

Technology overview/ Bhalerao

NUTRACEUTICALLY ENRICHED BEVERAGE

Lead Inventor: Dr. Tejomyee S. Bhalerao

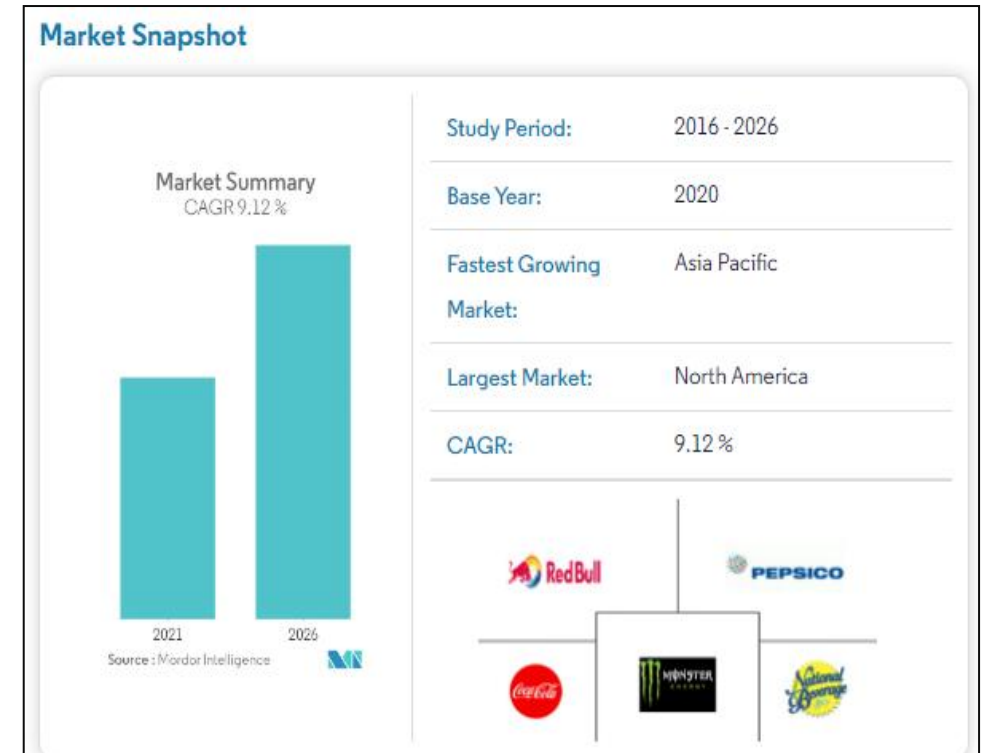
Organization: Individual Inventor

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The Opportunity

- Need of a nutritional beverage as routine energy and commercial sports drinks.
- Nutritional beverage without artificial colours, flavours and sweeteners
- Beverage prepared from natural extracts that contains antioxidants, electrolytes, and energy in the form of natural sugars, carbohydrates and proteins
- [Market size for energy/nutritional drinks:](#) The global energy drinks market is projected to witness a CAGR of 9.12 % during the forecast period (2021 - 2026). Increased urbanization, growing health consciousness among consumers, increasing consumer awareness regarding active lifestyle, along with growing rates of lifestyle diseases, inspired health-oriented consumers have opted for healthy and sugar-free drinks. increased the demand



Method of preparing Nutraceutical beverage

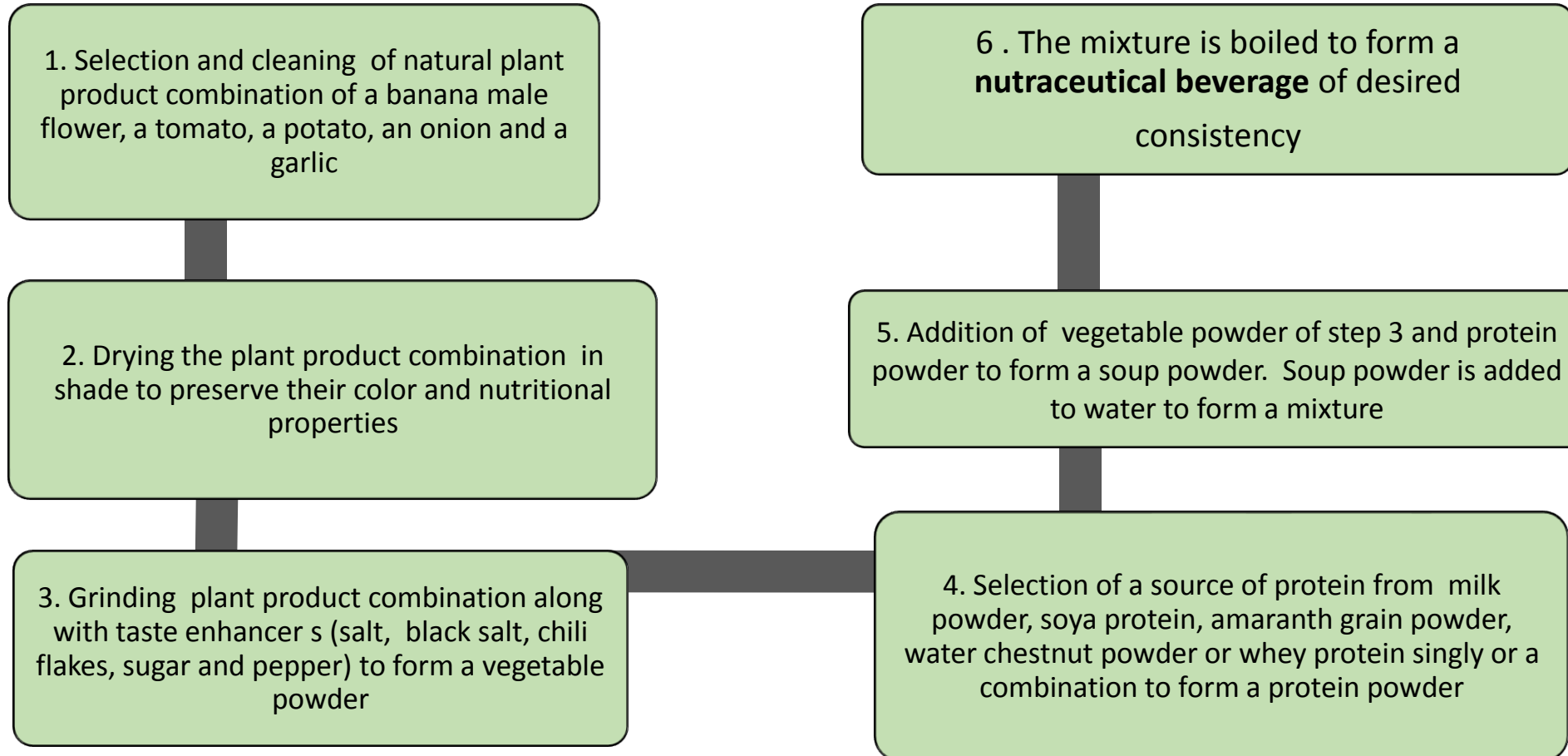


Diagram or image of product or process flow

Who should be interested and why?

Who would interested?

- Energy drinks manufacturers
- Sports nutrition manufacturers
- Foods and beverages industry
- Supplement manufacturers
- Raw material suppliers
- Traders, importers, and exporters

Why this drink?

Immunity booster:

Banana flower: has vitamin C and high amount of antioxidants which help the body to develop resistance against infectious agents and scavenge harmful oxygen-free radicals and prevent oxidative damage.

For Oxygen Transportation:

Regular consumption of banana flower increases the levels of red blood cells and combats iron deficiency, which is important for oxygen generation in the human body

About the technology

Process technology features:

- Nutritional beverage with antioxidants, electrolytes, and energy in the form of natural sugars, carbohydrates and proteins
- Natural products: Banana male flower, tomato, potato, onion, garlic along with taste enhancers and protein source
- Reuse of banana flower which is considered as a waste product
- Nutritional powder is in form of dried powder that can be easily be mixed with water to form a liquid energy drink/soup

Current status

Technology status:

- ❖ Demonstrated at Lab scale
- ❖ Patent protected
- ❖ Technology available for co-development with partners.

Patents:

Priority document: 202021013942 (Filing date: 30/03/2020)

Coverage: IN

Granted: IN: Patent no.354699

Team & organization



Lead Scientist: Dr. Tejoymee
Bhalerao

Achievements in Brief

Projects:

- ❖ WOS-A scheme of Department of Science and Technology, New Delhi (2009-2012), Bioremedial technology development for endosulfan contaminated soil by fungal inoculants.
- ❖ Minor project under VCRMS (2014), Biosynthesis of Iron nanoparticles by red grape's skin and its characterization.
- ❖ RGS & TC (2014) Banana pseudostem sap: as energy drink and use of scrunching waste in preparation of animal feed.

General:

- ❖ Bhalerao T S (2014) Weekly column writing on Nobel Laureates women in Sakal Daily Marathi Newspaper.
- ❖ Bhalerao T S (2012) Weekly column writing on Women astronauts in Sakal Daily Marathi Newspaper.
- ❖ Many interviews related to recent topic of social, related to Life Sciences, for Scientific awareness etc on Different TV channels, All India Radio, Jalgaon and published in Local Newspaper.

Next Steps

- Strategy 1: Work with an Industry partner who is working in the field of food products/nutritional drinks.
 - License → Industry led further development
 - Industry sponsored project for further development & illustration
- Strategy 2: Can apply for POC funding options and constitute a tech based Start-up.

Seeking:

- ❖ Industrial partners interested in technology licensing
- ❖ Industrial partners interested in sponsoring further technology advancement and scale-up
- ❖ Industrial partners interested in for a collaborative project.

For more information, contact:
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