



**CHAITANYA BHARATHI**  
**INSTITUTE OF TECHNOLOGY (A)**

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## Department of Civil Engineering

### Details of Patents

| Sl. No. | Title                                                                                           | Appl. No, and date of filing/<br>publishing/ Granted                                           | Inventors                                                                                                                                                                                                             | Status                                         |
|---------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
|         | AN INNOVATIVE TECHNIQUE FOR HIGH-PRECISION RAINFALL FORECASTING                                 | Application No.: 202541046083<br>Date of filling: 13/05/2025<br>Date of publishing: 30/05/2025 | 1. Jnana Ranjan Khuntia<br>2. Kamalini Devi<br>3. Ramanarayan Sankriti                                                                                                                                                | Published on 30/05/2025.<br>Under Examination. |
| 1       | Integration of bioplastics in civil engineering for numerous environmental and economic benefit | Application No.: 202441016149<br>Date of filling: 07/03/2024<br>Date of publishing: 22/03/2024 | 4. Mr. G. Somireddy,<br>5. Dr. Satish kumar M<br>6. Dr. V raju M<br>7. Dr. G. Prasanna kumar,<br>8. Dr. C. Ravi Kumar Reddy<br>9. Dr. S. Basu,<br>10. Mr. S. Prem Kumar<br>11. Mr. E S Karthic<br>12. Mrs. K. Chaitra | Published on 22/03/2024.<br>Under Examination. |
| 2.      | Method and system for stream discharge forecasting using machine learning models                | Application No.: 202441039102<br>Date of filling: 18/05/2024<br>Date of publishing: 31/05/2024 | 1. Sri Ramanarayan Sankriti<br>2. Dr Saravanan Subbarayan<br>3. Dr K Jagannadha Rao<br>4. Dr Nemani Ravi Dakshinamurthy<br>5. Sri Gopisetty Viswanath<br>6. Mr.Gugulothu Yakub<br>7. Shivarathri Charan Kumar         | Published on 31/05/2024<br>Under Examination.  |

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|----|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
|    |                                                                                                                                 |                                                                                                | 8. M Sai Teja Yadav<br>9. Dr.M.Jenath                                                                                                                                                                                                    |                                               |
| 3. | Smart drainage system for traffic management during rainfall events                                                             | Application No.: 202441039108<br>Date of filling: 18/05/2024<br>Date of publishing: 31/05/2024 | 1. Sri Ramanarayan Sankriti<br>2. Dr Sugamya<br>3. Dr Nemani Ravi Dakshinamurthy<br>4. Dr K Jagannadha Rao<br>5. Sri Gopisetty Viswanath<br>6. Mr.Srikar Sanaka<br>7. Mr Pranay Reddy<br>8. Mr. Srujan Chada<br>9. Dr. K. Thiagarajan    | Published on 31/05/2024<br>Under Examination. |
| 4. | Development of artificial intelligence techniques to predict the energy absorption in Fiber reinforced self-compacting concrete | Application No.: 202331030792<br>Date of filling: 28/04/2023<br>Date of publishing: 05/05/2023 | 1. Dr. Anjan Kumar Dutta<br>2. S. Satish<br>3. Y. Suma<br>4. Yogesh Pathak<br>5. Swapnil Balakrishna Gorade<br>6. Dr. T. Naresh Kumar<br>7. Mr. Kasibhatla Vishnu Vardhan<br>8. Mr. Madapuri Harikrishna<br>9. Dr. N. R. Dakshina Murthy | Published on 05/05/2023<br>Under Examination. |
| 5. | Evaluating Shear Strength of Light Weight Concrete using Artificial Intelligence                                                | Application No.: 202321031895<br>Date of filling: 04/05/2023<br>Date of publishing: 16/06/2023 | 1. Dr. Sikandhar Ankush Rasal<br>2. Dr. Abirbaran Handa<br>3. Dr. N. R. Dakshina Murthy<br>4. Prof. Amrutha Jagadish Killol<br>5. A. Swetha<br>6. Ahsan Rabbani                                                                          | Published on 16/06/2023<br>Under Examination. |

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|     |                                                                                                                  |                                                                                                 | 7. Ratod Vinod Kumar<br>8. Pawar Praveen                                                                                                                                                                                                      |                                               |
| 6.  | A sustainable lightweight geopolymer building blocks with PET flakes, GGBS and fly ash .                         | Application No.: 202241034481<br>Date of filling: 16/06/2022<br>Date of publishing: 15/07/2022  | 1. Dr. B. Sudheer Kumar Reddy,<br>2. Dr. Anuja Charpe,<br>3. Dr. Venkatesh Noolu,<br>4. Dr. Chaitanya Srikrishna.                                                                                                                             | Granted on 04/08/2023                         |
| 7.  | Self-compacting concrete with processed recycled coarse aggregate.                                               | Application No.: 2021104204<br>Date of filling: 15/07/2021<br>Date of Grant: 25/08/2021         | 1. Dr. N.R. Dakshina Murthy,<br>2. Srikanth Nune,<br>3. D. Rama Seshu.                                                                                                                                                                        | Granted on 25/08/2021                         |
| 8.  | High strength concrete with alccofine as replacement of cement.                                                  | Application No.: 202141028030A<br>Date of filling: 22/06/2021<br>Date of publishing: 02/07/2021 | 1. Dr. N.R. Dakshina Murthy,<br>2. Dr. K. Jagannadha rao,<br>3. Dr. D. Rama Seshu.                                                                                                                                                            | Published on 02/07/2021<br>Under Examination. |
| 9.  | A novel method for emotion detection of child autism Spectrum disorder(ASM) using machine learning.              | Application No.: 202041029727<br>Date of filling: 13/07/2020<br>Date of publishing: 31/07/2020  | 1. Mr R. Srivel<br>2. Mr. Ramanarayan Sankriti<br>3. Mr. D. Sathya Narayanan<br>4. Mrs. G. Jyothi<br>5. Mr. Palvadi Srinivas Kumar<br>6. Mr. Pradeep K G M<br>7. Mrs. Gira Aparna,<br>8. Mrs. Pattipati Mounica<br>9. Mrs. Parvathi Pothumani | Published on 31/07/2020<br>Under Examination. |
| 10. | Remote monitoring and control of electrical machines in manufacturing industries using wireless sensor networks. | Application No.: 202041022860<br>Date of filling: 01/06/2020<br>Date of publishing: 12/06/2020  | 1. Dr. M. Saravanan<br>2. Dr. S. Arul Kumar<br>3. Dr. Pathan Rahira<br>4. Mr. Ramanarayan Sankriti<br>5. Mr R. Srivel<br>6. Mrs. G. Jyothi<br>7. Dr. S. Vani                                                                                  | Published on 12/06/2020<br>Under Examination. |

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|  |  |  | <div>8. Mrs. Pattipati Mounica</div> <div>9. Mr. Palvadi Srinivas Kumar</div> |  |
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