

FORM 1 THE PATENTS ACT 1970 (39 of 1970) and THE PATENTS RULES, 2003 APPLICATION FOR GRANT OF PATENT [Section 7, 54 & 135 and sub-rules (1) of rule 20]				(FOR OFFICE USE ONLY)	
		Application No:			
		Filing Date:			
		Amount of Fee paid:			
		CBR No.:			
		Signature:			
1. APPLICANT'S REFERENCE/ IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)					
2. TYPE OF APPLICATION					
Ordinary (✓)		Convention ()		PCT-NP ()	PPH ()
Divisional ()	Patent of Addition ()	Divisional ()	Patent Of Addition ()	Divisional ()	Patent Of Addition ()
3A. APPLICANT					
Name in Full		Nationality	Country of Residence	Address of the applicant	
Vels Institute of Science, Technology & Advanced Studies (VISTAS)		INDIAN	INDIA	The Registrar, Vels Institute of Science, Technology & Advanced Studies (VISTAS), Pallavaram, Chennai-600117, Tamil Nadu, India	
3B. Category of Applicant					
Natural Person ()		Other Than Natural Person		Educational Institution (✓)	
		Small entity ()	Start up ()	Others ()	

4. INVENTOR		
Are all the inventor(s) same as the applicant(s) named above?	Yes ()	No (✓)

Name in Full	Nationality	Country of Residence	Address of the inventor
Dr. Jini Raj R	INDIAN	INDIA	Assistant Professor, Department of Aeronautical Engineering, Nitte Meenakshi Institute of Technology, Nitte Deemed to be University, Bangalore
Dr. Priyanga J	INDIAN	INDIA	Assistant Professor, Department of Pharmacology, School of Pharmaceutical Sciences, Vels Institute of Science, Technology & Advanced Studies, Chennai
Mr.R.Balamurugan	INDIAN	INDIA	Assistant Professor, Department of Advanced Computing & Analytics, Vels Institute of Science, Technology & Advanced Studies, Chennai
Dr. S.Perumal	INDIAN	INDIA	Professor, Department of Computer Science and

			Information Technology, Vels Institute of Science, Technology & Advanced Studies, Chennai
Dr. A.S. Arunachalam	INDIAN	INDIA	Professor, Department of Computer Science and Information Technology, Vels Institute of Science, Technology & Advanced Studies, Chennai
Dr.S.Baskar	INDIAN	INDIA	Assistant Professor, Department of Mechanical Engineering, Vels Institute of Science, Technology & Advanced Studies, Chennai
Dr. Yuvaraj Dinakarkumar	INDIAN	INDIA	Professor, Department of Biotechnology, School of Life Sciences, Vels Institute of Science, Technology & Advanced Studies, Chennai
Dr. K. Kumutha	INDIAN	INDIA	Assistant Professor, Department of DCA- PG, Vels Institute of Science, Technology & Advanced Studies, Chennai

Dr.Lipsa Nayak	INDIAN	INDIA	Assistant Professor, Department of DCA-PG, Vels Institute of Science, Technology & Advanced Studies, Chennai
Mrs.Debarchita Mishra	INDIAN	INDIA	Assistant Professor, Department of EEE, Vels Institute of Science, Technology & Advanced Studies, Chennai
Dr.P.R.Kalyana Chakravarthy	INDIAN	INDIA	Associate Professor, Department of Civil Engineering, Vels Institute of Science, Technology & Advanced Studies, Chennai
Dr.K.Ramamurthy	INDIAN	INDIA	Assistant Professor, Department of Chemistry, Vels Institute of Science, Technology & Advanced Studies (VISTAS), Pallavaram, Chennai
5. TITLE OF THE INVENTION			
INTELLIGENT HOT WATER DISPENSING SYSTEM WITH THERMAL OPTIMIZATION			
6. AUTHORIZED REGISTERED PATENT AGENT	IN/PA No.		
	Name		
	Mobile no.		

7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA		Name	The Registrar		
		Postal address	Vels Institute of Science, Technology & Advanced Studies (VISTAS), Pallavaram, Chennai-600117, Tamil Nadu, India		
		Telephone No.			
		Mobile No.			
		Fax No			
		E-mail ID	herlinsam.me@gmail.com		
8. IN CASE OF APPLICATION CLAIMING PRIORITY OF THE APPLICATION FILED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION					
Country	Application Number	Filing date	Name of the Applicant	Title of the Invention	IPC (as classified in the convention country)
9. IN CASE OF (PCT) NATIONAL PHASE APPLICATION, PARTICULARS OF INTERNATIONAL APPLICATION FILED UNDER PATENT COOPERATION TREATY(PCT)					
International application number			International filing date		
Not Applicable			Not Applicable		
10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF ORIGINAL (FIRST) APPLICATION					
Original (first) application No.			Date of filing Original (first) application		
Not Applicable			Not Applicable		
11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54, PARTICULARS OF MAIN APPLICATION/PATENT					
Main Application/Patent no.			Date of filing of main application		

Not Applicable	Not Applicable
12. DECLARATIONS (i) Declaration by the inventor (a) Date: 2026 (b) Signature of the inventor: _____ (c) Name: Dr. Jini Raj R a) Date: 2026 b) Signature of the inventor: _____ c) Name: Dr. Priyanga J (a) Date: 2026 (b) Signature of the inventor: _____ c) Name: Mr.R.Balamurugan (a) Date: 2026 (b) Signature of the inventor: _____ c) Name: Dr. S.Perumal	

(a) Date: 2026

(b) Signature of the inventor: _____

c) Name: Dr. A.S. Arunachalam

(a) Date: 2026

(b) Signature of the inventor: _____

c) Name: Dr.S.Baskar

(a) Date: 2026

(b) Signature of the inventor: _____

c) Name: Dr. Yuvaraj Dinakarkumar

(a) Date: 2026

(b) Signature of the inventor: _____

c) Name: Dr. K. Kumutha

(a) Date: 2026

(b) Signature of the inventor: _____

c) Name: Dr.Lipsa Nayak

(a) Date: 2026

(b) Signature of the inventor: _____

c) Name: Mrs. Debarchita Mishra

(a) Date: 2026

(b) Signature of the inventor: _____

c) Name: Dr. P. R. Kalyana Chakravarthy

(a) Date: 2026

(b) Signature of the inventor: _____

c) Name: Dr. K. Ramamurthy

(ii) Declaration by the applicant(s) in the convention country

Not Applicable

(iii) Declaration by the applicant:

We, the applicant hereby declare that:-

- ✓ We are in possession of the above-mentioned invention.
- ✓ The complete specification relating to the invention is filed with this application.
- _ The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by us before the grant of patent to us.
- ✓ There is no lawful ground of objection to the grant of the Patent to us.
- ☐ We are the true & first inventor(s).
- ✓ We are the assignee of true & first inventor.
- ☐ Each of the applications, particulars of which are given in Paragraph- 8, was the first application in convention countries in respect of our invention.
- ☐ We claim the priority from the above mentioned applications filed in convention countries and state that no application for protection in respect of the invention had been made in a convention country before that date by me or by any person from which we derive the title.
- ☐ Our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Paragraph-9.
- _ The application is divided out of my/our application, particulars of which is given in Paragraph-10 and prays that this application may be treated as deemed to have been filed on DD/MM/YY under section 16 of the Act.
- _ The said invention is an improvement in or modification of the invention particulars of which are given in Paragraph – 11.

13. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION a) Form 2

Item	Details	Fee	Remarks
Complete specification	No. of pages – 13	Rs. 4500/-	
No. Of Claim(s)	No. Of Claim(s) & No. of pages – 7 & 2		
Abstract	No. of pages – 1		
No. of Drawing(s)	No. of Drawing(s) & No. of pages – 01 & 01		

(b) Drawings

Total Fee of INR 4500/- paid.

We hereby declare that to the best of our knowledge, information and belief the fact and matters stated herein are correct and we request that a patent may be granted to us for the said invention.

Dated this 13th Day of May 2026.

Applicant Signature

To,

The Controller of Patents
The Patent Office, at Chennai.