

# DEPARTMENT OF CIVIL ENGINEERING

“Sthapathya Vaartha”

2025-26

Issue:2

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## ● HOD MESSAGE

This news bulletin 2K25-26' is an outcome of the CIVIL ENGINEERING department's activities throughout the previous semester. The editing staff has worked hard to gather information and display it in an attractive manner in the News bulletin. I am delighted to interact with all stake holders via it. On behalf of the Civil Engineering

department, I would like to thank Executive Director Shri Anil A.Bagane and I/C Principal Dr. B. B. Sangame for your ongoing inspiration in bringing all operations to a single level.



**Dr. N. Maloth**  
**H.O.D.**  
**CIVIL ENGINEERING**

## **NEWSLETTER COORDINATOR MESSAGE**

I am happy to share the Civil Engineering Department's news release with you. It is a representation of the department's various activities as well as the contributions of the civil engineering department's professionals and students for second SEM of this academic year.

**Ms. Pooja R. Patil**  
**Assistant Professor**  
**News Letter Coordinator**

### ● CESA TEAM

| Name                 | Designation         | Class  |
|----------------------|---------------------|--------|
| Piyush.S.More        | President           | B.Tech |
| Sujay S. Rugge       | Vice-President      | B.Tech |
| Sourabh.R.Kumbhar    | Secretary           | B.Tech |
| Sarthak.S.Vardhamane | Treasurer           | B.Tech |
| Samrudhhi Shinde     | Lady Representative | B.Tech |

|                                                                                     |                                                                                     |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |
| President<br>MR. PIYUSH MORE<br>Btech Civil                                         | Vice President<br>MR.SUJAY RUGGE<br>Btech Civil                                     | Secretary<br>MR. SOURABH R KUMBHAR<br>Btech Civil                                     |

## ● VISION, MISSION AND QUALITY POLICY AND PEO OF DEPARTMENT

### The vision of the Department

To be a center of excellence in various sub-branches of Civil Engineering to prepare professionally competent engineers with a lifelong learning attitude for the accomplishment of ever-growing needs of society.

### The Mission of the Department

To prepare technically and professionally competent engineers by imparting quality education through effective teaching-learning methodologies and providing a stimulating environment for research and innovation

To develop professional skills and the right attitude in students that will help them to succeed and progress in their personal and professional career

To imbibe moral and ethical values in students with concern to society and the environment

### The Program Educational Objectives (PEOs)

**PEO I:** Demonstrate capabilities to develop an optimal solution to the real-world engineering problems by applying the theory-based practical approach of civil engineering and related interdisciplinary fields.

**PEOII:** Exhibit professional skills, ethical attitude and sensitivity towards society and environment.

**PEOIII:** Engage in life-long learning for successful adaptation to technological changes.

### ● **SHORT TERM GOALS**

- 1.To strengthen industry-institute interaction by signing MoU with various leading institute and industries.**
- 2.To orient student towards research and development activities.**
- 3.To improve the consultancy work.**
- 4.Motivate faculties to be a part of different technical societies.**

### ● **LONG TERM GOALS**

- 1.To encourage research activities in the department by creating centre of excellence.**
- 2.To become a solution provider for critical Civil engineering problems.**
- 3.To acquiring sponsored project from various Civil engineering fields.**

## LIST OF DAAB MEMBERS

Following are the DAAB members of the department for AY-2025-26

| Sr. No. | Name of person         | Designation                                            |
|---------|------------------------|--------------------------------------------------------|
| 1       | Dr. Naresh Maloth      | Head of Department, and Chairman DAAB                  |
| 2       | Prof. Dr. R. V. Raikar | Other Academic Institute Faculty-Member                |
| 3       | Prof. Dr. R. V. Kajve  | Other Academic Institute Faculty-Member                |
| 4       | Er. V.K.Chopdar        | Industry Person-Civil Engg.-Member                     |
| 5       | Mr. Nitin K. Patil     | Industry Person-Civil Engg.-Member                     |
| 6       | Mr.UmeshS.Patil        | Parent-Member                                          |
| 7       | Mr. Y. S. Patil        | Programme Co-ordinator, and NBA Coordinator            |
| 8       | Mrs. M. V. Sabale      | Academic Co-ordinator.                                 |
| 9       | Mr.A.B. Jadhav         | Senior faculty- Member and Dean Training and Placement |
| 10      | Mr. Y.U. Kulkarni      | Senior faculty- Member                                 |
| 11      | Mrs. P.R. Patil        | T.Y. B.Tech Class Teacher- Member                      |
| 12      | Ms.P.T.Pawar           | B.Tech. Class Teacher –Member                          |
| 13      | Ms. Amuta Ware         | S. Y. B. Tech. Class Teacher- Member                   |
| 14      | Er. Amardeep A.Patil   | Alumni- Member                                         |
| 15      | Er. Kapil Girange      | Alumni- Member                                         |
| 16      | Mr. Pranay Ugale       | Current student S.Y.- Member                           |
| 17      | Mr. Smital Buchade     | Current student T.Y.- Member                           |
| 18      | Mr. Sujay Rugge        | Current student Btech - Member                         |
| 19      | Mrs. M. V. Sabale      | Secretary. DAAB,                                       |

| Sr. No. | Guest Lecture                                 | Date     | Guest Name               |
|---------|-----------------------------------------------|----------|--------------------------|
| 1       | Box culvert design workshop using MIDAS Civil | 21-07-25 | Mr. Kishore Yalamanchili |
| 2       | Introduction to STAAD Pro Software            | 08-08-25 | Ms. Neeta Kamble         |

## MMARY

|   |                                  |          |                |
|---|----------------------------------|----------|----------------|
| 3 | Introduction to Civil Software's | 23-08-25 | Mr. Rahul Kare |
|---|----------------------------------|----------|----------------|

### Pictures of Guest Lectures-





## • INDUSTRIAL VISITS SUMMARY

| Sr. No | Name of organization             | Class | Date of Visit |
|--------|----------------------------------|-------|---------------|
| 1      | RMC Plant,kolhapur               | TY    | 2.3.2026      |
| 2      | Chandoli Dam,Radhanagari         | TY    | 17.3.2026     |
| 3      | Shinde developers,Ichalkaranji   | SY    | 7.4.2026      |
| 4      | Gafari Construction,Ichalkaranji | SY    | 28.4.2026     |

## Pictures of Visits-







## • VALUE ADDED PROGRAM

| Topic                  | Class | No. of Students | Expert               | Date                     |
|------------------------|-------|-----------------|----------------------|--------------------------|
| Total Station and DGPS | SY    | 28              | Mr. Atharv Tashildar | 13.02.2026 to 17.02.2026 |

### Pictures of VAP



## • MINI PROJECTS CONDUCTED

**Mini Project TY Civil**  
**Academic Year 2025-26**

| Sr.No. | Roll No. | Name of Students            | Project Guide       | Tittle                                                                                                                   |
|--------|----------|-----------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------|
| 1      | 4        | Aditya Balaso Bandgar       | Ms. P. R. Patil     | Development of Double-Skin 3D Printed Wall with Cavity Filled with Wate with natural Fibers for Sustainable Construction |
|        | 5        | Sachin Annaso Bhoasale      |                     |                                                                                                                          |
|        | 7        | Harshad Dhanaji Patil       |                     |                                                                                                                          |
|        | 19       | Vinay Somnath Jadhav        |                     |                                                                                                                          |
| 2      | 35       | Faheem Ul Eslam             | Abhijeet.A.Hosurkar | Traffic Volume Study                                                                                                     |
|        | 36       | Abi Kumar                   |                     |                                                                                                                          |
|        | 37       | Pushap Gandotra             |                     |                                                                                                                          |
|        | 21       | Tejas Kasabe                |                     |                                                                                                                          |
| 3      | 17       | Smital Shashikant Buchade   | Dr. N.Maloth        | Vibration analysis of Steel frame structure.                                                                             |
|        | 18       | Prathamesh Gopal Dange      |                     |                                                                                                                          |
|        | 23       | Varad Sandip Madake         |                     |                                                                                                                          |
|        | 25       | Faruk Rafik Mujawar         |                     |                                                                                                                          |
| 4      | 6        | Indrajit Ballaso Mane       | Mr.Y.S.Patil        | Used Tyer Crum In Concrete                                                                                               |
|        | 28       | Prajwal Sudhir Patil        |                     |                                                                                                                          |
|        | 33       | Parshva Vidyadhar Zole      |                     |                                                                                                                          |
|        | 34       | Rushikesh Dharmendra Kurane |                     |                                                                                                                          |
| 5      | 16       | Vivek Parashuram Bhosale    | MS.A.D.WARE         | USE CORN COB IN CONCRETE                                                                                                 |
|        | 20       | Atharv uttam kamble         |                     |                                                                                                                          |
|        | 29       | Swarup shantinath shirgave  |                     |                                                                                                                          |
|        | 32       | Tejas uttam waingade        |                     |                                                                                                                          |
| 6      | 8        | Pradyumna Arhanath Patil    | Mr. Y. S. Patil     | Floating Solar Panel For Electricity Generation                                                                          |
|        | 26       | Ajaykumar Suryakant Patil   |                     |                                                                                                                          |
|        | 30       | Yashraj Digambar Valke      |                     |                                                                                                                          |
|        | 31       | Sourabh Raju Vasudev        |                     |                                                                                                                          |
| 7      | 15       | Aadarsh Shital Barwade      | MS.P.O.SHIROL       | Study Of Geotextile-                                                                                                     |

|                                                                                                | 22       | Bhanudas Prasad Kulkarni | E                 | Reinforced Material                                                                     |
|------------------------------------------------------------------------------------------------|----------|--------------------------|-------------------|-----------------------------------------------------------------------------------------|
|                                                                                                | 24       | Ruturaj Ramesh Madnaik   |                   |                                                                                         |
|                                                                                                | 27       | Harshal Nemgonda Patil   |                   |                                                                                         |
| 8                                                                                              | 2        | Tejal Dnyandev Panchal   | MR.A.B.JADHA<br>V | TRAFFIC<br>MANAGEMENT                                                                   |
|                                                                                                | 9        | Madhura Ramesh Jugale    |                   |                                                                                         |
|                                                                                                | 12       | Dhanashree Suresh Patil  |                   |                                                                                         |
|                                                                                                | 13       | Rasika Rajendra Patil    |                   |                                                                                         |
| 9                                                                                              | 14       | Priya Sandip Tejam       | Mrs. M. V. Sabale | Sustainable door panel<br>from recycled plastic,<br>crushed glass and wood<br>particals |
|                                                                                                | 10       | Sanika Sanjay Mali       |                   |                                                                                         |
|                                                                                                | 11       | Jyoti Shivaji Munde      |                   |                                                                                         |
|                                                                                                | 3        | Samarity Sharma          |                   |                                                                                         |
| <b>SY Civil</b>                                                                                |          |                          |                   |                                                                                         |
| <b>Academic Year 2025-26</b>                                                                   |          |                          |                   |                                                                                         |
| Sr.No.                                                                                         | Roll No. | Name of Students         | Project Guide     | Tittle                                                                                  |
| 1                                                                                              | 10       | Arihant N. Gudale        |                   |                                                                                         |
|                                                                                                | 16       | Vivek V. Mhetre          |                   |                                                                                         |
|                                                                                                | 23       | Akshat A. Shaha          |                   |                                                                                         |
|                                                                                                | 24       | Pranay B. Ugale          | Ms.P R Patil      | Analysis of Net Zero<br>Energy Building for<br>Residential House                        |
| 2                                                                                              | 4        | Granthali A.Pise         |                   |                                                                                         |
|                                                                                                | 33       | Sanika A. Mali           |                   |                                                                                         |
|                                                                                                | 35       | Shravani S. Shinde       |                   |                                                                                         |
|                                                                                                | 37       | Mukta A. Ghatage         | Mr.Y.U.Kulkarni   | Analaysis Of Beam<br>Using Anysis                                                       |
| 3                                                                                              | 1        | Sahyadri A. Kamble       |                   |                                                                                         |
|                                                                                                | 3        | Shreya P. Kotagi         |                   |                                                                                         |
|                                                                                                | 5        | Snehal D. Salunkhe       | Mr.Y.U.Kulkarni   | Retrofitting of old<br>building                                                         |
| 4                                                                                              | 14       | Harshvardhan Kore        |                   |                                                                                         |
|                                                                                                | 11       | Prathamesh Khemali       |                   |                                                                                         |
|                                                                                                | 13       | prasad koravi            |                   |                                                                                         |
|                                                                                                | 17       | amey mule                | Ms. P.T. Powar    | Water quality analysis in<br>SITCOE campus                                              |
| 5                                                                                              | 38       | Mohit Satpute            |                   |                                                                                         |
|                                                                                                | 34       | Amritchanyal             |                   |                                                                                         |
|                                                                                                | 32       | Omkar nirmale            |                   |                                                                                         |
|                                                                                                | 36       | rohan jadhav             | Dr. Naresh maloth | Effect of plastic waste in<br>asphalt and pavement                                      |
| 6                                                                                              | 21       | Prajwal Adake            |                   |                                                                                         |
|                                                                                                | 31       | Shridhar Mane            | Ms. P.T. Powar    | Water filtration using<br>natural solid material                                        |
| <div>16   Page</div> <div>Newsletter - Department of Civil Engineering AY 2025-26 Sem-II</div> |          |                          |                   |                                                                                         |

|   |    |                        |                 |                                |
|---|----|------------------------|-----------------|--------------------------------|
|   | 20 | Adarsh patil           | Mr.A.A.Hosurkar | Future transportation system   |
|   | 2  | sanika Sanjay Krayappa |                 |                                |
|   | 7  | sanavi Yadav           |                 |                                |
|   | 6  | shravani sangalage     |                 |                                |
| 7 | 29 | Pranav Kesarkar        | Ms. A. D. Ware  | Soil Water Interaction Studies |
|   | 22 | Sourabh Salgar         |                 |                                |
|   | 12 | Shreyash Koli          |                 |                                |
|   |    |                        |                 |                                |



## - MEGA PROJECT LIST

## DEPARTMENT OF CIVIL ENGINEERING

### Mega Project List 25-26

| Group No | Roll No. | Name of student               | Name of Guide     | Project Title                                                                                              |
|----------|----------|-------------------------------|-------------------|------------------------------------------------------------------------------------------------------------|
| 1        | 30       | Sujay Sanjay Rugge            | Mr. A.B.Jadhav    | Implementation of cheap and affordable energy in smart city                                                |
|          | 29       | Sarthak Shantinath Vardhamane |                   |                                                                                                            |
|          | 34       | Deepak Prakash Patil          |                   |                                                                                                            |
|          | 31       | Abhishek Mahaveer Danwade     |                   |                                                                                                            |
| 2        | 24       | Mayuresh Umesh Patil          | Mr. A. B. Jadhav  | Ecoshield concrete: Admixture-Enhanced Algae Resistance                                                    |
|          | 25       | Shivtej Mallikarjun Khichade  |                   |                                                                                                            |
|          | 38       | Pruthviraj Sushant Nimbalkar  |                   |                                                                                                            |
|          | 40       | Omkar Bhore                   |                   |                                                                                                            |
| 3        | 27       | Sakshi Arun Jadhav            | Dr.Naresh Maloth  | Performance evaluation of recycled concrete using human hair as reinforcement                              |
|          | 36       | Shreya Vinod korochikar       |                   |                                                                                                            |
|          | 37       | Bhuvaneshvari Satish Kamble   |                   |                                                                                                            |
| 4        | 2        | Prerana Uttam Karande         | Ms.S.M.Patil      | Use of Waste Material for Bricks and Paving Block manufacturing                                            |
|          | 3        | Shravani Sagar Patil          |                   |                                                                                                            |
|          | 5        | Sifana Yasin Shaikh           |                   |                                                                                                            |
|          | 7        | Aditi Dattatray Uthale        |                   |                                                                                                            |
| 5        | 10       | Paras Sachin Gidde            | Ms.P.T.Powar      | Study of sludge dewatering and stabilization in sludge constructed wetland                                 |
|          | 16       | Shahabaj Rafik Mulla          |                   |                                                                                                            |
|          | 17       | Rajvardhan Dashrath Patil     |                   |                                                                                                            |
|          | 18       | Sourabh Udaysing Rajput       |                   |                                                                                                            |
| 6        | 1        | Anjali Rajendra Akiwate       | Dr. Naresh Maloth | Damage detection in steel structure using vibration data                                                   |
|          | 4        | Vedika Sadashiv Patil         |                   |                                                                                                            |
|          | 6        | Samruddhi Sanjay Shinde       |                   |                                                                                                            |
| 7        | 11       | Utkarsh Deepak Kesarkar       | Ms.P.O.Shirole    | Experimental study and analysis of foundry sand and plastic as binding material in manufacturing of blocks |
|          | 12       | Sourabh Rajendra Kumbhar      |                   |                                                                                                            |
|          | 15       | Jahid Jahirabbas Mujawar      |                   |                                                                                                            |
|          | 22       | Omkar Narayan Kumbhar         |                   |                                                                                                            |

|    |    |                             |                   |                                                                                 |
|----|----|-----------------------------|-------------------|---------------------------------------------------------------------------------|
| 8  | 14 | Piyush Suhdir More          | Ms. P. R. Patil   | Improving properties of literite bricks by using nano silica                    |
|    | 19 | Abhishek Rajendra Satre     |                   |                                                                                 |
|    | 23 | Amanullah Ikbāl Mujawar     |                   |                                                                                 |
|    | 21 | Kiran Rama Vadar            |                   |                                                                                 |
| 9  | 33 | Tushar Pramod Parit         | Mr. Y.S.Patil     | Production of Bio concrete using Bacillus subtilis bacteria                     |
|    | 32 | Omkar Anil Mathapati        |                   |                                                                                 |
|    | 28 | Shreyash Pramod Zende       |                   |                                                                                 |
|    | 9  | Prathmesh Somlind Divate    |                   |                                                                                 |
| 10 | 13 | Buddhabhushan Subodh Mohite | Mr. A.A. Hosurkar | Flood Mitigation Measures- Case Study                                           |
|    | 35 | Dhiraj Rajendra Malawade    |                   |                                                                                 |
|    | 39 | Vinayak Rajkumar Mane       |                   |                                                                                 |
|    | 26 | Avinash Dhanraj Mendhe      |                   |                                                                                 |
| 11 | 8  | Pathmesh Santosh Chavan     | Mrs.A.D. Ware     | Utilization of crushed dry waste in concrete as fine aggregate                  |
|    | 20 | akhilesh Shivling Swami     |                   |                                                                                 |
|    | 41 | Rushikesh Ravindra Bhore    |                   |                                                                                 |
|    | 42 | Aashfak Abdulgafar Mujawar  |                   |                                                                                 |
| 12 | 33 | Shrishail Shrikant Savekar  | Mrs.M.V.Sabale    | Sustainable Construction: A Study on Sugarcane Fiber Reinforced Concrete Bricks |
|    | 43 | Patil Anurag Dadaso         |                   |                                                                                 |

## ● STUDENT ACHIEVEMENT/PARTICIPATION

| Sr No | Name of Event       | No of participation |
|-------|---------------------|---------------------|
| 1     | Civil Canvas        | 38                  |
| 2     | Project Competition | 52                  |

| Sr No | Name of Event       | Name of Student                                | Rank |
|-------|---------------------|------------------------------------------------|------|
| 1     | Civil Canvas        | Sujay Rugge                                    | I    |
| 2     |                     | Vedika Sadashiv Patil                          | II   |
| 3     | Project Competition | Vedika Sadashiv Patil & Samrudhi Sanjay Shinde | I    |
| 4     |                     | Sakshi Arun Jadhav                             | II   |







- **LANGUAGE AND APTITUDE SKILL TRAINING**

| Sr<br>No | Training | Class |
|----------|----------|-------|
|----------|----------|-------|

|   |                        |        |
|---|------------------------|--------|
| 1 | Aptitude & Soft Skill  | SY     |
| 2 | Aptitude & Soft Skill  | TY     |
| 3 | Pre Placement Training | B Tech |

### • INTERNSHIP AND PLACEMENT DETAILS

| Sl. No. | Name of Student         | Name of the Company     | Location |
|---------|-------------------------|-------------------------|----------|
| 1       | Vedika Sadashiv Patil   | Shivtirth group         | Mumbai   |
| 2       | Sifana Yasin Shaikh     | Flytop group            | Pune     |
| 3       | Samruddhi Sanjay Shinde | Shivthirth Group        | Mumbai   |
| 4       | Aditi Dattatray Uthale  | Shivtirth group,khargar | Mumbai   |

|    |                               |                                      |             |
|----|-------------------------------|--------------------------------------|-------------|
| 5  | Prathmesh Santosh Chavan      | Shivtirth Civil Engineering services | Mumbai      |
| 6  | Utkarsh Deepak Kesarkar       | Long span structures pvt ltd         | Pune        |
| 7  | Piyush Sudhir More            | Versatile Enterprises                | Pune        |
| 8  | Jahid Jahirabbas Mujawar      | VAICHAL CONSTRUCTIONS PVT LTD,       | Pune        |
| 9  | Shahabaj Rafik Mulla          | Flytop group                         | Pune        |
| 10 | Rajvardhan Dashrath Patil     | Flytop Group                         | Pune        |
| 11 | Kiran Rama Vadar              | Versatile enterprises                | Pune        |
| 12 | Omkar Narayan Kumbhar         | TPL HCC PSP Bhivpuri joint venture   | Karjat      |
| 13 | MAYURESH UMESH PATIL          | TECHFINIX PVT.LTD.                   | Navi Mumbai |
| 14 | Sakshi Arun Jadhav            | S. S. Civil Projects Private Limited | Pune        |
| 15 | Shreyash Pramod Zende         | VAICHAL CONSTRUCTIONS PVT LTD        | Goa         |
| 16 | Sarthak Shantinath Vardhamane | MADHAV LIMAYE CONSULTING LLP .       | Pune        |
| 17 | Sujay Sanjay Ruge             | Global Infrastructure pvt ltd        | Pune        |
| 18 | Abhishek Mahaveer Danawade    | Techfinix pvt. ltd                   | Mumbai      |
| 19 | Shrishail shrikant savekar    | Rajyog group                         | Pune        |
| 20 | Shreya Vinod Korochnikar      | Vaichal construction                 | Pune        |
| 21 | BHUVANESHWARI SATISH KAMBLE   | Vaichal Construction                 | Pune        |

|    |                                 |                              |      |
|----|---------------------------------|------------------------------|------|
| 22 | PRUTHVIRAJ SUSHANT<br>NIMBALKAR | Madhav limaye consultant LLP | Pune |
|----|---------------------------------|------------------------------|------|

### • FACULTY NPTEL PARTICIPATION

| Sr no | Name             | Name of NPTEL Course attended   |
|-------|------------------|---------------------------------|
| 1     | Mr. A. B. Jadhav | Smart Cities                    |
| 2     | Mrs. M V Sabale  | Geotechnical Engineering I      |
| 3     | Mrs.P.O.Shirole  | Geotechnical Engineering I      |
| 4     | Ms. A D Ware     | Building Construction materials |

5

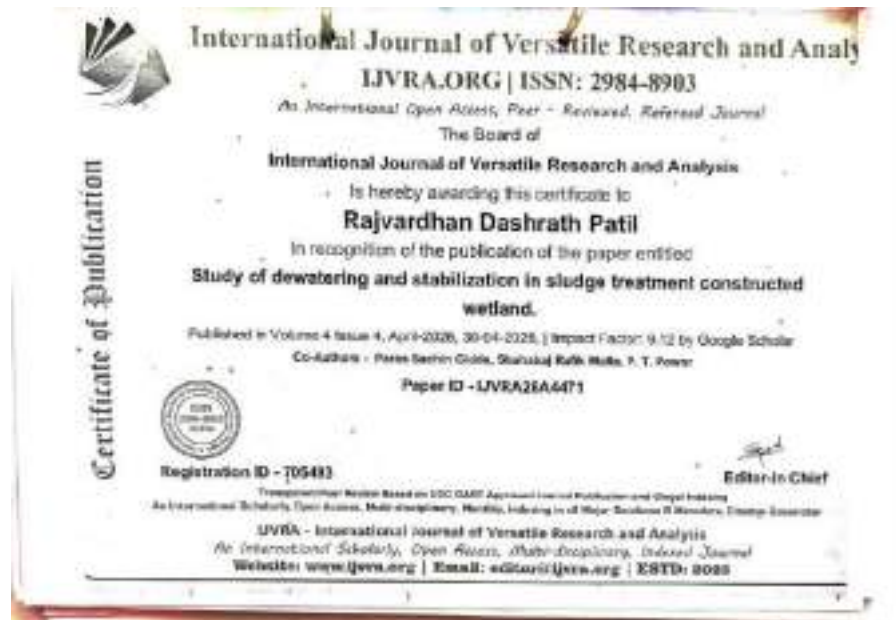
Ms. A A Patil

Drone Surveying

- 
- 
- 
- 

### • **FACULTY PUBLICATION-**

- **SCI Journal Publication – 06**
- **Conference paper publication - 04**









## International Journal of Versatile Research and Analy

IJVRA.ORG | ISSN: 2984-8903

*An International Open Access, Peer - Reviewed, Refereed Journal*

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International Journal of Versatile Research and Analysis

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**Paras Sachin Gidde**

In recognition of the publication of the paper entitled

**Study of dewatering and stabilization in sludge treatment constructed wetland.**

Published in Volume 4 Issue 4, April-2026, 30-04-2026, | Impact Factor: 9.12 by Google Scholar

Co-Authors - Shahbaz Rafik Mulla, Rajvanshu Dashrath Patil, P. T. Power

Paper ID - IJVRA26A4471



Registration ID - 705493

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Editor-in Chief

Certificate of Publication







## NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**MAYURESH UMESH PATIL**  
for successfully completing the course



**Basic Construction Materials**

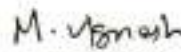
with a consolidated score of **55** %

|                    |          |                |          |
|--------------------|----------|----------------|----------|
| Online Assignments | 21.38/25 | Proctored Exam | 33.38/75 |
|--------------------|----------|----------------|----------|

Total number of candidates certified in this course: 1279

  
Prof. Andrew Thangaraj  
Chair  
Centre for Construct and Digital Education, IITM

Jan-Apr 2026  
(12 week course)

  
Prof. Vignesh Muthukrishnan  
AFSIL Coordinator  
IIT Madras











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**Jahid Jahirabbas Mujawar**

In recognition of the publication of the paper entitled

**Experimental Study and Analysis of Foundry Sand & Waste Plastic as  
Binding Material in Manufacturing of Blocks.**

Published in Volume 4 Issue 4, April-2026, 27-04-2026, | Impact Factor: 9.12 by Google Scholar

Co-Authors - Utkarsh Deepak Kesarkar, Onkar Narayan kumbhar, Pranoti Deshpakash Shirole

Paper ID - IJVRA26A4217



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Editor-in Chief

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## • OUR PROUD TOPPERS

| Sr No            | Name of Student           | CGPA | Rank |
|------------------|---------------------------|------|------|
| <u>T Y Civil</u> |                           |      |      |
| 1                | BUCHADE SMITAL S          | 8.86 | I    |
| 2                | PANCHAL TEJAL DNYANDEV    | 8.44 | II   |
| 3                | HARSHAD DHANAJI PATIL     | 8.35 | III  |
| <u>S Y Civil</u> |                           |      |      |
| 1                | KORAVI PRASAD KALLAPPA    | 9.11 | I    |
| 2                | UGALE PRANAY B            | 9.02 | II   |
| 3                | SHRAVANI SHITAL SHINDE    | 8.29 | III  |
| <u>F Y Civil</u> |                           |      |      |
| 1                | PATIL VAISHNAVI BABASAHEB | 9.55 | I    |
| 2                | SAKSHI MARUTI CHAVAN      | 9.29 | II   |
| 3                | MAGDUM TANAVI ASHOK       | 8.14 | III  |

## ● PLACEMENT DETAILS

| Sl. No. | Name of Student               | Name of the Company                                                 | Annual Pay Package (LPA) (₹) |
|---------|-------------------------------|---------------------------------------------------------------------|------------------------------|
| 1       | MANE VINAYAK RAJKUMAR         | Vision Skylish Group, Pune                                          | 3.8                          |
| 2       | MUJAWAR AASHFAK ABDULGAFAR    | Trinity Buildcon, Sangli                                            | 3.5                          |
| 3       | ABHISHEK MAHAVEER DANWADE     | TechFinix, Mumbai                                                   | 3.2                          |
| 4       | PATIL MAYURESH UMESH          | TechFinix, Mumbai                                                   | 3.2                          |
| 5       | RUGGE SUJAY SANJAY            | Global Infrastructure, Jyesta corporate Entity, Technico Insustries | 3.2                          |
| 6       | JADHAV SAKSHI ARUN            | S. S. Civil Projects Private Limited, Pune                          | 2.8                          |
| 7       | AKIWATE ANJALI RAJENDRA       | Dhansmruti Buidcon pvt ltd, Pune                                    | 2.6                          |
| 8       | PATIL DEEPAK PRAKASH          | Swastik Constructions                                               | 2.6                          |
| 9       | GIDDE PARAS SACHIN            | Ultratech                                                           | 2.5                          |
| 10      | SWAMI AKHILESH SHIVLING       | Ultratech                                                           | 2.5                          |
| 11      | KUMBHAR OMKAR NARAYAN         | Ultratech                                                           | 2.5                          |
| 12      | VARDHAMANE SARTHAK SHANTINATH | Technico Insustries                                                 | 2.4                          |
| 13      | SHINDE SAMRUDDHI SANJAY       | Shivtirth Civil Engineering services, Mumbai                        | 2.2                          |
| 14      | CHAVAN PRATHMESH SANTOSH      | Shivtirth Civil Engineering services, Mumbai                        | 2.2                          |
| 15      | PATIL VEDIKA SADASHIV         | Shivtirth Civil Engineering services, Mumbai                        | 2.2                          |

|    |                             |                                              |      |
|----|-----------------------------|----------------------------------------------|------|
| 16 | UTHALE ADITI DATTATRAY      | Shivtirth Civil Engineering services, Mumbai | 2.2  |
| 17 | MALAWADE DHIRAJ RAJENDRA    | MANAN Constructions, Sangli                  | 2.1  |
| 18 | KESARKAR UTKARSH DEEPAK     | Long span structures pvt ltd, Pune           | 1.8  |
| 19 | MOHITE BUDDHABHUSHAN SUBODH | Flytop Group, Pune                           | 1.68 |
| 20 | PATIL RAJVARDHAN DASHRATH   | Flytop Group, Pune                           | 1.68 |
| 21 | SHAIKH SIFANA YASIN         | Flytop Group, Pune                           | 1.68 |
| 22 | MULLA SHAHABAJ RAFIK        | Flytop Group, Pune                           | 1.68 |

- **Personality**



**Elattuvalapil Sreedharan**

Elattuvalapil Sreedharan (born 12 June 1932) is an Indian engineer and politician from the Indian state of Kerala. He is credited with changing the face of public transport in India with his leadership in building the Konkan Railway and the Delhi Metro while he served as the managing director of Delhi Metro Rail Corporation (DMRC) between 1995 and 2012.<sup>[1]</sup> Known as the *Metro Man*, he was awarded the Padma Shri by the Government of India in 2001,<sup>[2]</sup> the Padma Vibhushan in 2008,<sup>[3]</sup> the Chevalier de la Legion of Honour<sup>[2]</sup> in 2005 by the Government of France and was named one of Asia's Heroes by *Time* magazine in 2003.<sup>[4][5]</sup> Sreedharan was appointed by the former UN Secretary General Ban Ki-moon to serve on the United Nations's High Level Advisory Group on Sustainable Transport (HLAG-ST) for a period of three years in 2015. He was also served as a Member of Railway Board, Govt of India. He is a member of Mata Vaishno Devi Shrine Board.<sup>[6][7][8]</sup> He briefly served as a national executive council member of Bharatiya Janata Party, but later quit active politics in December 2021.<sup>[9]</sup> He also worked as an advisor of Dhaka Metro authority which is called Dhaka Mass Transit Company Limited under the Railway Ministry of Bangladesh.<sup>[10]</sup>

#### Early life and education

E. Sreedharan was born on 12 June 1932 in present-day Karukaputhur, near Pattambi, Palakkad District, Kerala, into a Malayali family<sup>[11][12]</sup> to Keezhveetil Neelakandan Moosath, a Moosath Shakta Brahmin and Ammaluamma a Nair, however according to matrilineality he has taken the Nair caste.<sup>[13]</sup>

Sreedharan had his primary schooling at Govt. Lower Primary School, Chathannur, near Pattambi in the Palakkad district. He then studied at the Basel Evangelical Mission School, Palakkad, and at the Victoria College, Palakkad. He later on completed his Civil Engineering degree from the Government Engineering College, Kakinada, in Andhra Pradesh, presently known as Jawaharlal Nehru Technological University.<sup>[14][15]</sup>

Sreedharan and T. N. Seshan were classmates at BEM High School and Victoria College in Palakkad. Both of them were selected for Engineering at JNTU Kakinada, a university in a port town in Andhra Pradesh; however, E. Sreedharan decided to pursue it, while T. N. Seshan decided to join Madras Christian College (MCC).<sup>[16]</sup>

#### Career as a professor

For a short period, Sreedharan worked as a lecturer in Civil engineering at the Government Polytechnic, Kozhikode<sup>[11][12]</sup> and a year at the Bombay Port Trust as an apprentice. He subsequently joined the Indian Railway Service of Engineers (IRSE), after clearing the Indian Engineering Services Exam in 1953 conducted by the UPSC. His first assignment was in the Southern Railway as a Probationary Assistant Engineer in December 1954.<sup>[17]</sup>

#### Government career



#### Pamban Bridge

In December 1964, a cyclone washed away parts of Pamban Bridge that connected Rameswaram to mainland Tamil Nadu. The Railways set a target of six months for the bridge to be repaired while Sreedharan's boss, under whose jurisdiction the bridge came, reduced it to three months. Sreedharan was put in-charge of the execution, and he restored the bridge in just 46 days.<sup>[11][12]</sup> The *Railway minister's Award* was given to him in recognition of this achievement.

#### Kolkata Metro

*Main article: Kolkata Metro*

In 1970, as the deputy chief engineer, he was put in charge of the implementation, planning and design of the Calcutta Metro, the first ever metro in India.<sup>[11]</sup> Sreedharan not only completed this much heralded project but also laid down the foundation of modern infrastructure engineering in India. He was taken off this post in 1975.<sup>[18]</sup>

#### Cochin Shipyard Limited

*Main article: Cochin Shipyard*

When Sreedharan joined the Cochin Shipyard in October 1979,<sup>[1]</sup> it was undergoing a phase of unproductivity. The production of its first ship *MV Rani Padmini* had been delayed for a long

period.<sup>[18]</sup> When Sreedharan took over, he turned the fortunes of the shipyard around and made sure its first ship was built while he was its chairman and managing director (CMD). In 1981, under Sreedharan's leadership, the shipyard launched its first ship, the *MV Padmini*.<sup>[19]</sup>

#### Finished projects



The 1,319 m (4,327 ft) long Konkan Railway bridge across the Zuari river in Goa.

Konkan Railway

*Main article: Konkan Railway*

He was promoted as general manager, Western Railway in July 1987, and in July 1989 elevated to the post of Member Engineering, Railway Board and ex-officio Secretary to the Government of India.<sup>[12]</sup> On his retirement in June 1990, the Government made it clear it still needed his services and he was appointed the CMD of Konkan Railway on contract in 1990 by the then railway minister, George Fernandes. Under his stewardship, the company executed its mandate in seven years. The project was unique in many respects. It was the first major project in India to be undertaken on a BOT (Build-Operate-Transfer) basis; the organisation structure was different from that of a typical Indian Railway set-up; the project had 93 tunnels along a length of 82 km and involved tunnelling through soft soil. The total project covered 760 km and had over 150 bridges. That a public sector project could be completed without significant cost and time overruns was considered an achievement by the general public.<sup>[20]</sup> Konkan Railway has been covered in the Extreme Railways program by Chris Tarrant as one of the most difficult railway projects to have been constructed in the world.<sup>[21]</sup>

#### Delhi Metro

*Main article: Delhi Metro*



Delhi MetroSreedharan calls on the Union Minister for Human Resource Development, Shri Prakash Javadekar in 2016

He was made the managing director of Delhi Metro Rail Corporation by then Delhi Chief Minister Sahib Singh Verma and by mid 1997 all the scheduled sections were completed by their target date or before, and within their respective budgets. Sreedharan was given

the sobriquet of *Metro Man* by the media for his grand success in executing the completion of the Delhi Metro.<sup>[22]</sup> His stint in the Delhi Metro has been considered so successful and crucial to India that in 2005, he was awarded the Chevalier de la Légion d'honneur (Knight of the Legion of Honour) by the government of France, and the Padma Vibhushan by the government of India in 2008.<sup>[3]</sup> There were also demands by prominent political figures that Sreedharan be awarded the Bharat Ratna, the most prestigious civilian award in India.<sup>[23]</sup> He was particularly known for isolating his projects from political pressures and influences and winning political commitments for fast execution of projects.<sup>[24][25]</sup> He had announced that he would retire by the end of 2005, but his tenure was further extended to oversee the completion of the second phase of Delhi Metro. After 16 years of service with the Delhi Metro, Sreedharan retired from service on 31 December 2011.

### Kochi Metro



Model of Kochi Metro rail station

After his retirement from DMRC, Sreedharan has been appointed as Principal Advisor of the Kochi Metro Rail Project.<sup>[26]</sup> Initially, the project faced hurdles when a controversy broke out with the government announcing a global tender process for Kochi Metro, rather than letting DMRC handle the consultancy and project execution as Sreedharan and DMRC had initially asked for.<sup>[1]</sup> Vested interests in the government have been alleged in this decision.<sup>[27]</sup> However, several political parties came out in opposition of the move, and backed Sreedharan's decision in enforcing DMRC's role in the Kochi Metro, after which the government reversed its stance.<sup>[28]</sup> Kochi metro was finally unveiled on 17 June 2017 amidst much celebrations.<sup>[29]</sup> The unveiling of the metro was considered a landmark event in India in terms of completion time, control systems used and initiatives such as employing transgender people,<sup>[30]</sup> vertical gardening, respecting migrant labourers,<sup>[31]</sup> and use of solar power.

### Lucknow Metro

*Main article: Lucknow Metro*

the Lucknow Metro<sup>[32]</sup> As per E. Sreedharan, Kochi metro was built in four years whereas Lucknow Metro will be completed in a period of two years and nine months, and that would be the fastest in India and the world till now.<sup>[33]</sup>

### Other Metros

He has been advising for the Jaipur Metro as well as DMRC has undertaken its implementation.<sup>[34]</sup> He has also been appointed as advisor for a proposed Metro rail system in Andhra Pradesh in the Visakhapatnam and Vijayawada (VGTM) areas, under the leadership of the Chief Minister Chandrababu Naidu.<sup>[35]</sup> He has also been advisor for Coimbatore Metro.

## Politics

Before joining politics, he commented on various political issues. Ahead of the 2014 Indian general election he endorsed Narendra Modi as Prime Minister and praised him for his quick decision making as Chief Minister of Gujarat.<sup>[36]</sup> When the Aam Aadmi Party government in Delhi announced to give free travel facility only to women passengers on buses and Metro trains, he opposed the decision and wrote to Prime Minister Narendra Modi for his "personal intervention".<sup>[37]</sup> He opposed Kerala Government over a legislation which facilitate student organisational activities in all educational institutions, including private self-financing colleges.<sup>[38]</sup> He in statement said "campus politics is being encouraged by politicians and even by government leading to disruption of classes, student clashes, criminal activities such as murders, stabbing incidents etc. Unfortunately, some teachers with political leaning give mute support to such activities". He suggested that the KMRL must reduce fare prices and called outside consultants for Kochi metro's Pettah-Thripunithura extension a "foolish act".<sup>[39]</sup> He suggested the Indian Railways to stop borrowing capital for its operations and raise fare prices.<sup>[40]</sup> Sreedharan called India's Mumbai-Ahmedabad high-speed train project as a "highly expensive" undertaking that caters only to the elites.<sup>[41]</sup> Bharatiya Janata Party - On 18 February 2021, Sreedharan joined the Bharatiya Janata Party.<sup>[42]</sup> He contested in 2021 Kerala Legislative Assembly election from Palakkad assembly constituency and got 35.34% of votes polled, losing to the incumbent Shafi Parambil of the Indian National Congress, who got 38.06% of votes.<sup>[43]</sup> However, Sreedharan quit active politics on 17 December 2021.<sup>[44]</sup>

## Awards and accolades

President, Pratibha Devisingh Patil presenting the Padma Vibhushan to Sreedharan at Civil Investiture-II Ceremony, at Rashtrapati Bhavan, in New Delhi on 10 May 2008

- Padma Shri by the Government of India (2001)<sup>[2]</sup>
- *Man of the Year* by The Times of India (2002)<sup>[45]</sup>
- Om Prakash Bhasin Award for professional excellence in engineering (2002)<sup>[citation needed]</sup>
- *Dr.Y.Nayudamma Memorial Award*<sup>[46]</sup>
- *Chevalier de la Légion d'Honneur* (Knight of the Legion of Honour) by the government of France (2005)<sup>[2]</sup>
- *CNN-IBN Indian of the Year 2007: Public Service* (2008)<sup>[47]</sup>
- Padma Vibhushan by the Government of India (2008)<sup>[3]</sup>
- D.Litt by Rajasthan Technical University, Kota, Rajasthan, in 2009<sup>[4]</sup>
- Degree of Doctor of Philosophy (Honoris causa) from IIT Roorkee, 2009.<sup>[4]</sup>
- Honorary doctorate by Cochin University of Science and Technology in 2010.<sup>[48]</sup>
- Sree Chithira Thirunal National Award, 2012<sup>[49][50]</sup>
- Degree of Doctor of Science (Honoris Causa) by Mahamaya Technical University on its first convocation (2013)<sup>[51]</sup>
- Order of the Rising Sun, Gold and Silver star by Government of Japan (2013)<sup>[52]</sup>
- KPP Nambiar Award by IEEE Kerala Section (2017)

