 19.06.2023-30.06.2023 at this **KAMAAL CONSTRUCTION**, Aranthangi. During the period of her internship programme with us she was found punctual, hardworking and inquisitive.

We wish her every success in life.

Signature of Authorized Engineer

**KAMAAL CONSTRUCTION**  
No.24/4, Atthipa Complex,  
Barathidhasan Street,  
Aranthangi - 614616  
Cell : 9003999378

**Dr. S.THILAGAVATHI M.E., Ph.D.,**  
PRINCIPAL  
**SRI BHARATHI ENGINEERING**  
**COLLEGE FOR WOMEN**  
Kaikkurchi - 622 303, Pudukkottai Dt.





Er.S.Rawuther Appa B.E.,  
Licensed Building Surveyor

+91 90039 99378

# Kamaal Construction

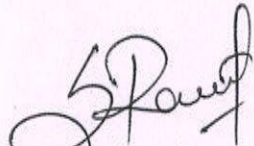
Good quality Good Service

## CERTIFICATE

### TO WHOMSOEVER IT MAY CONCERN

This is to Certify that Ms. Priyadharshini.A a student of II year, B.E (Civil Engineering), SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN, Pudukkottai, has successfully completed Inplant Training Programme from 19.06.2023-30.06.2023 at this KAMAAL CONSTRUCTION, Aranthangi. During the period of her internship programme with us she was found punctual, hardworking and inquisitive.

We wish her every success in life.

  
Signature of Authorized Engineer

**KAMAAL CONSTRUCTION**  
No.24/4, Atthipa Complex,  
Barathidhasan Street,  
Aranthangi - 614616  
Cell : 9003999378

  
Dr. **S.THILAGAVATHI M.E., Ph.D.,**  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurchi - 622 303, Pudukkottai Dt.





Er.S.Rawther Appa B.E.,  
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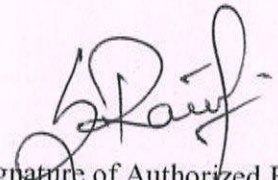
Good quality Good Service

## CERTIFICATE

### TO WHOMSOEVER IT MAY CONCERN

This is to Certify that Ms. Rabia Banu.M a student of II year, B.E (Civil Engineering), SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN, Pudukkottai, has successfully completed Inplant Training Programme from 19.06.2023-30.06.2023 at this KAMAAL CONSTRUCTION, Aranthangi. During the period of her internship programme with us she was found punctual, hardworking and inquisitive.

We wish her every success in life.

  
Signature of Authorized Engineer

**KAMAAL CONSTRUCTION:**  
No.24/4, Atthipa Complex,  
Barathidhasan Street,  
Aranthangi - 614616  
Cell : 9003999378

  
Dr. S.THILAGAVATHI M.E., Ph.D.,  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurchi - 622 303, Pudukkottai Dt.





Er.S.Rawuther Appa B.E.,  
Licensed Building Surveyor

+91 90039 99378

# Kamaal Construction

Good quality Good Service

## CERTIFICATE

### TO WHOMSOEVER IT MAY CONCERN

This is to Certify that Ms. Sherlin Kavva.B a student of II year, B.E (Civil Engineering), **SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**, Pudukkottai, has successfully completed Inplant Training Programme from 19.06.2023-30.06.2023 at this **KAMAAL CONSTRUCTION**, Aranthangi. During the period of her internship programme with us she was found punctual, hardworking and inquisitive.

We wish her every success in life.

Dr. **S.THILAGAVATHI M.E., Ph.D.**,  
PRINCIPAL  
**SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN**  
Kaikkurchi - 622 303, Pudukkottai Dt.

Signature of Authorized Engineer  
**KAMAAL CONSTRUCTION**  
No.24/4, Atthipa Complex,  
Barathidhasan Street,  
Aranthangi - 614616  
Cell : 9003999378





## WATER RESOURCES DEPARTMENT

Office of the  
Assistant Executive Engineer,  
Special Project Sub-division,  
Viralimalai.

### INTERNSHIP TRAINING CERTIFICATE

This is Certify that Selvi.T.ASWINI (Reg No. 912620103001) Third Year B.E Civil Engineering of SRI BHARATHI ENGINEERING College for women, Pudukkottai has Participated in the **INTERNSHIP TRAINING PROGRAMME** from **06 th January to 31 January 2023** (Except Holidays from 15.01.2023 to 17.01.2023 & 26.01.2023) and attended the Activities of Ongoing Cauvery –Vaigai –Gundar Link Canal Project Work of Trichy and Pudukkottai Districts.

I Wish for all Success

STATION : Viralimali

DATE: 01.02.2023

(Er.G. UMASHANKAR, M.E., M.B.A.,)

Assistant Executive Engineer, WRD,

Special Project Sub-division,

Viralimali.

**Dr. S. THILAGAVATHI M.E., Ph.D.,**  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurchi - 622 303, Pudukkottai Dt.





## WATER RESOURCES DEPARTMENT

Office of the  
Assistant Executive Engineer,  
Special Project Sub-division,  
Viralimalai.

### **INTERNSHIP TRAINING CERTIFICATE**

This is Certify that **Selvi.M.GEETHA** (Reg No. 912620103002) Third Year B.E Civil Engineering of **SRI BHARATHI ENGINEERING** College for women, Pudukkottai has Participated in the **INTERNSHIP TRAINING PROGRAMME** from **06 th January to 31 January 2023 (Except Holidays from 15.01.2023 to 17.01.2023 & 26.01.2023)** and attended the Activities of Ongoing Cauvery –Vaigai –Gundar Link Canal Project Work of Trichy and Pudukkottai Districts.

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Assistant Executive Engineer, WRD,

Special Project Sub-division,

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**Dr. S. THILAGAVATHI M.E., Ph.D.,**  
PRINCIPAL  
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**COLLEGE FOR WOMEN**  
Kaikkurchi - 622 303, Pudukkottai Dt.





## WATER RESOURCES DEPARTMENT

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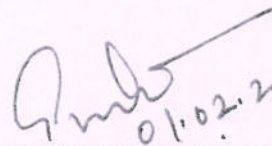
### **INTERNSHIP TRAINING CERTIFICATE**

This is Certify that **Selvi.S.KEERTHI** (Reg No. 912620103003) Third Year B.E Civil Engineering of **SRI BHARATHI ENGINEERING** College for women, Pudukkottai has Participated in the **INTERNSHIP TRAINING PROGRAMME** from **06 th January to 31 January 2023** (Except Holidays from 15.01.2023 to 17.01.2023 & 26.01.2023) and attended the Activities of Ongoing Cauvery –Vaigai –Gundar Link Canal Project Work of Trichy and Pudukkottai Districts.

I Wish for all Success

STATION : Viralimali

DATE: 01.02.2023

  
01.02.2023

(Er.G. UMASHANKAR, M.E., M.B.A.,)

Assistant Executive Engineer, WRD,

Special Project Sub-division,

Viralimali.



**Dr. S. THILAGAVATHI M.E., Ph.D.,**

**PRINCIPAL**

**SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN**

**Kaikkurchi - 622 303, Pudukkottai Dt.**





## WATER RESOURCES DEPARTMENT

Office of the  
Assistant Executive Engineer,  
Special Project Sub-division,  
Viralimalai.

### **INTERNSHIP TRAINING CERTIFICATE**

This is Certify that **Selvi.S.SUBATHRA** (Reg No. 912620103004) Third Year B.E Civil Engineering of **SRI BHARATHI ENGINEERING** College for women, Pudukkottai has Participated in the **INTERNSHIP TRAINING PROGRAMME** from **06 th January to 31 January 2023** (Except Holidays from 15.01.2023 to 17.01.2023 & 26.01.2023) and attended the Activities of Ongoing Cauvery -Vaigai -Gundar Link Canal Project Work of Trichy and Pudukkottai Districts.

I Wish for all Success

STATION : Viralimali

DATE: 01.02.2023

  
(Er.G. UMASHANKAR, M.E., M.B.A.)

Assistant Executive Engineer, WRD,

Special Project Sub-division,

Viralimali.

  
**Dr. S.THILAGAVATHI M.E., Ph.D.,**  
PRINCIPAL  
**SRI BHARATHI ENGINEERING**  
**COLLEGE FOR WOMEN**  
Kaikkurchi - 622 303, Pudukkottai Dt.





## WATER RESOURCES DEPARTMENT

Office of the  
Assistant Executive Engineer,  
Special Project Sub-division,  
Viralimalai.

### **INTERNSHIP TRAINING CERTIFICATE**

This is Certify that **Selvi.S.BHAVANI** (Reg No. 912620103301) Third Year B.E Civil Engineering of **SRI BHARATHI ENGINEERING** College for women, Pudukkottai has Participated in the **INTERNSHIP TRAINING PROGRAMME** from **06 th January to 31 January 2023 (Except Holidays from 15.01.2023 to 17.01.2023 & 26.01.2023)** and attended the Activities of Ongoing Cauvery –Vaigai –Gundar Link Canal Project Work of Trichy and Pudukkottai Districts.

I Wish for all Success

STATION : Viralimali

DATE: 01.02.2023

  
(Er.G. UMASHANKAR, M.E., M.B.A.,)

Assistant Executive Engineer, WRD,

Special Project Sub-division,

Viralimali.

  
**Dr. S.THILAGAVATHI M.E., Ph.D.,**

**PRINCIPAL**

**SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN**

**Kaikkurchi - 622 303, Pudukkottai Dt.**





## WATER RESOURCES DEPARTMENT

Office of the  
Assistant Executive Engineer,  
Special Project Sub-division,  
Viralimalai.

## INTERNSHIP TRAINING CERTIFICATE

This is Certify that Selvi.V.MEGALA (Reg No. 912620103302) Third Year B.E Civil Engineering of SRI BHARATHI ENGINEERING College for women, Pudukkottai has Participated in the **INTERNSHIP TRAINING PROGRAMME** from 06 th January to 31 January 2023 (Except Holidays from 15.01.2023 to 17.01.2023 & 26.01.2023) and attended the Activities of Ongoing Cauvery –Vaigai –Gundar Link Canal Project Work of Trichy and Pudukkottai Districts.

I Wish for all Success

STATION : Viralimali

DATE: 01.02.2023

(Er.G. UMASHANKAR, M.E., M.B.A.,)

Assistant Executive Engineer, WRD,

Special Project Sub-division,

Viralimali.

Dr. S. THILAGAVATHI M.E., Ph.D.,  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurchi - 622 303, Pudukkottai Dt.





Er. K. BASHEER MOHAMED, B.E, M.Sc.(REV), FIV.  
98424 61166

- Engineers • Architects
- Licensed Building surveyors
- Consultants • Contractors
- Building Promoters • Value

13.08.2022

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **MS.T.AJITHA**, studying B.E civil Engineering in Sri Bharathi Engineering College For Women, Kaikurichi, Pudukkottai has undergone **In-plant Training** in our concern from the date of **12.07.2022 – 12.08.2022**.

During this training period, she learned the construction of brick work, centering and shuttering, placing of concreting, plastering and bar bending of various members in the buildings. Her performance and commitment towards the work were found to be good.

**Dr. S. THILAGAVATHI M.E., Ph.D.,**  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurichi - 622 303, Pudukkottai Dt.

Signature  
Er. K. BASHEER MOHAMED, B.E., M.Sc., (REV)  
Registered Engineer  
**SHABEE CONSTRUCTION**  
Shop No. 12, KP Super Complex,  
T.S. No. 4128, South 3rd Street,  
PUDUKKOTTAI - 622 001.

**SHABEE CONSTRUCTION**  
Shop #12, KP Super Complex, TS No: 4128, South 3<sup>rd</sup> Street, Near Supreme Cycles, Pudukkottai-1  
Mobile: 98424 61166, 98428 77722, Office: 73737 16168





Er. K. BASHEER MOHAMED, B.E, M.Sc.(REV), FIV.  
98424 61166

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• Licensed Building surveyors  
• Consultants • Contractors  
• Building Promoters • Valuers

13.08.2022

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **MS.V.DIVYA**, studying B.E civil Engineering in Sri Bharathi Engineering College For Women, Kaikurichi, Pudukkottai has undergone **In-plant Training** in our concern from the date of **12.07.2022 – 12.08.2022**.

During this training period, she learned the construction of brick work, centering and shuttering, placing of concreting, plastering and bar bending of various members in the buildings. Her performance and commitment towards the work were found to be good.

**Dr. S. THILAGAVATHI** M.E., Ph.D.,  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurichi - 622 303, Pudukkottai Dt.

Signature  
Er. K. BASHEER MOHAMED, B.E., M.Sc., (Rev.), FIV.  
Registered Engineer  
**SHABEE**  
**CONSTRUCTION**  
Shop No. 12, KP Super Complex,  
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PUDUKKOTTAI - 622 001.

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Mobile: 98424 61166, 98428 77722, Office: 73737 16168





Er. K. BASHEER MOHAMED, B.E, M.Sc.(REV), FIV.  
98424 61166

- Engineers • Architects
- Licensed Building survey
- Consultants • Contractors
- Building Promoters • Valu

13.08.2022

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **MS.G.MANGAIYARKARASI**, studying B.E civil Engineering in Sri Bharathi Engineering College For Women, Kaikurichi, Pudukkottai has undergone **In-plant Training** in our concern from the date of **12.07.2022 – 12.08.2022**.

During this training period, she learned the construction of brick work, centering and shuttering, placing of concreting, plastering and bar bending of various members in the buildings. Her performance and commitment towards the work were found to be good.

**Dr. S.THILAGAVATHI M.E., Ph.D.**  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurchi - 622 303, Pudukkottai Dt.

Signature  
Er. K. BASHEER MOHAMED, B.E, M.Sc.(Rev), FIV.  
Registered Engineer

**SHABEE  
CONSTRUCTION**  
Shop No. 12, KP Super Complex,  
T.S. No. 4128, South 3<sup>rd</sup> Street,  
PUDUKKOTTAI - 622 001.

**SHABEE CONSTRUCTION**  
Shop #12, KP Super Complex, TS No: 4128, South 3<sup>rd</sup> Street, Near Supreme Cycles, Pudukkottai-1  
Mobile: 98424 61166, 98428 77722, Office: 73737 16168





Er. K. BASHEER MOHAMED, B.E, M.Sc.(REV), FIV.  
98424 61166

• Engineers • Architects  
• Licensed Building surveyors  
• Consultants • Contractors  
• Building Promoters • Valuers

13.08.2022

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **MS.S.PRAVEENA**, studying B.E civil Engineering in Sri Bharathi Engineering College For Women, Kaikurichi, Pudukkottai has undergone **In-plant Training** in our concern from the date of **12.07.2022** – **12.08.2022**.

During this training period, she learned the construction of brick work, centering and shuttering, placing of concreting, plastering and bar bending of various members in the buildings. Her performance and commitment towards the work were found to be good.

**Dr. S. THILAGAVATHI M.E., Ph.D.,**  
PRINCIPAL  
**SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN**  
Kaikkurichi - 622 303, Pudukkottai Dt.

Signature

Er. K. BASHEER MOHAMED, B.E, M.Sc.(Rev), FIV.  
Registered Engineer

**SHABEE  
CONSTRUCTION**  
Shop No. 12, KP Super Complex,  
T.S. No. 4128, South 3-rd Street,  
PUDUKKOTTAI - 622 001.

**SHABEE CONSTRUCTION**

Shop #12, KP Super Complex, TS No: 4128, South 3<sup>rd</sup> Street, Near Supreme Cycles, Pudukkottai-1  
Mobile: 98424 61166, 98428 77722, Office: 73737 16168





Er. K. BASHEER MOHAMED, B.E, M.Sc.(REV), FIV.  
98424 61166

• Engineers • Architects  
• Licensed Building survey  
• Consultants • Contractors  
• Building Promoters • Valu

13.08.2022

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **MS.J.LILLY JOHN**, studying B.E civil Engineering in Sri Bharathi Engineering College For Women, Kaikurichi, Pudukkottai has undergone **In-plant Training** in our concern from the date of **12.07.2022 - 12.08.2022**.

During this training period, she learned the construction of brick work, centering and shuttering, placing of concreting, plastering and bar bending of various members in the buildings. Her performance and commitment towards the work were found to be good.

**Dr. S. THILAGAVATHI M.E., Ph.D.,**  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurichi - 622 303, Pudukkottai Dt.

Signature

Er. K. BASHEER MOHAMED, B.E, M.Sc.(Rev), FIV.  
Registered Engineer

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Er. K. BASHEER MOHAMED, B.E, M.Sc.(REV), FIV.  
98424 61166

• Engineers • Architects  
• Licensed Building survey  
• Consultants • Contractors  
• Building Promoters • Valu

13.08.2022

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **MS.S.BHUVANI**, studying B.E civil Engineering in Sri Bharathi Engineering College For Women, Kaikurichi, Pudukkottai has undergone **In-plant Training** in our concern from the date of **12.07.2022 - 12.08.2022**.

During this training period, she learned the construction of brick work, centering and shuttering, placing of concreting, plastering and bar bending of various members in the buildings. Her performance and commitment towards the work were found to be good.

**Dr. S. THILAGAVATHI**, M.E., Ph.D.,  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurchi - 622 303, Pudukkottai Dt.

Signature

Er. K. BASHEER MOHAMED, B.E., M.Sc. (Rev), FIV.  
Registered Engineer

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CONSTRUCTION**  
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T.S. No. 4128, South 3-rd Street,  
PUDUKKOTTAI - 622 001.

**SHABEE CONSTRUCTION**

Shop #12, KP Super Complex, TS No: 4128, South 3<sup>rd</sup> Street, Near Supreme Cycles, Pudukkottai-1  
Mobile: 98424 61166, 98428 77722, Office: 73737 16168



**Er.M.PRADEEP** ,DCM., ME (stru.),AIV.,  
PGDQSV.,MICI.,AMACCE (I).,ApEECI.,AMIE.,C Eng.(I)  
Approved Valuer / Chartered Engineer  
Govt. Registered Structural Engineer



CONSTRUCTION / CONSULTING / PLANS AND ESTIMATES / STRUCTURAL DESIGN AND DETAILINGS / TRAINING PROGRAMMES / VALUATIONS

With Regards

Er.M.Pradeep  
Government Registered Structural Engineer


## CERTIFICATE OF COMPLETION

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Aruljenifar C (IV year, B.E -Civil Engineering, SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN, Pudukkottai)** has successfully completed the In-Plant Training program at **PMP Consultants** from **12.07.2022-12.08.2022**. During the training period, **Aruljenifar C** actively participated in various training activities and demonstrated a strong commitment to learning and professional development. She showed excellent dedication, enthusiasm, and a willingness to acquire industry-specific knowledge.

We commend **Aruljenifar C** for their exceptional performance and valuable contributions throughout the training program. She consistently met or exceeded the expectations set forth and actively sought feedback to enhance their skills and knowledge.

By completing this **In-Plant Training** program, **Aruljenifar C** has gained practical experience and exposure to real-time projects, which will greatly benefit their future career endeavors.

  
**PRADEEP M**

[Authorized Representative]

**PMP Consultants**

Er.M.PRADEEP,DCM.,ME (Stru.),AMIE.,AIV  
PGDQSV.,MICI.,AMACCE(I).,MECI.,C.Eng (I).  
APPROVED VALUER / CHARTERED ENGINEER  
REGISTERED STRUCTURAL ENGINEER

  
**Dr. S.THILAGAVATHI** M.E.,Ph.D.,  
PRINCIPAL  
**SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN**  
Kaikkurchi - 622 303, Pudukkottai Dt.



**Er.M.PRADEEP**, DCM., ME (stru.), AIV.,  
PGDQSV., MICI., AMACCE (I), ApEECI., AMIE., C Eng. (I)  
Approved Valuer / Chartered Engineer  
Govt. Registered Structural Engineer



CONSTRUCTION / CONSULTING / PLANS AND ESTIMATES / STRUCTURAL DESIGN AND DETAILINGS / TRAINING PROGRAMMES / VALUATIONS

With Regards

Er.M.Pradeep  
Government Registered Structural Engineer


## CERTIFICATE OF COMPLETION

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Muthulakshmi S (IV year, B.E -Civil Engineering, SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN, Pudukkottai)** has successfully completed the In-Plant Training program at **PMP Consultants** from **12.07.2022-12.08.2022**. During the training period, **Muthulakshmi S** actively participated in various training activities and demonstrated a strong commitment to learning and professional development. She showed excellent dedication, enthusiasm, and a willingness to acquire industry-specific knowledge.

We commend **Muthulakshmi S** for their exceptional performance and valuable contributions throughout the training program. She consistently met or exceeded the expectations set forth and actively sought feedback to enhance their skills and knowledge.

By completing this **In-Plant Training** program, **Muthulakshmi S** has gained practical experience and exposure to real-time projects, which will greatly benefit their future career endeavors.

  
PRADEEP M.

[Authorized Representative]

**PMP Consultants**

Er.M.PRADEEP, DCM., ME (Stru.), AMIE., AIV  
PGDQSV., MICI., AMACCE(I), MECI., C.Eng (I).  
APPROVED VALUER / CHARTERED ENGINEER  
REGISTERED STRUCTURAL ENGINEER

  
**Dr. S.THILAGAVATHI M.E., Ph.D.,**  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurchi - 622 303, Pudukkottai Dt.



**Er.M.PRADEEP**, DCM., ME (stru.), AIV.,  
PGDQSV., MICI., AMACCE (I)., ApEECI., AMIE., C Eng.(I)  
Approved Valuer / Chartered Engineer  
Govt. Registered Structural Engineer



CONSTRUCTION / CONSULTING / PLANS AND ESTIMATES / STRUCTURAL DESIGN AND DETAILINGS / TRAINING PROGRAMMES / VALUATIONS

With Regards

Er.M.Pradeep

Government Registered Structural Engineer


## CERTIFICATE OF COMPLETION

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Priyadharshini K** (IV year, B.E -Civil Engineering, **SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN, Pudukkottai**) has successfully completed the In-Plant Training program at **PMP Consultants** from **12.07.2022-12.08.2022**. During the training period, **Priyadharshini K** actively participated in various training activities and demonstrated a strong commitment to learning and professional development. She showed excellent dedication, enthusiasm, and a willingness to acquire industry-specific knowledge.

We commend **Priyadharshini K** for their exceptional performance and valuable contributions throughout the training program. She consistently met or exceeded the expectations set forth and actively sought feedback to enhance their skills and knowledge.

By completing this **In-Plant Training** program, **Priyadharshini K** has gained practical experience and exposure to real-time projects, which will greatly benefit their future career endeavors.

  
PRADEEP M

[Authorized Representative]

**PMP Consultants**

Er.M.PRADEEP, DCM., ME (Stru.), AMIE., AIV  
PGDQSV., MICI., AMACCE(I)., MECL., C.Eng (I).  
APPROVED VALUER / CHARTERED ENGINEER  
REGISTERED STRUCTURAL ENGINEER

  
**Dr. S.THILAGAVATHI M.E., Ph.D.,**  
PRINCIPAL  
**SRI BHARATHI ENGINEERING**  
**COLLEGE FOR WOMEN**  
Kaikkurchi - 622 303, Pudukkottai Dt.



**Er.M.PRADEEP**.,DCM., ME (stru.),AIV.,  
PGDQSV.,MICI.,AMACCE (I).,ApEECI.,AMIE.,C Eng.(I)  
Approved Valuer / Chartered Engineer  
Govt. Registered Structural Engineer



CONSTRUCTION / CONSULTING / PLANS AND ESTIMATES / STRUCTURAL DESIGN AND DETAILINGS / TRAINING PROGRAMMES / VALUATIONS

With Regards

Er.M.Pradeep  
Government Registered Structural Engineer

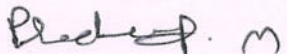
## CERTIFICATE OF COMPLETION

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ragavi V (IV year, B.E -Civil Engineering, SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN, Pudukkottai)** has successfully completed the In-Plant Training program at **PMP Consultants** from **12.07.2022-12.08.2022**. During the training period, **Ragavi V** actively participated in various training activities and demonstrated a strong commitment to learning and professional development. She showed excellent dedication, enthusiasm, and a willingness to acquire industry-specific knowledge.

We commend **Ragavi V** for their exceptional performance and valuable contributions throughout the training program. She consistently met or exceeded the expectations set forth and actively sought feedback to enhance their skills and knowledge.

By completing this **In-Plant Training** program, **Ragavi V** has gained practical experience and exposure to real-time projects, which will greatly benefit their future career endeavors.

  
**PRADEEP M**

[Authorized Representative]

**PMP Consultants**

Er.M.PRADEEP.,DCM.,ME (Stru.),AMIE.,AIV  
PGDQSV.,MICI.,AMACCE(I).,MECI.,C.Eng (I).  
APPROVED VALUER / CHARTERED ENGINEER  
REGISTERED STRUCTURAL ENGINEER

  
**Dr. S.THILAGAVATHI** M.E.,Ph.D.,  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurchi - 622 303, Pudukkottai Dt.





**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

**Criteria 2**

**Teaching-Learning and Evaluation**

**350**

**Key Indicator- 2.3. Teaching- Learning Process (40)**

**2022-2023**

**CIVIL ENGINEERING**

**EXPERIENTIAL LEARNING**

**PROJECT**





**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)  
Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India


**DEPARTMENT OF CIVIL ENGINEERING**

**Experiential learning(Project,In-Plant Training,Industrial visit,Local visit)**

**Academic year 2022-2023**

BATCH NO	REGISTER NO	NAME	YEAR/SEM	TOPIC	NAME OF THE LEARNING METHOD
1	912619103002	ARULJENIFAR C	IV/VIII	Experimental Study On Partially Replacement Of Cement By Using Rice Straw Ash	<b>EXPERIENTIAL LEARNING METHOD-PROJECT</b>
	912619103006	PRAVEENA S			
	912619103301	LILLY JOHN J			
2	912619103005	MUTHULAKSHMI S	IV/VIII	Usance Of Groundnut Shell Ash And Waste Cardboard Pulp In Concrete	
	912619103007	PRIYADHARSHINI K			
	912619103302	BHUVANI S			
3	912619103001	AJITHA T	IV/VIII	Utilization Of Soft Drink Bottle Caps And Palm Fibre In Concrete	
	912619103003	DIVYA V			
	912619103004	MANGAIYARKARASI G			
	912619103009	RAGAVI V			

  
**Dr. S. THILAGAVATHI M.E., Ph.D.,**  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurchi - 622 303, Pudukkottai Dt.

  
HoD/Civil  
HOD / CIVIL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
KAIKKURICHI,  
PUDUKKOTTAI - 622 303



## Internal Marks Report

College Code / Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Branch Code / Name : 103 - B.E. Civil Engineering

Semester : 08

University : AUC

Regulation : 2017

S.No	Register Number	Name	CE8021	CE8811	GE8076
1	912619103001	AJITHA T	15	18	17
2	912619103002	ARULJENIFAR C	15	20	16
3	912619103003	DIVYA V	13	14	16
4	912619103004	MANGAIYARKARASI G	13	14	17
5	912619103005	MUTHULAKSHMI S	18	20	16
6	912619103006	PRAVEENA S	14	16	17
7	912619103007	PRIYADHARSHINI K	18	20	18
8	912619103009	RAGAVI V	18	20	18
9	912619103301	LILLY JOHN J	15	18	15
10	912619103302	BHUVANI S	4	13	9

  
Dr. S.THILAGAVATHI M.E., Ph.D.,  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurchi - 622 303, Pudukkottai Dt.





**EXPERIMENTAL STUDY ON PARTIAL REPLACEMENT  
OF CEMENT BY USING RICE STRAW ASH**

**A PROJECT REPORT**

*Submitted by*

<b>C.ARULJENIFAR</b>	<b>912619103002</b>
<b>S.PRAVEENA</b>	<b>912619103006</b>
<b>J.LILLY JOHN</b>	<b>912619103301</b>

*in partial fulfilment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

**IN**

**CIVIL ENGINEERING**

**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**

**KAIKKURICHI, PUDUKKOTTAI - 622303**

**ANNA UNIVERSITY:: CHENNAI - 600 025**

**MAY 2023**

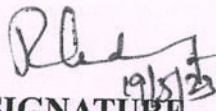
**Dr. S.THILAGAVATHI M.E.,Ph.D.,**  
**PRINCIPAL**  
**SRI BHARATHI ENGINEERING**  
**COLLEGE FOR WOMEN**  
**Kaikkurchi - 622 303, Pudukkottai Dt.**




**ANNA UNIVERSITY : CHENNAI 600 025**

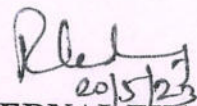
**BONAFIDE CERTIFICATE**

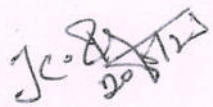
Certificate that this project report “**EXPERIMENTAL STUDY ON PARTIAL REPLACEMENT OF CEMENT BY USING RICE STRAW ASH**” is the bonafide **C.ARULJENIFAR (912619103002), S.PRAVEENA (912619103006), J.LILLY JOHN (912619103301)** who carried out the Project work under by supervision.

  
**SIGNATURE**  
Mrs. R.PADMA RANI, M.E,  
**HEAD OF THE DEPARTMENT,**  
Department of Civil Engineering,  
Sri Bharathi Engineering  
College for Women  
Pudukkottai-622303

  
**SIGNATURE**  
Ms. G.GAYATHRI, M.E  
**SUPERVISOR,**  
Department of Civil Engineering,  
Sri Bharathi Engineering  
College for Women  
Pudukkottai - 622303

Submitted for the project viva – voce examination held on. 20/05/2023

  
**INTERNAL EXAMINER**  
[R. PADMA RANI AP/CIVIL  
9126128 - SBE CW]

  
**EXTERNAL EXAMINER**  
[K. ROJA AP/CIVIL  
9116 MCEET]

  
**Dr. S. THILAGAVATHI M.E., Ph.D.,**  
**PRINCIPAL**  
**SRI BHARATHI ENGINEERING**  
**COLLEGE FOR WOMEN**  
Kaikkurchi - 622 303, Pudukkottai Dt.





**USANCE OF GROUNDNUT SHELL ASH AND WASTE  
CARDBOARD PULP IN CONCRETE**

**A PROJECT REPORT**

*Submitted by*

<b>S. MUTHULAKSHMI</b>	<b>912619103005</b>
<b>K. PRIYADHARSHINI</b>	<b>912619103007</b>
<b>S. BHUVANI</b>	<b>912619103302</b>

*In partial fulfilment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

**in**

**CIVIL ENGINEERING**

**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN  
KAIKKURICHI, PUDUKKOTTAI-622303**

**ANNA UNIVERSITY: CHENNAI - 600 025**

**MAY-2023**

**Dr. S. THILAGAVATHI M.E., Ph.D.,  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurchi - 622 303, Pudukkottai Dt.**



**ANNA UNIVERSITY: CHENNAI - 600 025**

**BONAFIDE CERTIFICATE**

Certificate that this project report “USANCE OF GROUNDNUT SHELL ASH AND WASTE CARDBOARD PULP IN CONCRETE” is the bonafide S. MUTHULAKSHMI (912619103005), K. PRIYADHARSHINI (912619103007), S. BHUVANI (912619103302) who carried out Project work under by supervision.

  
19/05/23

**SIGNATURE**

Mrs. R. PADMA RANI, M.E,

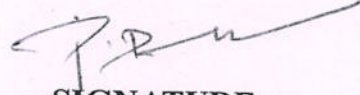
**HEAD OF THE DEPARTMENT,**

Department of Civil Engineering,

Sri Bharathi Engineering

College for Women

Pudukkottai-622303



**SIGNATURE**

Mrs. P. DENNIS FLORA, M.E,

**SUPERVISOR,**

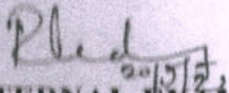
Department of Civil Engineering,

Sri Bharathi Engineering

College for Women

Pudukkottai - 622303

Submitted for the project viva – voce examination held on. 20.05.2023

  
20/05/23

**INTERNAL EXAMINER**

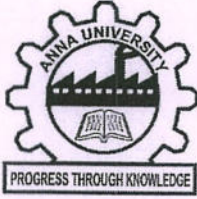


**EXTERNAL EXAMINER**

  
ii

**Dr. S. THILAGAVATHI M.E., Ph.D.,**  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurchi - 622 303, Pudukkottai Dt.





**UTILIZATION OF SOFTDRINK BOTTLE CAPS  
AND PALM FIBRE IN CONCRETE**

**A PROJECT REPORT**

*Submitted by*

<b>T.AJITHA</b>	<b>912619103001</b>
<b>V.DIVYA</b>	<b>912619103003</b>
<b>G.MANGAIYARKARASI</b>	<b>912619103004</b>
<b>V.RAGAVI</b>	<b>912619103009</b>

*In partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*

**CIVIL ENGINEERING**

**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**

**KAIKKURICHI, PUDUKKOTTAI - 622 303**

**ANNA UNIVERSITY:: CHENNAI 600 025**

**MAY-2023**

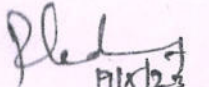
**Dr. S. THILAGAVATHI M.E., Ph.D.,**  
**PRINCIPAL**  
**SRI BHARATHI ENGINEERING**  
**COLLEGE FOR WOMEN**  
**Kaikkurehi - 622 303, Pudukkottai Dt.**



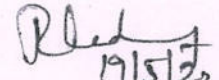
**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certificate that this project report “**UTILIZATION OF SOFT DRINK BOTTLE CAPS AND PALM FIBRE IN CONCRETE**” is the bonafide work of T.AJITHA (912619103001), V.DIVYA (912619103003), G.MANGAIYARKARASI (912619103004), V.RAGAVI (912619103009) who carried out the project work under my supervision.

  
19/5/23  
**SIGNATURE**

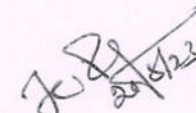
Mrs.R.PADMARANI M.E.,  
**HEAD OF THE DEPARTMENT,**  
Department of Civil Engineering,  
Sri Bharathi Engineering  
College for Women,  
Pudukkottai-622303

  
19/5/23  
**SIGNATURE**

Mrs.R.PADMARANI M.E.,  
**SUPERVISOR,**  
Department of Civil Engineering,  
Sri Bharathi Engineering  
College for Women,  
Pudukkottai - 622303

Submitted for the project viva – voce examination held on. 20/5/2023

  
20/5/23  
**INTERNAL EXAMINER**

  
20/5/23  
**EXTERNAL EXAMINER**

  
**Dr. S.THILAKAVATHI M.E.,Ph.D.,**  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurchi - 622 303, Pudukkottai Dt.





**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

**Criteria 2**

**Teaching-Learning and Evaluation**

**350**

**Key Indicator- 2.3. Teaching- Learning Process (40)**

**2022-2023**

**CIVIL ENGINEERING**

**EXPERIENTIAL LEARNING**

**LABORATORY**





# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

## DEPARTMENT OF CIVIL ENGINEERING

Experiential learning (Project, In-Plant Training, Industrial visit, Local visit)

2022-2023 (LABORATORY COURSES-II Year)

CE3412

MATERIALS TESTING LABORATORY

L T P C

0 0 4 2

### OBJECTIVES:

To develop skills to test various construction materials.

#### I. TESTS ON METALS

- a. Tension test on steel rod
- b. Torsion test on mild steel rod
- c. Deflection test on metal beam
- d. Double shear test on metal
- e. Impact test on metal specimen (Izod and Charpy)
- f. Hardness test on metals (Rockwell and Brinell Hardness Tests)
- g. Compression test on helical spring
- h. Deflection test on carriage spring

#### II. TESTS ON CEMENT

- a. Determination of fineness of cement
- b. Determination of consistency of cement
- c. Determination of specific gravity of cement
- d. Determination of initial and final setting time of cement

#### III. TESTS ON FINE AGGREGATE

- a. Determination of specific gravity and water absorption of fine aggregate
- b. Determination of grading of fine aggregate
- c. Determination of water absorption for fine aggregate

#### IV. TESTS ON COARSE AGGREGATE

- a. Determination of compacted and loose bulk density of coarse aggregate
- b. Determination of impact value of coarse aggregate
- c. Determination of elongation index of coarse aggregate
- d. Determination of flakiness index of coarse aggregate
- e. Determination of aggregate crushing value of coarse aggregate
- f. Determination of specific gravity and water absorption of coarse aggregate

#### V. TESTS ON BRICKS

- a. Determination of compressive strength of bricks
- b. Determination of water absorption of bricks
- c. Determination of efflorescence of bricks

#### VI. TESTS ON CONCRETE

- a. Determination of slump of concrete
- b. Determination of compressive strength of concrete
- c. Determination of flowability of self-compacting concrete (Demo only)

#### VII. TEST ON WOOD

- a. Determination of Compression test on wood

TOTAL: 60 PERIODS

Dr. S. THILAGAVATHI M.E., Ph.D.,  
PRINCIPAL

SRI BHARATHI ENGINEERING  
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# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

## DEPARTMENT OF CIVIL ENGINEERING

Experiential learning(Project,In-Plant Training,Industrial visit,Local visit)

### Batch List

S.No	Register Number	Name of the student	Batch	Laboratory Course	Year/Department
1	912621103001	Akila.G	I	CE3412- MATERIALS TESTING LABORATORY	II/CIVIL
2	912621103003	Jayabharathi.R			
3	912621103004	Jaya Manohari.B			
4	912621103005	Priyadharshini.A			
5	912621103006	Rabia Banu.M	II		
6	912621103007	Sherlin Kavya.B			
7	912621103301	Jenifar.A			
8	912621103302	Kalaiarasi.G			

HoD/Civil

HOD / CIVIL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
KAIKKURICHI,  
PUDUKKOTTAI - 622 303

Dr. S. THILAGAVATHI M.E., Ph.D.,  
PRINCIPAL

SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurchi - 622 303, Pudukkottai Dt.



## Internal Marks Report

College Code / Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Branch Code / Name : 103 - B.E. Civil Engineering

Semester : 04

University : AUC

Regulation : 2021

S.No	Register Number	Name	CE3401	CE3402	CE3403	CE3404	CE3405	CE3411	CE3412	CE3413	GE3451	SB8024	SB8025	SB8026
1	912621103001	AKILA G	36	35	32	33	33	55	56	56	32		95	
2	912621103003	JAYABHARATHI R	37	32	36	33	32	56	55	55	34	96		
3	912621103004	JAYA MANOHARI B	38	37	34	33	34	56	56	55	36			96
4	912621103005	PRIYADHARSHINI A	29	28	27	28	27	53	54	53	30		94	
5	912621103006	RABIA BANU M	35	29	21	22	29	55	53	55	28	95		
6	912621103007	SHERLIN KAVYA B	36	38	34	32	35	57	56	56	36			96
7	912621103301	JENIFAR A	25	23	20	24	24	51	54	52	20			94
8	912621103302	KALAIARASI G	28	20	21	23	22	53	55	52	23	94		



**Dr. S.THILAGAVATHI M.E., Ph.D.,**  
**PRINCIPAL**  
**SRI BHARATHI ENGINEERING**  
**COLLEGE FOR WOMEN**  
**Kaikkurchi - 622 303, Pudukkottai Dt.**





# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

## DEPARTMENT OF CIVIL ENGINEERING

Experiential learning(Project,In-Plant Training,Industrial visit,Local visit)

2022-2023 (LABORATORY COURSES-III Year)

CE8513

SURVEY CAMP

(During IV semester Summer Vacation 2 weeks)

The objective of the survey camp is to enable the students to get practical training in the field work. Groups of not more than six members in a group will carry out each exercise in survey camp. The camp must involve work on a large area of not less than 40 acres outside the campus (Survey camp should not be conducted inside the campus). At the end of the camp, each student shall have mapped and contoured the area. The camp record shall include all original field observations, calculations and plots.

Two weeks Survey Camp will be conducted during summer vacation in the following activities:


1. Traverse - using Total station
2. Contouring
  - (i). Radial tachometric contouring - Radial Line at Every 45 Degree and Length not less than 60 Meter on each Radial Line
  - (ii). Block Level/ By squares of size at least 100 Meter x 100 Meter atleast 20 Meter interval
  - (iii). L.S & C.S - Road and canal alignment for a Length of not less than 1 Kilo Meter atleast L.S at Every 30M and C.S at every 90 M
3. Offset of Buildings and Plotting the Location
4. Sun observation to determine azimuth (guidelines to be given to the students)
5. Use of GPS to determine latitude and longitude and locate the survey camp location
6. Traversing using GPS
7. Curve setting by deflection angle

Apart from above students may be given survey exercises in other area also based on site condition to give good exposure on survey.

### Batch List

S.No	Register Number	Name of the student	Batch	Laboratory Course	Year/Department
1	912620103001	Aswini.T	I	CE8513-SURVEY CAMP	III/CIVIL
2	912620103002	Geetha.M			
3	912620103003	Keerthi.S			
4	912620103004	Subathra.S	II		
5	912620103301	Bhavani.S			
6	912620103302	Megala.V			

  
Dr. S. THILAGAVATHI M.E., Ph.D.,  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
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HOD / CIVIL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
KAIKKURICHI,  
PUDUKKOTTAI - 622 303



## Internal Marks Report

College Code / Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Branch Code / Name : 103 - B.E. Civil Engineering

Semester : 05

University : AUC

Regulation : 2017

S.No	Register Number	Name	CE8501	CE8502	CE8511	CE8512	CE8513	CE8591	EN8491	GE8074	ORO551
1	912620103001	ASWINI T	14	14	19	16	90	10	16	13	14
2	912620103002	GEETHA M	19	17	19	19	95	17	19	17	17
3	912620103003	KEERTHI S	15	13	18	17	91	13	17	15	13
4	912620103004	SUBATHRA S	18	16	20	16	96	12	17	15	14
5	912620103301	BHAVANI S	9	10	18	15	90	7	13	11	9
6	912620103302	MEGALA V	13	10	18	18	92	12	17	12	12



Dr. **S.THILAGAVATHI M.E., Ph.D.**,  
PRINCIPAL  
**SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN**  
Kaikkurchi - 622 303, Pudukkottai Dt.



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

**Criteria 2**

**Teaching-Learning and Evaluation**

**350**

**Key Indicator- 2.3. Teaching- Learning Process (40)**

**2022-2023**

**CIVIL ENGINEERING**

**EXPERIENTIAL LEARNING**

**INDUSTRIAL VISIT**





# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India


## DEPARTMENT OF CIVIL ENGINEERING

Experiential learning(Project,In-Plant Training,Industrial visit,Local visit)

Academic year 2022-2023

S.NO	REGISTER NO	NAME	YEAR/SEM	NAME OF THE LEARNING METHOD
1	912619103001	Ajitha T	IV/VIII	EXPERIENTIAL LEARNING INDUSTRIAL VISIT- ISRO THIRUVANANDHAPURAM
	912619103002	Aruljenifar C		
	912619103003	Divya V		
	912619103004	Mangaiyarkarasi G		
	912619103005	Muthulakshmi S		
	912619103006	Praveena S		
	912619103007	Priyadharshini K		
	912619103009	Ragavi V		
	912619103301	Lilly John J		
	912619103302	Bhuvani S		
2	912620103004	Subathra S	III/VI	EXPERIENTIAL LEARNING INDUSTRIAL VISIT- ISRO THIRUVANANDHAPURAM
3	912621103001	Akila.G	II/IV	EXPERIENTIAL LEARNING INDUSTRIAL VISIT- ISRO THIRUVANANDHAPURAM
	912621103003	Jayabharathi.R		
	912621103004	Jaya Manohari.B		
	912621103005	Priyadharshini.A		
	912621103007	Sherlin Kavya.B		
	912621103302	Kalaiarasi.G		

  
Dr. **S. THILAGAVATHI** M.E., Ph.D.,  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurichi - 622 303, Pudukkottai Dt.

  
HOD / CIVIL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
KAIKKURICHI,  
PUDUKKOTTAI - 622 303





SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN  
Kaikkurichi, Pudukkottai- 622 303.  
DEPARTMENT OF ECE, EEE, CSE & CIVIL  
ACADAMIC YEAR 2022-2023( EVEN SEMESTER)

Date:21.03.2023

From

Mrs.R.Yogeshwari, Mrs.B.Priya, Mrs.G.Sugapriya, Mrs.R.Padmarani,  
HOD/ECE/EEE/CSE/CIVIL,  
Sri Bharathi Engineering College for Women,  
Kaikkurichi, Pudukkottai Dt- 622303.

To

The Principal,  
Sri Bharathi Engineering College for Women,  
Kaikkurichi, Pudukkottai -622303.

*Approved*  
23/3/23

Madam,

Sub: Tentative Industrial Visit programme for All Departments Students-Approval  
requested – Reg.

I am submitting herewith a tentative Industrial Visit programme for students  
of ECE, EEE, CSE & CIVIL departments scheduled to be on 31.03.2023(Friday) and  
01.04.2023(Saturday) for an educational visit to ISRO, Thiruvananthapuram, Kerala. We are  
furnishing herewith the particulars that may be required for favour of information and  
approval.

Number of IV year Students of ECE, EEE, CSE & CIVIL	= 06+09+19+10=44
Number of III year Students of ECE, EEE, CSE & CIVIL	= 09+06+19+1=35
Number of II year Students of ECE, EEE, CSE & CIVIL	= 10+02+19+8=39
Total number of students	= 118
Number of accompanying Faculty	= 10

List of accompanying Faculty

1. Mrs.R.Yogeshwari, Assistant Professor/ECE Department
2. Mrs.K.A.Muthulakshmi, Assistant Professor/ECE Department
3. Mrs.G.Sugapriya, Assistant Professor/CSE Department
4. Mrs.S.Jayapratha, Assistant Professor/CSE Department
5. Mrs.S.Yogalakshmi, Assistant Professor/CSE Department
6. Ms.R.Padmarani, Assistant Professor/CIVIL Department
7. Mrs.P.Dennis Flora, Assistant Professor/CIVIL Department
8. Mrs.Raci.Mahizhini, Assistant Professor/CIVIL Department
9. Mr.T.Parthiban, Assistant Professor/EEE Department
10. Mr.S.Rameshraj, Assistant Professor/English Department

Place: Kaikkurichi

Date: 21/3/23

*[Handwritten signature in green ink]*

Dr. S. THILAGAMATHI M.E. Ph.D.,  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurichi - 622 303, Pudukkottai Dt.



Yours truly,

1. *[Signature]* Mrs. Sugapriya
2. *[Signature]* Mrs. Padma Rani
3. *[Signature]* Mrs. Priya
4. *[Signature]* Mrs. Priya





# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

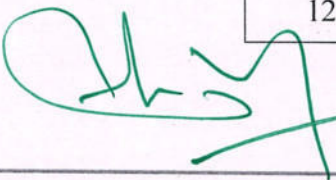
(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)  
Pudukkottai - Aranthangi Road,  
Kaikkurichi, Pudukkottai - 622 303.

Date : 30/3/2023.....

## BONAFIDE CERTIFICATE

This is to certify that the following students of our college studying II, III & IV Year of B.E/Civil Engineering during this academic year 2022-2023.

S.NO	REG.NO	NAME OF THE STUDENT
IV YEAR/ VIII SEM		
1.	912619103001	AJITHA T
2.	912619103002	ARULJENIFAR C
3.	912619103003	DIVYA V
4.	912619103004	MANGAIYARKARASI G
5.	912619103005	MUTHULAKSHMI S
6.	912619103006	PRAVEENA S
7.	912619103007	PRIYADHARSHINI K
8.	912619103009	RAGAVI V
9.	912619103301	LILLY JOHN J
10.	912619103302	BHUVANI S
III YEAR/ VI SEM		
11.	912620103004	SUBATHRA.S
II YEAR / IV SEM		
12.	912621103001	AKILA.G

  
**Dr. S.THILAGAVATHI M.E., Ph.D.,**  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN

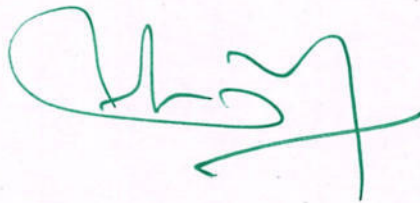
Page 1 of 2

13.	912621103003	JAYABHARATHI.R
14.	912621103004	JAYA MANOHARI.B
15.	912621103005	PRIYADHARSHINI.A
16.	912621103007	SHERLIN KAVYA.B
17.	912621103302	KALAIARASI.G


**Accompanying Staff Members:**

1. Mrs.P.Dennis Flora, Assistant Professor/Civil
2. Mrs.R.Padma Rani, Assistant Professor/Civil
3. Ms.Mahizhini Raci, Assistant Professor/Civil

This certificate is issued only for the purpose of attending **Industrial Visit** in **Vikram Sarabhai Space Centre (ISRO)**, Thiruvananthapuram, Kerala.



**Dr. S.THILAGAVATHI M.E., Ph.D.,**  
PRINCIPAL  
**SRI BHARATHI ENGINEERING**  
**COLLEGE FOR WOMEN**  
Kaikkurchi - 622 303, Pudukkottai Dt.



PRINCIPAL  
20/03/20  
**PRINCIPAL**  
**SRI BHARATHI ENGINEERING**  
**COLLEGE FOR WOMEN**  
KAIKKURICHI - 622 303.  
PUDUKKOTTAI DISTRICT





**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25,  
Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India)



**DEPARTMENT OF CIVIL ENGINEERING**  
**REPORT ON INDUSTRIAL VISIT**

**PLACE OF VISIT : Indian Space Research Organization (ISRO)**

**DATE :31<sup>st</sup> MARCH 2023.**

The industrial visit is scheduled for two days (31.03.2023 and 01.04.2023) for ECE (26) ,  
EEE (17) ,CSE(55) and CIVIL(17) departments. 115 students and 10 staffs visited Vikram Sarabhai  
Space Centre(ISRO),Thiruvananthapuram, Kerala. on 31.03.2023

This visit was mainly focused on to understand the working principles of space stations. They  
explained about various tools that are used for rocket and space jacket worn by the astronants and  
the parts of the rocket were also kept there. The future launching space station was also kept as a  
model and visited the Space Museum.

15 mins visuals were showed us regarding the working and success of the organization for  
the past 50 years which was really amazing to know about the organization.



*[Handwritten signature in green ink]*

**Dr. S.THILAGAVATHI M.E.,Ph.D.,**  
**PRINCIPAL**  
**SRI BHARATHI ENGINEERING**  
**COLLEGE FOR WOMEN**  
**Kaikkurichi - 622 303, Pudukkottai Dt.**



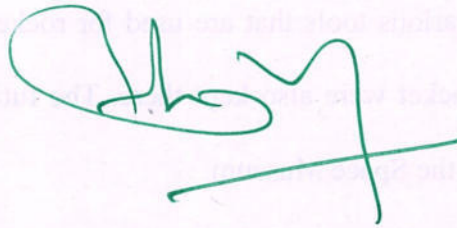
**OUTCOME OF THE VISIT:**

- The technology and the tools used for space stations was known.
- The process involved in making and sending space stations were explained.
- Importance and their success stories made us more inspiring.

*R. Lakshmi*  
01/04/23  
**HoD/CIVIL**

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