# List of 80 qualifying teams of "The Inventor's Challenge - 2023" Semi-final Round

| Serial Number | Faculty Name | Name of the students in the Team | Institute Name | Name of the Idea |
|---|---|---|---|---|
| 1 | Susithra K | 1. Nivetha S<br>2. Agalya M | Rathinam Technical Campus | Sign Language Recognition |
| 2 | Jeya Daisy I | 1. Pavin P S<br>2. Sobika M<br>3. Thirumalaivasan K N | Kumaraguru College of Technology | Foul Hen Detection In Poultry Farm By Monitoring The Egg Production |
| 3 | Dr Raja Ram Kumar | 1. Didhiti Dey<br>2. Debdeepta Ghosh<br>3. Nayan Nirban Baruah<br>4. Ujjal Ray | Ghani Khan Chowdhury Institute of Engineering and Technology | Design and Development of a Dual Power Heartbeat Tracker System with Real-Time Data Visualization for Rural Health Monitoring |
| 4 | Dr. M. Poongothai | 1. Karthik Venkatesh T<br>2. Sanjay V<br>3. Dinesh K<br>4. Dharun Kumar A | Coimbatore Institute of Technology | A Low Cost System to Detect Insects In Mango |
| 5 | Prof.N.N.Patel | 1. Sidhant Kumar<br>2. Amaliyar Manojbhai M<br>3. Ninama Bharatbhai R | Ganpat University - U.V.Patel College of Engineering | Iot Based Smart Irrigation System |
| 6 | Dr. Jayarama Pradeep K P | 1. Aiswarya T S<br>2. Alex A<br>3. Harini N<br>4. Nikith Jude Serrao | St.Joseph's College of Engineering | Smart Load Management and Individual Load Monitoring |
| 7 | Kunal Singh | 1. Muskan | Maharaja Agrasen University, Baddi (HP) | Ecoprint |

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|---|---|---|---|---|
| 8 | S. Indumathi | 1. R. K. Dhinesh<br>2. R. Balamurugan | K.L.N College of Engineering | Magna-Charge |
| 9 | D. Srikar | 1. G. Rishi Kiran<br>2. D. Sahasra<br>3. K. Shravanth<br>4. K. Sushanth Goud | B.V.Raju Institute of Technology | Recycling Vending Machine |
| 10 | Dr. Leela G H | 1. Sneha S Chavadi<br>2. Shreenikha H S<br>3. Shashank M Jadhav<br>4. Shreehari G V | Bapuji Institute of Engineering and Technology, Davangere | The Eye Directive Wheel Chair |
| 11 | Dr V R Ravi | 1. Aakash M<br>2. Hamsa Geetha K V<br>3. Nithyanantham R<br>4. Sushma S T | Vel Tech High Tech Dr Rangarajan Dr Sakunthala Engineering College | AI-Based Non-Invasive Glucometer using Breath Acetone |
| 12 | Dr. S. Manjula | 1. Prawin Kumar. J. S<br>2. Sathya Sivam. L<br>3. Uttham Sing. K<br>4. Prathishkumar. T | Rajalakshmi Institute of Technology | AI Enabled Voice Assistance Device for Visually Impaired People |
| 13 | Dr. Bala Vishnu J | 1. R V Sudhan Eshwaran<br>2. Vasikaran S<br>3. Vedhaanth N P J<br>4. N Yavanika | Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham | Iot and Machine Learning Approach for Micro-Irrigation System |

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|---|---|---|---|---|
| 14 | Revathi P | 1. Deepakv R<br>2. Hemadarshini S V<br>3. Kavinkumar P | Kongu Engineering College | Design and Development of Wearable Device for Patients with Multiple Sclerosis using Soft Robotics |
| 15 | Shraddha Shrivastava | 1. Kartik Bakshi<br>2. Shilp Patidar<br>3. Ramkrishna Asati<br>4. Deepanshi Saxena | Lakshmi Narain College of Technology, Bhopal | Eco-Sort |
| 16 | Dr. Ravuri Daniel | 1. Kadiyala Shashank<br>2. Mandapati Hemanth Sai Suryam<br>3. Jammu Pavan Kumar<br>4. Mohammad Faizuddin | Prasad V Potluri Siddhartha Institute of Technology | Pothole Detection System |
| 17 | Lingeshwaran M | 1. Charan Velavan<br>2. Ebi Manuel<br>3. Benie Jaison A T<br>4. Akshay B | St. Joseph's College of Engineering, Chennai | Domestic Emotion Monitoring System |
| 18 | Dr. Badrinath Narayanamurthy | 1. Satyam Soni<br>2. Neha Ahirwar<br>3. Ranvita Mahadevan<br>4. Ayush Sharma | Vellore Institute of Technology, Vellore | Iot-Enabled Waste Optimization: Pioneering Innovative Waste Management for a Sustainable Future |
| 19 | Kayalvizhi K R | 1. Agnes Menesa M<br>2. Benita Jael. J<br>3. Edith Praiselin P<br>4. Feslin Sherina S | St.Joseph's College of Engineering | Aerorevive |

# List of 80 qualifying teams of "The Inventor's Challenge - 2023" Semi-final Round

| Serial Number | Faculty Name | Name of the students in the Team | Institute Name | Name of the Idea |
|---|---|---|---|---|
| 20 | Dr. Ganti Sreelakshmi | 1. P. Uday Kiran<br>2. G. Anusha<br>3. K. Bhavya Reddy<br>4. P. Priyanka Yadav | Geethanjali College of Engineering and Technology, Hyderabad | Smart Bogie Waste Mangement and Platform Extension System |
| 21 | Ramkumar R | 1. Thiruvarulselvan K<br>2. Thishon J<br>3. Yukesh Chandran M | Bannari Amman Institute of Technology | Design and Development of Data Acquisition and Recovery System for Sounding Rockets |
| 22 | Dr. Shubhangi R. Chaudhary | 1. Manasi Gune<br>2. Sharvari Harangaonkar<br>3. Bakul Moghe<br>4. Vaibhavi Shetti | MKSSS's Cummins College of Engineering for Women, Pune | Nucleocropcare-Soil Health Management System |
| 23 | Dr. C. Rajasekaran | 1. Jeeva R<br>2. Jeevanantham M<br>3. Hariharan R | K.S. Rangasamy College of Technology | Crop-Smart Analyzer |
| 24 | Dr. Saheli Sarkhel | 1. Shazia Ali<br>2. Pritam Shaw<br>3. Sheikh Ikram Hossain | Netaji Subhash Engineering College | HOPE |
| 25 | Dr. C.Gnana Kousalya | 1. Elakkiya S P<br>2. Benita Kefiraa S<br>3. Noble Rosario D R | St. Joseph's Institute of Technology | Real-Time Passenger Count System for Smart Public Transportation: a Computer Vision-based Approach |
| 26 | Dr. J V Alamelu | 1. Bharath Gowda R<br>2. Varsha K | Ramaiah Institute of Technology | Identification and Detection of Freshness and Chemicals In Edible Fishes using IoT and Machine Learning |

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| Serial Number | Faculty Name | Name of the students in the Team | Institute Name | Name of the Idea |
|---|---|---|---|---|
| 27 | Prof. (Dr.) Kshitij Shinghal | 1. Akshit Tyagi<br>2. Prigyansh Saxena<br>3. Shakti Singh<br>4. Pranav Gupta | Moradabad Institute of Technology | Smart Waste Water Management System |
| 28 | Dr. J. Senthilkumar | 1. Gopi Krishnan P<br>2. Subhendu Sekhar Sahoo<br>3. Adithya G. S<br>4. Sanjay S | Kalaignarkarunanidhi Institute of Technology | Transformative Smart Waste Management Solution for Sustainable Urban Futures |
| 29 | G.Preeta Shirley | 1. S. Abisha<br>2. W. Annie Kiruba<br>3. M. S. Dhanushya<br>4. S. Krithika | Ponjesly College of Engineering | Sound Effect to Electricity |
| 30 | Dr. S. Merlin Gilbert Raj | 1. Nadar Samuvel Bhaskar<br>2. Emi Mary Rose<br>3. Hubert Spencer I<br>4. Kakani Vamsidhar | Karunya Institute of Technology and Sciences | Safemineai: Vigilant Worker Protection and Efficiency |
| 31 | S. Janani | 1. Bharathy S<br>2. Babypreethi  M. S<br>3. Jemima K<br>4. Roopa S<br>5. Ruthick Sree S | Kamaraj College of Engineering and Technology | Maternal Care: Wearable Wristband for Pregnant Ladies |

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|---|---|---|---|---|
| 32 | Parthiban .B | 1. Praveen Kumar. S<br>2. Prem Kumar. T<br>3. Srisanthosh. B | Sri Manakula Vinayagar Engineering College | NMF based Brain Controlled Bionic Arm & Home Appliances |
| 33 | Sainath. S | 1. Harreni. V<br>2. Ajay. H<br>3. Tamil Surya. B<br>4. Yogeshwaran. B. S | PSG College of Technology, Coimbatore | Development of Sweat-Based Multimodal Analysis System to Monitor Stress and Renal Functions using Arm Processor |
| 34 | Rensi Sam Mathew | 1. Abhijith P<br>2. Jishnu E. P<br>3. Mani Kuruvilla. Anusree P. | LBS College of Engineering | ISL in a Box for Deaf and Hard of Hearing |
| 35 | Ciji Pearl Kurian | 1. Akshita Goenka<br>2. Padmashree K S<br>3. Soumya Pan<br>4. Rithvik Arjun H M | Manipal Institute of Technology, Manipal | A Device for IoT Based Real-Time Temperature Setpoint Prediction And Circadian Entrainment. |
| 36 | Dr. Y Praveen Kumar Reddy | 1. Arfan Ali<br>2. Manish Babu<br>3. Sathwika | Mahatma Gandhi Institute of Technology | A Smart Hand-Held Device for The Diagnosis of Chronic Eye Diseases |
| 37 | Satish Ba | 1. Harshitha M<br>2. Nikhilesh Singh<br>3. Varun C<br>4. Rashish | Dayananda Sagar College of Engineering | Assistive Tech for The Blind |
| 38 | Dr. B. Gopi | 1. S. Sowbaurnika | Muthayammal Engineering College | Green Resources Energy Based Smart Home Automation using Iot |

# List of 80 qualifying teams of "The Inventor's Challenge - 2023" Semi-final Round

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|---|---|---|---|---|
| 39 | Saravanakumar Nm | 1. Sanjay S<br>2. Vishnu K<br>3. Mummudicholan T<br>4. Ashok Kumar M | Karpagam College of Engineering | Sign Language Recognition |
| 40 | Shailesh Shetty S | 1. Bhargavachari S P<br>2. Chakshith B U<br>3. Hemanth K K<br>4. Lisha D S | Srinivas Institute of Technology | Elavo - An IoT Based Intelligent System for Smart City |
| 41 | Dr. T. Ruban Deva Prakash | 1. Achshah R M | JKK Nataraja College of Engineering and Technology | Intellibin2compost: a Green Revolution In Waste Management |
| 42 | Divya R | 1. Surrvesh K S<br>2. Priya K<br>3. Aswin K | PSG Institute of Technology and Applied Research | Well-on-Wheels |
| 43 | Jagadeesh Kumar P | 1. Harish Hari<br>2. Aparna M Sunil<br>3. Fathima Farha<br>4. K B Sree Lakshmy | Model Engineering College, Thrikkakara, Kochi | Non-Wearable Fall Detection System with MM Wave Radar for Elderly Care |
| 44 | Dr. M.Sudha | 1. T. Parameswaran<br>2. S. Eswaran,<br>3. A. Sakthivel | Paavai Engineering College | Silicon Photonics |

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| Serial Number | Faculty Name | Name of the students in the Team | Institute Name | Name of the Idea |
|---|---|---|---|---|
| 45 | Prof. Pradeep Singh Yadav | 1. Deepesh Sujane<br>2. Layba Noor<br>3. Khushi Soni<br>4. Shubham Sen | Sagar Institute of Science and Technology | B.R.S.D. (Bus Route Surveying Device) |
| 46 | Dr. P. Sasikumar | 1. Ayushi Agarwal<br>2. Akshitt Saxena<br>3. Bhavya Nagrath<br>4. Carmel Sanjana Jayavanth | Vellore Institute of Technology, Vellore | Smart Platform based on IoT and Wsn for Monitoring and Control of a Greenhouse In The Context of Precision Agriculture. |
| 47 | V Badri Rama Krishnan | 1. B. Nandini<br>2. B. Sai Anvitha Reddy<br>3. Misha G<br>4. Madhulika M | G. Narayanamma Institute of Technology and Science | Haha Wheels |
| 48 | Dr. Roopa M | 1. Sriram B<br>2. Vishnuvardhan. S<br>3. Madhavan. V<br>4. Sanjay Kumar. A | SRM Institute of Science and Technology, Ramapuram | Asthma Secure – a Real Time Predictive Asthma Monitoring System |
| 49 | Dr. L. Chitra | 1. Veeramuneeswaran P<br>2. M. K Manobala | Aarupadai Veedu Institute of Technology | Smart Control Valve with Intergrated Sensor and Actuator for Smart Cities |
| 50 | Dr.R.Dhanaseker | 1. C. S. Mirthulaa<br>2. P. P. Narenthira Sai Raam<br>3. B. Naveen<br>4. M. Swathy | Sri Sairam Insitute of Technology | Automated Disease Recognition and Precision Spraying Insecticide of Solar Controlled Drone |

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| Serial Number | Faculty Name | Name of the students in the Team | Institute Name | Name of the Idea |
|---|---|---|---|---|
| 51 | Dr. G. Amuthavalli | 1. P. Hariprasath<br>2. T. Muthumaran<br>3. R. Datchany | Sri Venkateshwaraa College of Engineering & Tehnology | Customizable Automated Drip Dryer(CA-DD) |
| 52 | Dr. Sachin Gajjar | 1. Harsh Chotaliya<br>2. Vedant A. Rokad<br>3. Rudra Kasta,<br>4. Deep Lad | Institute of Technology, Nirma University | Intelligent Speed and Traffic Light Control at Traffic Signals for Improved Road Safety and Rule Adherence using Machine Learning Algorithm |
| 53 | Manoj Kavedia | 1. Ritik Pandey<br>2. Dhruv Dalvi<br>3. Bhavesh Nanda<br>4. Sakshi Joshi | Thadomal Shahani Engineering College | Empowervoice |
| 54 | Senthil Kumar A | 1. Vinoth D<br>2. Vignesh Kumar S<br>3. Surendar G B | Chennai Institute of Technology | Infantcryrespseg: Automated Boundary Detection for Expiratory and Inspiratory Episodes in Baby Cry Signals |
| 55 | Ajith Kumar | 1. Varshith V Shetty<br>2. Nikhil A  S<br>3. Mir Uzair Akbar<br>4. Kshithish Shetty | Mangalore Institute of Technology & Engineering, Moodbidri. | Development of a Prototype of Smart Agri Photovoltaic System for Enhancing Land Use Efficiency and Revenue of Farmers |
| 56 | Indhumathi N | 1. Priyanka<br>2. S Pragith S<br>3. Ravish K S | Kongu Engineering College | Smart Water Meter Monitoring and Distribution System |

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|---|---|---|---|---|
| 57 | Prof.Geo Jenefer | 1. Bharath<br>2. Kishore<br>3. Moses<br>4. Britto | St. Xavier's Catholic College of Engineering | Avoiding Two Wheeler Accidents through Data Analytics |
| 58 | T.Abinayasaraswathy | 1. Aarthi. P<br>2. Anusha. C<br>3. Rajasri. S | Sri Manakula Vinayagar Engineering College | Anti Power Theft |
| 59 | Dr. G. Neeraja Rani | 1. Relangi Tarun Kumar<br>2. Gandhari Aarush Raj<br>3. V. R. Sai Sharanya | Geethanjali College of Engineering and Technology | Holesols |
| 60 | B. Bakkiyalakshmi | 1. Barath Kumar . G<br>2. Murugeshwar . P<br>3. Tharageswaran . S<br>4. Tinku Saravanan . D | Adhiparasakthi College of Engineering, Kalavai | Intravenous Drip Flow Monitoring System using lot |
| 61 | Smruti Pore | 1. Abhijit Bhimrao Ghevade<br>2. Anurag Sudhakar Madnaik<br>3. Varad Dayanand Lipare | DKTE Society's Textile and Engineering Institute, Ichalkaranji | Design of Predictive Analysis System for an Industrial Machine |
| 62 | Dr. Arun A V | 1. Akhil Davis<br>2. Anna Johny<br>3. Abhishek S Menon | Sahrdaya College of Engineering & Technology | NIA-WB, Navigating Intelligent Assistive Wheelchair *** Bed |

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|---|---|---|---|---|
| 63 | Trisha Paul | 1. Md. Mustafa Abdullha<br>2. Nirban Roy<br>3. Tuhin Karmakar<br>4. Anushka Ganguly | Institute of Engineering and Management | Low-Cost 3D Printed Prosthetic Arm for Medical Rehabilitation |
| 64 | Dr.J.Vijayalakshmi<br>Prof. Vibin Mammen Vinod | 1. Jeevanantham . N<br>2. Haripriya. J<br>3. Jayasurya. K | Kongu Engineering College | Real-Time Fabric Shrinkage Monitoring and Control using Arm Processor |
| 65 | Sofana Reka | 1. Fawaaz S<br>2. Anantharaman Prasad | Vellore Institute of Technology, Chennai | Anti G Loc Suit with G Loc Detection |
| 66 | Dr. Priti Das | 1. Kaustav Laskar<br>2. Debmalya Das<br>3. Rajdeep Biswas<br>4. Subham Das | Institute of Engineering & Management (IEM) Kolkata | Development of a Robust Lidar - Lifi Communication System for Deployment In Disaster Management |
| 67 | Dr. J. Isaivani | 1. J. Lavanya<br>2. S. Kirthana<br>3. R. C. Ananya | Sri Venkateswara College of Engineering | Real Time Monitoring and Control Device for Elderly Patients Facing Hypoglycemia. |
| 68 | Balaji.S | 1. Deenadayalan. A,<br>2. Raj. P<br>3. Parthasarathi. B<br>4. Anitha. R | Sri Venkateswara College of Engineering and Technology, Ariyur, Pondicherry | Automatic Roller Clamp |

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|---|---|---|---|---|
| 69 | Rashmi Seethur | 1. Kaushik M<br>2. Gautham Varma K<br>3. Nikhil Raghuraj<br>4. Nishchal Av | PES University, RR Campus | Satvagni -Smart Bio Gas Generator |
| 70 | Prof K B Rathod | 1. Bagthariya Shubh<br>2. Rathod Harmit<br>3. Danidharya Nirav<br>4. Kuldip Chauhan | Government Engineering College Rajkot | High Voltage Detecting Safety Helmet for Maitenance Staff |
| 71 | Dr. P. Sivaranjani | 1. Sathish Kumar G<br>2. Nithish S<br>3. Praveen Kumar S | Kongu Engineerig College | Smart Stethoscope Integrated with Mobile Apps for AI-Assisted Telemedicine |
| 72 | Vasanthkumar.CH | 1. Navya<br>2. Pavankumar<br>3. Sanath<br>4. Syamtej | Saveetha Engineering College | Integration of E-Mobility with Arm Controller, Adxl335, and GPS for Enhanced Condition Monitoring of Highways and Road Safety. |
| 73 | Dr Amritanshu Gupta | 1. Pragyaa<br>2. Ashrith<br>3. Justin<br>4. Vishwas | Manipal Institute of Technology, Manipal | Improvised Ryle's Tube for Accurate Naso-Gastric Placement |
| 74 | Dr. V. K. Pandey | 1. Ansuman Kumar Sinha<br>2. Shivam Upadhyay | NIET, Greater Noida | Accident Identification System using GSM and GPS |

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|---|---|---|---|---|
| 75 | K.Abirami | 1. Kavin Kaarthik. V<br>2. Poojaa R<br>3. Jeffrey J<br>4. Mohit R | Easwari Engineering College | Waste Management through Sound-Based Segregation |
| 76 | Prof. G R K D Satya Prasad | 1. Anjali Kumari<br>2. Pratik Paritosh Panda<br>3. Pradeepta Paul<br>4. Dhananjay Lenka<br>5. Neeraj Surya Gollakota | GIET University | Domestic Level AC – DC Microgrid with Load Factor Controller |
| 77 | Dr.D.Jayahar | 1. Pawar Megha<br>2. Desai Nikhil | Late N.B. Chhabada Institute of Engineering and Management, Raigaon, Satara | Implementation of a Domestic Wind Power Generation Scheme with Buck – Boost Converter to Improve Power Quality |
| 78 | Dr. Suseela S | 1. Thrigunath Reddy | Vellore Institute of Technology | Automated Plate Monitor |
| 79 | Prof.Abhishek Chaudhari | 1. Aryan Andhare<br>2. Mekrail Shaikh<br>3. Moteepur Shaikh<br>4. Meghan Wagle | Vivekanand Education Society's Institute of Technology | Iot Based Smart Helmet for Safe Driving |
| 80 | Prof.Venkatesh Murthy Nk | 1. Anushka Vijay Gunjal<br>2. Hamsa<br>3. Pranav Subrahmanya Bhat | Bangalore Institute of Technology | Industrial and Natural Disaster Detection and Management System |