

3.1- Resource Mobilization for Research

3.1.1. Grants received from Government agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)

INDEX

Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co-investigator	Amount Sanctioned in Rs (Lakhs)	Name of the Funding Agency	Page No. From - To
Self -renovation of building crack with biological action	Mr.Belin Jude	0.075	TNSCST	3-16
Tree shifting and replantation mechanism	L.S.Narenthira	0.075	TNSCST	
Remote Operated Trash Skimmer for Lake	L.S.Narenthira	0.075	TNSCST	17-18
Design and Fabrication of Fume Arrester Using Peanut Shell Biofilter for Arc Welding Application	Mr.M.Visvam	0.075	TNSCST	

3.1.1.1 Total Grants from Government agencies for research projects, Endowments, Chairs in the institution during the last five years (INR in Lakhs)

Academic Year	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020
INR in Lakhs	0/-	0/-	0/-	0.15	0.15

A. S. S.
PRINCIPAL
M.I.E.T. ENGINEERING COLLEGE
GUNDUR, TIRUCHIRAPPALLI-620 007.



M.I.E.T. ENGINEERING COLLEGE

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UG - CSE, EEE & MECH Programs Accredited by NBA, New Delhi.

(An ISO 9001:2015 Certified Institution)

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Email: principalengg@miet.edu, contact@miet.edu

Website: - www.miet.edu



Ph: 0431 - 2660 303

3.1.3. Percentage of departments having Research projects funded by government and non-government agencies during the last five years.

3.1.3.1: Number of departments having Research projects funded by government and non-government agencies during the last five years

Year	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020
Number of Department having Research projects	4	4	4	4	1
Total number of Department	6	6	6	6	6
Percentage year wise	66.66	66.66	66.66	66.66	16.66


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TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
 (Established by Government of Tamilnadu)
 Directorate of Technical Education Campus, Chennai – 600 025.
 Ph : 044-22301428, Telefax : 044-22301552 www.tanscst.nic.in

Dr.R.SRINIVASAN, M.Sc., Ph.D.,F.I.C.S., M.A.C.S.(USA),
 Member Secretary

Lr.No.TNSCST/SPS/AR/2018-2019

18.02.2019

To
 The Principal
 M.I.E.T. Engineering College
 Trichirapalli - 620007

M.I.E.T.ENGG.COLLEGE-TRICHY-7.	
DATE	: 8/3/19
INWARD No	: 2991
DEPT/SECTION	: TNSCST
PRINCIPAL	

Sir/Madam,

Sub: TNSCST – Student Project Scheme – 2018-2019 – approval
 intimation–grant release- reg.

With respect to the above scheme, the list of projects approved by the State Council is enclosed along with terms and conditions. Kindly read and ensure adherence to the terms and conditions such as submission of UC and seminar paper in time.

Kindly find enclosed here with the cheque for the approved grant and disburse the grant to the concerned students through the guides at the earliest.

Kindly send the utilisation certificate (format enclosed) and seminar paper (ref.T&C-no.5&6) on completion of the project.

Thanking you,

Yours faithfully,

[Signature]
 Member Secretary

- Encl: a) Terms & Conditions (T&C)
 b) Format of Utilisation Certificate (UC)
 c) Cheque for Rs 15000/- No: 795156 dt:18.02.2019.

Copy to: Individual Guides

[Signature]
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 GUNDUR, TIRUCHIRAPALLI - 620 007



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(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)
TRICHY-PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI - 620 007.

Ph : 0431 - 2660 303 | Fax: 2660 264 & 2660 550

Email : principalengg@miet.edu, contact@miet.edu & mietenggooffice@gmail.com
www.miet.edu

Dr. X. SUSAN CHRISTINA, M.E., Ph.D.,

Date : 30.04.2019

Principal

To

The Member Secretary,
Tamil Nadu State Council for Science and Technology,
DOTE Campus,
CHENNAI - 600 025

Sir,

Sub: Submission of TNSCST Project Utilization Certificate for the selected projects - reg.

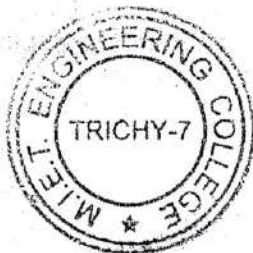
It is bring to your kind notice that the following students' projects proposal have been selected under Tamilnadu State Council for Science and Technology (TNSCST) students project scheme.

S.No	Dept.	Name of the Supervisor	Project Code	Title of the Project	Students Name	Grant Amount sanctioned
1.	Civil	A Belin Jude Assistant Professor	ECV - 028	Self Renovation of Building Cracks with Biological Action	1. B Abdul Aziez 2. R M Anumantha Arasan Govan 3. M. Mahaboob Shareef 4. K Muhammed	7500/-
2.	Mech	L.S.Narendhira Assistant Professor	EME - 006	Tree Shifting and Replantation Mechanism	1.I.Selvabarathi 2.S.Salik Mohammed 3.T.Susendra Vasan 4.S.Vigneshraja	7500/-


Herewith we enclosed the Utilization Certificate for the same.

Thanking you,

Yours faithfully,




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The Principal, M.T.E.T. Engineering College, Tiruchy या धारक को OR BEARER

PEES रुपये fifteen thousand only

अदा करें ₹ 15,000/-

खा.सं.
A/c No. SB 479135159

FOR MEMBER SECRETARY TN STATE COUNCIL FOR SCIENCE & TECHNOLOGY

CBS Code: 01636

[Signature]

AUTHORISED SIGNATORY

PAYABLE AT PAR AT ALL OUR BRANCHES

Please sign above

992000067

⑈ 795156 ⑈ 6000191191 ⑈ 135159 ⑈ 31

[Signature]
PRINCIPAL
MIET ENGINEERING COLLEGE
SUNDUR, TIRUCHIRAPALI - 620 007

Refer
④

**SELF RENOVATION OF BUILDING CRACKS WITH
BIOLOGICAL ACTION**

STUDENTS PROJECT PROPOSAL

1. Name of the Student (s) : B.ABDUL AZIEZ, R.M.ANUMANTHA ARASAN GOVAN,
M. MAHABOOB SHAREEF, K. MUHAMMED

Valid e-mail id : write2abdulaziez@gmail.com , anumanthaaarasan23@gmail.com

2. Name of the Guide : A. BELIN JUDE

Department / Designation : Civil Engineering / Assistant Professor

Institutional Address : M.I.E.T Engineering college, Gundur, Trichy - 07

Phone No.& Mobile No.: 9944113460

3. Project Title : Self Renovation Of Building Cracks With Biological Action

4. Sector in which your Project proposal is to be Considered : Engineering & Technology

INTRODUCTION:

Self renovation work is the process of work where the additional self healing strength is updated into concrete and masonry structures to renovate it, by adding Biological action. In this healing process micro organisms with it's feed, are physically applied over the damaged (cracked) portion of structure. Where the micro organisms are grown with the help of feed and atmospheric moisture, that organisms converted into lime stone and fill the cracks. Then the cracks are fully covered. For this process we chosen the anaerobic bacteria among harmless and suitable types of bacterias are Proteus, Klebsiella, Staphylococcus, Bacillus.

Reason : Among these bacterias "**Bacillus**" type of bacterias are more preferable to apply in concrete. Bacillus is a genus of gram-positive Rod shaped bacteria and member of the polyumfirimicutes. This is an aerobic type of bacteria. It can live around 200 years. It can withstand alkalinity of about more than 10 pH.


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Various cultures of "Bacillus" :

1. Bacillus Pasteurizing.
2. Bacillus Sphaericus.
3. Escherichia Coli.
4. Bacillus Subtilis.
5. Bacillus Cohnil.
6. Bacillus Balodurans.
7. Bacillus Pseudofirmus.

Among these types Bacillus Subtilis and Bacillus Sphaericus are suitable for application in concrete, due to the less availability of Bacillus Sphaericus, we are making trials on using Bacillus Subtilis.

OBJECTIVE;

- To remove the cracks from existing olden structures.
- To renovate the structure in lesser cost.
- To increase the life span of structure.
- Also reduce the duration of renovation.

METHODOLOGY :

Spraying :

In this method feed and bacterias are mixed and diluted together and spray over the cracks using spraying tool.

Coating :

Final bacterial solution is to be painted over the surface of cracks and allow then to fill the cracks.

Injecting :

It is a method of injecting, the bacterial solution forced into the cracked portion to penetrate into the over all depth of the crack

WORK PLAN :

- i. Concrete cubes and mansonry walls are prepared with cracks.
- ii. Measure the depth of crack with the help of X-Ray scanner.
- iii. Then Wiping the cracks.
- iv. After that bacterial solution is applied over the cracks by using any methodology of above.
- v. Bacteria consume the moisture content from atmosphere and intake it's feed and form the limestone, this stone gets hardened to cover the cracks.

BUDGET:

1) Cement	- Rs. 850.00
2) Sand	-Rs. 450.00
3) Coarse Aggregate	-Rs. 450.00
4) Bacillus Subtilis Bacteria	-Rs. 700.00
5) Lactate (Feed)	-Rs. 200.00
6) Sugar (Feed)	-Rs. 100.00
7) Test tubes	-Rs. 300.00
8) Stir rod	-Rs. 20.00
9) Measuring jar	-Rs. 250.00
10) X-Ray test (To find depth of the crack in concrete cube)	- Rs. 12, 500.00

Total =Rs. 15, 850.00

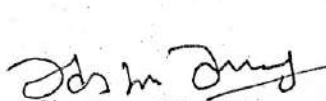
APPARATUS REQUIREMENTS:

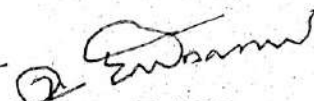

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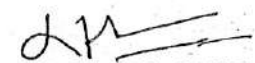
1. Bacillus subtilis.
2. Feed; Calcium lactate & Sugar.
3. Cement.
4. Fine aggregate
5. Coarse aggregate
6. Cube mould
7. Compression machine (For making cracks on cube)
8. Test tube
9. Stir rod
10. Measuring jar

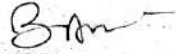
7. Has a similar project been carried out in your college: No

CERTIFICATE This is to certify that Mr.B. ABDUL AZIEZ, Mr. R. M. ANUMANATHA ARASAN GOVAN, Mr.M. MAHABOOB SHAREEF, Mr.K. MUHAMMED are a bonafide final year students of U.G. Engineering courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2019.


Signature of the Guide


Signature of the HOD


Signature of the Principal/ Head of
the Institution

Submitted by, 
B. ABDUL AZIEZ, K. MUHAMMED,
R. M. ANUMANATHA ARASAN GOVAN,
M. MAHABOOB SHAREEF, of
Final year civil engineering
(2015-2019)


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(B)
5-10

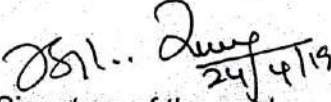
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DOTE CAMPUS, CHENNAI - 600 025

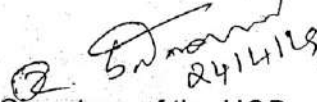
STUDENT PROJECT SCHEME 2018-2019
UTILISATION CERTIFICATE

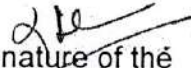
(TWO COPIES)

1. Name of the guide and address : Mr. A. Belin Jude
Assistant Professor
Department of Civil Engineering
M.I.E.T.Engineering College
Trichy - 620007
2. Name of the student(s) : B. Abdul Aziez
R.M.Anumantha Arasan Govan
M. Mahaboob Shareef
K. Muhammed
3. Title of the project : **Self renovation of Building cracks
with biological action**
4. Project code : ECV - 028

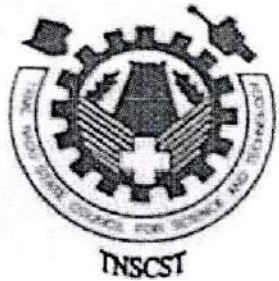
It is certified that a sum of Rs 7500/- (Rupees Seven thousand five hundred)
Sanctioned by the council for carrying out above mentioned student project has been
utilized for the purpose for which it was sanctioned and sum of Rs. Nil remaining
unutilized is refunded.


Signature of the guide


Signature of the HOD

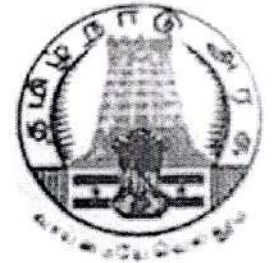

Signature of the
REGISTRAR/PRINCIPAL/DEAN
With SEAL


PRINCIPAL
MIET ENGINEERING COLLEGE
GUNDUR, TIRUCHIRAPALI - 620 007



TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

GOVERNMENT OF TAMILNADU



CERTIFICATE

This is to certify that Mr. Abdul Aziez B., M.I.E.T. Engineering College, Tiruchirapalli - 620007 has successfully completed the project titled "Self renovation of building cracks with biological action" in the Sector **CIVIL ENGINEERING** under STUDENT PROJECT SCHEME sponsored by the Council during the academic year 2018-2019.

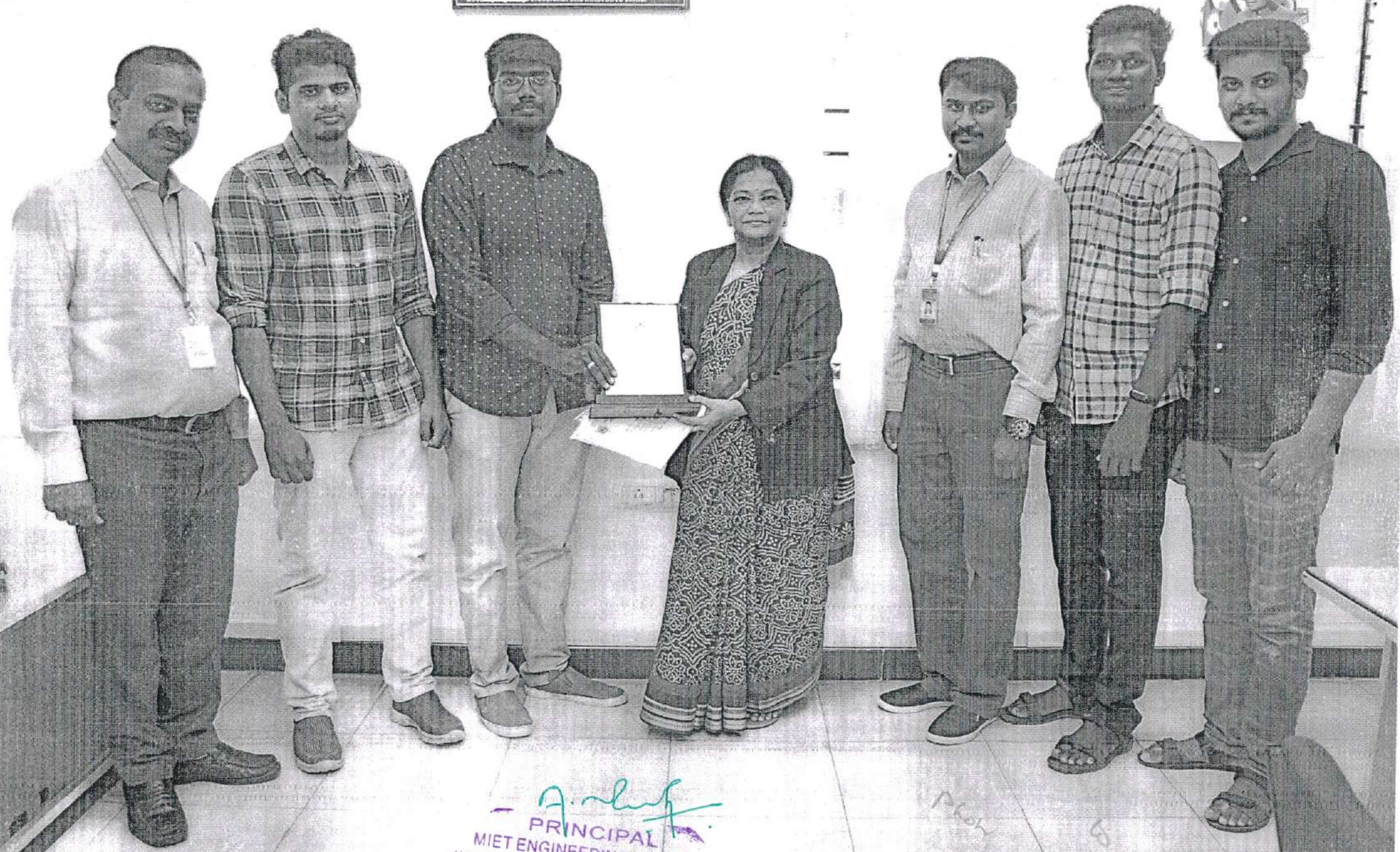
Chennai-600025
20.07.2019

DR.R.SRINIVASAN
Member Secretary


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MIET ENGINEERING COLLEGE
GUNDUR, TIRUCHIRAPALLI - 620 007

fields of engineering and technology.

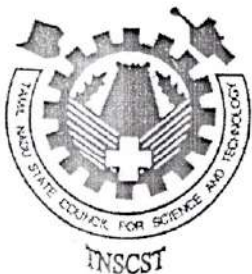
- * To create a conducive learning environment that enables students to acquire knowledge and practical skills.
- * To address the contemporary issues of society, ethical and create environmental awareness.
- * To provide the required infrastructural facilities for professional and innovative skills.



A. Anand
PRINCIPAL
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P. Gov

B



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GOVERNMENT OF TAMILNADU



CERTIFICATE

This is to certify that Ms/Mr. Selvabarathi I., M.I.E.T. Engineering College, Trichy - 620007 has successfully completed the project titled "Tree shifting and replanting mechanism" in the Sector **MECHANICAL ENGINEERING** under **STUDENT PROJECT SCHEME** sponsored by the Council during the academic year 2018-2019.

Chennai-600025
20.07.2019

No.EME-006/2019

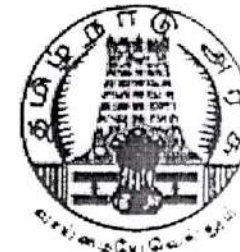
Meel
Srinivasan
DR.R.SRINIVASAN
Member Secretary

A. Subramanian
PRINCIPAL
MIET ENGINEERING COLLEGE
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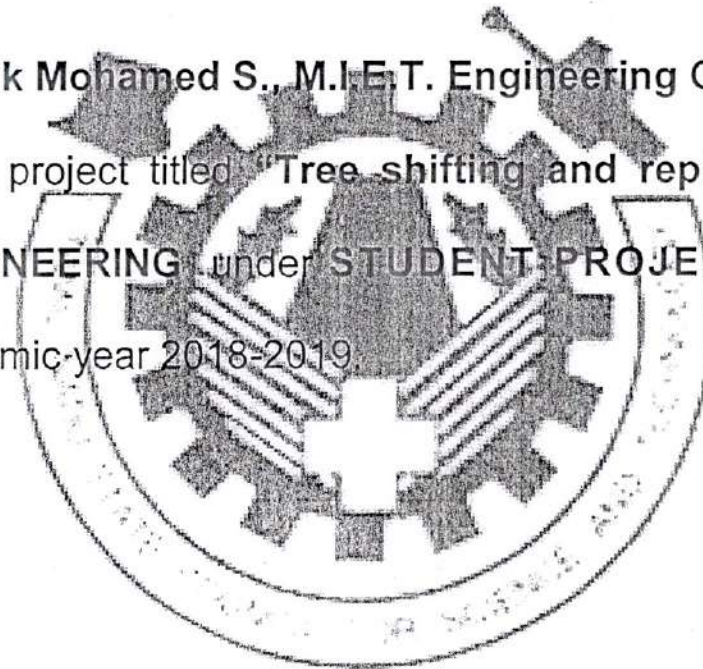
CERTIFICATE

This is to certify that Mr. Salik Mohamed S., M.I.E.T. Engineering College, Trichy - 620007 has successfully completed the project titled "Tree shifting and replanting mechanism" in the Sector **MECHANICAL ENGINEERING** under **STUDENT PROJECT SCHEME** sponsored by the Council during the academic-year 2018-2019.

Chennai-600025

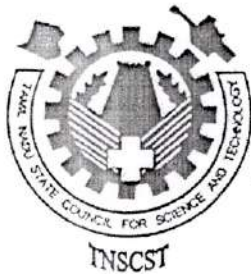
20.07.2019

No.EME-006/2019



Mech
Srinivasan
DR.R.SRINIVASAN
Member Secretary

J. Sub
PRINCIPAL
MIET ENGINEERING COLLEGE
JINDIRI, TRICHY - 620007



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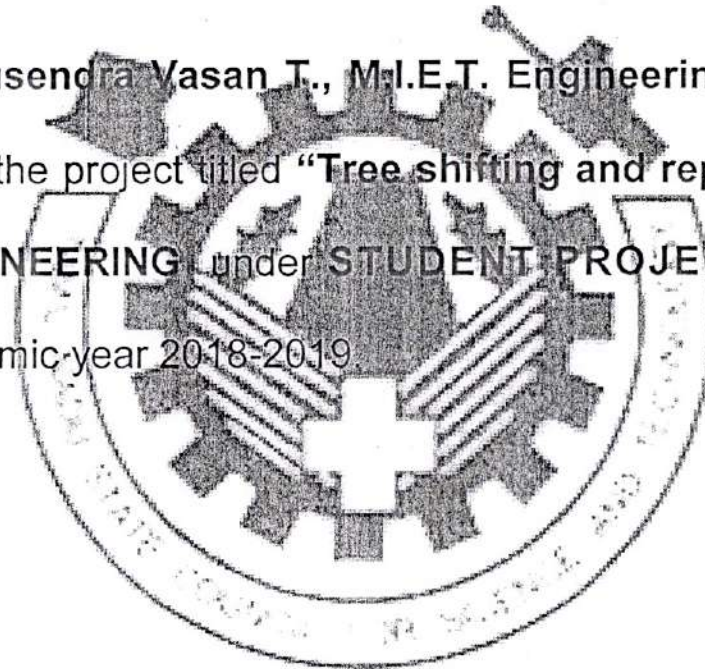


CERTIFICATE

This is to certify that Mr. Susendra Vasan T., M.I.E.T. Engineering College, Trichy - 620007 has successfully completed the project titled "Tree shifting and replanting mechanism" in the Sector **MECHANICAL ENGINEERING** under **STUDENT PROJECT SCHEME** sponsored by the Council during the academic year 2018-2019

Chennai-600025
20.07.2019

No.EME-006/2019



M. S.
Srinivasan
DR.R.SRINIVASAN
Member Secretary

S. Srinivasan
PRINCIPAL
MIET ENGINEERING COLLEGE
BUNGUR, TIRUCHIRAPALI - 620 007



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CERTIFICATE

This is to certify that Mr. Vigneshraja S., M.I.E.T. Engineering College, Trichy - 620007 has successfully completed the project titled "Tree shifting and replanting mechanism" in the Sector **MECHANICAL ENGINEERING** under **STUDENT PROJECT SCHEME** sponsored by the Council during the academic year 2018-2019.

Chennai-600025
20.07.2019

No.EME-006/2019


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DR.R.SRINIVASAN
Member Secretary



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TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

(Established by Government of Tamilnadu)
Directorate of Technical Education Campus, Chennai - 600 025

Phone : 044 - 2230 1428

Web : www.tanscst.nic.in

Telefax : 044 - 2230 1552

E-mail : ms.tanscst@nic.in/enquiry.tanscst@nic.in

DR. R. SRINIVASAN, M.Sc., Ph.D., F.I.C.S., M.A.C.S. (USA).
Member Secretary

Kind attention of Principal/Registrar

Lr.no:TNSCST/SPS2019-20/

18.12.2020

To
The Principal
M.I.E.T. Engineering College
Trichy- 620 007

Sir,

Sub : Student Project Scheme (2019-20) - submission of Utilization Certificate – reg.

Ref. : 1 Council approval dt.18.03.2020

2.Announcement in council's website dt.12.09.2020 & e mail to individual guide

With reference to the above council have sanctioned the student project and hope your students have completed the same. On completion of the project, as per approval you have to submit the Utilisation Certificate in the prescribed format (already sent & available in council website) duly signed by the Guide, HoD and Head of the Institution with seal.

Kindly arrange to **submit Utilisation Certificate** (hard copy) or **refund the grant as DD on or before 31.12.2020**. Project details are

Mr. L.S. Narenthira Assistant Professor Dept. of Mechanical Engineering M.I.E.T. Engineering College Trichy - 620 007	Remote Operated Trash Skimmer for Lake	R. Mangaiyarkarasi J. Mohammed Aslam A. Mohammed Jifri M. Mounika	EME-095	7500/-
Mr. M. Visvam Assistant Professor Dept. of Mechanical Engineering M.I.E.T. Engineering College Trichy- 620 007	Design and fabrication of fume arrester using peanut shell biofilter for arc welding application	S. Anwar kaleem J. Mohamedkhalith S. Athief R. Jafar Hussain Ahamed	EME-068	7500/-

Yours faithfully


Member Secretary


PRINCIPAL
MIET ENGINEERING COLLEGE
GUNDUR, TIRUCHIRAPALI - 620 007

Handwritten initials/signature

M.I.E.T.Engg College,Gundur,Trichirapalli
Department of Mechanical Engineering

24-12-2020

TO
The Principal
M.I.E.T.Engg College
Gundur-Trichy



Ref: Principal Mail dated on Dec 22, 2020/Submission of Utilization Certificate-TNSCST Project-Reg.

With reference to the above dated mail, we came to know that the TNSCST Council have sanctioned the student project grant (Rs 7500+ 7500) to our department faculty members Prof.L.S.Narenthira and Mr.M.Visvam.

The amount was received by the college during the corona lockdown period and the same was not disbursed to the students for their TNSCST funded projects. And also the concerned faculty members are not turned up to the college due to severe pandemic situation.

Class coordinators enquired the students (project grant) about the status of their projects and reported that they were unable to complete the projects because of unavailability of lab facilities and other materials during the lockdown period.

Hence we request you to give permission to refund the received grant (Rs.15000) to TNSCST as early as possible.

Thanking you.

Class coordinator

1. *M. Dhandayuthabani ASP/MECH*
24/12/20

2. *Dr. T. PRABALAKRAN*
AP/MECH.
24/12/2020

24.12.20

*Remanded to
Chairman*

7.12.20
24/12/2020

24/12/2020
HoD /mech
Dr. A-Kumaravel

7.12.20
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