

# MALLA REDDY ENGINEERING COLLEGE FOR WOMEN

(Autonomous Institution-UGC, Govt. of India)

NIRF Indian Ranking, Accepted by MHRD, Govt. of India

Accredited by NBA & NAAC with 'A+' Grade UGC, Govt. of India

Permanently Affiliated to JNTUH, Approved by AICTE, ISO 9001:2015 Certified Institution

AAA+ Rated by Careers 360 Magazine, National Ranking-Top 100 Rank band by Outlook



## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### FACULTY PATENT PUBLICATIONS FOR THE ACADEMIC YEAR 2024-2025

#### INDEX

#### Patent Publications:

S. No	Name of the Authors	Title of the Patent	Application No	Date of Application / Publication	Publication Reference
1	Dr S Vijaya Madahvi	AI based Sanitizer Robot	6368876	10 /06/2024	www.gov.uk/ipo
2	Dr M Kumudwathi	AI-Powered Unmanned Aerial Vehicle (UAV) for Persistent Aerial Surveillance in Military Zones	202441068072	13/09/2024	<a href="https://iprsearch.ipindia.gov.in/PublicSearch/">https://iprsearch.ipindia.gov.in/PublicSearch/</a>
3	Dr S Vijaya Madhavi	A System and Device of IOT based Electric Vehicle Application for smart Cities	202441080356	25/10/2024	<a href="https://iprsearch.ipindia.gov.in/PublicSearch/">https://iprsearch.ipindia.gov.in/PublicSearch/</a>
4	Dr A Ganga Dinesh Kumar	A System and Device of IOT based Electric Vehicle Application for smart Cities	202441080356	25/10/2024	<a href="https://iprsearch.ipindia.gov.in/PublicSearch/">https://iprsearch.ipindia.gov.in/PublicSearch/</a>
5	Dr TSNG Sarada Devi	A System and Device of IOT based Electric Vehicle Application for smart Cities	202441080356	25/10/2024	<a href="https://iprsearch.ipindia.gov.in/PublicSearch/">https://iprsearch.ipindia.gov.in/PublicSearch/</a>
6	Mr V Brahmam Yadav	A System and Device of IOT based Electric Vehicle Application for smart Cities	202441080356	25/10/2024	<a href="https://iprsearch.ipindia.gov.in/PublicSearch/">https://iprsearch.ipindia.gov.in/PublicSearch/</a>
7	Mr V Naresh	A System and Device of IOT based Electric Vehicle Application for smart Cities	202441080356	25/10/2024	<a href="https://iprsearch.ipindia.gov.in/PublicSearch/">https://iprsearch.ipindia.gov.in/PublicSearch/</a>
8	Mr E Venkatesh	Power Quality Analysis Using IOT	202441060301	16/08/2024	<a href="https://iprsearch.ipindia.gov.in/PublicSearch/">https://iprsearch.ipindia.gov.in/PublicSearch/</a>
9	Dr. Rahul Wilson Kotla	Buck Converter with Soft Switching Cells for PV Panel Applications	202441102255	10/01/2025	<a href="https://iprsearch.ipindia.gov.in/PublicSearch/">https://iprsearch.ipindia.gov.in/PublicSearch/</a>



Intellectual  
Property  
Office

# Certificate of Registration for a UK Design

Design number: 6368876

Grant date: 10 June 2024

Registration date: 29 May 2024

## This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Dr. Meesala Srinivasa Rao, Dr. Neelapu Madhu Latha, Dr. Sivarathri Vijaya

Madhavi, Dr. Jami Venkata Suman, Ms. Gorle Sai Prasanna, Mr. Madhav

Prabhu

in respect of the application of such design to:

AI based Sanitizer Robot

International Design Classification:

Version: 14-2023

Class: 15 MACHINES, NOT ELSEWHERE SPECIFIED

Subclass: 99 MISCELLANEOUS

## Adam Williams

Comptroller-General of Patents, Designs and Trade Marks

Intellectual Property Office

The attention of the Proprietor(s) is drawn to the important notes overleaf.





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Department for Promotion of Industry and Internal Trade  
Ministry of Commerce & Industry,  
Government of India

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#### Application Details

APPLICATION NUMBER	202441068072
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	09/09/2024
APPLICANT NAME	1 . Dr. R. Sofia 2 . Dr M Kumudwathi 3 . Mr. Jegadeesan S 4 . Dr. Gaddada Satyanarayana 5 . Dr.S.Murugan 6 . G Kiran Kumar 7 . Mr. N.Sathiyathan 8 . Dr. K. Vijayakumar
TITLE OF INVENTION	AI-POWERED UNMANNED AERIAL VEHICLE (UAV) FOR PERSISTENT AERIAL SURVEILLANCE IN MILITARY ZONES
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	patent.vaagaiip@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	13/09/2024

#### Application Status

APPLICATION STATUS	<b>Awaiting Request for Examination</b>
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[View Documents](#)

➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

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#### Application Details

APPLICATION NUMBER	202441080356
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	22/10/2024
APPLICANT NAME	1 . Dr Y Madhaveelatha 2 . Dr S. Vijaya Madhavi 3 . Dr Arra Ganga Dinesh Kumar 4 . Ms T S N G Sarada Devi 5 . Mr Vakadani Brahmam Yadav 6 . Mr Vadlamudi Naresh
TITLE OF INVENTION	A SYSTEM AND DEVICE OF IOT BASED ELECTRIC VEHICLE APPLICATION FOR SMART CITIES
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	admin@senanip.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	25/10/2024

#### Application Status

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TITLE OF INVENTION	A SYSTEM AND DEVICE OF IOT BASED ELECTRIC VEHICLE APPLICATION FOR SMART CITIES
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	admin@senanip.com
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TITLE OF INVENTION	A SYSTEM AND DEVICE OF IOT BASED ELECTRIC VEHICLE APPLICATION FOR SMART CITIES
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	admin@senanip.com
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APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	22/10/2024
APPLICANT NAME	1 . Dr Y Madhaveelatha 2 . Dr S. Vijaya Madhavi 3 . Dr Arra Ganga Dinesh Kumar 4 . Ms T S N G Sarada Devi 5 . Mr Vakadani Brahmam Yadav 6 . Mr Vadlamudi Naresh
TITLE OF INVENTION	A SYSTEM AND DEVICE OF IOT BASED ELECTRIC VEHICLE APPLICATION FOR SMART CITIES
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	admin@senanip.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	25/10/2024

#### Application Status

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#### Application Details

APPLICATION NUMBER	202441060301
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	09/08/2024
APPLICANT NAME	1 . Dr. Venkatesh E. 2 . Mr. Sreekanth Mamidala 3 . Mrs. P Swetha 4 . Mr. J. Srinivas 5 . Mr. Rampalli Jagan 6 . Dr. V. Bhuvaneswari 7 . Dr.K.Kalyan Chakravarthy 8 . Mr. G V Chiranjeevi Adari
TITLE OF INVENTION	POWER QUALITY ANALYSIS USING IOT
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	balaji.ntu@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	16/08/2024

#### Application Status

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#### Application Details

APPLICATION NUMBER	202441102255
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	23/12/2024
APPLICANT NAME	1 . Dr. Rahul Wilson Kotla Assistant Professor Dept. of EEE MRECW 2 . Dr. V. Aishwarya Associate Professor Dept. of EEE PEC 3 . Mrs. Bolla Kavya Assistant Professor Dept. of EEE ECET 4 . Dr.D.Jayahar Assistant Professor Dept. of EE DIET 5 . Dr.N.Babu Associate Professor Dept. of EEE JJCET 6 . Mr. Pravin Sopan Rajmane Assistant Professor Dept. of EEE DIET 7 . Mr. Vishwanath Pralhad Mohite Assistant Professor Dept. of EEE DIET 8 . K.Lavanya M.E(Power Systems) Dept. of EEE UCE,OU 9 . Mrs. Kunduru Anusha Assistant Professor Dept. of EEE SMEC
TITLE OF INVENTION	Buck Converter with Soft Switching Cells for PV Panel Applications
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	ipindiaoffice@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	10/01/2025

#### Application Status

APPLICATION STATUS	<b>Awaiting Request for Examination</b>
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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### FACULTY PATENT PUBLICATIONS FOR THE ACADEMIC YEAR 2023-2024

#### INDEX

#### Patent Publications:

S. No	Name of the Authors	Title of the Patent	Application No	Date of Application / Publication	Publication Reference
1	Dr A Ganga Dinesh Kumar	Infrared Sensors Based Speed Breaker and Barrier Detection for Vehicles	202341080641	01/12/2023	<a href="https://iprsearch.ipindia.gov.in/PublicSearch/">https://iprsearch.ipindia.gov.in/PublicSearch/</a>
2	Dr N Vengadachalam	Infrared Sensors Based Speed Breaker and Barrier Detection for Vehicles	202341080641	01/12/2023	<a href="https://iprsearch.ipindia.gov.in/PublicSearch/">https://iprsearch.ipindia.gov.in/PublicSearch/</a>
3	Mrs P Radhika	Infrared Sensors Based Speed Breaker and Barrier Detection for Vehicles	202341080641	01/12/2023	<a href="https://iprsearch.ipindia.gov.in/PublicSearch/">https://iprsearch.ipindia.gov.in/PublicSearch/</a>
4	Dr. Bolla Madhusudhana Reddy	Autonomous Control of Electric Vehicles using AI Technology	202341053642	01/09/2023	<a href="https://iprsearch.ipindia.gov.in/PublicSearch/">https://iprsearch.ipindia.gov.in/PublicSearch/</a>
5	Dr TSNG Sarada Devi	AI Based Solar Powered Electric Vehicle	413371-001	12/04/2024	<a href="https://iprsearch.ipindia.gov.in/PublicSearch/">https://iprsearch.ipindia.gov.in/PublicSearch/</a>



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#### Application Details

APPLICATION NUMBER	202341080641
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/11/2023
APPLICANT NAME	1 . N.JAYAKUMAR 2 . N.VENGADACHALAM 3 . P BALAKRISHNAN 4 . V. SUBHA SEETHALAKSHMI 5 . A GANGA DINESH KUMAR 6 . P. RADHIKA 7 . E. VINOTH 8 . M.R.N. SARAVANAN 9 . C. KARUPPAIAH 10 . B.GEETHAPRIYA
TITLE OF INVENTION	INFRARED SENSORS BASED SPEED BREAKER AND BARRIER DETECTION FOR VEHICLES
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	jayakumar.toce@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	01/12/2023

#### Application Status

APPLICATION STATUS	<b>Awaiting Request for Examination</b>
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➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

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Ministry of Commerce & Industry,  
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#### Application Details

APPLICATION NUMBER	202341080641
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/11/2023
APPLICANT NAME	1 . N.JAYAKUMAR 2 . N.VENGADACHALAM 3 . P BALAKRISHNAN 4 . V. SUBHA SEETHALAKSHMI 5 . A GANGA DINESH KUMAR 6 . P. RADHIKA 7 . E. VINOTH 8 . M.R.N. SARAVANAN 9 . C. KARUPPAIAH 10 . B.GEETHAPRIYA
TITLE OF INVENTION	INFRARED SENSORS BASED SPEED BREAKER AND BARRIER DETECTION FOR VEHICLES
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	jayakumar.toce@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	01/12/2023

#### Application Status

APPLICATION STATUS	<b>Awaiting Request for Examination</b>
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#### Application Details

APPLICATION NUMBER	202341080641
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/11/2023
APPLICANT NAME	1 . N.JAYAKUMAR 2 . N.VENGADACHALAM 3 . P BALAKRISHNAN 4 . V. SUBHA SEETHALAKSHMI 5 . A GANGA DINESH KUMAR 6 . P. RADHIKA 7 . E. VINOTH 8 . M.R.N. SARAVANAN 9 . C. KARUPPAIAH 10 . B.GEETHAPRIYA
TITLE OF INVENTION	INFRARED SENSORS BASED SPEED BREAKER AND BARRIER DETECTION FOR VEHICLES
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	jayakumar.toce@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	01/12/2023

#### Application Status

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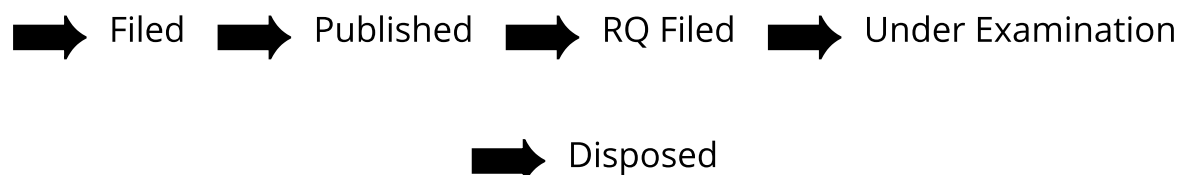
#### Application Details

APPLICATION NUMBER	202341053642
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	10/08/2023
APPLICANT NAME	1 . Dr. V. Madhusudana Reddy 2 . Malla Reddy Engineering College
TITLE OF INVENTION	Autonomous Control of Electric Vehicles using AI Technology
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	principal@mrec.ac.in
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	01/09/2023

#### Application Status

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## Design Application Details

**Application Number:**

413371-001

**Cbr Number:**

206111

**Cbr Date:**

12/04/2024 19:15:30

**Applicant Name:**

1. Mr. Jarapala Ramesh Babu
2. Dr. Yarram Mastanamma
3. Dr. Nunsavath Susheela
4. Dr. Talluri Sree Naga Gouri Sarada Devi
5. Dr. Thumukunta Praveen Kumar
6. Dr. Lavanya Pamulaparty
7. Dr. Sharada Varalakshmi
8. Dr. Bandita Naik
9. Mr. Manukonda Nikhil Sai Krishna Reddy

## Design Application Status

**Application Status:**

Design Accepted and Published, Journal No is 23/2024 and Journal Date is 07/06/2024

[Back \(/DesignApplicationStatus/\)](/DesignApplicationStatus/)

Disclaimer: Application status is available for the application filed on or after 1st April 2009 with application no 222230. The information under " Design Application Status" is dynamically retrieved and is under testing, therefore the information retrieved by this system is not valid for any legal proceedings under the Design Act 2000. In case of any discrepancy you may contact the appropriate Patent Office or send your comments to following email IDs:

Design Office, Kolkata : [controllerdesign@ipindia.gov.in](mailto:controllerdesign@ipindia.gov.in)  
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1	Dr A Ganga Dinesh Kumar	IOT enabled Home Monitoring System based on Piezoelectric Sensors	202241030394	03/06/2022	<a href="https://iprsearch.ipindia.gov.in/PublicSearch/">https://iprsearch.ipindia.gov.in/PublicSearch/</a>
2	Dr N Vengadachalam	IOT enabled Home Monitoring System based on Piezoelectric Sensors	202241030394	03/06/2022	<a href="https://iprsearch.ipindia.gov.in/PublicSearch/">https://iprsearch.ipindia.gov.in/PublicSearch/</a>



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#### Application Details

APPLICATION NUMBER	202241030394
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/05/2022
APPLICANT NAME	1 . DR.N.VENGADACHALAM 2 . DR.R.SHENBAGALAKSHMI 3 . DR.A.GANGA DINESH KUMAR 4 . S RAGUL 5 . P SELVAN 6 . DR.V.SUBHA SEETHALAKSHMI 7 . N.VIJAYASARATHI 8 . VASANTHPRAKASH M 9 . P.PANDI 10 . P RATHI DEVI
TITLE OF INVENTION	IOT-ENABLED HOME MONITORING SYSTEM BASED ON PIEZOELECTRIC SENSORS
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	03/06/2022

#### Application Status

APPLICATION STATUS	<b>Awaiting Request for Examination</b>
--------------------	---

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➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

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#### Application Details

APPLICATION NUMBER	202241030394
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/05/2022
APPLICANT NAME	1 . DR.N.VENGADACHALAM 2 . DR.R.SHENBAGALAKSHMI 3 . DR.A.GANGA DINESH KUMAR 4 . S RAGUL 5 . P SELVAN 6 . DR.V.SUBHA SEETHALAKSHMI 7 . N.VIJAYASARATHI 8 . VASANTHPRAKASH M 9 . P.PANDI 10 . P RATHI DEVI
TITLE OF INVENTION	IOT-ENABLED HOME MONITORING SYSTEM BASED ON PIEZOELECTRIC SENSORS
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	03/06/2022

#### Application Status

APPLICATION STATUS	<b>Awaiting Request for Examination</b>
--------------------	---

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