



JBC
International

PROTECTING NATURE
NATURALLY

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ABOUT US

JBC INTERNATIONAL IS A LEADING MANUFACTURER AND EXPORTER OF SUSTAINABLE COIR-BASED GEOSYNTHETIC AND EROSION CONTROL SOLUTIONS. BASED IN KERALA, INDIA.

WE SPECIALISE IN NATURAL PRODUCTS FOR ROAD CONSTRUCTION, SLOPE STABILISATION, RIVERBANK PROTECTION, EROSION CONTROL, AND ENVIRONMENTAL RESTORATION. WITH A STRONG COMMITMENT TO QUALITY, INNOVATION, AND SUSTAINABILITY, WE PROVIDE CUSTOMIZED SOLUTIONS THAT MEET INTERNATIONAL STANDARDS WHILE SUPPORTING ECO-FRIENDLY INFRASTRUCTURE DEVELOPMENT ACROSS THE GLOBE.



Coir Geotextile



400gsm



700gsm



900gsm

Coir Geotextile is a biodegradable erosion control mat made from natural coir fibers. It is widely used for slope stabilization, soil erosion control, riverbank protection, and vegetation establishment in environmentally sensitive areas. Coir Geotextiles provide excellent soil reinforcement while promoting natural plant growth and gradual biodegradation.

Available in three varieties:

- 400 GSM – Light-duty erosion control applications
- 700 GSM – Medium-duty erosion control applications
- 900 GSM – Heavy-duty erosion control and slope stabilization applications



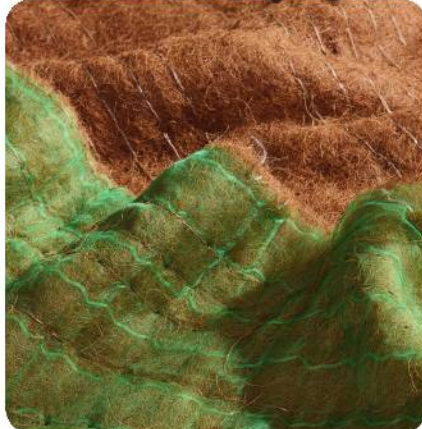
COIR WOVEN GEOTEXTILES

Product	Property	Test Method	Value
400 GSM	Weight	-	400 gsm
	Tensile Strength (MD)	EN ISO 10319	6.87 kN/m
	Tensile Strength (CMD)	EN ISO 10319	4.89 kN/m
700 GSM	Weight	-	700 gsm
	Tensile Strength (MD)	EN ISO 10319	14.63 kN/m
	Tensile Strength (CMD)	EN ISO 10319	9.66 kN/m
900 GSM	Weight	-	900 gsm
	Tensile Strength (MD)	EN ISO 10319	21.05 kN/m
	Tensile Strength (CMD)	EN ISO 10319	11.61 kN/m

Coir Stitched Blankets



PP NETTING



HDPE NETTING



JUTE NETTING

Coir Stitched Blankets are biodegradable erosion control blankets manufactured from high-quality coir fibers stitched together with natural or polypropylene thread. They are designed to protect exposed soil surfaces, prevent erosion, retain moisture, and support rapid vegetation growth on slopes, embankments, riverbanks, road construction projects, and landscaping applications.

Available in multiple specifications to suit different erosion control, revegetation, and slope stabilisation requirements.



COIR STITCHED BLANKETS (PP / JUTE / HDPE)

Type	Property	Test Method	Value
PP Net (Black PP Top & Bottom)	Tensile Strength (MD)	IS 16635/ISO 10319	2.94kN/m
	Tensile Strength (CMD)	IS 16635/ISO 10319	2.17 kN/m
Jute Net	Tensile Strength (MD)	IS 16635/ISO 10319	2.61 kN/m
	Tensile Strength (CMD)	IS 16635/ISO 10319	1.18 kN/m
HDPE + PP (One Side HDPE)	Tensile Strength (MD)	IS 16635/ISO 10319	6.16 kN/m
	Tensile Strength (CMD)	IS 16635/ISO 10319	2.97 kN/m
HDPE + HDPE (Both Side HDPE)	Tensile Strength (MD)	IS 16635/ISO 10319	8.01 kN/m
	Tensile Strength (CMD)	IS 16635/ISO 10319	5.05 kN/m

APPLICATIONS



APPLICATIONS



Coir Sandlock



Property	Test Method	Value
Product	-	Woven coir
Weight	-	1400 gsm
Height of	-	10 cm / 15
Expanded	-	1.5 m × 6 m
Cell / Seam	-	40 cm × 40
Tensile	ASTM D	≥ 6 kN/m

Sandlock is a biodegradable erosion control and ground stabilisation solution featuring a honeycomb structure that confines soil and aggregate, reducing displacement, improving load distribution, and enhancing slope stability.

In road construction, it is used for subgrade stabilisation, embankment protection, and shoulder reinforcement, helping improve load-bearing capacity, reduce rutting, and extend road life, especially on weak soils.

It is widely used in slope protection, riverbank stabilisation, road construction and land restoration applications while allowing natural drainage and promoting long-term environmental sustainability.



Coir Logs



Property	Specification
Material (Core)	Mattress coir fibre
Outer Net	400 N, 3-ply coir twine net with 5 cm
Diameter	30 cm / 40 cm / 50 cm (customizable)
Length	2m – 6 m

Coir Logs are cylindrical erosion control products made from natural coir fibers tightly bound and encased in coir netting. They are designed to stabilise riverbanks, canal edges, slopes, and soil embankments by reducing water velocity, trapping sediments, and encouraging natural vegetation growth.

In road construction, coir logs are widely used for slope protection, drainage channel stabilisation, and roadside embankment reinforcement. They help prevent soil erosion, reduce washouts during heavy rainfall, and improve long-term stability of roadside structures, especially in weak or loose soil conditions.

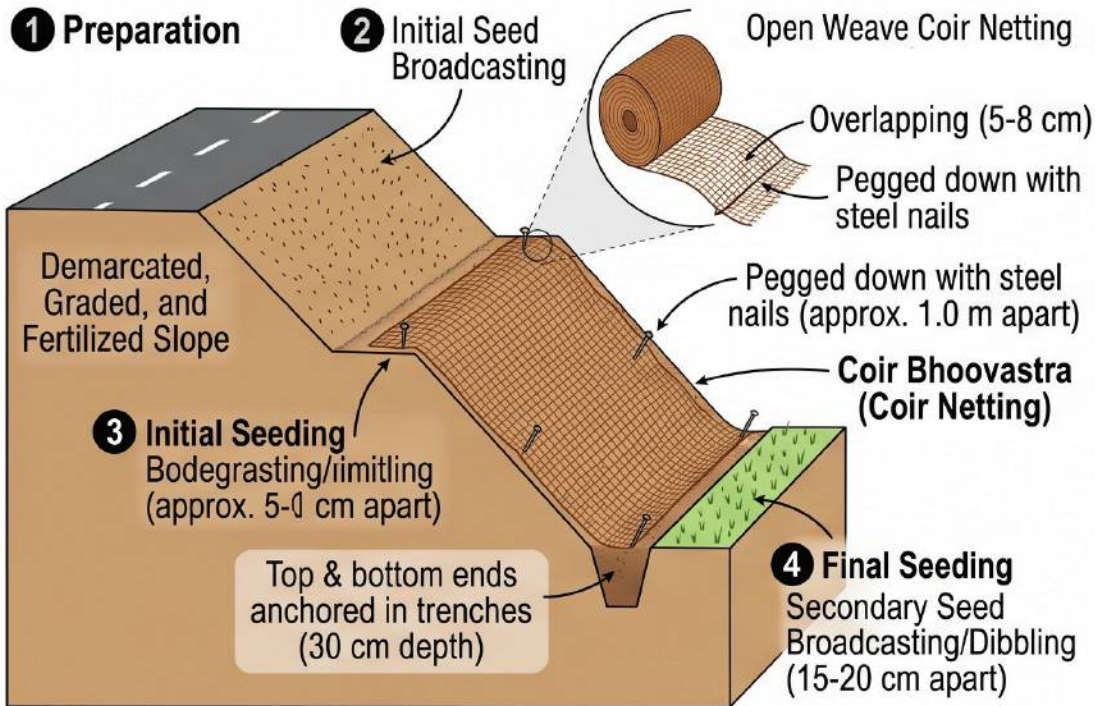
Coir logs can be manufactured in continuous lengths of up to 6 meters and are fully customizable in diameter, density, and specifications based on project requirements, making them highly flexible for different engineering and environmental applications.



COIR APPLICATIONS FOR ROADSIDE EROSION CONTROL

(Based on IRC:56-2011)

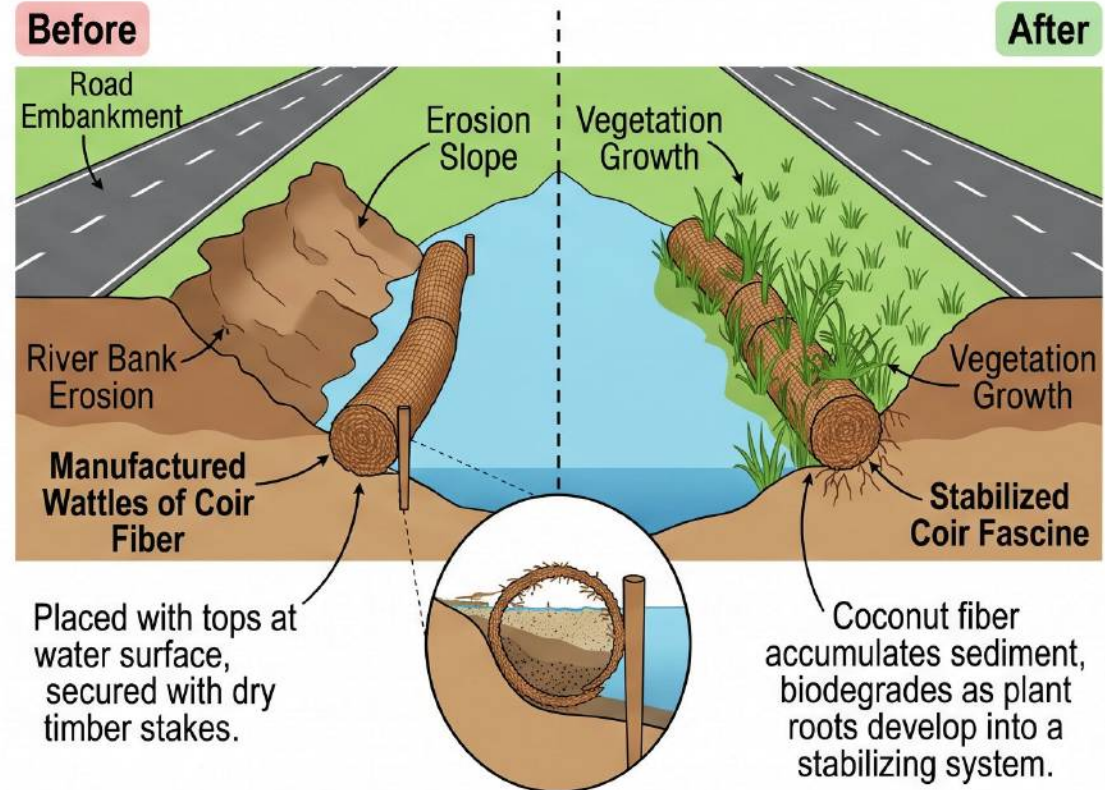
METHOD A: COIR NETTING (BHOOVASTRA) FOR SLOPE STABILIZATION



Mechanism of Action: Breaks up runoff, dissipates kinetic energy of surface flow, absorbs water and solar radiation, promotes rapid vegetation growth.

Benefits: Biodegradable (Life 2-3 years), adds nutrients to soil, environmentally friendly.

METHOD B: COIR FASCINES FOR STREAM BANK & ROADSIDE WATERBODY PROTECTION



Bioengineering Application: Combines live plants with organic coir material to provide structural strength and habitat.



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