

Come
Grow with Us





Once expanded at the premises, growbags can hold very high moisture content together with a high air retention capacity. This combination enables the best growth and spreading of plant roots. The substrate of the growbag is ideal to retain fertilizer.

This coupled with the high moisture content and naturally occurring nutrients becomes the ideal growth substrate for young plants. The substrate is organic, therefore not treated with chemicals, unlike soil it is also free of any seeds once again optimizing the growth of roots in young plants.



ABOUT US

Driven by the belief that challenges can give rise to opportunities, CoirRoots was founded during Sri Lanka's economic crisis in 2019. As engineers, we established a few key criteria for our venture: the business must be sustainable, prioritize gender equality, and create well-paid jobs to reduce the need for migration. After thorough research, we identified a business opportunity in coconut husk-based grow bags, a soil substitute substrate. To strengthen our team, we partnered with a specialist in the field, welcoming a pioneer in Sri Lanka's coir industry with over 35 years of experience.

After months of meticulous planning and construction, we are proud to announce the establishment of a state-of-the-art facility that employs members of the local community. Our production process utilises solar energy and repurpose waste products from coconut cultivation as the only raw material for our growth medium.

We have experienced significant growth, doubling our output capacity within a few months to meet increasing market demand. Our success is driven by a commitment to deliver high-quality products in a timely manner and at competitive prices. With sustainable agriculture as our foundation, we are focused on further expansion.

Why choose us

01

At CoirRoots, we are committed to ensuring the highest quality of our products while prioritizing the well-being of our community and the environment. Sustainability is integrated into every aspect of our production process. By choosing our products, you are supporting a company dedicated to enriching the lives of individuals in the local community who are integral to our supply chain. Furthermore, our most important asset – our production team are well-paid and our pay is gender equal. We have aligned our practices to the UN Sustainable Development Goals 2030.

02

Our only raw material for the product is a waste from coconut cultivation. All machines used for the production cycle are produced locally. We run 98% on solar power minimizing our carbon foot print.

03

We do the above to give our customers a consistent, high-quality product at the best value to maximise their crop yield.

our vision



Empowering economic growth through exports, uplifting local communities, and advancing a sustainable world by producing eco-friendly products that preserve the environment



our mission

Our mission is to achieve globally competitive production of a soil substitute growth substrate for agriculture. Through innovation, people development, and knowledge

DIRECTORS MESSEGE



Developing CoirRoots to the company it is today has been a passion project rather than work. I left Melbourne in 2013 to return to Sri Lanka to help my country benefit from the education I have received. As a Civil Engineer I was able to achieve this dream until the economic crisis in 2019. The chaos this crisis brought also saw the birth of many export-oriented businesses which were much needed for many years.

At CoirRoots, we've achieved exactly what we set out to do—producing a sustainable agricultural product that not only meets our standards but also makes a positive impact on the community and economy. When you choose to buy from us, you're not just purchasing a product; you're investing in a value-enriched supply chain that ensures every product delivered is wholesome and beneficial to everyone involved in its creation.

Our success is deeply rooted in the hands of the hardworking individuals in our community who enrich both our business and their own lives. Our business mantra is centered on four key principles: Quality, Innovation, Consistency, and Dedication

Shanika Cabraal
Director





As a mechanical engineer with a specialization in Robotics and autonomous systems, my journey began in the world of cutting-edge technology. After several years working as a robotics engineer, I realized the potential in Agriculture. As we innovate, we must ensure that our methods of growing food are sustainable and resilient. It was at this point we embarked on a new path by founding CoirRoots. This transition from tech to agriculture has been nothing short of eye-opening.

At CoirRoots, we are dedicated to revolutionizing agriculture with our innovative substrate, a sustainable and eco-friendly alternative to traditional soil. This product is not just about replacing soil; it's about enhancing the way we grow food, with the environment in mind.

In a world where technological advancements are rapidly changing in every industry, it's crucial to recognize that agriculture is the foundation of our survival. At CoirRoots, we are proud to be at the forefront of this evolution, contributing to a future where sustainability and innovation go hand in hand.

Isuru Madarasinghe

Director





10-STEP MANUFACTURING PROCESS

01 |

Purchasing of Coconut Husk

Good quality coconut husks are purchased locally and each husk goes through a visual examination as well as random (1 per 1000 husks) chemical testing to ensure the husks are within our expected quality composition.

02 |

Coconut Husk Processing

The Coconut Husk is then milled to extract fibre. Two thirds of the product is material known as Coco Peat and the balance third is fibre. Coco Peat becomes the primary raw material for the soil substitute growth medium. The fibre is discarded to be used for coir fibre ropes, etc. As per clients' orders cocochips will be mechanically cut to the specified size using a cutting machine.

03 |

Washing of Coco Peat

The coco peat also known as pith extracted from step 2 is washed with fresh water to reduce salt content to maximise absorption of water by plant roots.

04 |

Drying

The washed coco pith is sun dried in concrete drying yards to reduce moisture content to the optimal value required to achieve required compaction.

05

Sorting

Dried Coir Pith are sorted based on electrical conductivity and moisture level.

06

Sifting and Sieving

Sorted Coir Pith is sifted and sieved to remove fine dust particles and extract right sized grains as per growing medium specification.

07

Mixing of Coco Peat, Coco Chips & Coco Coir

Sifted coco pith is mixed with coco chips as per substrate specifications, to obtain a homogeneous mixture.

08

Compaction of Substrate

A specific measured quantity of Coco Peat is placed in a mold to press and compact. A hydraulic press is used to achieve the required compaction.

09

Quality Testing

Random samples are quality tested at our laboratory to ensure chemical composition is as specified (1 in 20 growbags).

10

Pack and Dispatch

Each bag is individually packed with a batch number and date of manufacture sealed to the bag. The stacked bags are shrink wrapped and packed in cartons ready for shipping.



Our PRODUCTS

What are growbags?

Grow bags, also known as planting bags or garden bags, are containers made from durable, UV-resistant materials such as polyethylene filled with a growth medium made of coconut peat and coconut fibre.

These bags provide a portable and versatile solution for cultivating various plants, including vegetables, fruits, herbs, and flowers.

Grow bags offer several advantages over traditional planting methods, such as improved drainage, aeration, and root development, leading to healthier plants and higher yields.





Grow Bag

CoirRoots offers an easy-to-use, sustainable soil substitute. Crafted from a unique blend of coconut peat and chips to maximize yield for its intended crop. Compressed into slab, it provides optimal aeration and moisture retention for plants to grow at their best. The product is packaged in a durable, UV-resistant polythene bag, ensuring long-lasting performance in a variety of growing environments. Ideal for hydroponic and other horticultural applications.



Open Top Bag

CoirRoots introduces a sustainable, single-plant growing solution with its soil substitute crafted from a blend of coconut peat and chips. This mixture provides ideal moisture retention and aeration. Packaged in an open-top polythene container, it simplifies planting and care, making it perfect for targeted applications. The UV-resistant packaging ensures long-lasting use in a variety of growing conditions. Ideal for hydroponic and other horticultural applications.



Briquette

The CoirRoots Coco Peat Briquette is made from 100% coco peat, providing a natural and sustainable solution for soil amendment and pot filling. When hydrated, this compact briquette expands to create a lightweight, porous growing medium that enhances soil structure, improves aeration, and retains moisture. Perfect for gardening, potting mixes, and landscaping, the CoirRoots Coco Peat Briquette promotes healthy root development and plant growth. Versatile and eco-friendly, it's an essential addition to any garden.



Disc

CoirRoots offers versatile seed germination disks made from a premium blend of coconut peat and chips. These compact disks expand upon watering, effortlessly conforming to the shape of any container. They provide optimal conditions for seed germination, including excellent moisture retention and aeration. These eco-friendly disks ensure robust seedling development and can be easily transplanted into larger growing mediums as needed.



OUR PRODUCTS



Why choose our grow bags

- 01 | Increases agriculture productivity by nearly 4 times compared to traditional growing
- 02 | Completely organic bio-degradable product reducing agriculture waste
- 03 | Enhancing value addition of small holder suppliers in Sri Lanka who base their entire livelihoods in this supplier chain

The Role of Grow Bags in Sustainable Agriculture:

Optimized Resource Utilization: Grow bags facilitate efficient use of resources such as soil, water, and nutrients by providing a controlled growth medium. The lightweight and portable nature allow for easy relocation and space optimization, maximizing land productivity while minimizing wastage.

Reduced Environmental Impact: Compared to traditional planting in soil beds, grow bags require less water, fertilizer, and pesticides, thereby reducing chemical runoff and soil degradation. Additionally, the use of grow bags minimizes land disturbance and erosion, preserving natural habitats and biodiversity.

Year-Round Cultivation: Grow bags extend the growing season by providing insulation against temperature fluctuations and protecting plants from adverse weather conditions. This enables year-round cultivation, enhancing farm productivity and income stability for growers.

Space-Efficient Farming: In urban and peri-urban areas where land availability is limited, Grow Bags offer a space-efficient solution for rooftop gardens, balconies, and small-scale farming ventures. They enable urban dwellers to participate in food production, promoting self-sufficiency and community resilience.

We Believe in QUALITY

These certifications further strengthen our commitment to our customers where we will adhere to our company's Quality Policy to "provide quality services that meet or exceed the requirements of our customers, while protecting the environment"





OUR CERTIFICATION

We believe the product we delivery to customer needs to be precisely prepared to deliver consistent quality tailor-made to their growing needs. It is this process-engineering that allowed us to get both international and local quality and environmental standards required for production. We are one of the few company:s in Sri Lanka to hold all these standards.



SLS 1487:2014

Coir Roots focuses on innovative coir products by working side by side with growers and local agronomists. Having our own production facilities in Sri Lanka means we have dedicated teams in place to control all R&D, traceability and quality control.

SUSTAINABILITY

We believe that sustainability should be built into all aspects of our business. Installing solar panels on our factory roof was always a part of our plan to align ourselves with the UN Sustainable Development Goals 2030.

98% of our production process runs on renewable energy. Rooftop solar has also enabled us to provide a more price competitive product as our energy costs have significantly reduced

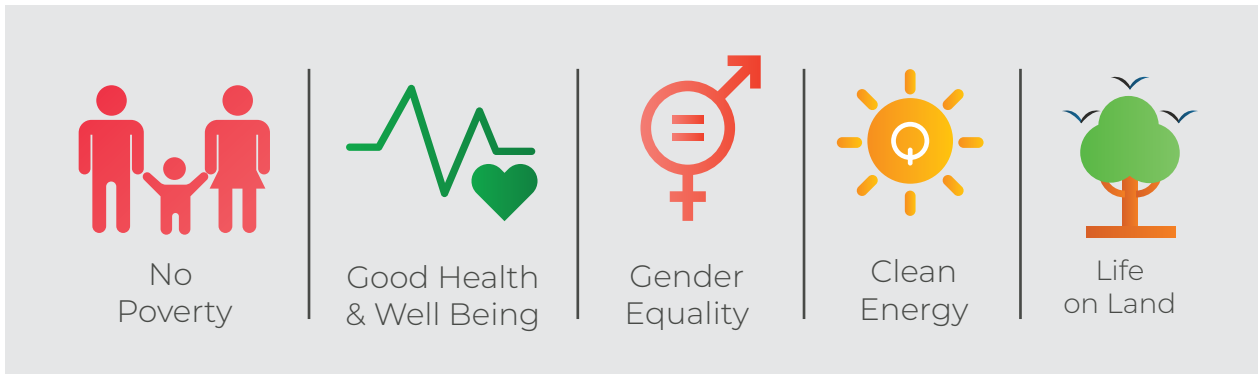


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As a female-led organization, we take pride in being the first factory in the region to implement equal pay. Historically, female workers were compensated less than their male counterparts for identical work, solely due to gender. At our organization, compensation is determined by the role rather than gender. We are also committed to upholding a zero-tolerance policy towards any form of harassment, inequality, regardless of race or gender

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At CoirRoots we implement



At the heart of our mission lies a deep commitment to sustainability, reflecting our belief that business success should go hand in hand with environmental stewardship, social responsibility, and economic resilience. As the world faces increasingly unpredictable climate patterns, the need for sustainable practices has never been more urgent. In Sri Lanka, where our operations are based, we have observed firsthand the impact of climate change, from shifting fruit seasons to unusual rainfall. This awareness drives our dedication to environmental, social, and economic sustainability across all aspects of our business.

We frequently collaborate with local schools to undertake tree planting programs to teach the future generations regarding the importance of our environment. Human Kind's existence relies on oxygen, and oxygen comes from trees.



Our team of experienced team members work really hard to ensure your products are delivered on time. Whilst we pay our staff well, we also believe in rewarding our team a little bit extra when the occasion arises.



'Well rested staff produce better results' has always been our mantra. We ensure our staff have regular breaks and a pleasant area to have these breaks at. This space is also used for their lunch and other team celebrations.



Our team has grown exponentially since our inception. When people are well treated, word gets out and we've had an ever growing team to keep up with market demand.

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