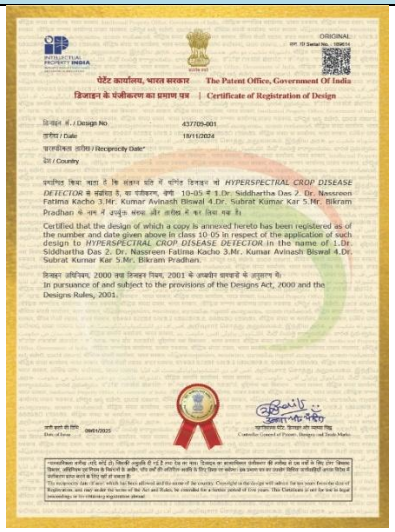
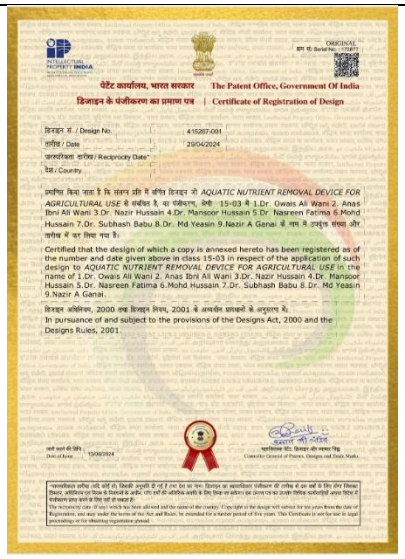
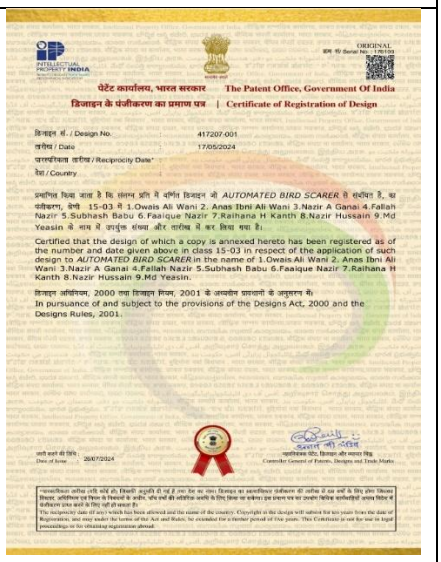
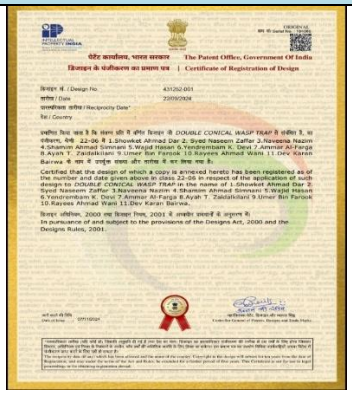
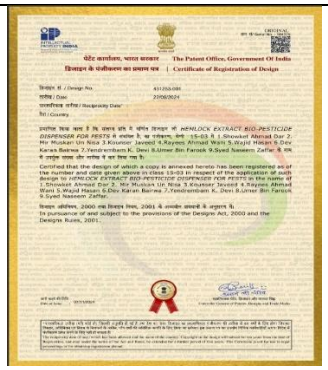
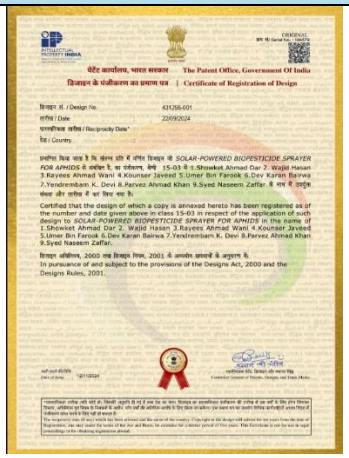
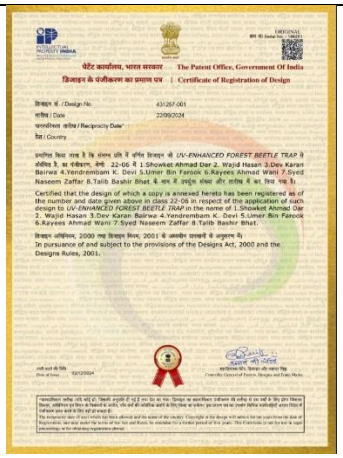
Patient Registered under Zone-I

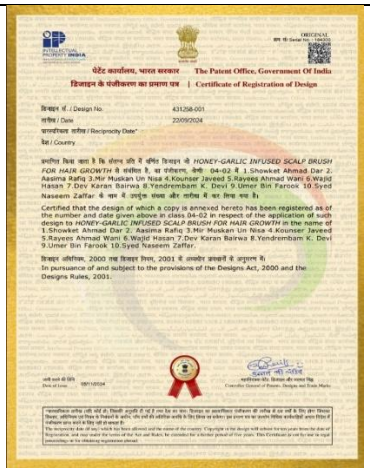
Sl. No.	Patient	Description	Certificate
1.	**Certificate Type:** Registration of Design **Design No.:** 437709-001 **Date:** 18/11/2024 **Title of Design:** *Hyperspectral Crop Disease Detector* **Applicants/Inventors:** 1. Dr. Siddhartha Das 2. **Dr. Nassreen Fatima Kacho** 3. Mr. Kumar Avinash Biswal 4. Dr. Subrat Kumar Kar 5. Sr. Bikram Pradhan	A Hyperspectral Crop Disease Detector is an advanced agricultural tool that uses hyperspectral imaging technology to detect crop diseases early by analyzing spectral signatures of plants. This helps farmers and researchers identify stress, infection, or nutrient deficiency before visible symptoms appear, leading to timely and precise interventions.	
2	**Certificate Type:** Registration of Design **Design No.:** 415882-001 **Date:** 29/04/2024 **Title of Design:** *Aquatic Nutrient Removal Device for Agricultural Use* **Class:** 15-03 **Inventors/Applicants:** 1. Owais Ali Wani 2. Anas Ibn Ali Wani 3. **Nazir Hussain** A. Dar 4. Mehraj Hussain S. 5. **Dr. Nasreen Fatima** G. 6. Mohd Hussain T.	The **Aquatic Nutrient Removal Device for Agricultural Use** is an innovative design developed to manage and treat nutrient-rich agricultural runoff or aquatic systems overloaded with fertilizers. The device likely functions by **filtering or extracting excess nutrients (such as nitrogen and phosphorus)** from water, helping to prevent eutrophication and ensuring better water quality for reuse in agriculture. This invention represents an important step toward **sustainable water management** and **environment-friendly agriculture**. The registration	

Sl. No.	Patient	Description	Certificate
	7. Dr. Subhash Babu G. 8. Dr. Md Yeasin H. 9. Nazir A. Ganaie	by the **Indian Patent Office** recognizes the creativity and technical skill of the inventors in developing a **practical, eco-conscious device** that supports cleaner water systems and promotes responsible agricultural practices.	
3	**Certificate Type**: Registration of Design **Design No**.: 417207-001 **Date**: 17/05/2024 **Title of Design**: Automated Bird Scarer **Class**: 15-03 **Inventors/Applicants**: 1. Owais Ali Wani 2. Anas Ibn Ali Wani 3. Nazir A. Ganaie 4. Fallah Nazir S. 5. Subhash Babu G. 6. Faique Nazir 7. Raihana H. Kanth 8. **Nazir Hussain** G. 9. Md. Yeasin H.	The **Automated Bird Scarer** is an innovative agricultural device designed to **protect crops from bird damage** through automated deterrence mechanisms. It likely operates using **sound, motion, or visual stimuli** triggered by sensors or timers to scare away birds without harming them. Such automation minimizes manual monitoring, reduces crop losses, and enhances yield protection in farmlands and orchards. This recognition by the **Indian Patent Office** underlines the importance of **farm mechanization and frugal innovation** in addressing real-world problems faced by farmers, particularly in horticultural and grain-producing regions.	 पेटेंट कार्यालय, भारत सरकार The Patent Office, Government Of India डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design डिजाइन सं. / Design No. 417207-001 तारीख / Date 17/05/2024 Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 15-03 in respect of the application of such design to AUTOMATED BIRD SCARER in the name of 1.Owais Ali Wani 2. Anas Ibni Ali Wani 3.Nazir A Ganai 4.Fallah Nazir 5.Subhash Babu 6.Faaique Nazir 7.Raihana H Kanth 8.Nazir Hussain 9.Md Yeasin. In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

Sl. No.	Patient	Description	Certificate
4	**Certificate Type:** Registration of Design **Design No.:** 423162-001 **Date:** 23/09/2024 **Title of Design:** *Double Conical Wasp Trap* **Class:** 22-06 **Inventors/Applicants:** 1. Sh. Showkat Ahmad Wani 2. Sh. Syed Naseem Baflar 3. Naveena Nadeem 4. Dr. Nadeem Aslam 5. Wasim Hussain 6. Dev T. 7. Amaan ul Farooq 8. Aayan T. **9. Shahnawaz Ahmad** **10. Rayees Ahmad** 11. Owais Ali Wani	The **Double Conical Wasp Trap** is an innovative and eco-friendly device developed to **control wasp populations** in agricultural and horticultural areas. Designed with **dual conical chambers**, it effectively traps wasps and other flying pests using attractants, reducing crop damage without relying on harmful pesticides. Its simplicity, reusability, and low cost make it highly suitable for widespread field application. This design represents a significant advancement in **integrated pest management (IPM)** by offering a **sustainable, non-chemical alternative** to pest control. The **Patent Office, Government of India**, has recognized this innovation as a valuable contribution to environmentally responsible farming practices.	
5	• **Certificate Type:** Registration of Design • **Design No.:** 421513-001 • **Date:** 20/09/2024 • **Title of Design:** *Hemlock Extract Bio-Pesticide Dispenser for Pests* • **Class:** 15-03 • **Inventors/Applicants:** **1. Sh. Showkat Ahmad Dar** 2. Sh. Showkat Ahmad Wani 3. Wasim Hussain	The **Hemlock Extract Bio-Pesticide Dispenser** is an inventive eco-friendly agricultural device created to **dispense plant-based bio-pesticides** derived from hemlock extract. This system offers a **sustainable and non-toxic alternative** to synthetic pesticides for pest management in crops. By allowing controlled and targeted release of bio-pesticides, the dispenser ensures efficiency in pest control while safeguarding beneficial insects and soil health.	

Sl. No.	Patient	Description	Certificate
	4. Naveena Nadeem 5. Dev Karan Bairwa 6. Yendrembam S.K. 7. Dev T. 8. Amaan Bin Farooq 9. Syed Naseem Zaffar	This innovation supports **integrated pest management (IPM)** strategies and contributes to **sustainable agriculture and organic farming** initiatives. The recognition by the **Patent Office, Government of India**, highlights the creative and scientific contribution of the inventors toward reducing chemical dependency and promoting green agricultural technologies.	
6	**Design No.:** 421514-001 **Date:** 20/09/2024 **Title of Design:** *Bio-Spray Device for Paddy Crops* **Class:** 15-03 **Applicants/Inventors:** **1. Sh. Showkat Ahmad Dar** 2. Sh. Showkat Ahmad Wani 3. Wasim Hussain 4. Naveena Nadeem 5. Dev Karan Bairwa 6. Yendrembam S. K. 7. Dev T. 8. Amaan Bin Farooq 9. Syed Naseem Zaffar	The **Bio-Spray Device for Paddy Crops** is an eco-innovative solution engineered to **apply bio-pesticides and plant-based formulations** in paddy fields efficiently. The device promotes **sustainable pest and nutrient management** through precision spraying, ensuring optimal coverage with minimal chemical waste. Designed specifically for **paddy ecosystems**, it supports **organic and natural farming practices**, reduces farmers' dependency on synthetic agrochemicals, and enhances the uniform application of bio-inputs. This innovation thus aligns with India's goal of achieving **eco-friendly, low-carbon agriculture**.	

Sl. No.	Patient	Description	Certificate
7	**Design No.:** 421256-001 **Date:** 20/09/2024 **Title of Design:** *Solar-Powered Biopesticide Sprayer for Aphids & Mites* **Class:** 15-03 **Applicants/Inventors:** 1. **Sh. Showkat Ahmad Dar** 2. Wajid Hussain 3. Naveena Nadeem 4. Wani G. Rouf 5. Amaan Bin Farooq 6. Dev Karan Bairwa 7. Yendrembam S. K. 8. Dev K. 9. Parvez Ahmad Khan 10. Syed Naseem Zaffar	The **Solar-Powered Biopesticide Sprayer** is a renewable-energy-based agricultural device designed for **eco-friendly pest management**. It utilizes **solar energy** to operate a **precision spraying mechanism**, which applies **bio-pesticides** targeting common crop pests like **aphids and mites**. This innovation reduces farmers' dependence on fossil fuels, minimizes carbon emissions, and supports **climate-smart agriculture**. By integrating solar technology with sustainable pest control methods, it exemplifies a **frugal and green innovation** that enhances productivity while preserving environmental integrity.	
8	• **Design No.:** 421257-001 • **Date:** 20/09/2024 • **Title of Design:** *UV-Enhanced Forest Beetle Trap* • **Class:** 22-06 • **Applicants/Inventors:** 1. **Showkat Ahmad Dar** 2. Wajid Hussain 3. Dev Karan Bairwa 4. Rayees Ahmad Wani 5. Syed Naseem Zaffar 6. Talib Bashir Bhatt	The **UV-Enhanced Forest Beetle Trap** is a **pest management device** designed to attract and trap beetles using **ultraviolet (UV) light technology**. It offers an eco-friendly alternative to chemical pesticides, making it especially suitable for **forest ecosystems and orchards**. **Key features include:** • Utilization of **UV light** to enhance beetle attraction efficiency. • **Non-chemical, sustainable pest control** reducing ecological harm. • Portable and energy-efficient design for use in forested and orchard environments.	

Sl. No.	Patient	Description	Certificate
	7. Amaan Bin Farooq	This innovation represents a valuable advancement in **integrated pest management (IPM)** strategies and supports **biodiversity conservation** while protecting economically important tree species.	
9	• **Design No.:** 431258-001 • **Date:** 20/09/2024 • **Title of Design:** *Honey-Garlic Infused Scalp Brush for Hair Growth* • **Class:** 04-04 • **Applicants/Inventors:** **1. Showkat Ahmad Dar** 2. Wajid Hussain 3. Mufasum Hussain 4. Rayees Ahmad Wani 5. Syed Naseem Zaffar 6. Talib Bashir Bhatt 7. Dev Karan Bairwa 8. Yendrembam K. Devi 9. Umar Bin Farooq 10. Syed Naseem Zaffar	The **Honey-Garlic Infused Scalp Brush** is a **bio-inspired personal care innovation** developed using **natural ingredients—honey and garlic extracts—infused into the bristles** of a specially designed scalp brush. **Key Highlights:** • Stimulates **scalp circulation** and strengthens hair follicles. • Combines **traditional herbal knowledge** with modern design. • Designed for **sustainable and low-cost production**, promoting self-care entrepreneurship opportunities. This product demonstrates the **diversification of rural innovation** beyond core agriculture, showing the application of **farm-based natural resources** in **value-added wellness products**.	 पेटेंट कार्यालय, भारत सरकार The Patent Office, Government Of India डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 04-02 in respect of the application of such design to HONEY-GARLIC INFUSED SCALP BRUSH FOR HAIR GROWTH in the name of 1.Showkat Ahmad Dar 2. Aasima Rafiq 3.Mir Muskan Un Nisa 4.Kounser Javeed 5.Rayees Ahmad Wani 6.Wajid Hasan 7.Dev Karan Bairwa 8.Yendrembam K. Devi 9.Umer Bin Farook 10.Syed Naseem Zaffar. In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.