



GW BIO SUBSTRATES

TOWARDS A GREENER WORLD

www.ceyloncocopeat.com

OUR COMPANY

A subsidiary of Bio Substrate (Pvt) Ltd, our company GW Bio Substrates is one of Sri Lanka's leading manufacturers of coconut fibre and pith products supplying industrial, agricultural, horticultural and terrarium sectors in Sri Lanka and overseas. Since commencing operations in (2003), we have earned a reputation for excellence for the exceptional quality of our products and our superior customer service.

Fully committed to environmentally friendly manufacturing, our facilities in Sri Lanka are equipped with modern machinery and technology to ensure highest quality levels and adherence to international standards. This is further supported by a Quality Assurance department, and laboratory facilities backed by an expert Research & Development team to ensure global quality compliance.

From sourcing and processing of raw materials through to manufacturing and packing, our operations are fully integrated throughout the coir fibre value chain. This enables us to ensure high quality at every stage as well as offer the advantage of customisation to meet the exact requirements of our clientele.

Our primary export markets at present include Russia, Korea, Japan, UAE, Pakistan, Azerbaijan, Iran, China, Germany, USA and Canada, and we have gained a thorough understanding of the quality requirements and specific needs of each nation. With the advantage of flexibility, we continue exploring opportunities for growth in emerging markets, increasing our global presence.





Our Accreditations





OUR VISION

“To become the best coir fibre and peat products manufacturer while being the outstanding service provider in the region.”



OUR MISSION

“Produce premium quality coir fibre and peat products using state of art technology; comply with international standards according to customer specification, while fostering stakeholders including employees, suppliers and customers; and supporting to elevate the economy of Sri Lanka.”

WHY CHOOSE US...

EXPERTISE: As a company founded and managed by an industry expert and a team of experienced professionals, we possess an in-depth knowledge of the entire process enabling us to meet the exact needs of our customers.

CAPACITY: With 3 factories within the coconut triangle and outside it, we have ample production capacity, with a continuous supply of raw materials to guarantee timely deliveries.

QUALITY: We ensure strict adherence to quality standards in every aspect throughout the entire process from sourcing to manufacture and distribution.

SERVICE: We are renowned for our exceptional customer relationships as well as our after sales service levels. Keeping in touch with our customers, we provide free advice on how to use our products to obtain the best results.

ACCREDITATION: We are a pioneering member of the exporter association of coconut based substrates in Sri Lanka, a registered member of the CDA (Coconut Development Authority) and the EDB (Export Development Board).

INNOVATION: With emphasis on research and development, we work continually with local agronomists. A part of the university network for industry and community (UNIC) of the Agriculture Faculty of the Wayamba University, Sri Lanka, a recognised government institution for agricultural research, we also keep up with innovative product development.

VISIONARY: Since commencing operations in 2003 we have maintained a visionary approach, participating regularly in international trade fairs to explore new markets, trends and opportunities.

OUR EXPERT PANEL



Mr. Upali Weerakoon

Bsc (Ind.Mgt) | CIM (UK) | Dip. (SLBDC)
Chairman | Managing Director

President - Consortium of Coconut Based
Products and Exporters of Ceylon (COCOPEC)
Member Advisory Committee of Sri Lanka,
Export Development Board (EDB)
on coconut based product sector

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Dr.Heshan Devapriya

Ph.D. Candidate in Agriculture Optimization (Malaysia),
M.Sc. In Financial Risk (UK),
B.SC. Statistic (SL),
Consultant | Director



Dr. Wijesiri Weerakoon

Former Director General of Agriculture – Sri Lanka
Department of Agriculture Sri Lanka
Field Crop Research and Development Institute
Bachelor of Agriculture & Doctor of Crop Science
Consultant



**STRINGENT
QUALITY CONTROL**



**SOURCED FROM
LOCAL PLANTATIONS**



**AMPLE PRODUCTION
CAPACITY**



**TRUSTED GLOBAL
CUSTOMER NETWORK**

COCO PEAT PRODUCTS

- GROW BAGS
- PLANTER BAGS
- COMPRESSED BALES - 5KG / 4.5KG
BALES AND BRIQUETTES
- 25KG COMPRESSED BALES
- COCO PEAT DISCS AND
GROW CUBES



COCO PEAT GROW BAGS

Manufactured using natural, organic coco peat, grow bags are ready to use and can be mixed to required specifications

Advantages:

- Ideal for hydroponics and soilless cultivation
- Durable – lasts more than 2 years
- Cost effective
- 100% natural medium
- PH levels 5.5 - 6.5
- Best substitute for peat mos



Low EC - Below 500 ms
High EC - Above 1000 ms



10,000 - 16,000
Pieces Or 20 pallets



100 % Peat
100 % Chips
Composition percentages
from Peat and chipts
As per buyers request



100 X 20 X 10
120 X 15 X 10
80 X 15 X 10
Tailor



Horticulture sector
Floriculture sector
Hydroponic growers
Specially for, Tomato | bell peper | Green houses



COCO PEAT PLANTER BAGS

Made from 100% natural coco chips and coco peat, planter bags are an excellent eco-friendly medium for limited spaces.



Advantages:

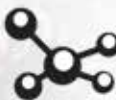
- Easy handling alternative to pots
- Ready to use and re usable
- High porosity for healthy root growth
- Durable - lasts for more than 2 years
- Versatile – adjustable depth levels
- Eliminates the cost of compost
- Increases the efficiency of drip irrigations



Low EC - Below 500 ms
High EC - Above 1000 ms



20,000 pieces



100 % Peat
100 % Chips
Composition percentages
from Peat and chips
As per buyers request



20 X 20 X 20
15 X 15 X 15



Green houses
Indoor and outdoor cultivations
Horticulture sector
Floriculture sector
Specially designed for cannabis growers



COCO HUSK CHIP BALES (4.5 kg)

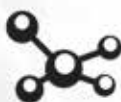
Replacing fir bark in organic agriculture, coconut husk chips have become a natural and economical alternative growing medium. Made out of coconut husks cut to required sizes, they are used widely for horticultural and floricultural purposes – especially Gerberas, Orchids and Anthurium cultivation as well as for landscaping, golf course and lawn developers. A 100% natural and renewable source, coco husk chips are also ideal for growing in pots.

Advantages:

- High levels of water retention and porosity
- Excellent resistance to fungi
- Enhances effectiveness of fertilizer and irrigation efficiency
- Helps germination of seeds
- Prevents excess saturation and salt



Low EC - Below 500 ms
High EC - Above 1000 ms



100 % chips
Composition percentages
from Peat and chips
As per buyers request



4500 - 5000 units



Outdoor cultivations / Animal bedding
Landscaping industries / Golf course maintenance crews
Super markets

COMPRESSED 05KG BLOCKS

These are produced by compressing peat and chips to form a block weighing 05kg. Chips are some of the best soil conditioners in the world and can be used as an alternative to Fir Bark in the farming and agricultural industries. Coco peat is a byproduct gained during the extraction of coir fiber from the coconut husk. It is a 100% natural, spongy cellulose organic plant growing medium. In Compressed 05kg blocks can be purchased separately as Peat and Chips.



Advantages:

- Worm growth
- Nutrient balance
- Disease-resistance
- Resists fungal growth
- 100% natural and renewable resource
- 05 Kg compressed in to a block adds a value in transportation and also in storing



Low EC - Below 500 ms
High EC - Above 1000 ms



100 % Peat
Composition percentages
from Peat and chips -
As per buyers request



4500 - 5000
units



Outdoor cultivations
Animal beddings / Landscaping industries
Golf course maintenance crews
Super markets

25KG COMPRESSED BALES

100% natural coconut peat packed into slightly compressed 25kg bags, these can also be mixed with coco chips to customer specifications

Advantages:

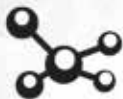
- Manufactured to high quality standards
- Durable packing for easy transportation and handling
- Enhances effectiveness of fertilizer and irrigation efficiency
- Low compression for ease of use



Low EC - Below 500 ms
High EC - Above 1000 ms



670 bales or
17 pallets



100 % Peat
100 % Chips
Composition percentages
from Peat and chipts
As per buyers request



can be customized



Landscaping industries
Bonsai growers
Golf course maintenance
Floriculture sector
Specially designed for mushroom growers

COCO DISCS GROW CUBES

Made from thoroughly blended coconut husks or coco peat. Available in a variety of sizes, weights and dimensions.

Advantages:

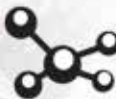
- Economic and cost effective
- High absorption: acting like a sponge, they swell to support the required potting mixes
- High water retention and porosity
- Eliminates the need for fertilizer in seed germination



Low EC - Below 500 ms
High EC - Above 1000 ms



As per buyer request



100 % Peat
100 % Chips
Composition percentages
from Peat and chipts
As per buyers request



14.5 cm | 13 cm
in diameter



Nurseries
Indoor gardening
Green houses
Floriculture sector
Horticulture sector

COCO PEAT BRIQUETTES

Made from 100% coir peat and husk chips, an economical, eco-friendly option for home gardeners and commercial growers

Advantages:

- Water absorption increases volume 10 times. (8 litres from one 600g briquette)
- Beneficial for seed germination
- Excellent natural medium for soil conditioning
- Ideal for potting in small growing containers



Low EC - Below 500 ms
High EC - Above 1000 ms



25 MT



100 % Peat
100 % Chips
Composition percentages
from Peat and chips
As per buyers request



20 X 10 X 05



Super markets
Indoor and outdoor cultivations
Horticulture sector
Floriculture sector
Animal bedding

WHAT IS COCO FIBRE?

The fibrous material found between the hard, internal shell and the outer coat of a coconut, coco fibre or coir is highly versatile and has a wide variety of uses.

IDEAL FOR

- Horticultural & Floricultural sectors
- Mattress manufacturers
- Coir pad manufacturers
- Vehicle seat manufacturers
- Charcoal manufacturers
- Soil erosion controllers
- Road constructors
- Coir brush, banister and broom manufacturers
- Oil refinery companies
- Upholstery industry
- Animal parks / bedding manufacturer



COCO FIBRE PRODUCTS

- COIR BALES
- FMT (MACHINE TWISTED FIBRE)
- BRISTLE FIBRE
- CUT FIBRE (SOIL CONDITIONER)
- SOIL EROSION & WEED CONTROL
PRODUCTS



COCO FIBRE BALES

Available as bales, FMT (Machine Twisted Fibre), bristle fibre and cut fibre. Ideal for yarns and ropes, sound and heat resistance appliances and erosion control products

Advantages:

- Low impurities and moisture compared to other manufacturers
- Customisable to required grade
- Diverse applications



125 Kg
150 kg
200 Kg

As per buyer request



18 MT



As per buyer request



As per buyer request



Mattress manufactures
Oil refinery companies
Upholstery industry
Soil treating organizations
yarns and ropes manufactures

MACHINE TWISTED FIBER - FMT

FMT is an output derived through twisting fiber which is extracted from the coconut husks. The fiber used in the process depends on the client's requirement, purely with mattress Fiber or mixed fiber, or by mixing Bristle fiber. FMT is a curl shaped fiber rope in which the curl shape adds a spring effect to the fibers.

Advantages:

- Its precise softness that has proven to be the best way to prevent spinal illnesses
- Anti-moist substance
- Good ventilation
- low liquid absorbency property
- Strong and elastic



20kg - 22 kg
As per buyer request



20 MT



As per buyer request



As per buyer request



Upholstery industry
Rubberized coir mattress & pad manufactures
Coir cushion industry
Manufacturing of Filters





BRISTLE FIBER

Bristle Fiber is composed of the stiff and long strands of coir fiber. Producing bristle fiber involves keeping the immature husks in a water-filled pit for 2 to 6 months where microorganisms break down the plant tissues in a process known as retting. The long fibers are separated by a milling process and subsequently dried and cleaned.

Brown fibers are extracted from seasoned coconuts which have lost their green color. The basic grades of bristle fiber can be categorized as 01 tie fiber | 02 tie fiber and 03 tie fiber based on the length of strands and the condition of the fiber

Advantages:

- Good aeration
- Substantial moisture retention
- Strength | elastic | Long



Packed in sacks average to 12Kg - 15 Kg As per buyer request



As per buyer request



White and Black color fiber



12 cm | 15 cm
17 cm | 18 cm



Tawashi industries
Coir brush, banister and broom manufactures
For the production of coir twine
Oil refinery industry
For making of potting mixtures| growing media

CUT FIBER (SOIL CONDITIONER)

Cut fiber are made with Coir particles as a form of 01cm 1.5cm & 02cm using latest technology for various types of Gardening and as a form of Nutrient to the soil. Cut fiber is commonly used as a Soil conditioner. Long lasting property in Cut fiber helps plants in keeping and maintaining their nutrient levels.

Advantages:

- Is commonly used as a Soil conditioner
- Suitable for outdoor gardening
- Diverse applications
- Customizable to required grades



90 -110 Kg per
As per buyer request



176 bales
22 pallets at
08 bales each
15 - 16 MT



Can be customized as
per buyers request



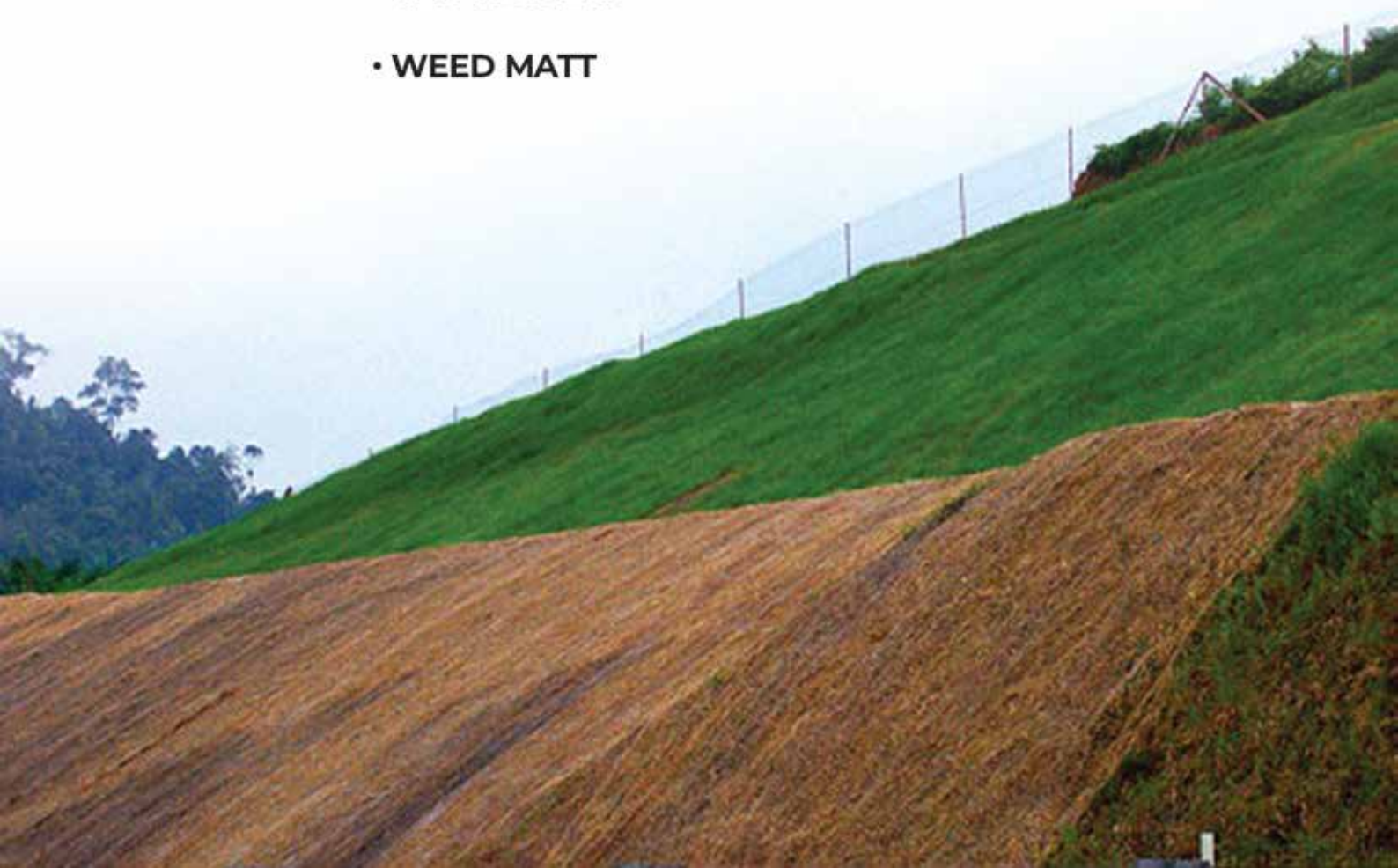
As per
buyer request



Soil treating organizations
Oil refinery companies
Landscaping industry
Mattress manufactures
yarns and ropes manufactures

SOIL EROSION WEED CONTROL PRODUCTS

- COIR BLANKETS
- GEO TEXTILES
- WEED MATT



COIR BLANKET

Made from 100% coconut film, soil erosion control blankets are a highly effective, natural way to stabilise and reinforce soil enabling vegetation and other materials to take root. Ideal for open field organic cultivators or landscapers facing difficulties with erosion; environmental protection projects to prevent erosion of high slopes; high discharging channels or any location where the soil requires natural protection or reinforcement; building constructors and uses in excavating work as soil cover. Available in roll form with a maximum width of 2.4m and length of up to 50m.

Advantages:

- Increases water infiltration into the soil
- Efficient erosion control - Reduces soil erosion
- Increases soil moisture retention and enriches the soil promoting seed germination
- Customizable thickness and length as required
- Diverse applications to suit irrigation conditions
- Clear, impermeable polypropylene wrapping that does not deteriorate



39,600 SQM



Width of 2.4m
Length of up to 50m



Super markets
Golf courses



COIR GEOTEXTILE (COCO NET)

Made from pure coir drawn from coconut husks without the addition of synthetic material, Coir Geotextile is used as an effective blanket which prevents soil erosion and accelerates the growth of vegetation on banks and slopes. A 100% natural, organic fibre product, it has proven to be far superior to alternatives over the past 20 years. Available in 400g/sqm, 700g/sqm and 900g/sqm grades.

Advantages:

- Perfect for soil stabilisation, reinforcement, landscaping and erosion control
- Naturally resistant to rot, mould and moisture, thereby no chemical treatment is required
- Dissipates the energy of flowing water, absorbs excess solar radiation
- Reduces maintenance of all plants promoting the development of strong roots and growth
- Holds a lifespan of about 5 years enriching the soil when decomposing
- Easy to install and can be used in limited areas
- Ideal as landfill cover



Soil treating organizations
Building constructors
Road constructors
Soil erosion controlling industries and
government institutions



COIR WEED MAT

Weed Mat is an environmental friendly natural option for any location looking to control the growth of weeds. A weed mat is a needle-punched mattress coir pad with natural latex. This natural coir pad is excellent to control weed in plantations, and perennial slope landscaping. The coir weed mat biodegrades over time, and provides mulch since it is 100% biodegradable. Mulching helps the young tree obtain essential nutrients needed to survive the early stages of development and to suppress the growth of weeds around its root system. Weed mat can be customized and split for easy application

Advantages:

- Weed mat rolls provide one-step erosion control
- 100% biodegradable and compostable – there is no soil residual buildup.
- Superior weed suppression compared to other common methods.
- Conserves up to 80% of the soil's moisture.
- Reduces plant mortality and promotes plant and seedling growth.
- Improves soil health and productivity.
- Moderates soil temperature fluctuations



Nurseries
landscaping industry
Indoor and outdoor gardening



01 cm
thickness



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