

DEVELOPMENT OF JOINT PAIN RELIEF AYURVEDIC PRODUCTS

Month of Commencement : March 2022

NOVELTY OF INNOVATION

- ☐ **POWERFUL JOINT PAIN RELIEF OIL**
- ☐ **INFUSED WITH GOOD INGREDIENTS:** The distinctive formula of our pain relief oil is rich in herbal ingredients.
- ☐ **ANTI-INFLAMMATORY EFFECT:** All the herbal ingredients used in this muscle pain relief oil has been used in Ayurveda for centuries to support the strength and health of muscles and joints.
- ☐ **ORGANIC AND GENTLE:** This pain oil is made from the finest all-natural ingredients, this contains no harsh chemicals, free of parabens, artificial dyes, and fragrance.

SUPPORT BOUGHT FROM UNIVERSITY

- ☐ Laboratory equipment and apparatus required for the study were provided by the Department of Botany, Shivaji University Kolhapur
- ☐ Proper guidance provided by the mentor



FUTURE PLAN

- ☐ Development of other joint pain relief products like balm, Nano Gel cream with rubbing dots and Spray
- ☐ Distribution and selling through out Maharashtra and after in other states

BUSINESS PLAN

- ☐ Pain Relief Market size is likely to reach \$11.78 billion by the year 2025.
- ☐ The demand for pain relief products is increasing by a CAGR of 6.25%.
- ☐ To get quality herbal pain relief oils, you must deal with a reliable
- ☐ Ayurvedic product.
- ☐ Targeted age group is not specific but the senior citizens with arthritis are focused.

MILESTONES

- ☐ Product developed : 2018
- ☐ ShivAyur Trademark registered in the Name of Shivaji University
- ☐ Production Under Shivaji University Incubation Cell
- ☐ More than 1200+ Happy customers till date

ACKNOWLEDGEMENT

Department of Botany and RUSA center of Shivaji University, Kolhapur

Incubatae:- Dr. Chirag Narayankar

Mentor:- Prof. (Dr.) D. K. Gaikwad



INNOVATE, INCUBATE, LINK

SCIIL

SUK Research and Development Foundation

(Section 8 Company of Shivaji University)



महाराष्ट्र शासन

Maharashtra
State Innovation
Society

Decaff : Caffeine Free Coffee Substitute

Month of Commencement : March 2022

Novelty of Innovation:

- ❑ Caffeine free coffee can be considered as an alternative for normal coffee, with similar sensory properties..
- ❑ Legumes like soya bean and chick pea have been utilized and blended in such a way that will give a product with similar characteristics with that of coffee.
- ❑ This Product will help in eradicating the side effects associated with caffeine like anxiety, increased BP, stress and blood sugar swings.
- ❑ Beside this, it was also observed that the product is also a good source of protein and calcium.



Proposed Business Model:

The target people for this product are coffee addicted people, old age people and child which will have healthy alternative of coffee with breakfast. Also, Health care companies, Hospitals, Nutraceutical companies, health clubs, dietitians will be the target sources to market the product.

Future Plan

Market this product on e commerce website like amazon, India mart to reach all over India. Also, Gyms which offers health food, Health clubs , Hospitals , Medicals are the target sources to market the product.

Incubate Name:

Miss. Mugdha Madhav Sawant

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Novelty of Innovation

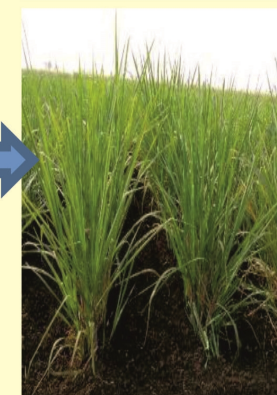
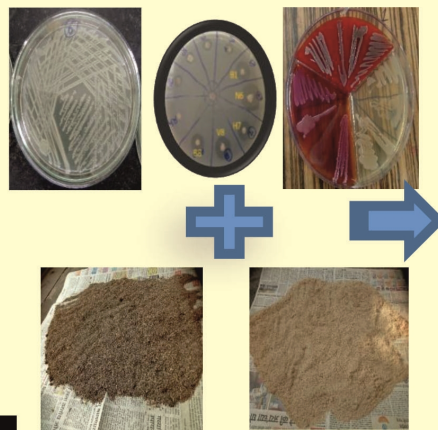
- **1st Phytase** producing organic Phosphorus solubilizing with like N₂ fixing, P, K, Zn solubilizing bio-inoculant.
- Prepared by using new crude medium (non synthetic) with agricultural waste agricultural wastes – **Patent applied**
- Total production cost of bio-fertilizer reduced by 53%.
- Promotes organic farming - Best alternative for chemical fertilizers - reduces cultivation cost
- Enhance sugarcane yield by 35% which ultimate increases net income of farmer by 2.1 fold.
- Improves soil quality and nutritional quality of crop.

Support brought from University

- Laboratory equipment's, and material required for research provided by Rajaram College, Shivaji University, Kolhapur
- Proper guidance for the project was provided by mentor

Proposed business plan

- ❖ Focusing Organic farming in India production of organic fertilizers is demanding now
- ❖ Target small farmers as well as large land owners, nursery, home garden etc.
- ❖ To provide bacterial based quality product we focus farmers with different crops



Patent Published –

Formulation of Optimized Medium For Low Cost Liquid Biofertilizer of Phosphate Processing Bacteria

- ❖ **3000 lit** of bio-inoculant used by **500 farmers** since **3 years**

Incubatae : Supriya Kusale
Mentor : Dr Yasmin C Attar
(Guide)



Agricultural waste

Production

Application

SUK Research and Development Foundation

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SUGARCANE PLANTING MACHINE

Month of Commencement :- March 2022

Introduction

1. India is the world's largest consumer and the second largest producer of sugarcane, after Brazil.
2. 70% Population dependent upon agriculture allied businesses.
3. Traditional sugarcane planting is very labour intensive and time consuming process.
4. Now a days labour cost is increasing day by day and the farmers are unable to find the labours also.

Incubatae :
Mr. Sangram Vikas Patil
B.E. (Mechanical)

Technical Specification

1. It is a tractor driven machine worked on Rotary Mechanism.
2. It is constructed by fixed drums and rotary discs.
3. Adjusting unique distance between 2 rows as well as 2 canes as per farmers requirement.
4. Uniform fertilization.



**Machine
Snippets**



Business Outcomes

1. Sugarcane production is significantly increased using this technology
2. Low running maintenance cost.
3. Very economical as compare to conventional methods.
4. Significant reduction in no of labours.
5. Flexibility in defining the depth of plantation.
6. Sugarcane plantation time reduced.

Proposed Business Plan

1. Scaling up Marketing strategy by focusing live demonstration with free training.
2. Use of Digital Marketing techniques to connect farmers all over India.
3. Product Selling using B2B & B2C networks across India & Globe.
4. Online sale of Product.
5. Business Expansion for turmeric and ginger plantation with minimum attachments.

IP Applied :- IP applied In Process
No.- TEMP/D -1/718/2022-KOL

Arduino Slate

Month of Commencement :- March 2022

Novelty Of Innovation:

The Arduino Slate is a electronic device used to learning coding and experience robotic practical's . It consists of slave micro-controller which is as of now arduino uno. It's a very popular micro-controller for learning robotics and embedded coding in a market . Due to this we get very common platform user and community.

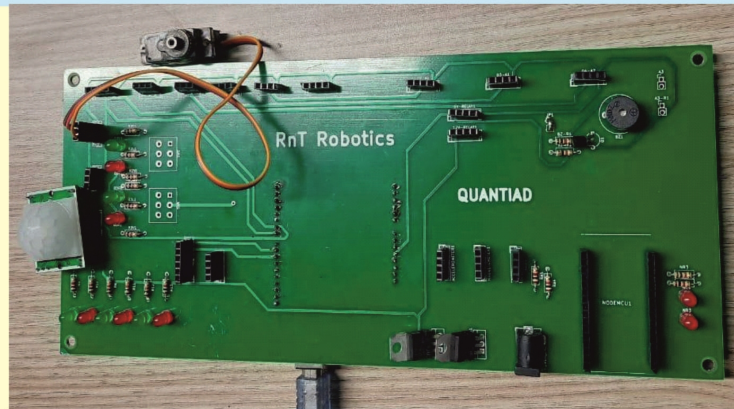
Nowadays conventional coding and robotics training center's are exist with different principals and standards with different level of syllabus across the country or world. There is no any single standard platform of it.



**Incubatae:-Rabbitntortoise Ent Pvt Ltd
Kolhapur**

One Line Definition

Arduino Slate is a online Teaching and Programming Device with features of **Hardware connectivity, Monitoring Program, Monitoring Hardware status from Remote place.**



Technology adopted

Web and Mobile application development.
Hardware testing lab
Server to user clear connection through WI-Fi
New Hardware update accessories.

Proposed Business Plan:

- 1.New dimension to be installed on device .
- One stable standard platform for all private robotics institute.
- 2.It may goes standard curriculum by University.
- 3.Global level partners marketing opportunities for this device and content.

Execution Plan

- *We have running prototype in our hand
- *We have bunch of Orders and market enquiries about slate
- *Our next step to develop server for user data acquisition and remote access
- *Development for GUI for our coding software.
- * To initiate building of Beginner Community with pure platform.