

Jaihind Comprehensive Education Institute's  
**JAIHIND COLLEGE OF ENGINEERING, KURAN.**  
Department of Civil Engineering



## CERTIFICATE

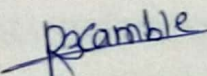
This is to certify that the following students

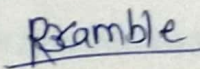
TAK MINAL KISHOR	Exam Seat No.-B150840067
KHAN ARMAN MOHMMED	Exam Seat No.-B150840038
JAT AJAY UDAY	Exam Seat No.-B150840031
LOHOT SANKET KAILAS	Exam Seat No.-B150840043


have satisfactorily carried out the project work entitled,

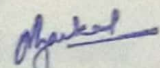
**“USE OF SEA SAND IN CONCRETE”**


This work is being submitted for the award of degree of Bachelor of Civil Engineering  
in the partial fulfilment of prescribed syllabus of Savitribai Phule Pune University,  
Pune, for the academic year 2021-22.

  
Prof. KAMBLE R. B.  
(Project Guide)

  
Prof. KAMBLE R. B.  
(Project Co-Ordinator)

  
Prof. NAGARGOJE S. M.  
(H.O.D)

  
Dr. GARKAL D. J.  
Principal  
(Principal)  
JCEI's Jaihind College of Engineering  
Kuran, Tal. Kurunbas, Dist. Pune-410511

  
(External Examiner)

JAIHIND COLLEGE OF ENGINEERING, KURAN  
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

Department of Civil Engineering



## CERTIFICATE

This is to certify that the following students have satisfactorily carried out the B.E. project work entitled **"APPLICATION OF LEAN IN CONSTRUCTION INDUSTRY"**

This work is being submitted for the award of Degree of Bachelor of Civil Engineering. It is submitted in the partial fulfillment of prescribed syllabus of Savitribai Phule Pune University, Pune for the academic year 2021-22.

PATIL PRADNYA PRAKASH

Exam seat no. – B150840001

KADRISAYYAD MOHAMAD HUSAIN

Exam seat no. – B150840032

LAMKHADE VAIBHAV UTTAM

Exam seat no. – B150840041

PATIL OMKAR PRAKASH

Exam seat no. – B150840054

Prof. NAGARGOJE S. M.

Guide

Prof. NAGARGOJE S. M.

H.O.D

Dr. D. J. Garkal  
Principal

JCEI's Jaihind College of Engineering  
Kuran, Tal., Junnar, Dist. Pune-410511  
Principal

Jaihind Comprehensive Education Institute's  
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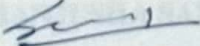
This is to certify that the following students

SABALE PRATIKSHA DHONDU	Exam Seat No.-B150840058
SHINDE PRATIKSHA MADHUSUDAN	Exam Seat No.-B150840065
RAIKAR MANJUSHA SANJAY	Exam Seat No.-B150840055
RAWATE YOGESH RAMDAS	Exam Seat No.-B150840056

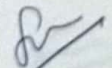
have satisfactorily carried out the project work entitled,

**“USE OF GEOGRID AND WASTE TYRES AS REINFORCEMENT  
MATERIAL IN RAILWAY TRACK BEDS ”**

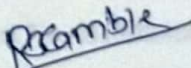
This work is being submitted for the award of degree of Bachelor of Civil Engineering  
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Pune, for the academic year 2021-22

  
Prof. GHUGE S. S.

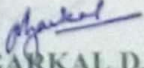
(Project Guide)

  
Prof. NAGARGOJE S. M.

(HOD)


  
Prof. KAMBLE R. B.

(Project Co-ordinator)

  
Dr. GARKAL D. J.

Principal

JCEI's Jaihind College of Engineering  
(Principal) Of Engineering  
Kuran, Tal. Junner, Dist. Pune-410511

  
(External Examiner)

Jaihind Comprehensive Education Institute's  
**JAIHIND COLLEGE OF ENGINEERING, KURAN.**

Department of Civil Engineering



## CERTIFICATE

This is to certify that the following students

<b>CHASKAR ABHISHEK SUNIL</b>	<b>Exam Seat No.-B150840006</b>
<b>GHULE ABHISHEK SURESH</b>	<b>Exam Seat No.-B150840020</b>
<b>RODE AKSHAY RAMESH</b>	<b>Exam Seat No.-B150840057</b>
<b>THORAT PRABODHAN C</b>	<b>Exam Seat No.-B150840069</b>

have satisfactorily carried out the project work entitled,

**“COMPARATIVE STUDY OF DESIGN OF MOVABLE ROAD DIVIDER  
USING IOT TECHNIQUE”**

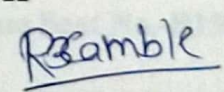
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in the partial fulfilment of prescribed syllabus of Savitribai Phule Pune University,  
Pune, for the academic year 2021-22

  
Prof. Menetre S. M.

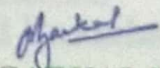
(Project Guide)

  
Prof. NAGARGOJE S.M.

(HOD)

  
Prof. Kambale R.B.

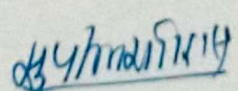
(Project Co-ordinator)

  
Dr. GARKAL D.J.

Principal

JCEI's Jaihind College of Engineering  
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(Principal)

  
(External Examiner)

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Department of Civil Engineering



## CERTIFICATE

This is to certify that the following students

<b>CHABUKSWAR KRUSHNA JOSEPH</b>	<b>Exam Seat No.-B150840005</b>
<b>SALVI VINIT VITHOBA</b>	<b>Exam Seat No.-B150840060</b>
<b>GADEKAR SHIVAM ULHAS</b>	<b>Exam Seat No.-B150840014</b>
<b>KALAL SUSHANT BHUPESH</b>	<b>Exam Seat No.-B150840034</b>

have satisfactorily carried out the project work entitled,

### **“STUDY ON SNOW MELTING ROAD”**

This work is being submitted for the award of degree of Bachelor of Civil Engineering  
in the partial fulfilment of prescribed syllabus of Savitribai Phule Pune University,  
Pune, for the academic year 2021-22

*f Kambale*

**Prof. ZOPE M.T.**

**(Project Guide)**

*[Signature]*  
**Prof. NAGARGOJE S.M.**

**(HOD)**

*R Kambale*

**Prof. Kambale R.B.**

**(Project Co-ordinator)**

*[Signature]*  
**Dr. GARKAL.D.J.**

**Principal**

**(Principal)** Engineering  
JCEI's Jaihind  
Kuran, Tal. Junnar, Dist. Pune-410511

*[Signature]*  
**(External Examiner)**

Jaihind Comprehensive Education Institute's  
**JAIHIND COLLEGE OF ENGINEERING, KURAN.**  
Department of Civil Engineering



## CERTIFICATE

This is to certify that the following students

SARODE ANUPAMA ARUN	Exam Seat No.-B150840061
HULE SAYLI ANIL	Exam Seat No.-B150840023
KHANDGE ANUJA PRAVIN	Exam Seat No.-B150840039
ISKANDE BHUSHAN KANCHAN	Exam Seat No. B150840025

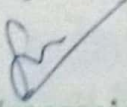
have satisfactorily carried out the project work entitled,

**“SEISMIC ANALYSIS OF RCC & STEEL FRAME FOR  
VARIOUS ZONES”**

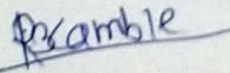
This work is being submitted for the award of degree of Bachelor of Civil Engineering  
in the partial fulfilment of prescribed syllabus of Savitribai Phule Pune University,  
Pune, for the academic year 2021-22

  
Prof. Supekar G. S.

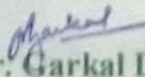
(Project Guide)

  
Prof. Nagargoje S.M.

(HOD)

  
Prof. Kambale R.B.

(Project Co-ordinator)

  
Dr. Garkal D.J.

Principal  
JCEI's Jaihind (Principal) Engineering  
Kuran, Tal. Junnar, Dist. Pune - 410511

(External Examiner)

Jaihind Comprehensive Education Institute's  
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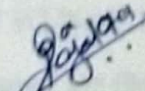
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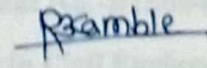
MULE PRATIK VILAS	Exam Seat No.-B150840048
MULE SAGAR CHANDRAKANT	Exam Seat No.-B150840049
DHOBALE SUMIT RAJENDRA	Exam Seat No.-B150840011
WALUNJ KUNAL KAILAS	Exam Seat No.-B150840070


have satisfactorily carried out the project work entitled,

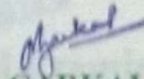
### **“FOOT STEP POWER GENERATION SYSTEM BY USING FOOTPATH”**


This work is being submitted for the award of degree of Bachelor of Civil Engineering in the partial fulfilment of prescribed syllabus of Savitribai Phule Pune University, Pune, for the academic year 2021-22

  
Prof. DOKE P. N.  
(Project Guide)

  
Prof. KAMBALE R.B.  
(Project Co-Ordinator)

  
Prof. NAGARGOJE S.M.  
(HOD)

  
Dr. GARKAL D.J.  
Principal  
JCEI's Jaihind College Of Engineering  
Kuran, Tal. Jaihind, Dist. Solapur - 410511  
(Principal)

  
(External Examiner)

Jaihind Comprehensive Education Institute's  
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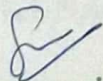
This is to certify that the following students

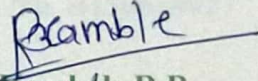
<b>GHAVAT PRASHANT G.</b>	<b>Exam Seat No.-B150840017</b>
<b>GODE TUSHAR B.</b>	<b>Exam Seat No.-B150840021</b>
<b>KANAWADE SHRIKANT A.</b>	<b>Exam Seat No.-B150840035</b>
<b>KHADE KUNAL B.</b>	<b>Exam Seat No. B150840027</b>

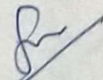
have satisfactorily carried out the project work entitled,

**“CASE STUDY OF JAMBULWADI LAKE WATER  
REMEDICATION”**

This work is being submitted for the award of degree of Bachelor of Civil Engineering  
in the partial fulfilment of prescribed syllabus of Savitribai Phule Pune University,  
Pune, for the academic year 2021-22

  
**Prof. Nagargoje S. M.**  
(Project Guide)

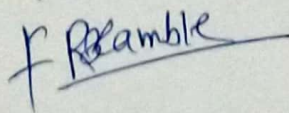
  
**Prof. Kambale R.B.**  
(Project Co-ordinator)

  
**Prof. Nagargoje S.M.**  
(HOD)

  
**Dr. Garkal D.J.**  
Principal

JCEI's Jaihind College of Engineering  
Kuran, Tal. Junnar, Dist. Pune-410511

(External Examiner)





JAIHIND COLLEGE OF ENGINEERING, KURAN,  
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE  
Department of Civil Engineering



## CERTIFICATE

This is to certify that the following students have satisfactorily carried out the B.E. project work entitled "A CASE STUDY OF SAMRUDHI MAHAMARG LONGEST TUNNEL".

This work is being submitted for the award of degree of Bachelor of Civil Engineering in the partial fulfillment of prescribed syllabus of Savitribai Phule Pune University, Pune, for the academic year 2021-22.

Ambhore Sanjay kisan

Exam seat no: B150840002

Gawade Shubham P.


Exam seat no: B150840015


Mande Siddhant

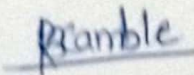
Exam seat no: B150840045


Landge Akshay G.

Exam seat no: B150840042:

  
Prof. S.M. Nagargoje  
Guide

  
Prof. S. M. Nagargoje  
HOD

  
External

  
Dr. D. J. Garkal  
Principal  
JCEI's Jainn's College Of Engineering  
Kuran, Tal. Junnar, Dist. Pune-410511

Jaihind Comprehensive Education Institute's  
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Department of Civil Engineering



## CERTIFICATE

This is to certify that the following students

DANDAWATE KARAN ASHOK	Exam Seat No-B150840008
GHOLAP HARSHAL DNYANESH	Exam Seat No-B150840019
INAMDAR SAHIL SHAMIM	Exam Seat No-B150840024
TALEKAR AISHWARYA BHARAT	Exam Seat No-B150840068

have satisfactorily carried out the project work entitled,

### **“USE OF STEEL FIBERS IN POCKET HOLE GROUTING”**

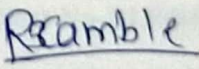
This work is being submitted for the award of degree of Bachelor of Civil Engineering  
in the partial fulfilment of prescribed syllabus of Savitribai Phule Pune University,  
Pune, for the academic year 2021-22

  
Prof. Mehetre S. M.

(Project Guide)

  
Prof. NAGARGOJE S.M.

(HOD)

  
Prof. Kambale R.B.

(Project Co-coordinator)

  
Dr. GARKAL.D.J.

Principal

JCEI's Jaihi (Principal) Engineering  
Kuran, Tal. Junnar, Dist. Pune-410511

  
(External Examiner)

Jaihind Comprehensive Education Institute's  
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Department of Civil Engineering



## CERTIFICATE

This is to certify that the following students

MANDAL SABIR LIYAKAT	Exam Seat No.-B150840044
SONVANE SHANTARAM GANPAT	Exam Seat No.-B150840066
KAKADE SAIRAJ GANPAT	Exam Seat No.-B150840033
HALNAR SHUBHAM BABASAHEB	Exam Seat No.-B150840022

have satisfactorily carried out the project work entitled,

### **“CASE STUDY ON CONTOUR CRAFTING”**

This work is being submitted for the award of degree of Bachelor of Civil Engineering  
in the partial fulfilment of prescribed syllabus of Savitribai Phule Pune University,  
Pune, for the academic year 2021-22

Prof. GHUGE S.S.

(Project Guide)

Prof. NAGARGOJE S.M.

(HOD)

Prof. Kambale R.B.

(Project Co-ordinator)

Dr. GARKAL.D.J.

Principal

(Principal)

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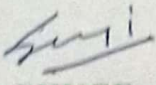
This is to certify that the following students

AADITYA DAMODAR JAGDALE	Exam Seat No.-B150840028
SHAM PRAKASH NIMSE	Exam Seat No.-B150840052
SUBHASH GANESH NAYKODI	Exam Seat No.-B150840051
SHUBHAM Sampat NAYKODI	Exam Seat No.-B150840050

have satisfactorily carried out the project work entitled,

### **“DURABILITY EFFECT OF COLLOIDAL NANO SILICA ON HIGH STRENGTH CONCRETE”**

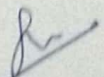
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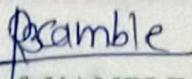
  
Prof. GHUGE S. S.

(Project Guide)

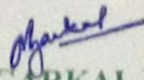
  
Prof. NAGARGOJE S. M.

(HOD)

  
(External Examiner)

  
Prof. KAMBLE R. B.

(Project Co-ordinator)

  
Dr. GARKAL D. J.  
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## CERTIFICATE

This is to certify that the following students

DOLAS YOGESH BHIMA	Exam Seat No.-B150840012
JAMADAR MOHMMADUSAMA ASIF	Exam Seat No.-B150840029
MOMIN MAHASHAR GULAMSHAHID	Exam Seat No.-B150840062
SHAIKH MOHMMADASAD A.HAMID	Exam Seat No.-B150840046
WAMAN SIDHESH NARAYAN	Exam Seat No.-B150840071

have satisfactorily carried out the project work entitled,

**"PROTECTION FROM LANDSLIDE IN HILLY AREA ROADS  
BY PROVIDING HALF TUNNEL"**

This work is being submitted for the award of degree of Bachelor of Civil Engineering  
in the partial fulfilment of prescribed syllabus of Savitribai Phule Pune University,  
Pune, for the academic year 2021-22

*f. Zope*  
Prof. Zope M. T.

(Project Guide)

*f. Nargojje*  
Prof. NARGOJE S. M.

(HOD)

*R. Kambale*  
Prof. KAMBALE R. B.

(Project Co-ordinator)

*f. Garkale*  
Dr. GARKALE D. J.

JCEI's Jaihind College Of Engineering  
Kuran, Tal. Kuran, Dist. Solapur. Phone-410511

(Principal)

*f. Zope*  
(External Examiner)