Jute Agrotextiles

A variety of Jute fabrics were developed for the purpose of specific applications as Agrotextiles. Some important application areas and products are given below.

- Jute Agrotextiles Application Areas: Soil Conservation, Mulching, Weed Management, Sleeves for Sapling growth, Afforestation in semi-arid zone
- List of Jute Agrotextile Products: Canvas Cloth, Tarpaulins, Non-woven, Baler Twines, Sapling bags, Scrim cloth.

Favourable Properties of JAT(Jute Agrotextiles)

- High water holding capacity as compared to synthetic materials.
- Jute coalesces with soil after degradation and increases its permeability and supplementing its nutrient level.
- Fosters faster growth of vegetation even in arid and semi-arid zones.
- Suppress weed-growth effectively without use of chemical weedicides.
- Jute sleeves are porous, ensures better aeration and can be directly planted within the soil.
- Packed agro products remain fresh.

1. Application of JAT (JUTE AGROTEXTILES)

A. Application of Jute Agrotextile in Soil Conservation & Agromulching

Name of the Project	Field trial with Jute Agrotextile in Mulch on seed bed of Tobacco nursery at	
and location	Hunsur, Karnatak	
Objective	Comparative performance of JAT with straw and bare plot.	
	1. Weight	: 250 GSM
Properties of Jute	2. Tensile strength(kN/m) [MD x CD]	: 10 x 7.5
Agrotextile used	3. Water Absorption capacity (%)	: 350
	4. Type of JAT	: Open Weave
Results	Number of transplantable seedlings and survival rate increased by 5%.	





No. of seedlings per sq. meter, Weight of plants (g), Height of plant (cm), Survival rate (%) was increased in case of JAT application.

B. Application of Jute Agrotextile in Weed Management

Name of the Project and location	Field trial with Jute Agrotextile in Tea Estate for Weed Management at Borbetta Tea Estate, Assam	
Objective	To study the effectiveness of Jute Agrotextile in weed suppression	
	1. Weight	: 500 GSM / 750 GSM
Properties of Jute	2. Tensile strength(kN/m) [MD x CD]	:5 x 6 / 7 x 8
Agrotextile used	3. Water Absorption capacity (%)	: 650 / 700
	4. Type of JAT	: Nonwoven
Results	60% reduction of weeds.	





Emergence of weeds in tea plantation

Suppression of weeds in tea plantation with JAT

C. Application of Jute Agrotextile in Seedlings growth of saplings

Name of the Project and	Study of the efficacy of Jute sleeves in raising of seedlings compared		
location	to conventional poly-sleeves at Shimphere Nursery, Sikkim		
Objective	To study the comparative advantages in using Jute sleeves in place of poly sleeves for holding soil bulbs of seedlings.		
Properties of Jute Agrotextile used	1. Fabric Used : 272 GSM Hessian 2. Size of Sleeve : 23 cm x 15 cm 3. Type of JAT : Woven		
Results	Excellent performance in growth and survival		





Sapling in conventional poly-sleeves

Jute Sleeve for growth of sapling

D. Afforestation in semi-arid zone

Name of the Project and location	Study of the effectiveness of Jute Agrotextile in plant growth in a semi-arid zone at Hijli&Porapara, Midnapore in West Bengal		
Objective	Quantification of difference in growth of plants with and without Jute Agrotextile in a semi-arid zone.		
Properties of Jute Agrotextile used	 Fabric Used Size of Sleeve Weight of Sleeve Type of JAT 	: 300 GSM : 23 cm x 15 cm : 26 gm : Open weave	
Results	Growth of the trees in the treated area significantly higher. No sign of erosion		





Growth of plants without JAT

Growth of plants with JAT

Why JCI

- CPSE (Central Public Sector Enterprise) one Government of India Organization, is trustworthy in commitment of deliveries, quality, correct pricing.
- Strong product specific vendor base across its PAN India network.
- Registered in GeM.
- Scope of PAN India JDP operation through opening of marketing offices in different states.
- Scope of varied range of R&D on products and handicraft items to bring forward new designs, styles in collaboration with various Govt. / Non Govt. enterprises , artisan clusters.
- Manufacturing of JDP items through empanelled MSMEs, WSHGs, Jute Mills and thus creating scope of generating livelihoods of rural artisans and improvement in Jute Economy.
- Increasing raw jute demand and thus jute cultivation also.