



SCHOOL OF BIO SCIENCES AND TECHNOLOGY

VIT BIO-EXPO

The School of Bio Sciences and Technology (SBST) is pleased to organize **Bio-Expo**, an event showcasing **Innovative Products** developed through cutting-edge research at VIT.

The details of the **VIT Bio-Expo** are as follows:

Date: 02 September 2026 (Wednesday)

Time: 11:00 AM – 1:00 PM

Venue: SMV Portico

Participants:

1. Geethika P Nambiar - 23BBT0091

Product -1 Fruit, Nut and seed energy bites.

2. U. Nidhish - 23BBT0172

Product -2 High protein chocolate mousse

3. Aditi Arun -23BBT0043

Product -3 Choco-Nest (Granola Cups)

4. Tejal P Manoj - 23BBT0054

Product -4 Beetroot ChocoBliss Balls

5. Ancy Rose Shibu - 24BBT0254

Product -5 Nutmeg coconut bites.

6. Tanve Sablok -24BBT0134

Product -6 Jowar Chips.

7. Vishnu Priya S - 24PHD0603

Product - 7 Act - Grow (A Marine based liquid fertilizer)

8. Sainath G - 23PHD0365

Product -8 Act - Shield (Bio Fungicide)

9. Fidha Latheef - 24PHD0777

Product -9 MagLEMO (Lemongrass Ointment)

10. Lekshmi R – 25PHD2142

Product-10 Vermi Mag

11. Fragleena P S – 23PHD0444

Product – 11 NUTRIMUG



Fruit, Nut & Seed Energy Bites

A NUTRITIOUS BLEND. NATURALLY YOURS.

A wholesome, no-bake bite made with fruits, nuts, seeds and wholesome grains – crafted for clean, lasting energy and balanced nutrition.

NATURAL WHOLESOME SUSTAINABLE ENERGIZING



INGREDIENTS & NUTRITIONAL HIGHLIGHTS

- ALMONDS**
Rich in Vitamin E, healthy fats and magnesium. Supports heart health and brain function.
- CASHEWS**
Good source of protein, iron and zinc. Supports immunity and muscle health.
- BLACK RAISINS**
High in antioxidants and iron. Helps improve hemoglobin and energy levels.
- RAISINS**
Natural source of sugar, potassium and fiber. Aids digestion and energy.
- BLACK SESAME SEEDS**
Rich in magnesium, zinc and antioxidants. Supports bone health.
- PUMPKIN SEEDS**
Excellent source of calcium, iron and healthy fats. Supports brain and heart.
- SUNFLOWER SEEDS**
High in Vitamin E, selenium and healthy fats. Good for skin and heart.
- PEANUTS**
Good source of plant protein, niacin and folate. Supports energy and growth.
- DRIED CRANBERRY**
Rich in antioxidants and Vitamin C. Supports urinary tract health and immunity.
- DATES**
Natural sweetener rich in fiber, potassium and polyphenols. Provides instant energy.
- PALM JAGGERY**
Unrefined and mineral-rich. Supports bone strength and digestion.
- CORN FLAKES**
Source of carbohydrates for quick energy and crunch.
- RAGI FLAKES**
Rich in calcium and dietary fiber. Supports bone strength and sustained satiety.
- GHEE**
Rich in healthy fats and fat-soluble vitamins. Supports brain function and nutrient absorption.

Geethika P Nambiar
238BT0091

“Real Ingredients. Real Nutrition. Real Impact.”
Developed for a healthier tomorrow.



VIT BIOEXPO SBST

High-Protein CHOCOLATE MOUSSE

RICH INDULGENCE. REAL NUTRITION.

A creamy, guilt-free dessert made with pears, dark chocolate & wholesome ingredients to fuel your body and satisfy your cravings.



WHY THIS MOUSSE IS SPECIAL

- HIGH IN PROTEIN**
Packed with 32g protein per serving.
- MUSCLE FRIENDLY**
Supports muscle maintenance, recovery & strength in any age.
- RICH IN NUTRIENTS**
Packed with calcium, potassium, antioxidants & essential amino acids.
- GOOD FOR GUT**
Good source of fiber to support digestion & gut health.
- SATISFYING & BALANCED**
The perfect balance of sweet & salty you feel indulged & satisfied.
- INDULGENCE INSIDE HEALTHIER**
All the chocolate goodness with real whole food ingredients.

THE BENEFITS YOU FEEL

- BUILDS & REPAIRS MUSCLES**
High quality protein helps building protein synthesis & recovery.
- STRENGTHENS IMMUNITY**
Vitamin C, potassium & antioxidants support your immune system.
- BETTER MOOD & FOCUS**
Iron, magnesium & potassium supporting brain health & focus.
- HEALTHY GUTS & REGULAR BOWELMOVES**
Antioxidants, prebiotic & healthy fats support your gut & health.
- HEALTHY MANAGEMENT**
Helps you full faster & eat less.
- CLEAR & WHOLESOME**
No refined sugar. Made with real natural ingredients.

NUTRITION PER SERVING (1 Cup)

390 KCAL | 32g PROTEIN | 35g CARBS | 14.5g FAT | 6.5g FIBER

~8.2g PROTEIN PER 100 KCAL

High protein density to support your fitness & health goals!

MADE WITH WHOLESOME, NUTRITIOUS INGREDIENTS

- LOW FAT PEARS**
Excellent source of vitamins, potassium & without fat. Adds natural sweetness & texture.
- ORGANIC PUMPKIN**
Rich in antioxidants, Vitamin A & potassium.
- DARK CHOCOLATE (70%)**
Supports heart health & antioxidants.
- ORGANIC MILK**
Rich in calcium, protein, vitamin D & potassium.
- HEAVY**
Natural creamer, protein, calcium & potassium.
- VANILLA EXTRACT**
Enhances flavor & fragrance.

INGREDIENTS & NUTRITION

INGREDIENTS: Pears, Pumpkin, Dark Chocolate, Milk, Heavy Cream, Vanilla Extract, Protein Powder, Coconut Oil, Salt.

NUTRITION: 390 Kcal, 32g Protein, 35g Carbs, 14.5g Fat, 6.5g Fiber.

HOW TO MAKE:

1. Blend pears, pumpkin, dark chocolate, milk, heavy cream, vanilla extract, protein powder, coconut oil, salt.
2. Pour the mixture into a bowl.
3. Refrigerate for 2 hours.
4. Garnish with fresh fruit.

NO BAKING • NO FRYING • NO COOKING

Prepared by: U Nishith
RECIPE NO: 238BT0172
DATE: 2nd September 2025
LOCATION: SMV PORTICO



VIT BIOEXPO SBST

Beetroot Choco Bliss Balls

INDULGENCE MEETS NUTRITION, IN EVERY BITE.



WHY BEETROOT CHOCO BALLS ARE SPECIAL

- NATURAL ENERGY BOOST**
Beetroot & dates provide clean, sustained energy naturally.
- NUTRIENT DENSE SNACK**
Packed with iron, folate, magnesium & fiber.
- ANTIOXIDANTS FOR WELLNESS**
Beetroot, cocoa & nuts fight oxidative stress and support overall well-being.
- GOOD FOR HEART & BRAIN**
Cocoa & nuts support heart health and improved brain function.
- CLEAN & WHOLESOME INDULGENCE**
Made with natural ingredients, free from refined sugar & preservatives.

THE BENEFITS YOU FEEL

- ENERGY THAT LASTS**
Perfect protein-packed snack or mid-day snack to keep you going.
- IMMUNITY SUPPORT**
Beetroot, zinc & iron strengthen your natural defense.
- FOCUS & MOOD ENHANCEMENT**
Iron-rich cocoa, folate & healthy fats.
- GLIM FROM WITHIN**
Healthy fats & antioxidants promote healthy skin & hair.
- SATISFYING & GUILT-FREE**
Delicious treats that reward you without compromise.

ESPECIALLY GOOD FOR EVERYONE

- Helps combat fatigue & boosts energy.
- Supports immunity & overall wellness.
- Rich in iron for healthy blood.
- A wholesome snack for kids, students, professionals & fitness lovers.
- A perfect guilt-free indulgence for chocolate lovers!

SWEET TODAY, STRONG TOMORROW

MADE WITH WHOLESOME, NUTRITIOUS INGREDIENTS

- BEETROOT**
Excellent source of iron & antioxidants.
- DATES**
Rich in fiber, natural sugar & essential minerals.
- COCOA POWDER**
Rich in antioxidants & essential minerals.
- ALMONDS**
Good source of protein & healthy fats.
- RAISINS**
Rich in iron & natural sugar.
- PLAUSMID**
High in fiber & supports healthy digestion.
- CHIA SEEDS**
Packed with fiber, omega-3 fatty acids & protein.
- HONEY**
Natural sweetener with antioxidants & healing properties.

NO ARTIFICIAL COLORS | NO PRESERVATIVES | 100% NATURAL INGREDIENTS | UNREFINED WITH CARE

Prepared by: TEJAL P MANOJ
RECIPE NO: 238BT0054
DATE: 2nd September 2025
LOCATION: SMV PORTICO

VIT BIOEXPO - WHERE IDEAS MEET THE GUTS!



VIT BIOEXPO

ChocoNest GRANOLA CUPS

A Crunchy Nest of Chocolate & Fruit

NO-BAKE • FRUIT-FILLED • SEED-ENRICHED



WHAT'S INSIDE?

- GRANOLA NEST**
Roasted oats, ground butter, dates, chia seeds, pumpkin seeds, almonds, sesame seeds.
- RICH CHOCOLATE FILLING**
Dark chocolate, cocoa powder & peanut butter.
- FRUITY GOODNESS**
Tossable berry mix (strawberry, blueberry, or any seasonal fruit).
- FRESH FRUIT TOPPING**
Strawberry, blueberry, or any seasonal fruit.

WHY CHOOSE CHOCONEST?

- MADE WITH WHOLE GRAINS**
- NOITS & SEEDS GOODNESS**
- FRUIT ENRICHED**
- DARK CHOCOLATE INDULGENCE**
- NATURALLY DELICIOUS**

GOODNESS IN EVERY BITE

- High in dietary fiber from whole grains, seeds & fruits.
- Source of healthy fats, vitamins & minerals.
- Dark chocolate for antioxidants & rich flavor.
- No baking. No fuss. Only wholesome ingredients.

Prepared by: ADITI ARUN
RECIPE NO: 238BT0043
DATE: 27/9/26
LOCATION: SMV PORTICO

NUTMEG COCONUT BITES

Zesty Spice & Tropical Warmth in Every Wholesome Bite

PLANT-BASED

REFINED-SUGAR-FREE

MADE WITH NUTMEG PERICARP

VIT BIOEXPO – SBST
SMV PORTICO | 2 SEPTEMBER 2026

CONTACT: Ancy Rose Shibu | 24BBT0254

Homemade JOWAR CHIPS

Roasted Crunch. Timeless Goodness.

MADE WITH JOWAR

Jowar (Sorghum) is an ancient **supergrain** packed with incredible nutrition and amazing health benefits.

A CRUNCH YOU CAN FEEL GOOD ABOUT

Our Jowar Chips are homemade with love and care using wholesome ingredients and traditional methods. Every bite brings back the nostalgia of homemade snacks – now with the goodness your body will thank you for!

GOODNESS IN EVERY BITE

- RICH IN FIBER**
Supports healthy digestion & keeps you fuller for longer.
- HIGH IN ANTIOXIDANTS**
Helps fight free radicals & boosts overall wellness.
- LOW IN FAT**
Roasted, not fried – for a lighter, guilt-free snack.
- NATURAL ENERGY**
Complex carbs provide lasting energy.

Made with Real Jowar | No Artificial Colors | No Preservatives

Wholesome inside, delicious outside!

Made with love by **Tanve Sablok**
24BBT0134

ACT-SHIELD™

A marine based Liquid Bio-fungicide
Healthy crops, clean environment and sustainable agriculture

NATURAL BIOPRODUCT

- Suitable for harsh environment
- Better plant protection
- Low cost
- Long shelf life
- No staining effects on plants
- Compatible with wide plants
- Protects the environment

MARINE ORIGIN

MARINE ORIGIN

EFFECTIVE PLANT GROWTH

NATURAL BIOPRODUCT

SUSTAINABLE AGRICULTURE

SAINATH G
23PHD0365

BROCHURE DATE
02/09/2026

Fidha Latheef
24PHD0777

ACT-SHIELD™

A marine based Liquid Bio-fungicide
Healthy crops, clean environment and sustainable agriculture

ABOUT THE PRODUCT

ACT-SHIELD™ is an eco-friendly composition utilizing specific actinobacterial strains to control plant pathogenic fungi, promoting sustainable crop protection.

TARGET PATHOGENS

to prevent and control fungal infection by pathogens including:

- Alternaria solani*
- Rhizoctonia solani*
- Helminthosporium oryzae*
- Fusarium oxysporum*
- Macrophomina phaseolina*

ACTIVE INGREDIENTS

- Actinobacteria consortium
- Media system
- Carrier substance
- Surfactants

HOW IT WORKS

Dilute 5ml of bio-fungicide mixed with 1000ml of water (500 mL/Acre) and can be applied as seed treatment and foliar methods.

APPLICATION METHODS

- Seed treatment eliminates root rot, charcoal root and stem canker diseases.
- Facilitates plant growth and promotion and no stunning effects in plants.

APPLICATION

SEED TREATMENT | FOLIAR SPRAY

1. Seed treatment eliminates root rot, charcoal root and stem canker diseases.
2. Facilitates plant growth and promotion and no stunning effects in plants.

Choose **ACT-SHIELD** for
Green, Disease-Free, and Resilient Agriculture

Application No. developed by MBBL, VIT Vellore

Contact: MBBL, VIT Vellore

Choose MagLEMO™ for Faster, Safer, and Naturally-Powered Healing

ACT-GROW™

A marine based Liquid Bio-fertilizer
Healthy crops, clean environment and sustainable agriculture



NATURAL FORMULATION

- Suitable for harsh environment
- Better plant growth
- Low cost
- Long shelf life

SOIL REVITALIZATION

- High yield
- Compatible with wide plants
- Avoids usage of other bio-fertilizer

EFFICIENT NUTRIENT UPTAKE

BALANCED MINERAL ASSIMILATION

ENHANCED MICROBIAL VIGOR

ROBUST PLANT STRENGTH

VISHNU PRIYA S
24PHD0603

BROCHURE DATE
02/09/2026

ACT-GROW™

A marine based Liquid Bio-fertilizer
Healthy crops, clean environment and sustainable agriculture

ABOUT THE PRODUCT

A microbial-based bio-fertilizer composition engineered to stimulate plant growth and improve soil microbial health, offering a sustainable alternative to chemical inputs.

INGREDIENTS

Ingredients- Microbial Consortium, Media system, Carrier substance, surfactants.

KEY BENEFITS

- Fixes atmospheric nitrogen
- Phosphate mobilizer
- Potash mobilizer
- Zinc mobilizer
- Iron mobilizer
- Produces plant growth hormones
- Soil salinity compatible
- Lesser application frequency
- Multi-functional action

HOW IT WORKS

Dilute 10mL of ACT-GROW with 1 Litre of water (1000mL/Acre) and applied as seed, soil and foliar treatments.



APPLICATION METHODS

- Seed and soil treatments for improved germination and root development.
- Soil application facilitates microbial health and root establishment.
- Foliar spray for enhanced plant vigor and faster nutrient uptake.

ACT-GROW
for abundant harvest and healthy soil.

ACT-SHIELD™

A marine based Liquid Bio-fungicide
Healthy crops, clean environment and sustainable agriculture



NATURAL BIOPRODUCT

- Suitable for harsh environment
- Better plant protection
- Low cost
- Long shelf life

MARINE ORIGIN

- No staining effects on plants
- Compatible with wide plants
- Protects the environment

MARINE ORIGIN

EFFECTIVE PLANT GROWTH

NATURAL BIOPRODUCT

SUSTAINABLE AGRICULTURE

SAINATH G
23PHD0365

BROCHURE DATE
02/09/2026

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- Helminthosporium oryzae
- Fusarium oxysporum
- Macrophomina phaseolina

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- Facilitates plant growth and promotion and no stunning effects in plants.

Choose **ACT-SHIELD** for
Green, Disease-Free, and Resilient Agriculture

VermiMag

Organic Biofertilizer
(Vermicompost Enriched with MSR-1)

Nature's Power. Healthier Soil.
Stronger Crops.



VermiMag
Organic Biofertilizer
(Vermicompost Enriched with MSR-1)

Net content: 500 g

DIRECTION FOR USE

- Green Gram & Tomato:** Apply by broadcasting, band placement, or spot application at sowing/transplanting. 500–1000 kg/ha (1:5).
- Paddy:** Apply by root dipping (15–30 min before transplanting). 250 ml MSR-1 formulation in 40 l water/ha.
- Foliar spraying:** 1% solution at vegetative stage.
- Dosage:** Maintain $\sim 10^8$ cells/g for maximum efficacy.

BENEFITS OF VERMIMAG

- Dual action - organic matter enrichment + microbial biofertilization.
- Increase soil fertility and yield.
- Provides Nitrogen and trace elements like Fe and P.
- Prevents iron deficiency.
- Provides stress tolerance.
- Recommended Crops:** Green Gram, Tomato, Paddy, and other cereals, pulses, and vegetables.

STORAGE & SHELF LIFE

Store in a cool, dry place away from direct sunlight. Use within 3–4 months for best results.

SAFETY INFORMATION

Non-toxic and eco-friendly. Safe for farmers, crops, and the environment. Tested for safety using Arsenia, onion root tip assay, and microbial biocompatibility studies.

CATEGORY

Organic Biofertilizer
For agricultural use only

Lokshini R 25PH12142 Date: 2/09/2026

NUTRIMAG*

PREMIUM QUALITY FOR PADDY

A Natural Biofertilizer
Powered by Magnetotactic Bacteria



NUTRIMAG*
PREMIUM QUALITY FOR PADDY

Net content: 1.00 L

ABOUT NUTRIMAG

Nutrimg is a biofertilizer developed using magnetotactic bacterial culture known for its ability to enhance plant growth through nitrogen fixation, phosphate solubilization, production of plant growth promoting hormones like IAA. It improves soil fertility, prevents iron deficiency, and increases stress tolerance in paddy crops leading to higher yield and sustainable agriculture.

KEY BENEFITS

- Provides Nitrogen and trace elements like Fe
- Phosphate solubilization
- Produces IAA
- Prevents iron deficiency
- Provides stress tolerance
- Increase soil fertility and yield

INGREDIENTS & ORIGIN

- Magnetotactic bacterial culture
- Recommended crops: Pulses, cereals, horticultural crops
- Manufactured at Marive Inter-technology and Bioprocess Lab, School of Bio Sciences and Technology, Vellore Institute of Technology, Vellore, India
- Best before 9 months of date.

DIRECTION FOR USE

Dilution of Nutrimg: Add 4–5 ml of Nutrimg into 1000 ml of water. Note: Shake the container well before using.

Types of Application:

- Seed treatment:** 5 ml in 100 ml of water (1–2 hours seed soaking before sowing)
- Root dipping:** 5 ml in 1 l of water (dip seedling for 15–30 minutes)
- Foliar application:** 5 ml in 1 l of water
- Soil application:** 5 l (200 ml per acre)

Methods: Broadcasting, Band application, Spot application

CAUTION & STORAGE:

Caution:

- Keep away from children.
- Do not ingest.
- Do not come into skin and eyes.
- If contact with eyes, immediately flush with plenty of water.
- If irritates person, consult doctor immediately.

Storage:

- Tightly close the container.
- Store in cool, dry place & not in direct sunlight.

FREQUENCY OF APPLICATION

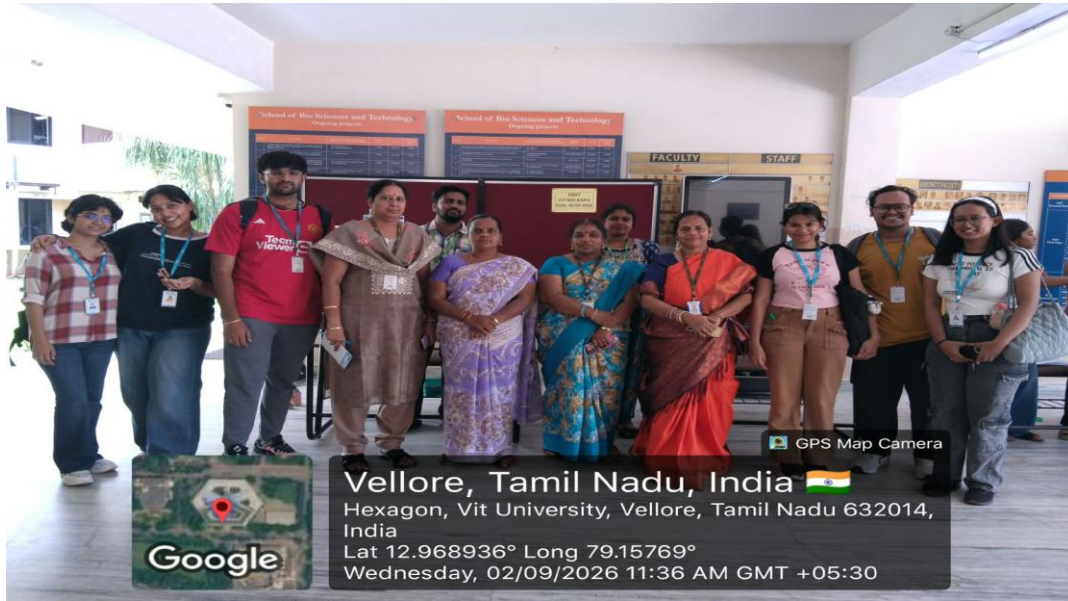
- Nutrimg can be applied on all seasons / all stages of plant growth.
- Frequency of application is three a month - 10 days interval.
- Foliar application or Soil application:** Early morning / late evening.

HOW IT WORKS

Magnetotactic Bacteria (MSB-1) → Colonization in Soil → Nitrogen Fixation & Phosphate Solubilization → Increased Plant Growth & Soil Health → Higher Yield & Sustainable Agriculture

FRANGLIENA P S 23PHD0444 BROCHURE DATE 02/09/2026





Further Details:

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 and Technology
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 Vellore - 632 014, Tamil Nadu, India.