

BIODEGRADABLE TABLEWARE FROM AGRICULTURAL WASTE

PRODUCT INFORMATION

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Thooshan

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THOOSHAN

THOOSHAN is a brand that is driven by a clear vision to provide the world with eco-friendly products. The brand proudly originates from Kerala, India, also known as "God's own country." The founder of the brand, **Vinayakumar Balakrishnan (Vinay)**, is renowned for his innovative approach and was motivated to create a brand that could revolutionize the niche market of disposable products such as straws, cutleries and plates. His vision resulted in **THOOSHAN**, a line of fully biodegradable tableware made from sustainable organic materials like wheat bran, rice bran, paddy husk, and other agricultural waste products. The brand technically collaborated with two of India's premier research laboratories, namely the CSIR-National Institute for Interdisciplinary Science and Technology (NIIST CSIR) and the Central Institute of Petrochemicals, Engineering and Technology (CIPET), to fully develop their innovative idea.



MANUFACTURING

THOOSHAN is a product that has been conceptualized and crafted from a state-of-the-art, fully automatic, and robotic factory that adheres to strict standards of hygiene and precision. Thanks to a network of independent distributors who have received orientation on the brand's philosophy and product dynamics, THOOSHAN strives to exceed all market expectations. THOOSHAN is committed to delivering high-quality biodegradable products and ensuring that each product undergoes a value-added manufacturing process, which enhances the brand's reliability. The company achieves this through a system that keeps up with market trends and responds to changing demands. As a result, THOOSHAN is becoming known as a brand that consistently delivers superior products while remaining committed to sustainable and environmentally friendly practices.

PRODUCTS

FEATURES & CERTIFICATIONS

Product Name: Wheat Bran Plates Available Sizes: 6/10/12 inch (round) Packing: As per wholesale requirement Weight: 35-180 gms per piece Ingredients: Wheat bran with natural, organic additives Colour: Brown HSN Code: 19059090

Usage:

Ideal for usage in parties, picnics, buffet meals, events, weddings, public functions,5 star hotels, resorts and **HORECA**

segment.

Storage: Cool, dry place, with humidity <75%, temperature <25°, prevent wetting

Product Features:

- 1. Single use only
- 2. Biodegradable in 30 days
- 3. Home compostable
- 4. Microwave friendly
- 5. Can withstand temperatures from -10 to +140
- 6. High water retention capacity
- 7. Shelf life of 6 months

- 8. Can be used as organic manure
- 9. Contains gluten
- 10. Can be reused as cattle/fish/poultry feed.
- 11. Extra income for farmers, for their waste.
- 12. Single use
- 13. Blisters may appear

TUV SUD (Hungary)









Ministry of Health (Govt of UAE)



Product Name: Paddy

Husk Plates (Rice) Available Sizes: 12 inch (round) Packing: As per wholesale requirement Weight: 100 gms per piece Ingredients: Rice paddy husk with natural, organic additives Colour: Brown HSN Code: 12130000

Usage:

Ideal for use in parties, picnics, buffet meals, events, weddings, public functions,5 star hotels, resorts and **HORECA** segment.

Product Features:

- Recommended single use only (can be reused for dry items)
- 2. Biodegradable in 30 days
- 3. Home compostable
- 4. Microwave friendly
- 5. Can withstand temperatures from -10° to +140°
- 6. High water retention capacity

- 7. Shelf life of 12 months
- 8. Can be reused as organic manure
- Extra income for farmers, for their waste.

Storage: Cool, dry place, with humidity <75%, temperature <25°, prevent wetting

राष्ट्रीय अंतर्विषयी विज्ञान तथा प्रौदयोगिकी संस्थान NATIONAL INSTITUTE FOR INTERDISCIPLINARY SCIENCE AND TECHNOLOGY रितालिक तथा और्य्यालिक जनुसंपाल परिषद् | Council of Scientific & Industrial Research इंडस्ट्रियस प्रस्टेट पी. औ, पाण्पाल्मकोड Industrial Estate P O, Pappanamoode तिस्वनंतपुरम, केरल, भारत 695019 Thiruvananthapuram, Kerala, India 695019 Dr. P. Nishy Chief Scientist Head, RP8D 4th December 2020 To whomsoever it may concern The technology for manufacturing agri based cutleries have been developed by CSIR-NIIST. The entire process is optimized and machineries designed for the bulk production of single use, eco-friendly, biodegradable and micro wave friendly agri based cutleries. The technology is now ready for commercialization. Biodegradability test, Shelf life test and Toxicity test have been conducted and the product is found to biodegradable in nature within thirty days with a shelf life of six months and have no toxicity.

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Product name: Rice Drinking Straws Sizes: Thin straws: 6.5mm(dia) x200mm (length) Cocktail straws: 8mm(dia) x140mm (length) Standard straws: 8mm(dia)x200mm (length) Jumbo straws: 12mm(dia) x200mm (length) Colour: Multicolour HSN Code: 19030000 Weight: 8-12gms per straw Ingredients: Rice flour, corn starch, tapioca flour Packaging: As per requirement Available as: Individually wrapped or unwrapped

Product features:

- 1. Withstands upto 1 hour in normal or cold drinks
- 2. Approved food colouring used
- Certified by Govt of India, TUV, EU & FDA complied
- Biodegradable in 60 days & kitchen compostable
- 5. Can be reused as cattle/fish/poultry feed or as organic manure

Usage: (not recommended for hot drinks):

Ideal for use in Parties, Picnics, Buffet meals, events, weddings, public functions,5 star hotels, resorts and **HORECA** segment.

Storage: Cool, dry place, with humidity <75%, temperature <25°, prevent wetting



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Page 1 of 6

Product name: Fork,

Knife, Spoon & Spork Available sizes: 7/8/9 inches Weight: Less than 10 gms Ingredients: Rice bran mixed with bioplastic Packaging: As per requirement Colour: Black HSN Code: 39241000

Usage:

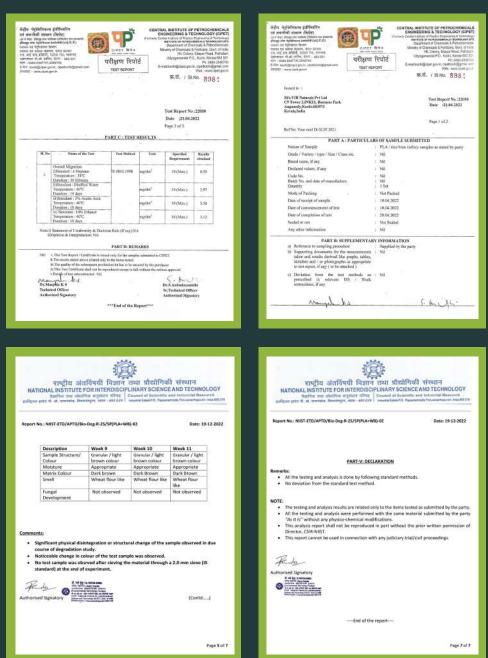
Ideal for use in parties, picnics, buffet meals, events, weddings, public functions, airline & sealine industry, 5 star hotels, resorts and **HORECA** segment.

Product features:

- 1. Sturdy
- 2. Sleek
- 3. Customisable
- 4. Not edible
- 5. Industrially compostable
- 6. Single use
- 7. Long shelf life
- 8. Not microwavable
- 9. Single use

95% biodegradable in 90 days, 100% biodegradable in 180 days.

Storage: Cool, dry place, with humidity <75%, temperature <25, prevent wetting



15

Product name: Food takeaway containers Available as: 500ml, 750ml, 1000ml container with lid Weight: below 25gms Packaging: As per required Ingredients: Rice bran mixed with bioplastic HSN Code: 39241000

Usage:

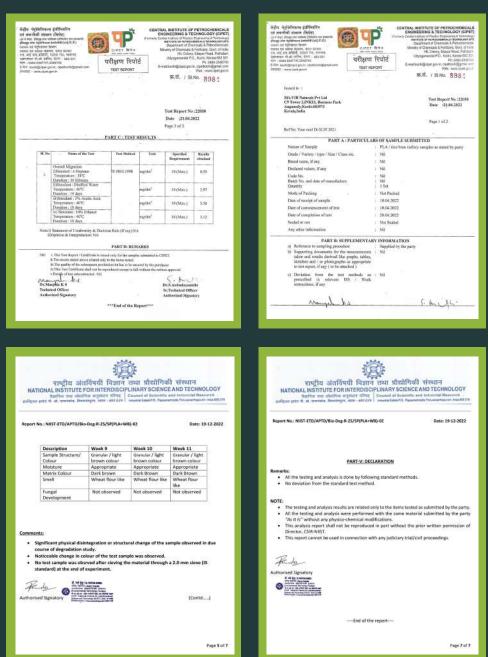
Ideal for use in parties, picnics, buffet meals, events, weddings, public functions, airline & sealine industry, 5 star hotels, resorts and **HORECA** segment.

Product Features:

- 1. Sturdy
- 2. Sleek
- 3. Customisable shape
- 4. Not edible
- 5. Industrially compostable
- 6. Single use
- 7. Long shelf life
- 8. Can be reused to plant seedlings

95% biodegradable in 90 days, 100% biodegradable in 180 days.

Storage: Cool, dry place, with humidity <75%, temperature <25 , prevent wetting



17

Product name:

Compostable and biodegradable bags **Available in:** Customisable sizes **Weight:** Carrying weight can be customised **HSN Code:** 39206919

Ingredients: Cornstarch & Bioplastic mix Packaging: Available in kilograms



Product Features:

- 1. Sturdy
- 2. Customisable shape
- 3. Not edible
- 4. Industrially compostable
- 5. Single use
- 6. Biodegradable in 6 months
- 7. Brand details can be printed (single colour)

Usage:

Can be used as garbage bag, laundry bag, grocery bag, carry bag etc.

Storage: Cool, dry place, with humidity <75%, temperature <25°, prevent wetting

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ECOLOGY

THOOSHAN was founded with a master vision to eliminate the use of disposable utensils made from plastic and paper that have left a significant impact on the environment. As an excellent alternative, THOOSHAN provides products that are highly eco-friendly and fully biodegradable, decomposing within 180 days. The company's commitment to sustainability and environmentally friendly practices ensures that its products are not only functional but also contribute to reducing the negative impact on the environment. THOOSHAN's approach to manufacturing and product development aligns with the global movement towards more sustainable and responsible consumption.

FUTURE

Thooshan will be adding more products under the brand name in its kitty, which will be 100% biodegradable compostable and eco-friendly.

APPLICATION

THOOSHAN tableware is versatile and can be used to serve both hot and cold food. It is safe to use in a microwave and is highly durable, making it suitable for use in both home and industry environments. THOOSHAN's straws and plates are convenient to carry and can be used for outdoor parties, picnics, or any activity where food consumption is required. These products have a long shelf life and are highly recommended for use in bars and restaurants. With its durability, versatility, and eco-friend-liness, THOOSHAN is quickly becoming the preferred choice for those who value sustainability and convenience.

After initial use, they can be shredded to use as cattle feed, fish feed. poultry feed or even as organic manure.



AWARDS AND CERTIFICATIONS

Thooshan has been the proud recipient of a multitude of accolades and recognitions so far.



INCUBATED AT









LET THE PURPOSE BE SERVED RESPONSIBLY



Cattle feed



safe

temperatures upto 40 degrees







Home compostable





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