



# 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)**

**2018-2019**

**EXPERIENTIAL LEARNING  
CIVIL ENGINEERING**

<b>Activity</b>	<b>Number of Students Attended</b>	<b>Page No.</b>
<b>Internship</b>	<b>11</b>	<b>3</b>
<b>Project</b>	<b>17</b>	<b>18</b>
<b>Laboratory</b>	<b>23</b>	<b>30</b>
<b>TOTAL STUDENTS ATTENDED</b>	<b>51</b>	<b>-</b>



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

**Criteria 2**

**Teaching-Learning and Evaluation**

**350**

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

**2018-2019**

**CIVIL ENGINEERING**

**EXPERIENTIAL LEARNING**

**INTERNSHIP**



# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

## DEPARTMENT OF CIVIL ENGINEERING

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

Academic year 2018-2019

S.NO	REGISTER NO	NAME	YEAR/SEM	NAME OF THE LEARNING METHOD
1	912617103001	Chandrika.C	II/IV	EXPERIENTIAL LEARNING INTERNSHIP- MR Builders & Promotors
	912617103002	Dhesikaparthi.D		
	912617103003	Karthika.K		
	912617103004	Kasthuri.K		
	912617103005	Monika.K		
	912617103006	Muthumeena.P		
	912617103007	Pothumpen.A		
	912617103008	Priyadharshini.S		
	912617103009	Rajeswari.J		
	912617103010	Sivapriya.S		
	912617103701	Lakshmi A		

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

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



# 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 : 30.05.19

## 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 2018-2019(Odd Semester).

S.NO	REG.NO	NAME OF THE STUDENT
1.	912617103001	CHANDRIKA.C
2.	912617103002	DHESIKAPARTHI.D
3.	912617103003	KARTHIKA.K
4.	912617103004	KASTHURI.K
5.	912617103005	MONIKA.K
6.	912617103006	MUTHUMEENA.P


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

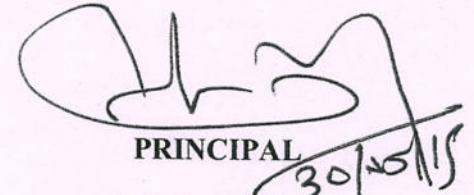
PRINCIPAL

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

7.	912617103007	POTHUMPEN.A
8.	912617103008	PRIYADHARSHINI.S
9.	912617103009	RAJESWARI.J
10.	912617103010	SIVAPRIYA.S
11.	912617103701	LAKSHMI A

This certificate is issued only for the purpose of attending **INPLANT TRAINING** in **MR BUILDERS & PROMOTORS., THANJAVUR.**

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

  
**PRINCIPAL**  
**30/05/15**  
**PRINCIPAL**  
**SRI BHARATHI ENGINEERING**  
**COLLEGE FOR WOMEN**  
**KAIKKURICHI - 622 303.**  
**PUDUKKOTTAI DISTRICT**

TIN. No : 33903826295  
PAN.No : AAXFM4490P

**MR Construction  
& Promoters**



• ENGINEERS • CONTRACTORS • PROMOTERS

State Level Class 1 Contractor (PWD, TNEB, Municipal Corporation)


## CERTIFICATE

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Chandrika C, II year B.E. (Civil Engineering) student of “**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**”, Pudukkottai, has done her internship in construction works at “**MR CONSTRUCTION & PROMOTERS**” from 03.06.2019 to 25.06.2019. During her training, she was keen in learning new skills with self-motivation. Her performance exceeded our expectations and she was able to complete the training successfully and on time.

We wish her all the best for her career.

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

For M.R. Construction & Promoters  
  
Managing Partner.  
Signature of Authorized Engineer

TIN. No : 33903826295  
PAN.No : AAXFM4490P

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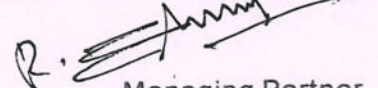
## CERTIFICATE

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Dhesikaparthi D, II year B.E. (Civil Engineering) student of “**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**”, Pudukkottai, has done her internship in construction works at “**MR CONSTRUCTION & PROMOTERS**” from 03.06.2019 to 25.06.2019. During her training, she was keen in learning new skills with self-motivation. Her performance exceeded our expectations and she was able to complete the training successfully and on time.

We wish her all the best for her career.

For M.R. Construction & Promoters

  
Managing Partner.

Signature of Authorized Engineer

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



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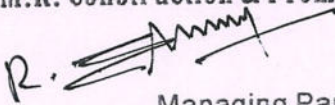
CERTIFICATE

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Ms. Karthika K, II year B.E. (Civil Engineering) student of “**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**”, Pudukkottai, has done her internship in construction works at “**MR CONSTRUCTION & PROMOTERS**” from 03.06.2019 to 25.06.2019. During her training, she was keen in learning new skills with self-motivation. Her performance exceeded our expectations and she was able to complete the training successfully and on time.

We wish her all the best for her career.

For M.R. Construction & Promoters

R.   
Managing Partner.

Signature of Authorized Engineer



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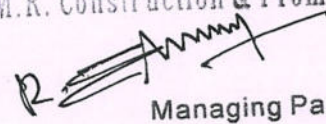
## CERTIFICATE

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Kasthuri K, II year B.E. (Civil Engineering) student of “**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**”, Pudukkottai, has done her internship in construction works at “**MR CONSTRUCTION & PROMOTERS**” from 03.06.2019 to 25.06.2019. During her training, she was keen in learning new skills with self-motivation. Her performance exceeded our expectations and she was able to complete the training successfully and on time.

We wish her all the best for her career.

For M.R. Construction & Promoters

  
Managing Partner.

Signature of Authorized Engineer



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

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Monika K, II year B.E. (Civil Engineering) student of “**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**”, Pudukkottai, has done her internship in construction works at “**MR CONSTRUCTION & PROMOTERS**” from 03.06.2019 to 25.06.2019. During her training, she was keen in learning new skills with self-motivation. Her performance exceeded our expectations and she was able to complete the training successfully and on time.

We wish her all the best for her career.

for M.R. Construction & Promoters

Managing Partner.

Signature of Authorized Engineer

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

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**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Ms. Muthumeena P, II year B.E. (Civil Engineering) student of “**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**”, Pudukkottai, has done her internship in construction works at “**MR CONSTRUCTION & PROMOTERS**” from 03.06.2019 to 25.06.2019. During her training, she was keen in learning new skills with self-motivation. Her performance exceeded our expectations and she was able to complete the training successfully and on time.

We wish her all the best for her career.

For M.R. Construction & Promoters

  
Managing Partner.

Signature of Authorized Engineer



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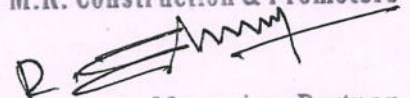
## CERTIFICATE

### TO WHOMSOEVER IT MAY CONCERN

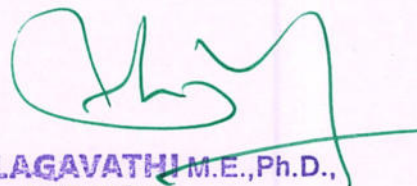
This is to certify that Ms. Pothumpen A, II year B.E. (Civil Engineering) student of “**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**”, Pudukkottai, has done her internship in construction works at “**MR CONSTRUCTION & PROMOTERS**” from 03.06.2019 to 25.06.2019. During her training, she was keen in learning new skills with self-motivation. Her performance exceeded our expectations and she was able to complete the training successfully and on time.

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For M.R. Construction & Promoters

  
Managing Partner.

Signature of Authorized Engineer



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## CERTIFICATE

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Priyadharshini S, II year B.E. (Civil Engineering) student of “**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**”, Pudukkottai, has done her internship in construction works at “**MR CONSTRUCTION & PROMOTERS**” from 03.06.2019 to 25.06.2019. During her training, she was keen in learning new skills with self-motivation. Her performance exceeded our expectations and she was able to complete the training successfully and on time.

We wish her all the best for her career.

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

For M.R. Construction & Promoters

  
Managing Partner.

Signature of Authorized Engineer

TIN. No : 33903826295  
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State Level Class 1 Contractor (PWD, TNEB, Municipal Corporation)

## CERTIFICATE

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Rajeswari J, II year B.E. (Civil Engineering) student of “**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**”, Pudukkottai, has done her internship in construction works at “**MR CONSTRUCTION & PROMOTERS**” from 03.06.2019 to 25.06.2019. During her training, she was keen in learning new skills with self-motivation. Her performance exceeded our expectations and she was able to complete the training successfully and on time.

We wish her all the best for her career.

For M.R. Construction & Promoters

  
Managing Partner.

Signature of Authorized Engineer

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

TIN. No : 33903826295  
PAN.No : AAXFM4490P

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State Level Class 1 Contractor (PWD, TNEB, Municipal Corporation)

## CERTIFICATE

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Sivapriya S, II year B.E. (Civil Engineering) student of “**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**”, Pudukkottai, has done her internship in construction works at “**MR CONSTRUCTION & PROMOTERS**” from 03.06.2019 to 25.06.2019. During her training, she was keen in learning new skills with self-motivation. Her performance exceeded our expectations and she was able to complete the training successfully and on time.

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For M.R. Construction & Promoters

  
Managing Partner.

Signature of Authorized Engineer



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



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CERTIFICATE

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Ms. Lakshmi A, II year B.E. (Civil Engineering) student of “**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**”, Pudukkottai, has done her internship in construction works at “**MR CONSTRUCTION & PROMOTERS**” from 03.06.2019 to 25.06.2019. During her training, she was keen in learning new skills with self-motivation. Her performance exceeded our expectations and she was able to complete the training successfully and on time.

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For M.R. Construction & Promoters

  
Managing Partner.

Signature of Authorized 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**

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

**Criteria 2**

**Teaching-Learning and Evaluation**

**350**

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

**2018-2019**

**CIVIL ENGINEERING**

**EXPERIENTIAL LEARNING**

**PROJECT**



# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

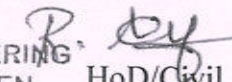
## DEPARTMENT OF CIVIL ENGINEERING

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

Academic year 2018-2019

BATCH NO	REGISTER NO	NAME	YEAR/SEM	TOPIC	NAME OF THE LEARNING METHOD
1	912615103001	Abinaya.S	IV/VIII	An Experimental Investigation On Mechanical Properties Of Sisal Fiber Reinforced Concrete	EXPERIENTIAL LEARNING METHOD-PROJECT
	912615103005	Ayesha Najum.M			
	912615103009	Gomathi.S			
	912615103014	Rasika.R			
2	912615103002	Alamelu Mangai.M	IV/VIII	Providing An Intake Channel For Temple Urani At Azhagambalpuram Village In Pudukkottai District	
	912615103004	Ananthi.V			
	912615103010	Haritha.S			
	912615103013	Raihana Jasmine.A.S			
3	912615103006	Elamathi.G	IV/VIII	Stabilization Of Black Cotton Soil For Pavement Using Fly Ash And Lime	
	912615103008	Gayathri.R			
	912615103012	Madhumitha.M			
4	912615103007	Elanthendral.N	IV/VIII	An Experimental Study Of Waste Water Treatment Using Natural Coagulants	
	912615103015	Syed Ali Fathima.G			
	912615103302	Suriya.T			
5	912615103011	Karthika.T	IV/VIII	An Experimental Study On Partial Replacement Of Fine Aggregate By Using Steel Slag	
	912615103016	Vaithegi.V			
	912615103303	Vanimathi.M			

  
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HOD / CIVIL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
KAIKKURICHI,  
  
HoD/Civil

## 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 : 2013

S.No	Register Number	Name	CE6016	CE6021	CE6811	MG6851
1	912615103001	ABINAYA S	17	18	18	18
2	912615103002	ALAMELU MANGAI M	18	18	19	18
3	912615103004	ANANTHI V	18	18	19	18
4	912615103005	AYESHA NAJUM M	18	18	18	18
5	912615103006	ELAMATHI G	18	18	18	18
6	912615103007	ELANTHENDRAL N	18	18	18	18
7	912615103008	GAYATHRI R	19	19	19	19
8	912615103009	GOMATHI S	17	17	19	18
9	912615103010	HARITHA S	17	17	18	17
10	912615103011	KARTHIKA T	18	18	18	18
11	912615103012	MADHUMITHA M	18	18	18	17
12	912615103013	RAIHANA JASMINE A S	19	18	19	19
13	912615103014	RASIKA R	17	18	18	18
14	912615103015	SYED ALI FATHIMA G	19	19	19	19
15	912615103016	VAITHEGI V	18	18	18	17
16	912615103302	SURIYA T	19	18	18	18
17	912615103303	VANIMATHI M	17	18	17	17

  
**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**

Certified that this project is the work of the student named as "AN EXPERIMENTAL INVESTIGATION ON MECHANICAL PROPERTIES OF SISAL FIBER REINFORCED CONCRETE"



**AN EXPERIMENTAL INVESTIGATION  
ON MECHANICAL PROPERTIES OF  
SISAL FIBER REINFORCED CONCRETE**



A PROJECT REPORT

*Submitted by*

ABINAYA.S	912615103001
AYESHA NAJUM.M	912615103005
GOMATHI.S	912615103009
RASIKA.R	912615103014

*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**

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

ANNA UNIVERSITY: CHENNAI 600 025  
MARCH – 2019



**PROVIDING AN INTAKE CHANNEL FOR TEMPLE  
URANI AT AZHAKAMBALPURAM VILLAGE IN  
PUDUKKOTTAI DISTRICT**

**A PROJECT REPORT**

*Submitted by*

<b>M.ALAMELU MANGAI</b>	<b>912615103002</b>
<b>V.ANANTHI</b>	<b>912615103004</b>
<b>S.HARITHA</b>	<b>912615103010</b>
<b>A.S.RAIHANA JASMINE</b>	<b>912615103013</b>

**In partial fulfilment for the award of the degree**

*of*

**BACHELOR OF ENGINEERING**

*in*

**CIVIL ENGINEERING**

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

**PRINCIPAL**

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COLLEGE FOR WOMEN**

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

**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**

**KAIKKURICHI, PUDUKKOTTAI-622303**

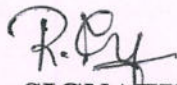
**ANNA UNIVERSITY: CHENNAI 600 025**

**MARCH - 2019**

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “PROVIDING AN INTAKE CHANNEL FOR TEMPLE URANI AT AZHAKAMBALPURAM VILLAGE IN PUDUKKOTTAI DISTRICT” is the bonafide work of ALAMELU MANGAI.M (912615103002), ANANTHI.V (912615103004), HARITHA.S (912616103007) and RAIHANA JASMINE A.S (912615103013) who carried out the project work under my supervision.



**SIGNATURE**

**Ms.R.MANJU, M.E.,**

**HEAD OF THE DEPARTMENT,**

Department of civil Engineering

Sri Bharathi Engineering

College for Women,

Kaikkurichi,

Pudukkottai - 622 303.



**SIGNATURE**

**Ms.N.CHITHIRAI SELVI, M.E.,**

**ASST.PROFESSOR,**

Department of civil Engineering

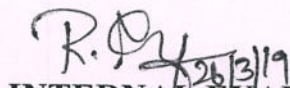
Sri Bharathi Engineering

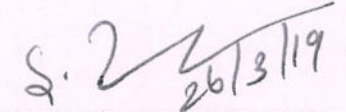
College for women,

Kaikkurichi,

Pudukkottai – 622 303.

Submitted for the project viva – voice examination held on.. 26/3/19

  
**INTERNAL EXAMINER**

  
**EXTERNAL EXAMINER**

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



**STABILIZATION OF BLACK COTTON  
SOIL FOR PAVEMENT USING**



**FLY ASH AND LIME**

**A PROJECT REPORT**

*Submitted by*

<b>ELAMATHI.G</b>	<b>912615103006</b>
<b>GAYATHRI.R</b>	<b>912615103008</b>
<b>MADHUMITHA.M</b>	<b>912615103012</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-622303**

**ANNAUNIVERSITY: CHENNAI 600025**

**MARCH-2019**

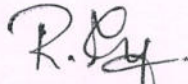
**Dr. S. THILAGAVATHI M.E., Ph.D.,**  
PRINCIPAL  
**SRI BHARATHI ENGINEERING**  
**COLLEGE FOR WOMEN**  
Kaikkurichi - 622 303, Pudukkottai Dt.



**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “STABILIZATION OF BLACK COTTON SOIL FOR PAVEMENT USING FLY ASH AND LIME” is the bonafide work of **ELAMATHI.G (912615103006)**, **GAYATHRI.R (912615103008)** and **MADHUMITHA.M (912615103012)** who carried out the project work under my supervision.

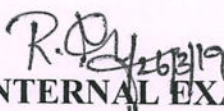
  
SIGNATURE

**Ms.R.MANJU, M.E.,**  
**HEAD OF THE DEPARTMENT,**  
Department of civil Engineering  
Sri Bharathi Engineering  
College for Women,  
Kaikkurichi,  
Pudukkottai - 622 303.

  
SIGNATURE

**Mrs.P.DENNIS FLORA, M.E.,**  
**ASST.PROFESSOR,**  
Department of civil Engineering  
Sri Bharathi Engineering  
College for women,  
Kaikkurichi,  
Pudukkottai – 622 303.

Submitted for the project viva – voice examination held on.. 26/3/2019

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

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



**AN EXPERIMENTAL STUDY OF WASTE WATER TREATMENT  
USING NATURAL COAGULANTS**

**A PROJECT REPORT**

*Submitted by*

<b>ELANTHENDRAL .N</b>	<b>912615103007</b>
<b>SYED ALI FATHIMA .G</b>	<b>912615103015</b>
<b>SURIYA .T</b>	<b>912615103302</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-622 303**

**ANNA UNIVERSITY: CHENNAI 600 025**

**MARCH-2019**

  
**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**

Certified that this project report "AN EXPERIMENTAL STUDY OF WASTE WATER TREATMENT USING NATURAL COAGULANTS" is the bonafide work of ELANTHENDRAL.N (912615103007), SYED ALI FATHIMA.G (912615103015) and SURIYA.T (912615103302) who carried out the project work under my supervision.


  
SIGNATURE

Ms.R.MANJU, M.E.,  
HEAD OF THE DEPARTMENT,  
Department of civil Engineering  
Sri Bharathi Engineering  
College for Women,  
Kaikkurichi,  
Pudukkottai - 622 303.

  
SIGNATURE

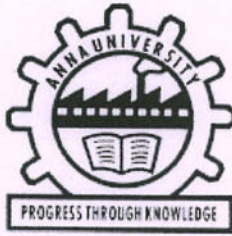
Ms.R.MANJU, M.E.,  
ASST.PROFESSOR,  
Department of civil Engineering  
Sri Bharathi Engineering  
College for women,  
Kaikkurichi,  
Pudukkottai – 622 303.

Submitted for the project viva – voice examination held on...26-3-19

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

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



**AN EXPERIMENTAL STUDY ON  
PARTIAL REPLACEMENT OF  
FINE AGGREGATE BY USING  
STEEL SLAG**

**A PROJECT REPORT**

**Submitted by**

**KARTHIKA.T  
VAITHEGI.V  
VANIMATHI.M**

**912615103011  
912615103016  
912615103303**

**In Partial fulfillment 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**

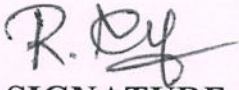
**MARCH - 2019**

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

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “AN EXPERIMENTAL STUDY ON PARTIAL REPLACEMENT OF FINE AGGREGATE BY USING STEEL SLAG” is the bonafide work of **KARTHIKA.T (912615103011)** , **VAITHEGI.V (912615103016)** and **VANIMATHI.M (912615103303)** who carried out the project work under my supervision.



**SIGNATURE**

**Ms.R.MANJU, M.E.,**

**HEAD OF THE DEPARTMENT,**

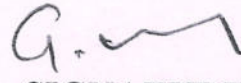
Department of civil Engineering

Sri Bharathi Engineering

College for Women,

Kaikkurichi,

Pudukkottai - 622 303.



**SIGNATURE**

**Ms.G.GAYATHRI, M.E.,**

**ASST.PROFESSOR,**

Department of civil Engineering

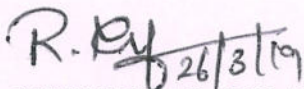
Sri Bharathi Engineering

College for women,

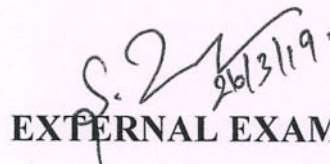
Kaikkurichi,

Pudukkottai – 622 303.

Submitted for the project viva – voice examination held on.....



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**



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

**PRINCIPAL**

**SRI BHARATHI ENGINEERING**

**COLLEGE FOR WOMEN**

**Kaikkurichi - 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)**

**2018-2019**

**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)

2018-2019 (LABORATORY COURSES-II Year)

CE8361

SURVEYING LABORATORY

L T P C  
0 0 4 2

### OBJECTIVE :

At the end of the course the student will possess knowledge about Survey field techniques

### LIST OF EXPERIMENTS:

#### Chain Survey

1. Study of chains and its accessories, Aligning, Ranging, Chaining and Marking Perpendicular offset
2. Setting out works – Foundation marking using tapes single Room and Double Room

#### Compass Survey

1. Compass Traversing – Measuring Bearings & arriving included angles

#### Levelling - Study of levels and levelling staff

2. Fly levelling using Dumpy level & Tilting level
3. Check levelling

#### Theodolite - Study of Theodolite

4. Measurements of horizontal angles by reiteration and repetition and vertical angles
5. Determination of elevation of an object using single plane method when base is accessible/inaccessible.

#### Tacheometry – Tangential system – Stadia system

5. Determination of Tacheometric Constants
6. Heights and distances by stadia Tacheometry
7. Heights and distances by Tangential Tacheometry

#### Total Station - Study of Total Station, Measuring Horizontal and vertical angles

8. Traverse using Total station and Area of Traverse
9. Determination of distance and difference in elevation between two inaccessible points using Total station

**TOTAL: 60 PERIODS**

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

PRINCIPAL

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COLLEGE FOR WOMEN**

**Kaikkurichi - 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)

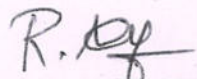
### LIST OF EQUIPMENTS FOR A BATCH OF 30 STUDENTS

Sl.No.	Description of Equipment	Quantity
1.	Total Station	3 Nos
2.	Theodolites	Atleast 1 for every 5 students
3.	Dumpy level / Filling level	Atleast 1 for every 5 students
4.	Pocket stereoscope	1
5.	Ranging rods	1 for a set of 5 students
6.	Levelling staff	
7.	Cross staff	
8.	Chains	
9.	Tapes	
10.	Arrows	
11.	Prismatic Compass	10 nos
12.	Surveyor Compass	2 nos
13.	Survey grade or Hand held GPS	3 nos

### Batch List

S.NO	Reg No	Name of the student	Batch	Laboratory Course	Year/Branch
1	912617103001	Chandrika.C	I	CE8361- SURVEYING LABORATORY	II/CIVIL
	912617103002	Dhesikaparthi.D			
	912617103003	Karthika.K			
	912617103004	Kasthuri.K			
	912617103005	Monika.K			
	912617103006	Muthumeena.P	II		
	912617103007	Pothumpen.A			
	912617103008	Priyadharshini.S			
	912617103009	Rajeswari.J			
	912617103010	Sivapriya.S			
912617103701	Lakshmi.A				

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

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





**ANNA UNIVERSITY :: CHENNAI - 600 025**  
**OFFICE OF THE CONTROLLER OF EXAMINATIONS**  
 Assessment Details Entered  
 NOV. / DEC. EXAMINATION, 2018 [ R-2017 ] - EXAMINATIONS

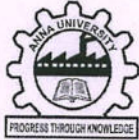
Inst Code & Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Branch Code / Name : 103 : B.E. Civil Engineering      University : AUC  
 Semester : 03

Register No.	Name of the Student	Subjects	Attend hr 1	Total hr 1	Attend hr 2	Total hr 2	IM 2	Attend hr 3	Tot hr 3	IM 3	Attend hr 4	Total hr 4	IM 4	
912617103001	CHANDRIKA C	CE8301	11	11	11	12	87	10	11	95	9	11	93	
		CE8302	12	13	11	12	80	11	12	87	8	10	95	
		CE8311										54	60	90
		CE8351	11	11	9	11	80	15	15	90	6	8	91	
		CE8361										47	60	92
		CE8391	10	11	11	12	81	12	12	82	7	10	81	
		CE8392	11	11	9	10	85	15	15	81	7	9	81	
		HS8381										28	30	88
		MA8353	15	16	14	15	81	16	16	88	11	13	85	
		912617103002	DHESIKAPARTHI D	CE8301	10	11	9	12	72	3	11	75	11	11
CE8302	12			13	8	12	75	4	12	76	10	10	85	
CE8311												48	60	85
CE8351	10			11	9	11	72	4	15	74	8	8	82	
CE8361												47	60	82
CE8391	11			11	10	12	76	3	12	75	10	10	80	
CE8392	11			11	7	10	77	3	15	76	9	9	80	
HS8381												26	30	86
MA8353	15			16	11	15	70	5	16	76	12	13	80	
912617103003	KARTHIKA K			CE8301	11	11	12	12	80	11	11	84	11	11
		CE8302	13	13	12	12	80	12	12	90	10	10	96	
		CE8311										60	60	90
		CE8351	11	11	11	11	85	15	15	95	8	8	93	
		CE8361										60	60	93
		CE8391	11	11	12	12	82	12	12	81	10	10	94	
		CE8392	11	11	10	10	89	15	15	82	9	9	86	
		HS8381										30	30	84
		MA8353	16	16	15	15	90	16	16	89	13	13	90	
		912617103004	KASTHURI K	CE8301	10	11	9	12	88	10	11	80	10	11
CE8302	12			13	12	12	95	10	12	85	9	10	95	
CE8311												60	60	93
CE8351	10			11	10	11	96	14	15	81	7	8	91	
CE8361												55	60	95
CE8391	10			11	11	12	88	11	12	82	9	10	85	
CE8392	10			11	9	10	88	14	15	83	8	9	81	
HS8381												30	30	90
MA8353	14			16	13	15	99	15	16	90	12	13	95	
912617103005	MONIKA K			CE8301	6	11	12	12	78	10	11	81	9	11
		CE8302	6	13	10	12	75	12	12	80	8	10	85	
		CE8311										54	60	85
		CE8351	6	11	10	11	71	15	15	80	5	8	80	
		CE8361										47	60	80
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		HS8381										26	30	87
		MA8353	7	16	13	15	71	15	16	81	10	13	80	
		912617103006	MUTHUMEENA P	CE8301	11	11	12	12	80	11	11	86	11	11
CE8302	12			13	11	12	93	12	12	95	9	10	94	
CE8311												60	60	90
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CE8392	10			11	10	10	92	15	15	82	8	9	88	
HS8381												30	30	88

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

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



**ANNA UNIVERSITY :: CHENNAI - 600 025**  
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Assessment Details Entered

NOV. / DEC. EXAMINATION, 2018 [ R-2017 ] - EXAMINATIONS

Inst Code & Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

912617103007	POTHUMPEN A	MA8353	16	16	14	15	91	16	16	88	12	13	90
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		CE8351	11	11	11	11	75	15	15	81	7	8	81
		CE8361									60	60	82
		CE8391	10	11	12	12	75	12	12	80	8	10	80
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		HS8381									30	30	83
		912617103008	PRIYADHARSHINI S	MA8353	14	16	14	15	75	15	16	80	12
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CE8311											60	60	83
CE8351	11			11	8	11	71	14	15	81	8	8	88
CE8361											55	60	91
CE8391	11			11	11	12	88	12	12	81	10	10	85
CE8392	11			11	8	10	85	14	15	82	9	9	85
HS8381											30	30	85
912617103009	RAJESWARI J			MA8353	16	16	12	15	76	14	16	83	13
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		CE8302	12	13	11	12	95	12	12	95	9	10	96
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CE8301	11			11	12	12	75	11	11	81	11	11	87
CE8302	13			13	12	12	75	12	12	81	10	10	83
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		HS8381									26	30	88
		MA8353	1	1	14	15	72	16	16	80	12	13	83

  
**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)

2018-2019 (LABORATORY COURSES-III Year)

CE6511

SOIL MECHANICS LABORATORY

L T P C

0 0 4 2

### OBJECTIVES:

- At the end of the course student attains adequate knowledge in assessing both Physical and Engineering behaviour of soils through laboratory testing procedures.

### LIST OF EXPERIMENTS :

1.	<b>DETERMINATION OF INDEX PROPERTIES</b>	22
a.	Special gravity of soil solids	
b.	Grain size distribution – Sieve analysis	
c.	Grain size distribution Hydrometer analysis	
d.	Liquid limit and Plastic limit tests	
e.	Shrinkage limit and Differential free swell tests	
2.	<b>DETERMINATION OF INSITU DENSITY AND COMPACTION</b>	8
a.	<b>CHARACTERISTICS</b>	
b.	Field density Test (Sand replacement method) Determination of moisture – density relationship using standard Proctor compaction test.	
3.	<b>DETERMINATION OF ENGINEERING PROPERTIES</b>	30
a.	Permeability determination (constant head and falling head methods)	
b.	One dimensional consolidation test (Determination of co-efficient of consolidation only)	
c.	Direct shear test in cohesion-less soil	
d.	Unconfined compression test in cohesive soil	
e.	Laboratory vane Shear test in cohesive soil	
f.	Tri-axial compression test in cohesion-less soil (Demonstration only)	
g.	California Bearing Ratio Test	

**TOTAL: 60 PERIODS**

### REFERENCES:

1. "Soil Engineering Laboratory Instruction Manual" published by Engineering College Co-operative Society, Anna University, Chennai, 1996. Saibaba Reddy, E. Ramasastri, K. "Measurement of Engineering Properties of Soils", New
2. age International (P) Limited Publishers, New Delhi, 2002.
3. Lambe T.W., "Soil Testing for Engineers", John Wiley and Sons, New York, 1990.

  
**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)

### LIST OF EQUIPMENT FOR A BATCH OF 30 STUDENTS

Sl.No.	Description of Equipment	Quantity
1.	Sieves	2 sets
2.	Hydrometer	2 sets
3.	Liquid and plastic limit apparatus	2 sets
4.	Shrinkage limit apparatus	3 sets
5.	Proctor compaction apparatus	2 sets
6.	UTM of minimum of 20KN capacity	1
7.	Direct shear apparatus	1
8.	Thermeometer	2
9.	Field density measuring device	2
10.	Triaxial shear apparatus	1
11.	Three gang consolidation test device	1

### Batch List

S.NO	Reg No	Name of the student	Batch	Laboratory Course	Year/Branch
1	912616103001	Aarthi.G	I	CE6511- SOIL MECHANICS LABORATORY	II/CIVIL
	912616103002	Ananthi.S			
	912616103003	Anusiya.C			
	912616103004	Kanimozhi.P			
	912616103005	Lavanya.K			
	912616103006	Masilamani.M			
	912616103007	Menaka.R	II		
	912616103008	Praveena.M			
	912616103301	Gowsika N			
	912616103302	Kaliswari M			
	912616103303	Maheswari M			
	912616103304	Sarathpritha S			

  
HoD/Civil

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

  
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## 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 : 2013

S.No	Register Number	Name	CE6501	CE6502	CE6503	CE6504	CE6505	CE6506	CE6511	CE6512	GE6674
1	912616103001	AARTHI G	16	16	17	17	17	17	18	17	17
2	912616103002	ANANTHI S	16	16	16	17	17	16	16	16	17
3	912616103003	ANUSIYA C	17	16	16	17	16	16	16	17	17
4	912616103004	KANIMOZHI P	17	16	17	17	17	17	18	18	17
5	912616103005	LAVANYA K	17	17	17	18	17	17	17	19	18
6	912616103006	MASILAMANI M	16	16	16	17	16	16	16	17	16
7	912616103007	MENAKA R	18	18	19	19	18	18	19	19	18
8	912616103008	PRAVEENA M	17	17	18	18	17	17	18	19	17
9	912616103301	GOWSIKA N	17	17	17	17	17	17	17	18	17
10	912616103302	KALISWARI M	17	18	19	19	19	18	19	19	17
11	912616103303	MAHESWARI M	17	17	18	18	17	17	18	19	17
12	912616103304	SARATHAPRITHA S	18	17	18	18	18	17	18	19	17

  
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