



TIME TO CHANGE



JOHNBJØRG
SOLUTION FOR POLLUTION

WHY TO CHANGE?



Environmental - friendly solutions:

At John-Bjorg solutions we have nature-friendly products and boast a diverse portfolio of products.

Our product range includes:

1. Bio-Degradable bags
2. Compostable bags
3. Cotton Bags
4. Paper Bags
5. Leaf Table wears
6. Bio-Composting Systems
7. Organic & Eco-Friendly Textiles

With a rise in environmental issues and its negative impact on ecology, it is time; we wake up to save our planet from disasters that could be alarming to the human mankind.

A solution for sustainable development is the need for the hour to restore the balance between the society and the environment.

The pulse of this situation was felt by John-Björg environmental solutions that have pioneered to create environmentally sustainable projects and products.

Founded by John P Selvaraj, the green organization has taken a baby step to attain this vision through two revolutionary products. A veteran in the textile domain with a Bachelors in Information Technology and an MBA in 2 disciplines.

John has worked with some of the world's leading companies in this field. Hailing from a family with an established textile business in the southern states of India, the experience of working with different top textile brands has enabled him to understand the nuances of the business and create environment-friendly products.

The idea to build an environmental sustainable -solution based company of his own took shape when he saw the country of Norway embracing environmental friendly solutions. Having lived in Norway for more than a decade and worked for a leading Norwegian brand WENAAS as Planning & Purchasing Manager. The love and admiration for the country to be eco-friendly motivated him to initiate this green organization. With a mission to support fragile ecosystems, the organization has launched its products in Norway, as the country has been keen in adopting non-polluting and environmental friendly products."



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BIODEGRADABLE BAGS

We love to see our world green and sustainable for the future. But it is unfortunate that our globe has been engulfed with plastics that haven't decomposed for several years thereby causing hazards to the earth and mankind.



Plastic pollution

Credible research data shows that Europe ranks second in the global plastics materials production. According to the Norwegian Environment Agency , close to 930 million plastic bags were used in Norway in 2014 . This amounts to 180 bags per person. This 'plastic epidemic' has led to a huge increase in deaths in the ocean life too. More than 1,000,000+ animals in the sea are dying in the seas and oceans due to the high amounts of plastic solid waste that is dumped into the coast.

It has been shown that around 2.5 Billion metric tons of solid waste is produced around the world, out of which 275 metric tons is plastic waste.

Biodegradable bags

Plastic free packaging for shopping, storage and disposing trash

The need for the hour is to create eco-friendly solutions for protecting the environment and to live a toxin-free, healthy lifestyle.

Our organic packaging solutions range from plastic bags to Food and Beverage packaging and for other various needs. These bio-natural bags are the safest materials to carry your needs as they don't impart harmful toxins into the food.

Our organic bags can be used for

- o Shopping
- o Carrying Fruits & Vegetables
- o Disposing food Waste
- o Garbage trash

Bags from plant source

At John-Borg solutions, we believe in sourcing from the nature and giving back to the nature.

The base for our organic bags is derived from the cassava or tapioca flour.

Tapioca roots goes through an intense process before being produced into organic products.

Special features of our Cassava bags

- Produced from tapioca starch & vegetable oil derivatives
- Degrades in 3-4 months without harming environment
- 100% non-toxic to the environment, animals and plants
- Biodegraded debris are consumed by small animals and microorganism and converted into carbon dioxide, water and biomass in nature within months.
- Contains no conventional plastic at all
- Can be recycled along with paper
- Customizable into any shape and design
- Ideal for electronic wrapping due to electric dissipative feature
- Contains antistatic and dust repelling properties
- Ideal oxygen barrier properties and

- prevent corrosion
- Resistant to oil and grease
- Contains no petroleum element
- Dissolves in hot water at 80 degrees Celsius.
- Softens in water at room temperature
- Not Used alcohol based or heavy metal printing inks.

Our products are:

- Sustainable – Sourced from renewable resource
- Biodegradable and compostable – Certified environment safe products
- Fully customizable – Tailor-made according to needs
- Closed loop circular economy - Recovery of materials at the end of their service life

Tips to handle our products

At Jon-Borg solutions we have tips to store our products for better efficiency and value for money

We recommend that our products be stored in its original packing in a dry and clean environment

The ambient relative humidity in the storage room should preferably be 40 – 60%

The storage room must not leak during the rainy season

it is advisable to avoid direct contact with water and/or watery goods

Hands should be clean and dry while handling the product

Products should always be kept clean and dry

Protecting the product from excessive condensed moisture is advised as it is harmful to the product



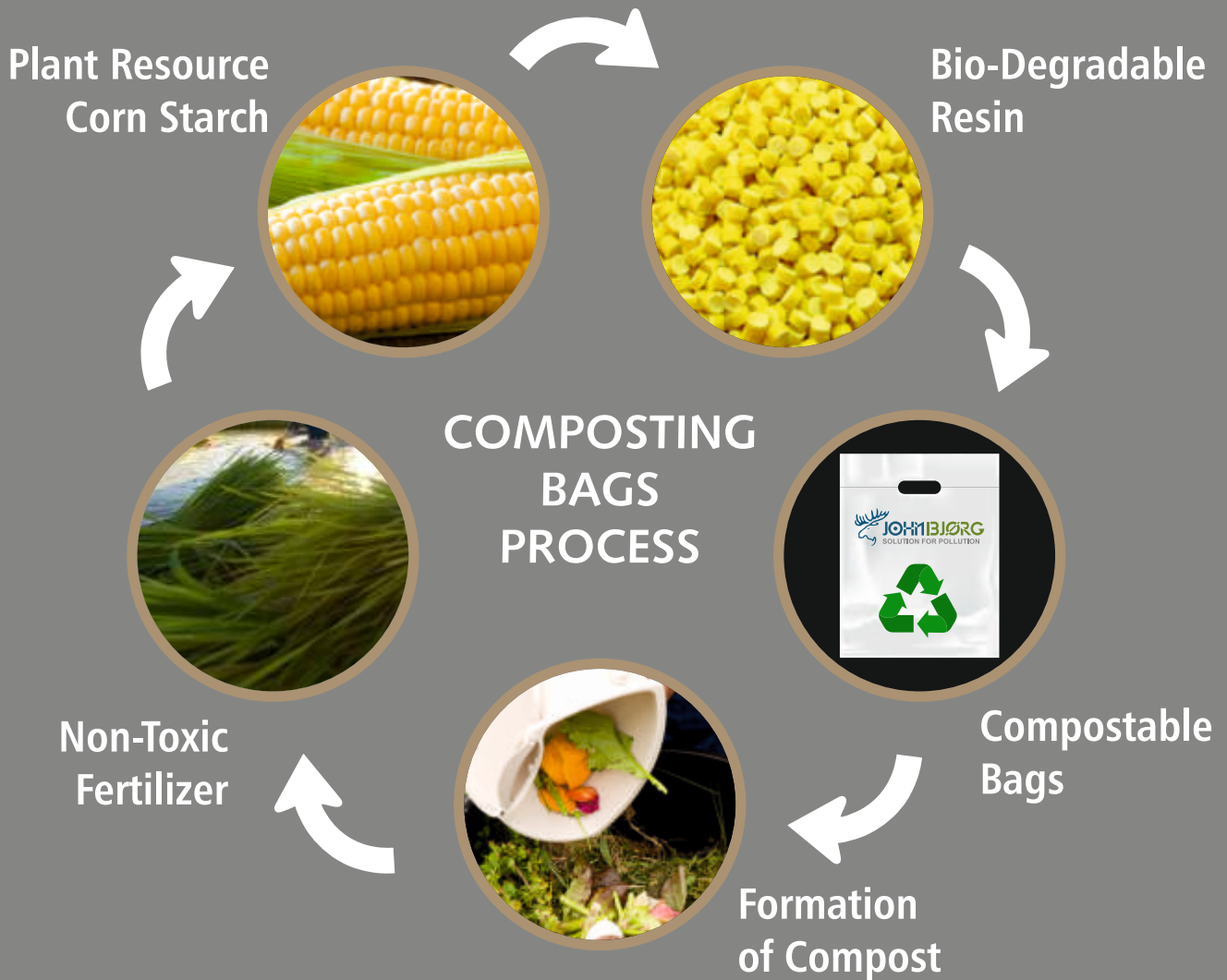
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COMPOSTABLE BAGS

Our Compostable bags have the basic ingredient granulate made from renewable plant resource corn starch, rather than oil and it is opposed to petroleum ingredient. It sounds too good to be true - a bag made from corn starch that breaks down with food waste and leaves no remnant plastic to make its way into the oceans. Bags that are of the compostable kind are the best alternatives to the plastic menace. These are cost-effective, reusable and help in converting the waste from home and kitchen into fertilizers. After a happy Shopping these bags can be composed to be a food waste.

These bags fit large volumes of compostable waste up -to 360 liters ad are ideal to convert trash into useful manure. These bags decompose due to the activity of microbes which feed on the contents of the bag and the compostable bag itself. By using compostable bags , we give the best back to nature as they are nature’s best friend and do not require any other extra elements to initiate the composting process. Microorganisms devour on the compost pile converting them to rich manure.



Characteristics of our compostable bags

- Strong and durable
- Fine design to aid composting
- Aesthetically designed for better look, feel and function
- Environmental –friendly
- Standard –ISO 17088
- Compostable and Biodegraded in 90 – 150 days.
- Best Price

These compostable bags can be used for the following purposes:

- o Shopping
- o Carrying Fruits &Vegetables
- o Disposing food Waste
- o Garbage trash
- o Hotel events
- o Retailers

In a nutshell:

Although the terms biodegradable and compostable are often used interchangeably, these are the differences between compostable and biodegradable bags:

COMPOSTABLE BAGS

That undergoes degradation by biological processes during composting to yield CO₂, water, inorganic compounds and biomass at a rate consistent with other compostable materials and leaves no visible, distinguishable or toxic residue.

Compostable materials are similar to biodegradable materials, as they are both intended to return to the earth safely. However, compostable materials go one step further by providing the earth with nutrients once the material has completely broken down. These materials are added to compost piles, which are designated sites with specific conditions dependent on wind, sunlight, drainage and other factors.

Compostable products break down into non-toxic components during commercial composting process thereby enriching the soil.

BIODEGRADABLE BAGS

That undergoes degradation resulting from the action of naturally occurring microorganisms such as bacteria, fungi and algae. There is no reference to the exact amount of time needed for degradation or the type of physical and chemical quality attributes of the end product.

Biodegradable refers to the ability of materials to break down and return to nature. In order for packaging products or materials to qualify as biodegradable, they must completely break down and decompose into natural elements within a short time after disposal – typically a year or less.

The ability to biodegrade within landfills helps to reduce the buildup of waste, contributing to a safer, cleaner and healthier environment.



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COTTON BAGS

JohnBjørg Solutions also have one of the simplest first steps toward a more ecofriendly life is to start using cotton bags. The simple fact that we can reuse them and that they are made from a biodegradable material make them a much better option than plastic bags.

Our bags are made from unbleached 100% cotton. And Economically-priced packaging that will present your product attractively, displaying your brand and message to your exact specifications.

Here are some good reasons to make the change:

- Biodegradable/natural plant fiber from Renewable resource
- Cotton bags are much more sustainable, nice and practical than plastic bags. They are easy to wash, and you can reuse them and avoid hundreds and thousands of plastic bags
- Cottons bags use less water, energy and oil and have less impact on air-pollution. They also participate to keep oceans clean and to save wild animals, the first victims of plastic bags
- In Simplistic we are also now making all our bags from organic cotton. It is a greener and non-toxic option as this cotton is grown without any pesticides and is much better for local populations and cultivated land quality
- JohnBjørg Cotton bags are Strong durable, flexible for required designs and more over we offer best PRICE.



Our range of Cotton bags can be used for almost any purpose including:

- Shopping bags
- Packaging for commercial foods that's dry
- Carrying Fruits & Vegetables
- Retailers
- Official Events, Family Events



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PAPER BAGS

Eco-Friendly Paper Bags

JohnBjørg Solutions Offer another option to protect Nature is by Paper bags. Whether you need in infinity paper bags or just a few, you'll find what you want in the huge selection we have on offer. We've got bags in heaps of different sizes and styles. Give us your need and Specifications in which we will make it true literally...

SUSTAINABILITY FEATURES:

- ▶ 100% Recyclable & Reusable
- ▶ Recycled Content included
- ▶ Printed using non-toxic water-based inks (if custom printed)
- ▶ The great environmental benefit of using paper bags is that they are made from unbleached, recycled brown craft paper a perfect solution to conserve natural resources, preserve energy and reduce greenhouse gas emissions
- ▶ The one reason why it is so ecofriendly is that it helps in saving huge amounts of energy. It is generally made from locally available materials, which in terms helps in transportation costs and helps in saving energy

Our range of Paper bags can be used for almost any purpose that is not influenced to wetness including:

- Shopping bags
- Packaging for commercial foods that's dry
- Carrying Fruits & Vegetables
- Retailers
- Official Events, Family Events



We're happy to accommodate large and small orders. Just choose from our large selection and find the paper bag style that suits your needs!



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LEAF TABLEWARE & CUTLERY FOR THE ECO-FRIENDLY FOODIE



As people are turning health conscious watching out the food that they eat, considerable interest and importance is also been given to the cutlery and tableware that holds and serves the food. The usage of plastic cutlery has reached epic proportions causing a lot of damage to the planet. This has led to an array of environmental-unfriendly situations like choking of the drainage systems , increased litter piles and non-decomposed plastic finding its way into the ocean and destroying life on land and water.

Thankfully, biodegradable cutlery is emerging out as the best alternative to the plastic menace and several products are being developed from natural fibers and biomass materials. The usage of bagasse, coconut coir, areca has led to the production of eco-friendly tableware and cutlery to curb the plastic menace.

The biodegradable tableware is best sought after as they are:

- Cost-friendly
- Convenient
- Decompose faster
- Protects the environment
- Easily available in the online and retail market

At John-Borg solutions , we have a range of tableware products from plants that are environment-friendly and sustainable to the planet. We primarily use the Areca leaf, coconut leaf and sugarcane bagasse to make the products.

- Areca Plates
- Areca Bowls
- Areca Cutlery
- Sugarcane Cups
- Coconut leaf straw

Areca tableware

The Areca palm leaves are best sources for producing a variety of tableware. The fallen dry sheaths from the areca palm tree are thoroughly cleaned and heat pressed without the usage of chemicals during the entire process. Following this, they are cut into desired shapes to make plates , bowls , spoons and other cutlery items.

The Areca tableware are elegant, light-weight and easily disposable . These tableware can tolerate food served at all temperatures making them good replacement to plastics.

Sugarcane tableware

Bowls made from sugarcane extracts have acquired wide acceptance in the markets. The biomass extracts are initially heated at high temperatures and then made into desired shapes. These products can be easily molded into any shape and they also decompose easily within 90 days .



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BIOCOMPOSTING SYSTEM



Biocomposting refers to the decomposition and recycling of plant matter into fertilizer or manure. The bio-compost thus obtained is a vital ingredient in organic farming as it contains a treasure of nutrients. The bio-composting process is carried out by piling up wastes obtained from the household kitchen and that are degradable. These are mixed with water, regularly stirred and left in any outdoor place undisturbed for several days or months to acquire high-quality manure. Addition of worms and fungi aids in the decomposition process as they enable in the breakdown of complex molecules into simpler ones. This generates heat, carbon dioxide and ammonia which are utilized by the microbes and presented back to the plants as nitrates and nitrites. Thus the entire cycle is nature-friendly and helps in the lush growth of plants.

Bioclean solutions

Our Objectives:

- Convert bio wastes both domestic and industrial into hi-grade organic compost fertilizer for the soil
- Reduce waste disposal costs.
- Eliminate land filling and waste dumping

At John-Borg Solutions we care for the environment and have developed a unique “decentralized bio-waste conversion program” that effectively takes care of the waste management process.

Our uniquely designed and efficient solid state aerobic fermentation media converts the bio waste into high value compost without any foul odor in 23-30 days time right inside the premises of your home.

Bioclean is a combination of clean processed coir pith and naturally occurring aerobic composting microbes. It has to be layered with biodegradable waste. The proportion of Bioclean depends on the moisture level in the waste.

This is a hassle free, convenient method that processes the organic garbage in a domestic environment in a short period of time. The result is the valuable organic fertilizer that we get to grow our own garden.

The benefits of bio-compost in the ecosystem are:

- Soil enrichment
- Improves water holding capacity
- Checks soil erosion during wetland construction
- Helps in landfill cover
- Cost-effective





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