



**GAYATRI POLYMERS & GEOSYNTHETICS**  
**AN ISO 9001:2008 CERTIFIED COMPANY**  
**SPECIFICATIONS OF WOVEN JUTE GEOTEXTILE**

Sl. No	Nomenclature	Woven 25 kN/m ( Grey)	Woven 25 kN/m (Grey)	Woven 21 KN/ m (bituminised)
1	Construction <sup>(x)</sup>	Twill Weave (2/1)	Twill Weave (2/1)	Twill Weave (2/1)
2	Corrected mass ( gsm)	760 ±5%	760 ±5%	1200 ±5%
3	Recommended roll length(m)	100	100	25
4	Width (cm)	200 ±1%	200±1%	200±1%
5	Ends / dm (indicative)	102 (+4,- 2)	102(+4,- 2)	102 (+4,- 2)
6	Picks/dm (indicative)	39(+2,-1)	41(+2,-1)	39(+2,-1)
7	Thickness, (mm) at 2 kPa	1.85±10%	1.85±10%	2.0 ±10%
8	Tensile Strength (KN/m) MD CD	25(+10%,-5%) 25(+10%,-5%)	25(+10%,-5%) 25(+10%,-5%)	21(+10%,-5%) 21(+10%,-5%)
9	Elongation at break (%) min MD CD	9±10% 9±10%	9±10% 9±10%	8±10% 8±10%
10	Puncture Resistance (KN) min	0.500±10%	0.500±10%	0.600±10%
11	Burst Strength (Kpa) min	3500±10%	3500±10%	4000±10%
12	Permittivity at 50mm constant head ( per sec )	0.45±10%	0.45±10%	0.20±10%
13	A O S ( micron ) O <sub>95</sub>	150-400	150-400	150-250



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**SPECIFICATIONS OF NONWOVEN AND OPEN WEAVE  
JUTE GEOTEXTILES**

**NON WOVEN JUTE GEOTEXTILE**

**OPEN WEAVE JUTE GEOTEXTILE**

SL. No.	Nomenclature	Non-Woven 1000 gsm
1	Corrected mass ( gsm)	1000±10%
2	Recommended Roll length (m)	50
3	Width min(cm)	150 +2%
4	Thickness, (mm) at 2 kPa	8 ±10%
5	Tensile Strength (KN/m) MD x CD	6 x 7
6	Elongation at break (%) MD x CD	20 x 25
7	Permittivity at 50mm constant head ( per sec )	3.4 x 10 <sup>-4</sup>

SL. No.	Nomenclature	Open mesh Woven 500 gsm
1	Corrected mass ( gsm)	500 ±10%
2	Construction	Plain Weave (1/1)
	Thickness, (mm) at 2 kPa	5±10%
3	Open area as percent of total	50
4	Recommended cut length (m) to be packed in a bale	55
5	Width (cm)	122 +3%
6	Ends x Picks/ dm	6.5± x 4.5± 1
7	Tensile Strength ( kN/m), MD x CD	10 x 7.5



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**TECHNICAL PARAMETERS JUTE PRODUCTS**

**JUTE WOVEN GEOTEXTILES FOR EROSION CONTROL AND SOIL STABILISATION APPLICATIONS**

Products	Weight (gm/m <sup>2</sup> ) MR (-) 16%	Thickness (mm)	Width (m)	Tensile Strength Warp kN/m	Weft kN/m	Elongation (%) Warp	Weft	Mesh size mm
GPJ-290	290	2-3	1.22	5	5	11	11	12 X 12
GPJ-760	760	2.0	0.76	18	18	10	10	12 X 12
GPJ-500	500	3-4	1.22	10	7.9	11	15	12 X 12
GPJ-750	750	5-6	1.22	10	10	11	12	12 X 12
GPJ-1000	1000	5-6	1.22	12	12	11	12	12 X 12

UNTREATED JUTE GEOTEXTILES REPRESENTED ABOVE HAVE A LIFE EXPECTANCY OF 4 TO 12 MONTHS DEPENDING UPON SOIL AND OTHER ENVIRONMENT CONDITIONS.

**JUTE NON WOVEN GEOTEXTILES FOR MULCHING**

Products	Weight (gm/m <sup>2</sup> )	Thickness (mm)	Width (m)	Length (m)	Loading in a 40 ft HC container
GJNW-750	750	6	1.83	25	220 rolls
GJNW-1200	1200	9	1.83	25	125 rolls

**JUTE NON WOVEN WEED CONTROL MAT AND MULCH MAT**

Products	Weight (gm/m <sup>2</sup> )	Thickness (mm)	Length Width	Loading in a 40 ft HC container
WM 37	750	6	37 cm	85000 pcs
WM-58	750	6	58 cm	32000 pcs

All Jute Geotextiles are subject to a tolerance of +/-25% in all its properties.

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JUTE GEOTEXTILES INSTALLATION



*GAYATRI JUTE GEOTEXTILES  
for Embankment*



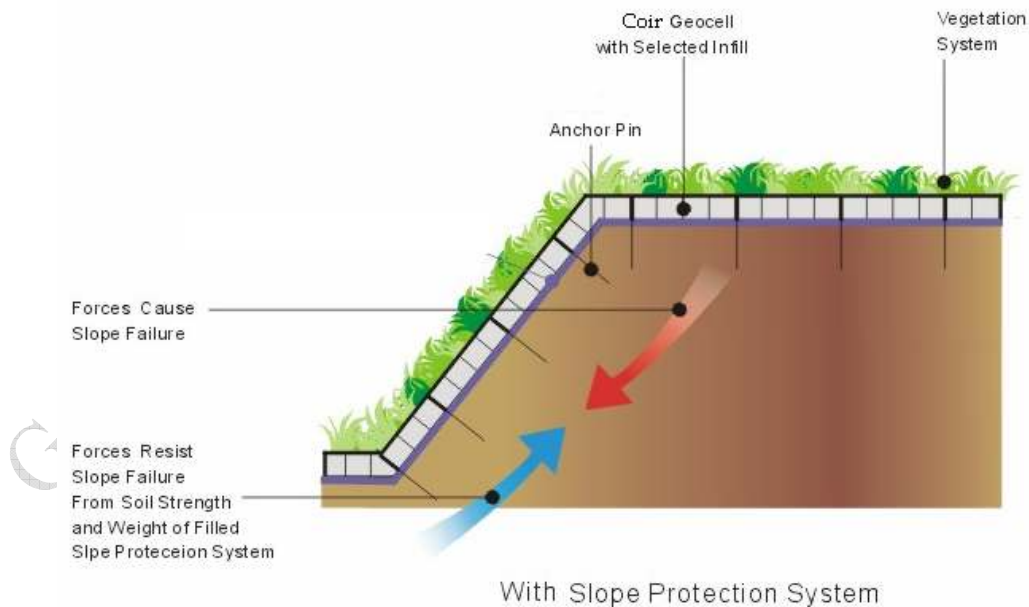
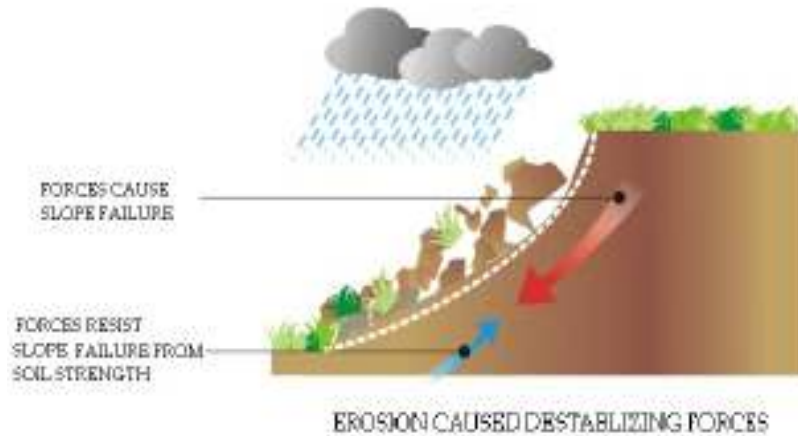
YEAR AFTER THE CONSTRUCTION

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## EROSION CONTROL OF STEEP SLOPES

### USING GAYATRIGEO COIR GEOCELL





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<u><b>APPLICATION AREAS</b></u>	<u><b>COIR GEOCELL</b></u>
<ul style="list-style-type: none"><li>• STEEP SLOPE PROTECTION</li><li>• OB DUMP STABILISATION</li><li>• VEGETATION OVER SLOPES WITH POOR QUALITY SOIL</li><li>• EROSION CONTROL OF CANAL BEDS AND CANAL BANKS</li><li>• TEMPORARY ROAD FOR CARRYING HEAVY LOADS</li></ul>	 <p><b>Specifications:</b> Height 0.15 m, Cell nominal width 40 cm. Collapsed length of panel = 5m. Area of installation of each panel = 4 m X 3.6 m = 14.4 sqm</p>

### **GAYATRIGEO COIR GEOCELL**

GayatriGeo Coir Geocell is a natural cellular confinement system made from coir yarn. Coir Geocell integrates a unique cell pattern, which by way of the coarseness of the product, increases the frictional interlock between the surface of the cell and infill material such as soil. When filled with good quality soil, Coir Geocell provides the ideal planting medium. When Coir Geocell decomposes, organic matter from the coir is released into the soil encouraging growth of ground vegetation.

### **GAYATRIGEO COIR GEOCELL INSTALLATION GUIDE**

1. Drive a row of anchor stakes at 30 cm intervals, along the upper edge of the proposed slope protection area at least 2m from the edge of the slope.
2. Partially expand the Coir Geocell section and place each end cell over its corresponding edge stake.
3. Expand the Coir Geocell section down the slope to the section's specified length.
4. Drive anchors in each cell on the flat area to make it strong.



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5. Fill the geocells in the flat area at the top of the slope fully with soil, stones gravel etc and compact.
6. Tie down slope panels at the bottom of the top panels with coir string / yarn securely. Place anchors in all the top cells of the panel.
7. Expand the panel downwards or sideways as required. In case of trees or shrubs which are well entrenched, cut the geocells and move around them.
8. Fill sections with soil mixed with seeds of local vegetation or grass to half level for steep slopes and full level for slopes of 1v:3 h.
9. Secure Coir Geocell infill with hardwood stakes or bamboo stakes at minimum 1 m centres.
10. Water the installation as per site conditions.

Optional:

- Rain forecast: Lay a layer of light weight coir or jute erosion control blanket in case immediate heavy rainfall is expected soon after construction.
- Very Hot or dry weather: Mix coir fibre 250 gms per sqm with soil and seeds and fill as in step no 8.