COCOWIDE

EXCELLING IN GROWING MEDIA

COCOWIDE'S approach into business revolves around industrial expertise, innovation and sustainability.

By combining our vast industry knowledge, expertise in products and manufacturing processes, innovative mindset and environmentally sustainable business practices, we could deliver coir substrates solutions that meet unique needs of our clients.

COCOWIDE

EXCELLING IN GROWING MEDIA

At Cocowide we use naturally occurring, renewable and bio-degradable cocopeat (coir pith) to provide growing substrates solutions to produce vegetables, soft fruits and other crops including cut-flowers and medicinal cannabis.

Capitalizing on unmatchable properties of naturally renewing coco peat, we successfully compete with well-known substrates such as stone wool, peat moss, wood shavings etc., offering the best growing solutions to the highly competitive global horticultural industry.

Our strategically located facilities have access to an abundance of naturally occurring and renewable raw materials which are carefully selected and processed before transforming into the range of products on offer.


COCOWIDE MAX
COCOWIDE MAX

FROM A FARM TO A FARM

Sourcing superior raw materials is imperative in the production of coir-based substrates products as variation in quality of raw materials and its subsequent improper processing could have a direct effect on the shelf life of the product and its performance as a growing medium.

Cocowide is bestowed with the opportunity to access superior raw materials due to the strategic locations of our plants and we have a processing system which uses stringent standards to prepare the materials mixes going into the final products.

SUSTAINABLE AGRICULTURE WITH COIR SUSBTARTES

Coco is renewable which makes its use a totally environmentally friendly process. Thanks to nature's bounty, it stands out among competing substrates which are mostly non-renewable and have negative environmental impacts in extraction/ production.

Its subsequent disposal after usage also does not create environmental hazards because of its natural decomposing properties. It has a tremendous water holding capacity which is approximately eight to nine times its weight. This property makes coco peat ideal for soil conditioning thus turning virtually unsuitable soils suitable for cultivation. Coco peat produces more breathing space and aeration for roots of the plants.

The balanced water holding capacity and air-filled porosity taken together makes coco peat one of the best substrates on the earth which gives superior root structures and root growth to plants.

Also, it has natural anti-fungal properties which help plants to resist soil borne diseases.

These properties of coir/coco make it an ideal substrate for sustainable agriculture which is in line with the needs of eco system which demands ways of farming which is more sustainable and eco-friendly.

Local Presence and Global Reach

LOCAL PRESENCE AND GLOBAL REACH

Our steady and continual expansion into international markets on different continents led us to diversify our product portfolio and also made it imperative to do serious assessments in locating manufacturing facilities locally and internationally.

Our products are used in more than seven countries under differing climatic and geographical conditions.

We have put together all our professional expertise, industry experience and the requirements of the clients to come up with the most appropriate products tailored for unique conditions.

To achieve this objective, we must find ideal locations in terms of manufacturing facilities also because of the critical importance of having access to right kind of raw materials.

In addition to four manufacturing units we have in Sri Lanka, which managed by Cocowide Lanka (Pvt) Limited we have Cocowide Exports (India). So that we are well positioned to meet any product demanded by existing or potential clients.








COMMERCIAL HYDROPONICS

Coco/coir has long been recognized as an excellent growing medium for hydroponic farming. They offer several desirable properties for the crops.
Grow bags help isolate plants from the cold ground, promoting better root health.

These planter bags are made from plastic materials that facilitate proper air circulation and the protection as well. As a result, the growing medium in the bags warms up much faster than soil in the ground.

They also allow for more precise watering, reducing the need to constantly monitor and adjust water levels.

Grow bags come in a variety of sizes, depending on the type of plant and the volume of substrate required. This makes it easy to select the right size for your specific needs.

Additionally, the risk of soil-borne diseases and pathogens is reduced, as plant roots do not come into contact with natural soil.

These products can be customized in terms of length, width, and height to suit different growing setups. Furthermore, different types of plastic offer varying levels of UV resistance, allowing growers to choose materials best suited for their environmental conditions.

TYPICAL COCOWIDE GROW BAG

Grow Bag Product	Raw material mix		WHC*	AFP**
	Coco Peat	Coco Chips	(l/kg)	(%)
COCOWIDE *MAX*	100%	0%	7.0-8.0	12-18
COCOWIDE *PLUS*	70%	30%	6.0-6.5	23-28
COCOWIDE *MAXIS*	50%	50%	5.0-5.5	25-26
COCOWIDE *OPTIMA*	30%	70%	4.5-50	30-40
COCOWIDE *EXTRA*	0%	100%	4.0-4.5	35-45

WHC -Water Holding Capacity*
*AFP** -Air Filled Porosity*

Grow bag plastic types		
Gauge	Micron	Years of UV resistivity
800	200	5
600	150	4
500	125	3
400	100	2
300	75	1

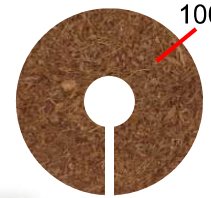
Common Grow bag sizes (Dimensions after expansion)		
Lengths - L (cm)	Widths - W (cm)	Heights - H (cm)
120, 100, 90, 70, 50	10, 12, 14, 15, 18, 20	10, 12, 14, 15, 16, 18, 20

TYPICAL GROW BAG

MAX

As cocopeat has a high-water holding capacity, Max mixture is ideal for warm climates and set ups with longer irrigation intervals. Proper screening to remove finer particles makes the mix more homogeneous.

EC(mS/cm) 1:1.5 v/v method	Washed	<1.00
	Unwashed	<3.00
pH		5.5-6.5
Water Holding Capacity (l/kg)		7.00-8.00
Air-Filled Porosity (%)		18.22%



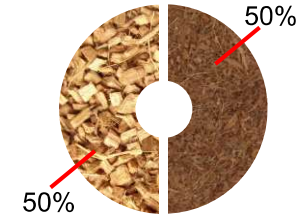
PLUS

PLUS, mixture also has higher a high-water holding capacity and mixture is ideal for warm climates and set ups with longer irrigation intervals. Addition of husk chips into the mix increases aeration and air-filled porosities proportionally.

EC(mS/cm) 1:1.5 v/v method	Washed	<1.00
	Unwashed	<3.00
pH		5.5-6.5
Water Holding Capacity (l/kg)		6.00-6.50
Air-Filled Porosity (%)		23.28%

MAXIS

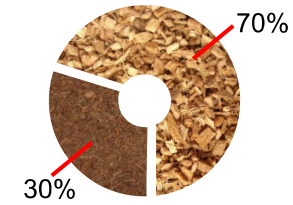
MAXIS mix has a balance water holding capacity and an air filled porosity which makes it an ideal choice for crops needing water and aeration balanced.



EC(mS/cm) 1:1.5 v/v method	Washed	<1.00
	Unwashed	<3.00
pH		5.5-6.5
Water Holding Capacity (l/kg)		4.50-5.00
Air-Filled Porosity (%)		30-40%

OPTIMA

With the higher percentage of husk chips, OPTIMA mix makes it an ideal choice for conditions of cold climates with shorter irrigation cycles. Root suffocation and higher husk chips percentage increase the longevity live of the substrate



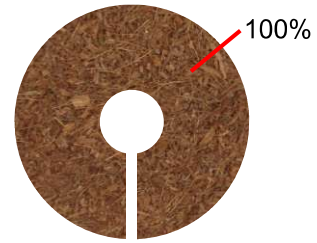
EC(mS/cm) 1:1.5 v/v method	Washed	<1.00
	Unwashed	<3.00
pH		5.5-6.5
Water Holding Capacity (l/kg)		4.50-5.00
Air-Filled Porosity (%)		30-40%

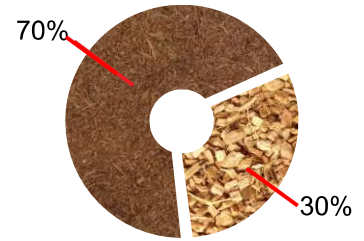
NAKED SLABS

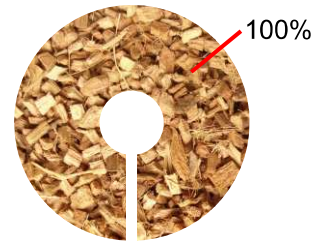
Naked slabs are usually used in growing vegetables and soft fruits depending on the mix being used.

They can be set easily in troughs and trays. These are like Lay- Flat bags but without the plastic cover.

Common Mixes	Water Holding Capacity (l/kg)	Air Filled Porosity(%)
MAX	7.00-8.00	18-20%
PLUS	6.00-6.50	23-28%
EXTRA	4.00-5.00	40-45%
EC (mS/cm) 1:1.5 v/v method	MAX	<1.00
	PLUS	<3.00
pH		5.5-6.5
Common Sizes/ Units per 40'HC	100x15x08	
	100x15x10	
	100x18x10	



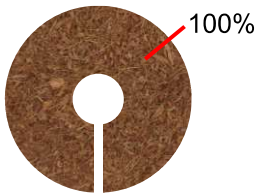


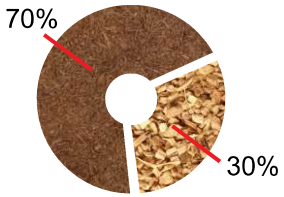


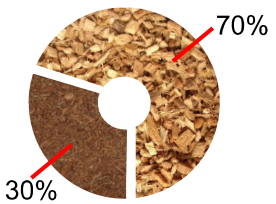
MINI GROW BAGS AND OPEN-TOPS

Mini Grow Bags and Open Top Bags have the advantages of optimizing water and fertilizer as the usage could be better focused and managed into a single plant. Their usage prevents the transmission of diseases and pathogens from plant to plant through substrate.

Common Mixes	Water Holding Capacity (l/kg)	Air Filled Porosity(%)
MAX	7.00-8.00	18-20%
PLUS	6.00-6.50	23-28%
OPTIMA	4.50-5.00	30-40%
EC(mS/cm) 1:1.5 v/v method	Washed	<1.00
	Unwashed	<3.00
pH		5.5-6.5
Common Sizes/ Units per 40'HC (Mini Grow Bags)	20x18x16	32000
	25x18x16	32000
	50x18x16	32000
Common Sizes/ Units per 40'HC (Open Top Bags)	15x15x15	32000
	20x20x20	32000







FOR POTTING MIXES

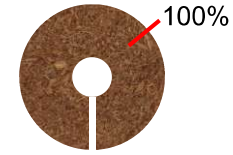
Potting mixes have been developed to ensure that potted plants have the best environment to grow and develop. They are used in the production of nursery plants and by home gardeners.

Substrates as an alternative to soil are increasingly becoming popular in producing potting mixes as soil may become compacted, weedy, fail to drain well, and can pass on pests and diseases from the soil to the plant.

Out of alternatives available, cocopeat and coconut husk chips can help to tremendously improve properties of the mix in which they are forming parts. Cocopeat alone or a carefully selected mixture of cocopeat and coconut husk chips can contribute to quality potting mixes which will produce happy, healthy, and rewarding plants for every type of container and garden situation.

COCO PEAT - NATURAL

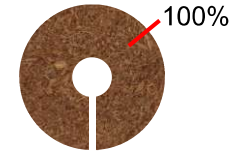
EC (mS/cm) (1:1.5 v/v Ratio)	Washed	<1.00
	Buffered	<3.00
pH		5.5 - 6.5
Breakout volume (l/kg)		13 (+/-1)
Quantity per 40'HC container (MT)		23-24



PARTICLE SIZE DISTRIBUTION			
0-1 mm	1-5 mm	5-10 mm	>10 mm
25-30%	10-15%	40-50%	<10%

COCO PEAT - SCREENED

EC (mS/cm) (1:1.5 v/v Ratio)	Washed	<1.00
	Buffered	<3.00
pH		5.5 - 6.5
Breakout volume (l/kg)		13 (+/-1)
Quantity per 40'HC container (MT)		23-24



PARTICLE SIZE DISTRIBUTION			
0-1 mm	1-5 mm	5-10 mm	>10 mm
25-30%	10-15%	40-50%	<10%

COCO HUSK CHIPS (10mm)

EC (mS/cm) *(1:1.5 v/v Ratio)*	Washed	<1.00
	Buffered	<3.00
pH		5.5 - 6.5
Breakout volume (l/kg)		15 (+/-1)
Quantity per 40'HC container (MT)		23-24

PARTICLE SIZE DISTRIBUTION			
0-1 mm	1-5 mm	5-10 mm	>10 mm
25-30%	10-15%	40-50%	<10%

COCO HUSK CHIPS (7 mm)

EC (mS/cm) *(1:1.5 v/v Ratio)*	Washed	<1.00
	Buffered	<3.00
pH		5.5 - 6.5
Breakout volume (l/kg)		13 (+/-1)
Quantity per 40'HC container (MT)		23-24

PARTICLE SIZE DISTRIBUTION			
0-1 mm	1-5 mm	5-10 mm	>10 mm
<5%	30-35%	55-60%	<5%

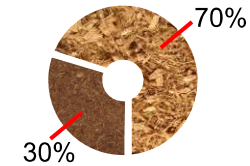
COCO HUSK CHIPS (20 mm)

EC (mS/cm) *(1:1.5 v/v Ratio)*	Washed	<1.00
	Buffered	<3.00
pH		5.5 - 6.5
Breakout volume (l/kg)		12 (+/-1)
Quantity per 40'HC container (MT)		22-23

PARTICLE SIZE DISTRIBUTION			
0-1 mm	1-5 mm	5-10 mm	>10 mm
<5%	10-20%	60-65%	10-15%

OPTIMA (30% Coco peat+70% Coco chips)

EC (mS/cm) *(1:1.5 v/v Ratio)*	Washed	<1.00
	Buffered	<3.00
pH		5.5 - 6.5
Breakout volume (l/kg)		12 (+/-1)
Quantity per 40'HC container (MT)		22-23



PARTICLE SIZE DISTRIBUTION			
0-1 mm	1-5 mm	5-10 mm	>10 mm
<5%	15-20%	20-30%	30-40%

BLUEBERRY KITS AND MIXES

It has been a trend that one of the most popular soft fruits, namely blueberries, are increasingly grown in substrates instead of soil. Other than the common advantages of growing in substrates instead of soil (such as prevention of soil-borne pests and diseases, control over the aeration, moisture, and nutrition for the plant), it is found that soil conditions in most blueberry growing regions are not ideal for the plant.

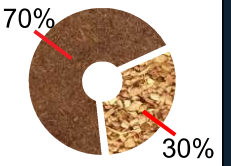
Most of the growers found an ideal substrate in coconut coir (a mixture of cocopeat and coconut husk chips) due to its ability to manage the draining and better root development.

Cocowide has come up with a range of kits and naked blocks for blueberry farming depending on whether the product goes directly to the farms of further processing by manufacturers of substrate mixes.

PRODUCTS FOR BLUEBERRIES

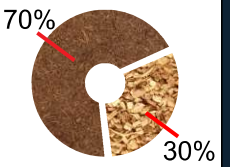
BERRY *PLUS* OPEN TOP BAGS

EC (mS/cm)	Washed	< 1.00
(1:1.5 v/v Ratio)	Buffered	< 3.00
pH		5.5 - 6.5
WHC* (l/kg)		6.0 -6.5
AFP** (%)		23 - 28
Plastic Bag Type	650 G (4 Yr-UV)	
	800 G (4 Yr-UV)	
Product		27
Volume (l)		40
Units per		8,400
40' HC Container		5,500



BERRY *PLUS* NAKED BLOCKS

EC (mS/cm)	Washed	< 1.00
(1:1.5 v/v Ratio)	Buffered	< 3.00
pH		5.5 - 6.5
WHC* (l/kg)		6.0 -6.5
AFP** (%)		23 - 28
Plastic Bag Type	650 G (4 Yr-UV)	
	800 G (4 Yr-UV)	
Product		27
Volume (l)		40
Units per		8,400
40' HC Container		5,500



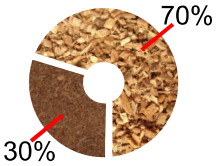
WHC*:Water Holding Capacity AFP**:Air Filled Porosity

FOR BLUEBERRIES

PRODUCTS FOR BLUEBERRIES

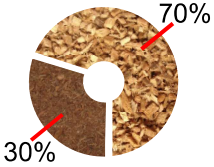
BERRY *OPTIMA* OPEN TOP BAGS

EC (mS/cm)	Washed	< 1.00
(1:1.5 v/v Ratio)	Buffered	< 3.00
pH		5.5 - 6.5
WHC* (l/kg)		4.5 - 5.0
AFP** (%)		30 - 40
Plastic Bag Type	650 G (4 Yr-UV)	
	800 G (4 Yr-UV)	
Product		27
Volume (l)		40
Units per 40' HC Container		7,200
		5,000



BERRY *OPTIMA* NAKED BLOCKS

EC (mS/cm)	Washed	< 1.00
(1:1.5 v/v Ratio)	Buffered	< 3.00
pH		4.5 - 5.0
WHC* (l/kg)		6.0 -6.5
AFP** (%)		30 - 40
Plastic Bag Type	650 G (4 Yr-UV)	
	800 G (4 Yr-UV)	
Product		27
Volume (l)		40
Units per 40' HC Container		8,000
		5,200



WHC*:Water Holding Capacity AFP**:Air Filled Porosity

FOR MEDICINAL CANNABIS

In most of the societies, various parts of the Cannabis plant have been using as a medicine (such as in Ayurveda) in traditional treatments for wide variety of ailments such as asthma, epilepsy, fatigue, glaucoma, muscle pains and rheumatism.

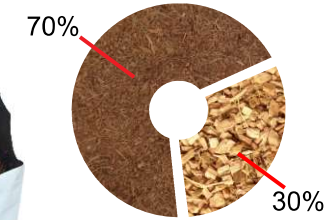
Coco peat, also known as coir, is a popular growing medium for cannabis for several reasons. It has several properties that make it suitable for this use: Excellent Water Holding Capacity: Coco peat has a high-water holding capacity, meaning it can retain a lot of water, which is beneficial for cannabis plants.

After studying carefully, the crop requirements and their growing conditions in different climatic regions, Cocowide specially designed and developed several types of products for the growing of medicinal cannabis, either indoor or outdoor depending on the requirement.

PRODUCTS FOR MEDICINAL CANNABIS

CANNA *PLUS* OPEN TOP BAGS

EC (mS/cm)	Washed	< 1.00
(1:1.5 v/v Ratio)	Buffered	< 0.50
pH		5.5 - 6.5
WHC* (l/kg)		6.0 - 6.5
AFP** (%)		23 - 28
Plastic Bag Type	300 G (1 Yr-UV)	
	400 G (2 Yr-UV)	
Block size (cm)		15 x 15 x 15
(L x W x H)		20 x 20 x 20
Units per		60,000
40' HC Container		28,000



CANNA *PLUS* NAKED BLOCKS

EC (mS/cm)	Washed	< 1.00
(1:1.5 v/v Ratio)	Buffered	< 0.50
pH		5.5 - 6.5
WHC* (l/kg)		6.0 - 6.5
AFP** (%)		23 - 28
Plastic Bag Type	300 G (1 Yr-UV)	
	400 G (2 Yr-UV)	
Block size (cm)		15 x 15 x 15
(L x W x H)		20 x 20 x 20
Units per		65,000
40' HC Container		30,000

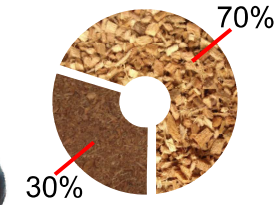
WHC*:Water Holding Capacity AFP**:Air Filled Porosity

FOR MEDICINAL CANNABIS

PRODUCTS FOR MEDICINAL CANNABIS

CANNA *MAX* OPEN TOP BAGS

EC (mS/cm)	Washed	< 1.00
(1:1.5 v/v Ratio)	Buffered	< 0.50
pH		5.5 - 6.5
WHC* (l/kg)		4.5 - 5.0
AFP** (%)		30 - 40
Plastic Bag Type	300 G (1 Yr-UV)	
	400 G (2 Yr-UV)	
Block size (cm)		15 x 15 x 15
(L x W x H)		20 x 20 x 20
Units per		58,000
40' HC Container		25,000



CANNA *MAX* NAKED BLOCKS

EC (mS/cm)	Washed	< 1.00
(1:1.5 v/v Ratio)	Buffered	< 0.50
pH		5.5 - 6.5
WHC* (l/kg)		4.5 - 5.0
AFP** (%)		30 - 40
Plastic Bag Type	300 G (1 Yr-UV)	
	400 G (2 Yr-UV)	
Block size (cm)		15 x 15 x 15
(L x W x H)		20 x 20 x 20
Units per		58,000
40' HC Container		25,000

WHC:Water Holding Capacity AFP**:Air Filled Porosity*

FOR PLANT PROPERGATION

Compared to more traditional options such as seed raising mix, coir has several important advantages when used in propagation. It holds water well without becoming saturated, maintaining a good balance of water and air in a fine crumbly texture. This even moisture provides a good environment for seeds to germinate. It also gives cuttings' developing roots the moisture they need but with a much lower risk of rot.

Coir has natural anti-fungal qualities that suppress the growth of mold and mildew, giving an extra level of protection in the early stages of propagation when the plants are at their most vulnerable. Coir is also fairly neutral on the pH scale, with a slightly acidic measurement of 5.5 to 6 pH, which is just about ideal for many plants.

Cocowide manufactures and exports a range of different coco products which could be directly used in propagation or as the way customer requires.

PRODUCTS FOR PROPAGATION

COCOWIDE GROW BLOCKS *(with 01 year UV protected plastics)*

EC (mS/cm)	Washed	<0.50		
1:1.5 v/v Ratio	Buffered	<0.30		
pH	5.5 - 6.5			
Size after expansion (cm) (L x W x H)	8 x 8 x 6	10 x 10 x 7	15 x 10 x 6	10 x 10 x 10
Unit weight (g)	50 x 55	80 x 85	85 - 90	100
Pieces per carton	300	250	160	150
Pieces per 40'HC container	396,000	330,000	250,000	216,000

COCOWIDE GROW PLUGS (PELLETS)

EC (mS/cm)	Washed	<0.50
1:1.5 v/v Ratio	Buffered	<0.30
pH	5.5 - 6.5	
Dry Size (cm)	3.0 (diameter)	3.5 (diameter)
Unit weight (g)	50-55	80-85
Pieces per carton	1,536	1,155
Pieces per 40'HC container	5,068,800	3,811,500

WHC : Water Holding Capacity AFP** : Air Filled Porosity*

PRODUCTS FOR PROPAGATION

COCOWIDE GROW CUBES

Grow cubes have advantages of high germination rate, water retention, and enough oxygen to give the plant roots room to breathe. These cubes are easy to use and are also lightweight and easy to transport

EC (mS/cm)	Washed	<0.50		
1:1.5 v/v Ratio	Buffered	<0.30		
pH	5.5 - 6.5			
Size after				
expansion (cm)	4 x 4 x 4	8 x 8 x 6	10 x 10 x 7	10 x 10 x 10
(L x W x H)				
Unit weight (g)	8 - 10	45 x 50	65 - 70	100
Pieces per carton	1000	300	250	150
Pieces per 40'HC				
container	1,320,000	396,000	330,000	216,000

COCOWIDE GROW DISCS

EC (mS/cm)	Washed	<0.50		
1:1.5 v/v Ratio	Buffered	<0.30		
pH	5.5 - 6.5			
Dry Size (cm)	3.0 (diameter)	4.0 (diameter)	6.0 (diameter)	8.0 (diameter)
Volume after expansion (cc)	40	100	300	900
Unit weight (g)	4	10	20	60
Pieces per carton	4,000	1,600	800	300
Pieces per 40'HC container	5,280,000	2,112,000	1,32,800	396,000

WHC:Water Holding Capacity AFP**: Air Filled Porosity*

Quality is Priceless

For COCOWIDE, the quality of our products is vital for achieving complete satisfaction of our valued customers, which in turn, decides the sustainability of our business.

We do thorough internal quality assurance in receiving materials, in-process and final products and provide the customers with the final quality certificate for all consignments shipped.

Whenever independent testing is requited for weed, seeds and other extraneous materials we use recognized government institutions or testing laboratories recommended by our customers.

RESEARCH &
DEVELOPMENT

FIELD TRIALS

BACKWARD
INTEGRATION

CONTINUOUS
PRODUCT
DEVELOPMENT

RESEARCH AND DEVELOPMENT

The growth in the usages of substrates as a substitute for soil and the role coconut-based substrates play in this global trend make it imperative for producers like COCOWIDE to look for the best solutions we could offer in terms of quality and productivity.

While using the mixes and blends which have already become the standard for the hydroponic farming, we are continuing with the drive to enhance the efficacy of existing system under varying growing conditions and finding new mixes and blends for specific climatic and growing conditions.

With this objective in mind, COCOWIDE has established a MOU with the Faculty of Agriculture, University of Peradeniya and facilitated the first project in which efficacy of various mixes of coir/coco substrates were studied under different fertigating frequencies.

The aim is to establish the ideal conditions for standard mixes and formulate new mixes which could be more competitive and productive.

COCOWIDE

EXCELLING IN GROWING MEDIA

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