


### CRITERION 1- CURRICULAR ASPECTS

#### 1.3 Curriculum Enrichment

**1.3.3 Percentage of students undertaking project work/ field work /internship (Data for the latest completed academic year) (10).**


Program name	Program Code	List of students undertaking project work/ field work/Internship	Page No
B.E.CIVIL	103	AJAYKANNAN. N	17
B.E.CIVIL	103	ALAGAR K	40
B.E.CIVIL	103	ALEX PANDI.M	48
B.E.CIVIL	103	ANANDHAN ALAGUVEL P	48
B.E.CIVIL	103	ARUL MURUGAN M	48
B.E.CIVIL	103	ARUN KUMAR N	48
B.E.CIVIL	103	CHANDIRA MOORTHY B	48
B.E.CIVIL	103	DEEPAN PANDI T	17
B.E.CIVIL	103	DHANALAKSHMI P	49
B.E.CIVIL	103	GOWTHAM C	48
B.E.CIVIL	103	GUNAPANDI T	48
B.E.CIVIL	103	HARI PRASATH M	48
B.E.CIVIL	103	HARINI S	9
B.E.CIVIL	103	HARISH M	48
B.E.CIVIL	103	JEEVITHA C	48
B.E.CIVIL	103	JEGAN.S	49
B.E.CIVIL	103	KALYANI K	13
B.E.CIVIL	103	KISHORE S P	48
B.E.CIVIL	103	KRITHIKHA S	22
B.E.CIVIL	103	LAKSHMI DEVI K	9
B.E.CIVIL	103	LOGESHWARAN	49
B.E.CIVIL	103	MOHANRAJ G	41
B.E.CIVIL	103	NAVEEN J	21
B.E.CIVIL	103	NAVEEN KUMAR S	48
B.E.CIVIL	103	NAVEEN PRASAD R	49
B.E.CIVIL	103	NAVEEN. J	21
B.E.CIVIL	103	NAVEENRAJ S	48
B.E.CIVIL	103	NITHISHKUMAR A R	48
B.E.CIVIL	103	PARTHIBAN R	49
B.E.CIVIL	103	PRANAVESHVAR J S	48
B.E.CIVIL	103	PRITHVIRAJ T	49
B.E.CIVIL	103	PURUSOTHAMAN K	48
B.E.CIVIL	103	RAJA K	21
B.E.CIVIL	103	RAMALAKSHMI M	13
B.E.CIVIL	103	REVATHY A	5
B.E.CIVIL	103	SACHIN R	48
B.E.CIVIL	103	SANJAY K	48



# NPR

## College of Engineering & Technology

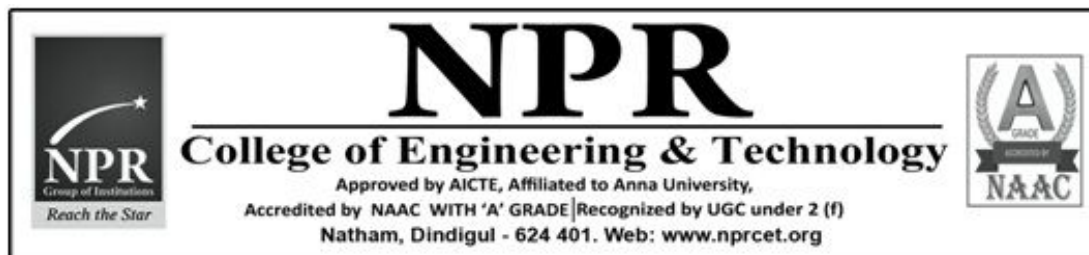
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Natham, Dindigul - 624 401. Web: [www.nprcet.org](http://www.nprcet.org)



B.E.CIVIL	103	SARANYA DEVI S	48
B.E.CIVIL	103	SHARAN SAKTHIVEL J	48
B.E.CIVIL	103	SRILAKSHMI S	44
B.E.CIVIL	103	SUBASH S	48
B.E.CIVIL	103	SUDHARSAN K	48
B.E.CIVIL	103	SUNDARAPRAKADEESWARAN B	42
B.E.CIVIL	103	SURIYA M	48
B.E.CIVIL	103	THIRAVIYAM S	49
B.E.CIVIL	103	VENKATESAN R	48
B.E.CIVIL	103	VETRIVEL A	21
B.E.CIVIL	103	VIDESHWARAN R	49
B.E.CIVIL	103	VIGNESH K	49
B.E.CIVIL	103	VIKNESHWARAN S	48
B.E.CIVIL	103	YAZHINI.S	45
B.E.CIVIL	103	YUVASHREE S	5



  
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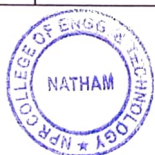


## DEPARTMENT OF CIVIL ENGINEERING- MAJOR PROJECT (2021-2022)

**Course Name : B.E.,-Civil Engineering**

**Year / Semester : IV/ VIII**

S.No.	BATCH NO	REGISTER NUMBER	STUDENT NAME	GUIDE NAME	Title of the Project	Domain Name	Type of the Project
1.	1	920818103011	Yuvashree S	Mr.P.Manikandan	Experimental study on Fly ash – red mud based foamed bricks By using natural foaming agent.	Concrete Technology	Research Project
2.		920818103009	Revathy A				
3.	2	920818103002	Harini S	Mr.K.Selvam	Experimental Investigation On Partial Replacement Of Binding Materials In Mortar By Cow Dung Ash (CDA) For Plastering Work	Concrete Technology	Research Project
4.		920818103005	Lakshmidevi K				
5.	3	920818103003	Kalyani K	Mr.C.Vijayakumar	Comparative Characteristics Study On Drinking Water Quality In Natham Block	Water resources Engineering	Research /Analytical Project
6.		920818103006	Mano Bharathi T				
7.		920818103008	Ramalakshmi M				





# NPR

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8.	4	920818103001	Ajay kannan N	Mr.K.Shanthakumar	Investigation on properties of brick Made from plastic bottle waste and sand	Construction Engineering	Research Project
9.		920818103701	Deepan Pandian T				
10.	5	920818103007	Naveen J	Mr.C.Vijayakumar	Experimental Investigation On Mechanical Behaviour Of Fibre Reinforced Concrete	Concrete Technology	Research Project
11.		920818103302	Vetrivel A				
12.		920818103702	K.Raja				

  
PROJECT CO-ORDINATOR

  
HOD-CIVIL



  
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**EXPERIMENTAL STUDY ON  
FLY ASH – RED MUD BASED FOAMED BRICKS  
BY USING NATURAL FOAMING AGENT**

**A PROJECT REPORT**

*Submitted by*

<b>REVATHY. A</b>	<b>920818103009</b>
<b>YUVASHREE. S</b>	<b>920818103011</b>

*In partial fulfilment for the award of the degree*

*Of*

**BACHELOR OF ENGINEERING**

**IN**

**CIVIL ENGINEERING**



**DEPARTMENT OF CIVIL ENGINEERING  
NPR COLLEGE OF ENGINEERING & TECHNOLOGY  
NATHAM-624 401**

**ANNA UNIVERSITY: CHENNAI 600 025**

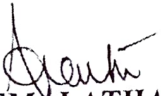
**JUNE 2022**



**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “**EXPERIMENTAL STUDY ON FLYASH – RED MUD BASED FOAMED BRICKS BY USING NATURAL FOAMING AGENT**” is the bonafide work of **REVATHY A (920818103009), YUVASHREE S (920818103011)**, who carried out the project work under my supervision.

  
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Head of the department

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**Mr.P.MANIKANDAN M.E.,**

Supervisor


Department of Civil Engineering

NPR College of Engineering &

Technology, Natham - 624 401.

Submitted for the viva-voice Examination of CE8811 project work held at  
NPR College of Engineering and Technology, Natham on 24.06.2022

  
**INTERNAL EXAMINER**

  
**EXTERNAL EXAMINER**

**Dr. J.SUNDARARAJAN,**

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## ABSTRACT

The project deals with experimental study on fly ash – red mud based foamed bricks using natural foaming agent. This type of foamed bricks was manufactured by using mineral admixtures such as fly ash, red mud in addition with natural foaming agent (soapnut solution). In this project, we studied the property of bricks with a partial replacement of water by soapnut solution. The replacement percentages are 0%, 6%, 12%, 18%, 24%, 30%, 36% and 42%. The size of the brick is adopted as 190 x 90 x 90 mm. Based on various literature studies, the optimum ratio of the red mud and fly ash is 45% and 55% respectively. After casting, bricks were dried and burnt under ambient temperature. The properties of bricks were tested by conducting compressive strength test, water absorption test, efflorescence test, soundness test for various mixing proportions. From the test results, optimum replacement percentage of water by soapnut (SN) solution was found. This project has revealed that the bricks manufactured using this method have good quality with acceptable strength and further, they can be manufactured in a cost effective manner.

KEYWORDS: red mud, fly ash, soapnut, ambient temperature, cost effective.



## CHAPTER 9

### CONCLUSION

#### 9.1 GENERAL

In this experimental program, forty bricks were cast and tested up to failure. Out of forty, six was control specimen. Then the properties of red mud fly - ash bricks were studied.

Based on the test result it has been inferred that red mud, fly ash and soapnut solution can be utilized as an effective in structural constructions.

According to Indian standard 1077:1992 class designation 3.5, the average compressive strength should not be less than  $3.5 \text{ N/mm}^2$  and the received results shows by the addition of 36% soapnut solution (S36) to brick gives  $8.48 \text{ N/mm}^2$  compressive strength which gives 31.01% increase in compressive strength when compared to control specimen (S0). Beyond the addition of soapnut solution above 36% shows decrease in compressive strength.

According to IS 1077:1992, water absorption should not be more than 20% by weight, and the received results on bricks is 14.70%. There is no efflorescence in the bricks that we produced.

The bricks we produced are economic as compared to normal bricks.

#### 9.2 SCOPE FOR FUTURE WORK

The utilization of SCMs in the construction industry has increased tremendously. There is a lot of potential for usage of fly ash, rice husk ash in bricks. Based on the experimental investigation the following conclusions were made : further investigation can be done by adding artificial foaming agent in red mud brick and that results can be compared with test results obtained while adding natural foaming agent in red mud fly – ash brick.



**EXPERIMENTAL INVESTIGATION ON PARTIAL  
REPLACEMENT OF BINDING MATERIALS IN MORTAR  
BY COW DUNG ASH (CDA) FOR PLASTERING WORK.**

**A PROJECT REPORT**

*Submitted by*

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**K. LAKSHMI DEVI - 920818103005**

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**ANNA UNIVERSITY: CHENNAI 600 025**

**JUNE 2022**





**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

ertified that this project report “**EXPERIMENTAL INVESTIGATION ON PARTIAL REPLACEMENT OF BINDING MATERIALS IN MORTAR (CEMENT) BY OWDUNG ASH (CDA) FOR PLASTERING WORK**” is the bonafide work of **ARINI. S (920818103002), LAKSHMI DEVI. K (920818103005)** who carried out the oject work under my supervision.

  
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## ABSTRACT

The construction industry has recently seen a considerable shift towards use of sustainable and green materials due to rise in pollution and waste which is created by some of most basic ingredients during its production which releases harmful gases like carbon li-oxide leading to global greenhouse effects and hence results in global warming various governmental and international organizations and individuals alike have started working on products that can be used as replacement materials to the ingredients of concrete and mortar such that the uses of such materials will increase the strength of the resulting product as well as will be cost effective at the same time. The needs of an ever growing global population lead to ever increasing demand for building, houses and various other facilities and hence the faster we move towards sustainability and green construction practices the better our future will be for us and as well as the environment. In this project we have tried using cow dung ash (CDA) as a replacement material for cement that is one of the expensive materials among major ingredients of mortar. Cow dung ash is obtained from cow then later it is dried for 12 days and heated around  $420-550^{\circ}\text{C}$  and its cooled and crushed into powder form and sieved under IS 400 microns sieve. Cow dung ash as a byproduct is readily available at cattle farms with negligible prices and sometimes is almost free of cost.



## CHAPTER 10

### CONCLUSION

The CFFRC has shown gradual increase when compared to Reinforced Concrete, 10% of increase is shown in CFFRC. Load attained from CFFRC has more strength than RC. Flexural Strength of CFFRC beam has shown valuable increase in strength. The deflection occurred from CFFRC beam has an increase of 2.5% more than RC beam. From, this durability of the structure varies from RC structure.

- ❖ In compressive strength and split tensile strength, the addition of coconut fiber the strength is increasing linearly up to 0.5%, 1%, and then it is decreasing 1.5%.
- ❖ It is concluded that the strength is increasing while increasing the percentage of Coconut fiber up to 0.5%, 1%. After 1% the strength is reducing.
- ❖ Finally concluded that Coconut fiber can be added upto 1%.



# **COMPARATIVE CHARACTERISTICS STUDY ON DRINKING WATER QUALITY IN NATHAM BLOCK**

**A PROJECT REPORT**

*Submitted by*

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<b>T.MANOBHARATHI</b>	<b>920818103006</b>
<b>M.RAMALAKSHMI</b>	<b>920818103008</b>

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**IN**

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**JUNE 2022**



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## ABSTRACT

Water is the most important commodity and mainly most misused one. Groundwater is the main principal source for drinking water and other activities in Natham, Tamilnadu.

This paper is about analysis of drinking water quality in different places of Natham Taluk. This attempts is to bring the significance quality of ground water at the location. Total 8 ground water samples were collected, around Natham following standard methods and procedures of sampling from the various locations to analyze various physical and chemical parameters. The results were compared with Indian standards and WHO. This study revealed that water of the area is much polluted and quality management is urgently needed. Titrimetric measurements for total hardness, total dissolved solids, alkalinity, chloride, dissolved oxygen have been made. Conductivity and pH measurements have also been carried out. Total dissolved solids measured gravimetrically.

The results were compared with the standards prescribed by World Health Organization (WHO) and Bureau of Indian Standards (BIS) for drinking water. This chapter presents aspects of providing safe drinking water - background information, quality of water and safety of public, in the sustainable Public water supply system in Natham Block. The characteristic studies of drinking water from different villages are studied in this experiment.





## CHAPTER - 12

### CONCLUSION

From the above results we have concluded that due to increase in industrialization, water quality of drinking water get decreases, and hence there is a need of proper and prior treatment. Present study leads to following conclusions:

The ground water quality in Natham taluk, Dindugul district, Tamilnadu India is suitable for domestic and agricultural purpose.

Sirugudi, Natham and Velayuthanpatti are well within the permissible limit of WHO and BIS.

Ullupagudi, Manakaatur, Sendhurai and Kuttupatti shows slightly changes in Total Dissolved Solids , Hardness and Dissolved Oxygen.

Mulaiyur exceeds from all the given permissible limit so it should be properly treated.





# **INVESTIGATION ON PROPERTIES OF BRICK MADE FROM PLASTIC BOTTLE WASTE AND SAND**

**A PROJECT REPORT**

*Submitted by*

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**T. DEEPAN PANDI - 920818103701**

*In partial fulfillment for the award of the degree*

*Of*

**BACHELOR OF ENGINEERING**

**IN**

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**ANNA UNIVERSITY: CHENNAI 600 025**

**JUNE 2022**



**ANNA UNIVERSITY: CHENNAI 600025**

**BONAFIDE CERTIFICATE**

Certified that this project report **“INVESTIGATION ON PROPERTIES OF BRICK MADE FROM PLASTIC BOTTLE WASTE AND SAND”** is the Bonafide work of **N.AJAY KANNAN (920818103001), T. DEEPAN PANDI (920818103701)** who carried out the project work under my supervision.

  
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## ABSTRACT

The project report discusses on the effect of plastic waste with sand in construction work. In this project the research undertaken on the material plastic wastes to use that material in construction Industries, to keep environment safe and is to improve the compressive strength because brick should have high load carrying capacity, absorption property in Load bearing structures. Trial and error method is used for whole investigation works while calculating quantity of materials. In this research work 1:2, 1.1 : 2 and 1.2 : 2 ratio bricks are casted. There are better results in various properties like compressive strength, water absorption test, impact test, efflorescence test, shape test for plastic bricks when compared to conventional brick. In this research, 1:2 ratio gives better results when compared to other ratios.



## CHAPTER – 8

### CONCLUSION

Plastic soil brick possesses more advantages which includes cost efficiency, resource efficiency, etc., Plastic soil brick is also known as “Eco-Bricks” made of plastic waste which is otherwise harmful to all living organisms can be used for construction purposes. It increases the compressive strength when compared to burnt bricks. By use of plastic soil bricks, the water absorption presence of alkalis was highly reduced.



# EXPERIMENTAL INVESTIGATION ON MECHANICAL BEHAVIOUR OF FIBRE REINFORCED CONCRETE

A PROJECT REPORT

*Submitted by*

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**K.RAJA** - 920818103502

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**JUNE 2022**



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Submitted for the viva-voce Examination held at NPR College of  
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## ABSTRACT

Reinforced Concrete is the mostly commonly used in construction, for gaining more strength and durability of the structure. Researchers are coming to find out addition of material using composite material, so as to increase the life time of the structure. Now-a-days natural fibers are becoming good choice as they are cheap, light weight, good strength, and high stiffness properties, safe to manufacture, recyclable, bio-degradable and eco-friendly. Even though the natural fiber composite preparation is a time-consuming process it is preferred as it is available enormously with low cost. Many research work which are carried out recently shows their wide usage in replacing the conventional materials. In this project work, 10mm, 6mm TMT rods are winded with glass fiber with epoxy resin and the hybrid TMT rod composite are fabricated using hand lay-up method and this TMT rod is casted with beam to determine the flexural strength and deflection of the specimen.



## CHAPTER 10

### CONCLUSION

The CFFRC has shown gradual increase when compared to Reinforced Concrete, 10% of increase is shown in CFFRC. Load attained from CFFRC has more strength than RC. Flexural Strength of CFFRC beam has shown valuable increase in strength. The deflection occurred from CFFRC beam has an increase of 2.5% more than RC beam. From, this durability of the structure varies from RC structure.

- ❖ In compressive strength and split tensile strength, the addition of coconut fiber the strength is increasing linearly up to 0.5%, 1%, and then it is decreasing 1.5%.
- ❖ It is concluded that the strength is increasing while increasing the percentage of Coconut fiber up to 0.5%, 1%. After 1% the strength is reducing.
- ❖ Finally concluded that Coconut fiber can be added upto 1%.



18/08/2021

To

The Principal,  
NPR College of Engineering & Technology,  
Natham, Dindigul- 624 401.

Sir,


Sub: Acceptance letter for Internship — reg.

With reference to your letter dated on 13/08/2021 regarding Internship for your student, It is to inform that our competent authority has given consent to accommodate Ms.S.Krithikha, Reg. No: 920820413001 for Internship at our concern from 24/08/2021 to 23/09/2021.

Note : Bring the Bonafide certificate at the time of joining for training.

  
For Chettinadu Constructions



  
**Dr. J.SUNDARARAJAN,**  
B.E., M.Tech., Ph.D.,  
Principal  
N.P.R. College of Engineering & Technology  
Natham, Dindigul (Dt) - 624 401.

23/09/2021

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms. S. KRITHIKHA**, student of I year , M.E., Structural Engineering from NPR College of Engineering & Technology, Natham, Dindigul has undergone internship in our construction from 24/08/2021 to 23/09/2021. She completed her training on drafting plan drawing successfully. Her attendance and performance during training was found good.

We wish her all success and well place in life.



For Chettinad Constructions



**Dr. J.SUNDARARAJAN,**  
B.E., M.Tech., Ph.D.,  
Principal  
N.P.R. College of Engineering & Technology  
Natham, Dindigul (Dt) - 624 401.





**caaliber**  
CONSTRUCTION  
Degree of Excellence

Er.S.Senthil Kumar, DCE.,B.E.(Civil)  
Proprietor  
Registered Engineer- Madurai Corporation  
Mobile: +91-98439 73537

Date: 05.08.2021

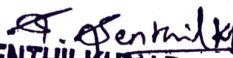
To


The Principal  
NPR College of Engineering & Technology  
Natham,  
Dindigul-624 401

Sir,

**Sub: Internship – reg.**

It is to inform that your request letter regarding confirmation of Internship for **K.Lakshmidhevi** of Third year B.E., Civil Engineering. Internship is scheduled for her from 09.08.2021. During the training, the student have to abide the rules and ensure their safety.

  
**Er. S. SENTHILKUMAR, DCE., B.E.(Civil)**  
Proprietor - Caaliber Construction,  
12-51, Nethaji Main Road, New Vilangudi,  
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Address: 12-51 Nethaji main road, New Vilangudi, Madurai- 625 018.

Mail: [senthilkumar@caaliberconstruction.com](mailto:senthilkumar@caaliberconstruction.com)

Website: [www.caaliberconstruction.com](http://www.caaliberconstruction.com)



**caaliber**  
CONSTRUCTION  
Degree of Excellence

Er.S.Senthil Kumar, DCE.,B.E.(Civil)  
Proprietor  
Registered Engineer- Madurai Corporation  
Mobile: +91-98439 73537


Date: 07.09.2021

**TO WHOMSOEVER IT MAY CONCERN**

This to certify that **Ms. K. Lakshmidevi** student from Third year B.E., Civil Engineering, NPR College of Engineering & Technology has successfully completed her Internship in Madurai site. During the period of training from 09.08.2021 to 07.09.2021, her conduct was good.

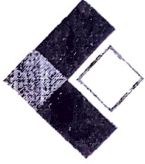
  
**Er. S. SENTHILKUMAR, DCE., B.E.(Civil)**  
Proprietor - Caaliber Construction,  
12-51, Nethaji Main Road, New Vilangudi,  
Madurai - 625 018.



  
**Dr. J.SUNDARARAJAN,**  
B.E., M.Tech., Ph.D.,  
Principal  
N.P.R. College of Engineering & Technology  
Natham, Dindigul (Dt) - 624 401.

Address: 12-51 Nethaji main road, New Vilangudi, Madurai- 625 018.  
Mail: [senthilkumar@caaliberconstruction.com](mailto:senthilkumar@caaliberconstruction.com)  
Website: [www.caaliberconstruction.com](http://www.caaliberconstruction.com)





## WALLS INFRA Constructions

42B, Renga Residency, 1<sup>st</sup> Street,  
Ramakrishna Layout, TVS Nagar,  
Edavarnalavam. Coimbatore - 641025

Mail: vimal@wallsinfra.com

Mobile: +91-9585712310

Date: 10/08/2021

To

The Principal  
NPR College of Engineering & Technology  
Natham,  
Dindigul-624 401.

Sir,

**Sub: Internship – reg.**

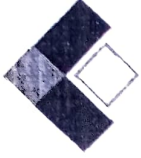
With reference to your request letter regarding Internship training for **Mr.N.Ajaykannan and Mr.T.Deepan Pandi of Third year, Civil Engineering** is confirmed. Internship will begin for them from 13/08/2021. The students have to follow the rules and safety practices of our concern during the period of internship.

Bring the Bonafide certificate at the time of joining.

Thank you



**Dr. J.SUNDARARAJAN,**  
B.E., M.Tech., Ph.D.  
Principal  
N.P.R. College of Engineering & Technology  
Natham, Dindigul (Dt) - 624 401.



## **WALLS INFRA Constructions**

42B, Renga Residency, 1<sup>st</sup> Street,  
Rafhakrishna Layout, TVS Nagar,  
Edayarpalayam, Coimbatore - 641025

Mail: vimal@wallsinfra.com

Mobile: +91-9585712310

### **TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Mr. N.Ajaykannan , III year, B.E., Civil Engineering, NPR College of Engineering & Technology, Natham, has completed his internship in site maintenance and site execution during the period 13/08/2021 to 10/09/2021.

Date: 10/09/2021



**Dr. J.SUNDARARAJAN,**

B.E., M.Tech., Ph.D.,

Principal

N.P.R. College of Engineering & Technology  
Natham, Dindigul (Dt) - 624 401.



## **WALLS-INFRA Constructions**

42B, Renga Residency, 1<sup>st</sup> Street,  
Ramakrishna Layout, TVS Nagar,  
Edayarpalayam, Coimbatore - 641025

Mail: vimal@wallsinfra.com

Mobile: +91-9585712310

### **TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Mr. T.Deepan pandi**, III year, B.E., Civil Engineering, **NPR College of Engineering & Technology, Natham**, has completed his internship in site maintenance and site execution during the period 13/08/2021 to 10/09/2021

Date: 10/09/2021



**Dr. J.SUNDARARAJAN,**

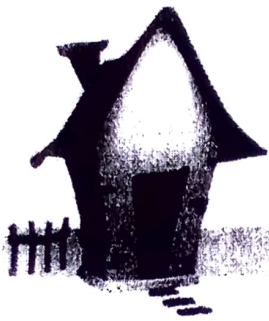
B.E., M.Tech., Ph.D.,

Principal

**N.P.R. College of Engineering & Technology**

Natham, Dindigul (Dt) - 624 401.





**Sona Builders**  
Engineers & Contractors

**Er. P. Senthilkumar**

Date: 05.08.2021

To

The Principal,  
NPR College of Engineering & Technology,  
Natham,  
Dindigul - 624 401.

Sir,

Sub: Internship - reg.

Ref: your letter dated on 03.08.2021

On behalf of Sona Builders, we would like to notify you of this opportunity for internship to Ms. S. Harini and Ms. M. Ramalakshmi of final year, Civil Engineering is scheduled from 09.08.2021 to 10.09.2021 at our Ramanathapuram site.

Thank you



For Sona Builders Engineers & Contractors

With regards  
Er. P. Senthilkumar  
Proprietor

**Dr. J. SUNDARARAJAN,**  
B.E., M.Tech., Ph.D.,  
Principal  
N.P.R. College of Engineering & Technology  
Natham, Dindigul (Dt) - 624 401.

2/408/2, F - Block, MVM Nagar Extn., Dindigul - 624 003.  
Ph: 0451 2424346, Cell: 96984 46611, E-mail: sonasenthil123@yahoo.co.in

Tin No.33675340834



**Sona Builders**  
Engineers & Contractors

**Er. P. Senthilkumar**

**Date: 11.09.2021**


**TO WHOM IT MAY CONCERN**

This is to certify that **Ms. S. Harini (920818103002)**, B.E. Civil Engineering from NPR College of Engineering & Technology, Natham has successfully completed her internship during the period 09.08.2021 to 10.09.2021.



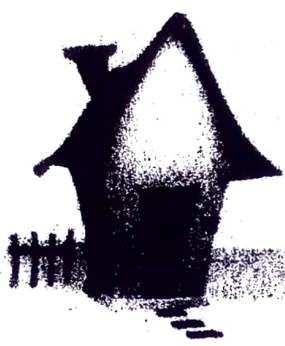
**For Sona Builders Engineers & Contractors**

  
**Er. P. Senthilkumar**  
Proprietor

  
**Dr. J. SUNDARARAJAN,**  
B.E., M.Tech., Ph.D.  
Principal  
N.P.R. College of Engineering & Technology  
Natham, Dindigul (Dt) - 624 401.

2/408/2, F - Block, MVM Nagar Extn., Dindigul - 624 003.  
Ph: 0451 2424346, Cell: 96984 46611, E-mail: sonasenthil123@yahoo.co.in  
Tin No. 33675340834





**Sona Builders**  
Engineers & Contractors

**Er. P. Senthilkumar**

**Date: 11.09.2021**

**TO WHOM IT MAY CONCERN**

This is to certify that **Ms. M. Ramalakshmi (920818103008)**,  
B.E. Civil Engineering from NPR College of Engineering & Technology,  
Natham has successfully completed her internship during the period  
09.08.2021 to 10.09.2021.



**For Sona Builders Engineers & Contractors**

  
**Er. P. Senthilkumar**  
Proprietor

  
**Dr. J. SUNDARARAJAN,**

B.E., M.Tech., Ph.D.

Principal

**N.P.R. College of Engineering & Technology**  
Natham, Dindigul - 624 401.

2/408/2, F - Block, MVM Nagar Extn., Dindigul - 624 003.  
Ph: 0451 2424346, Cell: 96984 46611, E-mail: sonasenthil123@yahoo.co.in

Tin No.33675340834

Date: 07.08.2021

To

The Principal  
NPR Collège of Engineering & Technology,  
Natham,  
Dindigul-624 401

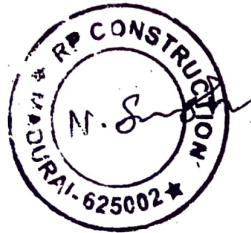
Sir,

Sub: Letter of Acceptance for Internship – reg.

Ref: your letter dated 04.08.2021

This letter is to confirm you that Ms. K.Kalyani, Ms.T.Manobharathi and Ms.S.Yuvashree of III year Civil Engineering students has been offered Internship from 12.08.2021 to 11.09.2021.

For RP Construction



**Dr. J.SUNDARARAJAN,**

B.E., M.Tech., Ph.D.

Principal

N.P.R. College of Engineering & Technology  
Natham, Dindigul (Dt) - 624 401.



G16, Race Course Colony, New Natham Road, Madurai – 625 002.

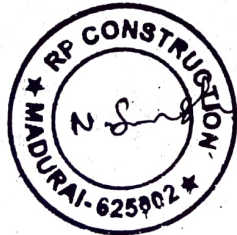
Date: 11.09.2021

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms. S.Yuvashree**, Reg. No: **920818103011**, III year, B.E., Civil Engineering, NPR College of Engineering & Technology, Natham, has completed her internship in our construction from 12.08.2021 to 11.09.2021.

During the tenure of training her conduct was found good.

For RP Construction



**Dr. J.SUNDARARAJAN,**

B.E., M.Tech., Ph.D.

Principal

**N.P.R. College of Engineering & Technology**  
Natham, Dindigul (Dt) - 624 401



Date: 11.09.2021

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms. T.Manobharathi**, Reg. No: **920818103006**, III year, B.E., Civil Engineering, NPR College of Engineering & Technology, Natham, has completed her internship in our construction from 12.08.2021 to 11.09.2021.

During the tenure of training her conduct was found good.



For RP Construction



**Dr. J.SUNDARARAJAN,**  
B.E., M.Tech., Ph.D.  
Principal  
N.P.R. College of Engineering & Technology  
Natham, Dindigul (Dt) - 624 401.



G16, Race Course Colony, New Natham Road, Madurai – 625 002.

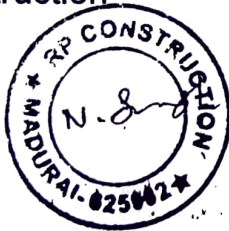
Date: 11.09.2021


**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms. K.Kalyani**, Reg. No: **920818103003**, III year, B.E., Civil Engineering, NPR College of Engineering & Technology, Natham, has completed her internship in our construction from 12.08.2021 to 11.09.2021.

During the tenure of training her conduct was found good.

For RP Construction



  
**Dr. J.SUNDARARAJAN,**  
B.E., M.Tech., Ph.D.  
Principal  
N.P.R. College of Engineering & Technology  
Natham, Dindigul (Dt) - 624 401.





G16, Race Course Colony, New Natham Road, Madurai – 625 002.

Date: 09.02.2022

To

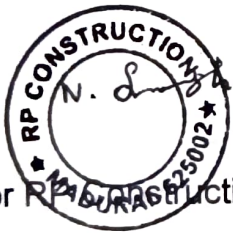
The Principal  
NPR College of Engineering & Technology,  
Natham,  
Dindigul-624 401

Sir,

Sub: Letter of Acceptance for Internship – reg.


Ref: your letter dated 02.02.2022

This letter is to confirm you that Mr.K.Alagar, Mr.G.Mohanraj and Mr.B.Sundaraprakadeeswaran of II year Civil Engineering students has been offered Internship from 16.02.2022 to 04.03.2022.



For RP Construction



  
**Dr. J.SUNDARARAJAN,**  
B.E., M.Tech., Ph.D.,  
Principal  
N.P.R. College of Engineering & Techno.  
Natham, Dindigul (Dt) - 624 401.





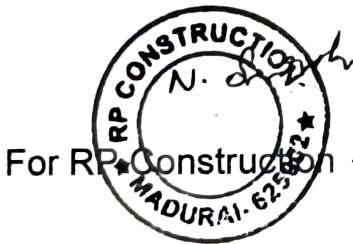
G16, Race Course Colony, New Natham Road, Madurai – 625 002.

Date: 04.03.2022

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms. K. Alagar, Reg. No: 920820103001**, II year, B.E., Civil Engineering, NPR College of Engineering & Technology, Natham, has completed his internship in our construction from 16.02.2022 to 04.03.2022.

During the tenure of training his conduct was found good.



**Dr. J. SUNDARAJAN,**  
B.E., M.Tech., Ph.D.,  
Principal  
N.P.R. College of Engineering & Technology  
Natham, Dindigul (Dt) - 624 401.





G16, Race Course Colony, New Natham Road, Madurai – 625 002.

Date: 04.03.2022

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms. G. Mohanraj, Reg. No: 920820103006**, II year, B.E., Civil Engineering, NPR College of Engineering & Technology, Natham, has completed his internship in our construction from 16.02.2022 to 04.03.2022.

During the tenure of training his conduct was found good.



For RP CONSTRUCTION



**Dr. J.SUNDARARAJAN,**  
B.E., M.Tech., Ph.D.,  
Principal  
N.P.R. College of Engineering & Technology  
Natham, Dindigul (Dt) - 624 401.

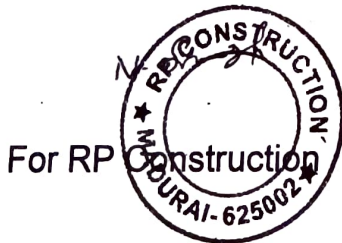


Date: 04.03.2022

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms. B.Sundaraprakadeeswaran, Reg. No: 920820103010**,  
II year, B.E., Civil Engineering, NPR College of Engineering & Technology,  
Natham, has completed his internship in our construction from 16.02.2022 to  
04.03.2022.

During the tenure of training his conduct was found good.



**Dr. J.SUNDARARAJAN,**  
B.E., M.Tech., Ph.D.,  
Principal  
N.P.R. College of Engineering & Technology  
Natham, Dindigul (Dt) - 624 401.





**Sona Builders**  
Engineers & Contractors

**Er. P. Senthilkumar**

Date: 11.02.2022

To

The Principal,  
NPR College of Engineering & Technology,  
Natham,  
Dindigul - 624 401.


Sir,

Sub: Internship – reg.

Ref: your letter dated on 04.02.2022

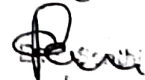
On behalf of Sona Builders, we would like to notify you of this opportunity for internship to Ms.Yazhini S and Ms.Srilakshmi S of second year, Civil Engineering is scheduled from 15.02.2022 to 05.03.2022 at our Ramanathapuram site.

Thank you

  
**Dr. J.SUNDARAJAN,**  
B.E., M.Tech., Ph.D.,  
Principal  
N.P.R. College of Engineering & Technology  
Natham, Dindigul (Dt) - 624 401.

For Sona Builders Engineers & Contractors

With regards

  
Er. P. Senthilkumar  
Proprietor



2/408/2, F - Block, MVM Nagar Extn., Dindigul - 624 003.  
Ph: 0451 2424346, Cell: 96984 46611, E-mail: sonasenthil123@yahoo.co.in

Tin No.33675340834





**Sona Builders**  
Engineers & Contractors

**Er. P. Senthilkumar**

**Date: 05.03.2022**

**TO WHOM IT MAY CONCERN**

This is to certify that **Ms. S. Srilakshmi (920820103312)**, B.E. Civil Engineering from NPR College of Engineering & Technology, Natham has successfully completed her internship during the period 15.02.2022 to 05.03.2022.



**Dr. J. SUNDARARAJAN,**  
B.E., M.Tech., Ph.D.,  
Principal  
N.P.R. College of Engineering & Technology  
Natham, Dindigul (Dt) - 624 401.

**For Sona Builders Engineers & Contractors**

**Er. P. Senthilkumar**  
Proprietor

2/408/2, F - Block, MVM Nagar Extn., Dindigul - 624 003.  
Ph: 0451 2424346, Cell: 96984 46611, E-mail: sonasenthil123@yahoo.co.in

**Tin No.33675340834**



**Sona Builders**  
Engineers & Contractors

**Er. P. Senthilkumar**

**Date: 05.03.2022**

**TO WHOM IT MAY CONCERN**

This is to certify that **Ms. S. Yazhini (920820103014)**, B.E. Civil Engineering from NPR College of Engineering & Technology, Natham has successfully completed her internship during the period 15.02.2022 to 05.03.2022.



**Dr. J.SUNDARARAJAN,**  
B.E., M.Tech., Ph.D.,  
Principal

N.P.R. College of Engineering & Technology  
Natham, Dindigul (Dt) - 624 401.

For Sona Builders Engineers & Contractors

  
Er. P. Senthilkumar  
Proprietor

2/408/2, F - Block, MVM Nagar Extn., Dindigul - 624 003.  
Ph: 0451 2424346, Cell: 96984 46611, E-mail: sonasenthil123@yahoo.co.in

Tin No.33675340834



# NPR College of Engineering & Technology

NPR Nagar, Natham, Dindigul - 624401, Tamil Nadu, India.  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai.

An ISO 9001:2015 Certified Institution.

Phone No: 04544- 246 500, 246501, 246502.

Website : [www.nprcolleges.org](http://www.nprcolleges.org), [www.nprcet.org](http://www.nprcet.org), Email: [nprcetprincipal@nprcolleges.org](mailto:nprcetprincipal@nprcolleges.org)



07.09.2021

From

Dr. A. Hemalatha  
Head of the Department,  
Department of Civil Engineering,  
NPR College of Engineering and Technology,  
Natham - 624401.

To

Walls Infra Constructions,  
42 B Renga residency 1<sup>st</sup> street  
Ramakrishna Layout, TVS nagar,  
Edavarplayam, Coimbatore - 641025

Respected sir,

Subject: Requesting permission for one day visit to Agro farm construction site on  
18.09.2021 – Regarding.

NPR College of Engineering is Technology is one of the premier institution located in  
Natham, Dindigul. We are offering 6 UG programmes and 2 PG Programmes in Engineering and  
MBA.

Hereby I request permission for one day visit to your construction site for Civil  
Engineering students (II, III and IV year). This visit will be useful for them to have good practical  
knowledge about construction of agro farms. So kindly grant the permission for 42 students and 3  
faculties on 18.09.2021 (Saturday).

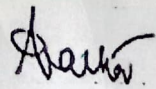
Thanking you,

Yours faithfully,

Place : Natham

Date: 07/09/2021



  
Dr. A. Hemalatha





# NPR College of Engineering & Technology

NPR Nagar, Natham, Dindigul - 624401, Tamil Nadu, India.  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai.

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Phone No: 04544- 246 500, 246501, 246502.

Website : [www.nprcolleges.org](http://www.nprcolleges.org), [www.nprcet.org](http://www.nprcet.org), Email: [nprcetprincipal@nprcolleges.org](mailto:nprcetprincipal@nprcolleges.org)



## ACCEPTANCE FOR INDUSTRIAL VISIT FROM INDUSTRY



### WALLS INFRA Constructions

42B, Renga Residency, 1<sup>st</sup> Street,  
Ramakrishna Layout, TVS Nagar,  
Edavarnalavam, Coimbatore - 641025

Mail: [vimal@wallsinfra.com](mailto:vimal@wallsinfra.com)

Mobile: +91-9585712310

Date: 10/09/2021

To

The Head of the Department,  
Department of Civil Engineering  
NPR College of Engineering & Technology  
Natham,  
Dindigul-624 401.

Sir,

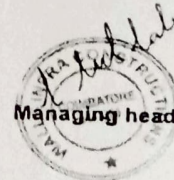
Sub : Industrial visit – permission granted – regard.

Ref : your letter dated 07/09/2021

With reference to your request letter, permission is granted for one day visit to agro farm construction site, Coimbatore for your students along with faculties on 18/09/2021.

The faculties and students should abide the rules & regulations and industrial safety practices during the Industrial visit with suitable PPE's within the project premises.

Thank you



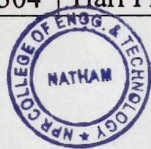


### DEPARTMENT OF CIVIL ENGINEERING

### INDUSTRIAL VISIT TO AGRO FARMS CONSTRUCTION, WALLS INFRA CONSTRUCTION, COIMBATORE on 18.09.2021

#### STUDENT NAME LIST

S.No.	Register Number	Student Name	Year / Dept.
1	920819103001	Arun Kumar N	III-Civil
2	920819103002	Jeevitha C	III-Civil
3	920819103003	Naveenraj S	III-Civil
4	920819103004	Sanjay K	III-Civil
5	920819103005	Saranya Devi S	III-Civil
6	920819103007	Subash S	III-Civil
7	920819103008	Sudharsan K	III-Civil
8	920819103009	Venkatesan R	III-Civil
9	920819103301	Nithishkumar A R	III-Civil
10	920819103302	Purusothaman K	III-Civil
11	920819103303	Sachin R	III-Civil
12	920819103304	Kishore S P	III-Civil
13	920820103001	Alagar K	II-Civil
14	920820103002	Anandhan Alaguvel P	II-Civil
15	920820103003	Chandira Moorthi B	II-Civil
16	920820103004	Gowtham C	II-Civil
17	920820103005	Harish M	II-Civil
18	920820103006	Mohanraj G	II-Civil
19	920820103007	Naveen Kumar S	II-Civil
20	920820103008	Pranaveshvar J S	II-Civil
21	920820103009	Sharan Sakthivel J	II-Civil
22	920820103010	Sundaraprakadeeswaran B	II-Civil
23	920820103011	Suriya M	II-Civil
24	920820103012	Vijaya Sri Hari I	II-Civil
25	920820103013	Vikneshwaran S	II-Civil
26	920820103014	Yazhini.S	II-Civil
27	920820103301	Alex Pandi.M	II-Civil
28	920820103302	Arul Murugan M	II-Civil
29	920820103303	Gunapandi T	II-Civil
30	920820103304	Hari Prasath M	II-Civil







# NPR College of Engineering & Technology

NPR Nagar, Natham, Dindigul - 624401, Tamil Nadu, India.  
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Phone No: 04544- 246 500, 246501, 246502.

Website : [www.nprcolleges.org](http://www.nprcolleges.org), [www.nprcet.org](http://www.nprcet.org), Email [nprcetprincipal@nprcolleges.org](mailto:nprcetprincipal@nprcolleges.org)

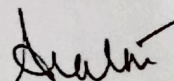


31	920820103305	Jegan.S	II-Civil
32	920820103307	Logeshwaran	II-Civil
33	920820103308	Naveen Prasad R	II-Civil
34	920820103309	Parthiban R	II-Civil
35	920820103310	Prithviraj T	II-Civil
36	920820103311	Rajvignesh R	II-Civil
37	920820103312	Srilakshmi S	II-Civil
38	920820103313	Tatta Thamimul Ansari M	II-Civil
39	920820103314	Thiraviyam S	II-Civil
40	920820103315	Videshwaran R	II-Civil
41	920820103316	Vignesh K	II-Civil
42	920820103317	Dhanalakshmi P	II-Civil

## STAFF NAME LIST

S.NO	NAME
1	Mr. C. Vijayakumar AP/Civil
2	Mr. N. Karthic, AP/Civil
3	Mrs. S. Premasundari , AP/Civil



  
HOD - CIVIL

**Head of the Department**  
Department of Civil Engineering  
NPR College of Engineering & Technology  
Natham, Dindigul (DT) - 624 401.





# NPR College of Engineering & Technology

NPR Nagar, Natham, Dindigul - 624401, Tamil Nadu, India.  
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Phone No: 04544- 246 500, 246501, 246502.

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## INDUSTRIAL VISIT TO AGRO FARMS CONSTRUCTION, WALLS INFRA CONSTRUCTION, COIMBATORE on 18.09.2021

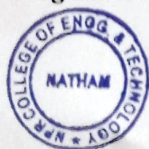
### PHOTO GALLERY



Site Engineer explaining the construction practices followed in agro farm construction



Site Engineer explaining the foundation work followed in agro farm construction





## INDUSTRIAL VISIT TO AGRO FARMS CONSTRUCTION, WALLS INFRA CONSTRUCTION, COIMBATORE on 18.09.2021

### SUMMARY REPORT

Industrial visit has been arranged to Agro farm construction for all the II, III Year Civil Engineering students on 18/09/2021 which is being constructed by Walls Infra Construction coimbatore .

The trip to Agro farm construction started from Madurai at 5.15 a.m. Students boarded at Natham Bus stand at 6.30 a.m. At 6.45 students boarded from NPRCET. At 7.35 a.m., Students boarded at Dindigul. Students had their breakfast in Palani by 9.15 a.m. and started towards Coimbatore at 9.50 a.m. and reached the construction site of agro farms at 12.10 p.m.

The construction site of chicken farm at Coimbatore which is a wind zone, which had its main block and its staff resident in the chettinadu style of construction. The construction site was 200 acres and the overall construction cost of the project was estimated up to 2000 crores. It consisted of the following structures.

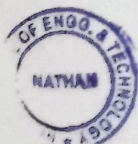
1. Main Admin Block
2. Staff resident
3. Waste water treatment plant
4. Feed storage godown
5. And a circular overhead water tank

### MAIN ADMIN BLOCK

The main admin block was located at rear end of the whole plan. The reason for the orientation of admin block was explained by Mr. Malai Raman, site supervisor. The roof of the admin block was designed as a sloped roof from the center to provide an aesthetic look. The site supervisor explained about the different types of structural elements that have been constructed. The chance to see visualize the beams as real time example was provided for the students. Draft beams, fixed and hinged beams were explained with the real time example before the eyes of the student by the site supervisor and staff members. The plan of the admin block was provided for the view of students.

### STAFF RESIDENTS

Being a poultry farm the staff members are required to stay every hour of the day and year taking care of the poultry. Staff residents were built with synchronization with the style of the admin block.





Each staff resident is an individual structure with one HBK, Which was provided with unique styled and designed windows according the official modern look.

### WASTE WATER TREATMENT PLANT

Water being a most precious and essential component of every life form, a waste water treatment plant was designed and on construction process at the site

Waste grey water from the all blocks were directed towards the treatment area, which consisted of the following component.

1. Aeration tank
2. Screening tank
3. Coagulation tank
4. Reaction tank
5. Storage tank

The reinforcement details of the each tank were shown and explained to the students.

### FEED STORAGE /GODOWN

The earth excavation work was going on for the foundation construction of the structure.

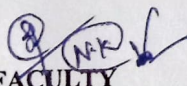
Marking and the execution of the plan marking were spoken out to the students and an idea of marking for large structures were given to them

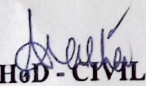
The students interacted with Engineers and got clarified their doubts. After field visit, the students started from the site at 4.15 p.m., had their refreshment in Palani at 6.45 p.m. and reached our campus at 10.15 p.m.

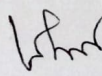
### Outcome:

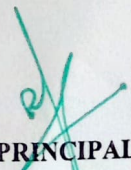
The overall industrial visit gave the students a vivid view of knowledge about the construction process and implementation of the construction techniques practically. The students got a real time and practical knowledge about being a successful professional with exposure to the construction area



  
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