



Geotextiles (for Road Construction)
Manufacturing Plant.
Production of Geotextiles.
Opportunities in
Technical Textiles Sector

Introduction

A geotextile is any permeable textile material used with foundation, soil, rock, earth, etc. that is an integral part of a constructed, structure or system.

Geotextiles were used in roadway construction in the days of the Pharaohs to stabilize roadways and their edges. These early geotextiles were made of natural fibers, fabrics or vegetation mixed with soil to improve road quality, particularly when roads were made on unstable soil.



Geotextiles are large sheets that save our earth soil in rainy days & binds strongly. It is mostly used for filtration and separation in the road constructions. It protects from migration of small gravels & sand aggregates. Geotextiles are thin & strong membrane fabric which is used to reinforce soil & prevent from damage.

It improve & stability and decreases the process of wind & water erosion. It helps to prevent the erosion of soil but allows the water to drain off. A geotextiles made from synthetic or natural fibers associated with soil thin pieces. It improves soil characteristics such as Friction or movement restraint, Support of loads and Changes in bearing failure plane. When a geotextile is between two different soil materials, the function of separation plays an important role. The geotextile will separate dissimilar materials so the required soil characteristics can be obtained. The main purpose of this type of geotextile is that when water gets into the soil strata, the geotextile will prevent soils from mixing.

For example, in road construction, you might want to keep fine sub-grade aggregate separate from the coarse aggregates of the bottom layer. The drainage characteristics will be kept intact, preventing the fine aggregate from filling the voids between the larger aggregate. These types of geotextiles have a special thickness and permeability characteristics to prevent soil contamination and allow water to flow through without damaging the strength and structural capacity of the road.



Uses

- Unpaved and paved roads in airport runways
- Landfills and stone base courses
- Sidewalks and sand drainage layers
- Parking lots and curb areas
- Green areas and recreational facilities
- Retaining wall structures
- Duct banks and pipe trenches

Geotextiles are commonly used to improve soils over which roads, embankments, pipelines, and earth retaining structures are built. There are several types of geotextile material, including open-mesh, warp-knitted, and closed fabric or non-woven textiles. Different geotextile materials are specified for various characteristics, such as separation, filtration, drainage, reinforcement, sealing, and protection.

Market Outlook

Driving the demand for geotextiles in the country. Increasing level of awareness among the people in India coupled with growing government support for the development of the country's geotextiles industry is driving the India geotextiles market. Additionally stringent government policies & regulations on the use of geotextiles and increasing investments in road construction projects are some of the other major factors driving the geotextiles market in the country. High penetration of unorganized manufacturing units or companies in India as well as lack of significant technical expertise in the country pose a threat to the growth of geotextiles market in India. Market in India is expected to witness strong growth over the next nine years owing to increasing awareness among the people regarding the benefits for geotextiles,

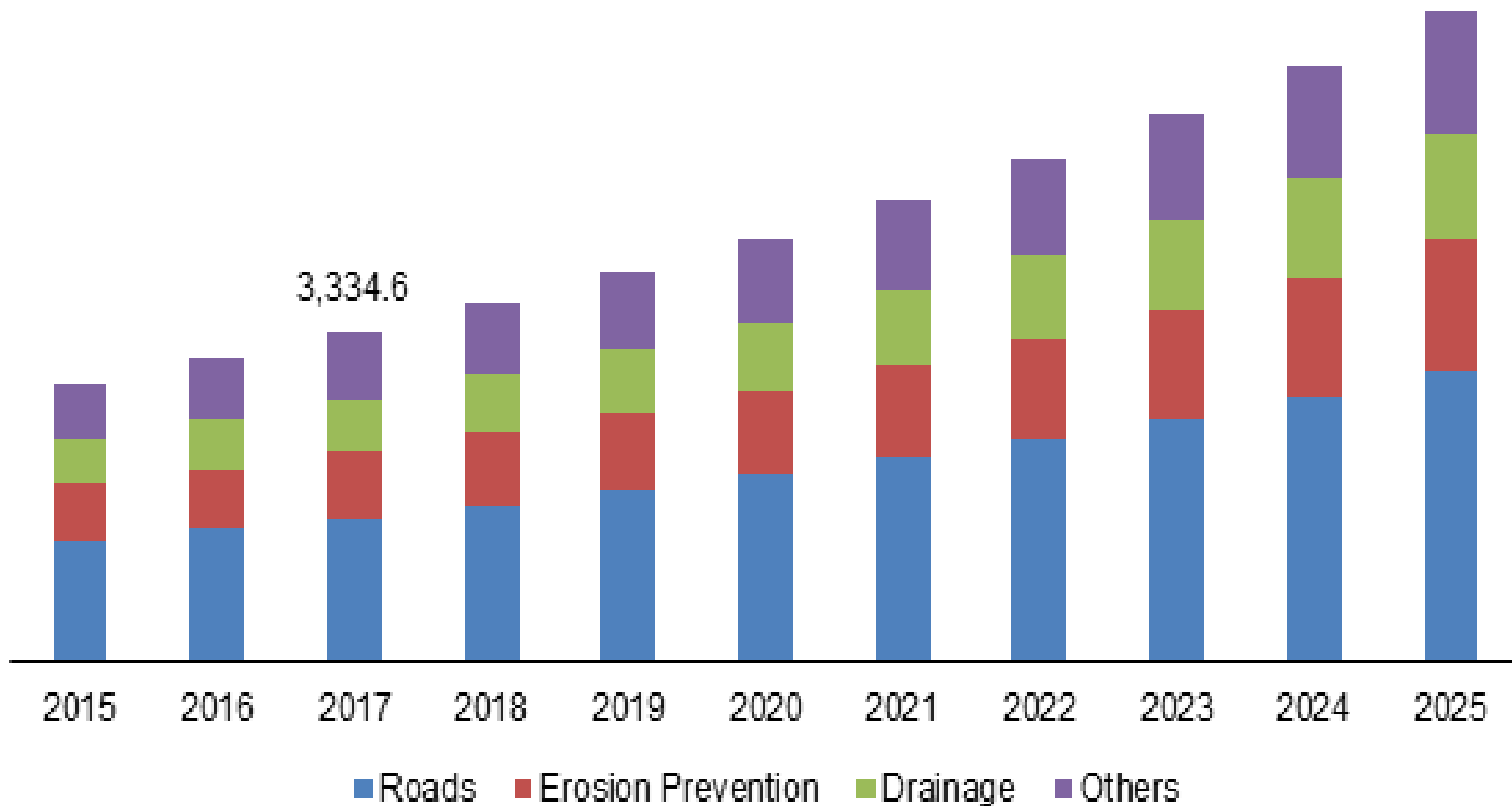
which is has resulted in increased application in construction and transport projects in place of concrete and asphalt. Significant government support on development of geotextiles market in India and strong growth opportunities is also propelling the demand for geotextiles in the country. Additionally increasing infrastructure projects, increasing urbanization along with growing population are some the factors fueling the geotextiles market in the country. Global demand for geosynthetics is expected to increase dramatically over the next few years with geotextiles seeing the greatest improvement. India as one of the emerging markets with China and Russia, and with large-scale infrastructures in the pipeline, is expected to see one of the greatest developments in this field. The international symposium on geotextiles in India predicted the increased use of geotextiles could be in the region of 15% a year. Yet, within India, there are still specifications to be approved and awareness to be raised before geotextile products can meet their full predicted potential.

In India 100% Foreign Direct Investment (FDI) in the construction sector has helped the construction industry to grow, and it is expected to grow at a high rate in tandem with the increasing population during the forecast period. Other projects like "Housing for All by 2022" and smart cities taken up by the government, further fuel the infrastructure activities in India. In Indonesia, the government had planned to invest USD 22 billion in 2016 and about USD 450 billion till 2020.

Geotextiles have gained immense popularity in the industry on account of their functional and performance advantage over other materials. Increasing demand for these products owing to growing population, rising industrialization, and rapid urbanization have amplified the growth in the emerging markets, resulting in a marked increase in the adoption of geotextile.

Geotextiles Market size was over USD 4,195 million in 2016 and industry expects consumption at over 9,045 million square meters by 2024. These products provide superior tensile strength and hydro-filtration properties which enables filtration of particles and draining water coupled with soil enforcement, favoring the industry growth. Woven products reduce the need for expensive soil remediation steps owing to their ability to provide stabilization during construction of embankments over soft soils and steepened slopes. These products improve longevity, performance of the structure and effectively reduce environmental impact which is likely to fuel the product demand. The growing usage of geotextiles in the construction industry, increasing usage of geotextiles in mining activities, and stringent regulatory framework for environmental protection. Susceptibility of geotextiles to blockage is expected to hinder the growth of the market.

Global Geotextiles Market Size, By Application, 2015-2025 (Million Square Meters)



Rising awareness about water conservation in the manufacturing sector is likely to act as an opportunity in the future. Concrete geotextiles are flexible, textile-like polymer fabrics of controlled permeability which are widely used in the construction of roads, drains, and harbor works breakwaters and for land reclamation and numerous other civil engineering purposes. Nonwoven geotextiles are widely used in ditches, around pipes, underneath drains, or in other areas dealing with high levels of subsurface drainage or site runoff. The global infrastructure investment has largely dominated by two sectors electricity and roads.

The government of the following the real benefits of using geotextiles in terms of road lifespan, which could be increased to over 20 years.



Key Players

Garware Wall Ropes Ltd, TechFab India Industries Ltd, Maccaferri Environmental Solutions Pvt. Ltd, Terram Geosynthetics Pvt. Ltd, Hrishikesh Industrial Fabrics Pvt. Ltd, Jeevan Group, Hi-Tech Geosynthetics Pvt. Ltd. SKAPS Industries, TYPAR (Polymer Group, Inc.), Fibertex Nonwovens A/S, Low & Bona, Koninklijke Ten Cate bv, Maccaferri, GSE Environmental, NAUE GmbH & Co. KG, Propex Operating Company LLC,



Machinery Photographs



Bale Opener



Vibrating Hopper



WEIGHING BRIDGE



FEEDER

Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existin g	Propose d	Total	Particulars	Existin g	Propose d	Total
Land & Site Development Exp.	0.00	100.00	100.00	Capital	0.00	192.79	192.79
Buildings	0.00	148.00	148.00	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	339.14	339.14	Capital	0.00	0.00	0.00
Motor Vehicles	0.00	15.00	15.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	56.00	56.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	20.00	20.00	Internal Cash			
Franchise & Other				Accruals	0.00	0.00	0.00
Deposits	0.00	0.00	0.00	Long/Medium Term			
Preliminary& Pre-operative Exp	0.00	5.00	5.00	Borrowings	0.00	578.37	578.37
Provision for				Debentures /			
Contingencies	0.00	32.00	32.00	Bonds	0.00	0.00	0.00
Margin Money -				Unsecured			
Working Capital	0.00	56.02	56.02	Loans/Deposits	0.00	0.00	0.00
TOTAL	0.00	771.16	771.16	TOTAL	0.00	771.16	771.16

Project at a Glance

Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/Book Value
	EPS	CEPS	Per Share		Per Share	Per Share				No.of Times	
	`	`	`	`	`	%	`	%	`	s	%
1-2	5.33	9.48	15.33	24.00	0.00	100.00	5.33	0.00	5.33	1.00	0.00
2-3	8.28	11.88	23.62	18.00	0.00	100.00	8.28	0.00	8.28	1.00	0.00
3-4	11.20	14.31	34.81	12.00	0.00	100.00	11.20	0.00	11.20	1.00	0.00
4-5	14.02	16.72	48.83	6.00	0.00	100.00	14.02	0.00	14.02	1.00	0.00
5-6	16.71	19.07	65.54	0.00	0.00	100.00	16.71	0.00	16.71	1.00	0.00

Project at a Glance

Year	D. S. C. R.			Debt / Equity - Deposits Debt	Equity as-Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contribution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%		%		
Initial				3.00	3.00									
1-2	1.37	1.37		1.57	1.57	2.38		13.76%	7.11%	5.19%	742.99	37.52%	2.02	1.02
2-3	1.68	1.52		0.76	0.76	1.37		15.84%	10.37%	6.91%	846.21	36.63%	2.17	1.31
3-4	2.05	1.68	2.05	0.34	0.34	0.81		17.24%	12.66%	8.18%	966.60	36.61%	2.19	1.65
4-5	2.50	1.86		0.12	0.12	0.50		18.18%	14.29%	9.10%	1087.00	36.60%	2.12	2.04
5-6	3.03	2.05		0.00	0.00	0.31		18.79%	15.43%	9.76%	1207.40	36.59%	2.01	3.18

Project at a Glance

BEP	
BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	53.78%
Total BEP (% of Installed Capacity)	57.54%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	27.73%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	7.856

Major Queries/Questions Answered in the Report?

- 1. What is Geotextiles for Road Construction Manufacturing industry ?**
- 2. How has the Geotextiles for Road Construction Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Geotextiles for Road Construction Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up Geotextiles for Road Construction Manufacturing plant ?**

- 5. What is the structure of the Geotextiles for Road Construction Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Geotextiles for Road Construction Manufacturing Business?**
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- 8. What are the machinery and equipment requirements for setting up Geotextiles for Road Construction Manufacturing plant ?**

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- 10. What are the requirements of raw material for setting up Geotextiles for Road Construction Manufacturing plant ?**
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Reasons for Buying our Report:

- **This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product**
- **This report provides vital information on the product like it's characteristics and segmentation**
- **This report helps you market and place the product correctly by identifying the target customer group of the product**

- **This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
- **The report provides a glimpse of government regulations applicable on the industry**
- **The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions**

Our Approach:

- **Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.**
- **The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players**
- **We use reliable sources of information and databases. And information from such sources is processed by us and included in the report**

Scope of the Report

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Geotextiles for Road Construction .” provides an insight into Geotextiles for Road Construction market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Geotextiles for Road Construction project. The report assesses the market sizing and growth of the Indian Geotextiles for Road Construction Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- **Good Present/Future Demand**
- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Geotextiles for Road Construction sector in India along with its business prospects. Through this report we have identified Geotextiles for Road Construction project as a lucrative investment avenue.

Tags

#Geotextiles_For_Road_Construction_niir_project,
#Geotextiles_in_Road_Construction_Maintenance,
#geotextile_used_in_road_construction_in_India,
#use_of_geotextiles_in_road_construction_pdf, #geotextile_project_report,
#geotextiles_in_road_construction_ppt, #geotextile_in_road_construction,
#geotextiles_report_geotextile_in_road_pavement,
#Presentation_on_Usage_of_Geosynthetics_for_Road_construction,
#Geotextiles_For_Road_And_Construction_Manufacturing_Plant,(PDF)
Application of Coir Geotextile for Road Construction, jute and jute
geotextiles, Application of Jute Geotextile in Civil Engineering, Geotextile
Market Size & Share, Geotextile For Rail And Road Construction, Usage of
Woven Geo-Textiles in the Construction, Road Stabilization Fabrics,

The concept of geotextiles, Geotextiles Market Report, China Road Construction Geotextile Fabric, Functions & applications of geotextiles, India Geotextiles Market Size, the benefits of using geotextiles in road construction, Geotextiles Market and product information, Using Geotextiles on Unpaved Low Volume Roads, Jute Geotextiles, Synthetic Geotextiles, Importance of Geotextiles in Road Constructions & types, Geotextiles – Products, Types of Geotextiles - Functions and Uses in Construction, Geotextiles Market Global Industry Analysis, introduction to geosynthetics, Optimal engineered woven geotextiles, Use geotextiles and enhance road, Use jute geo-textile in road construction, Geosynthetics and Geotextiles, Geosynthetics in road construction, Geo-synthetics and their use in Road Construction, Geosynthetics Manufacturers, Woven & Non-woven Geotextile Fabric, Application of Geo-Textiles in Road Construction, Startup ideas, Project for startups, Startup project plan, Business start-up, Business Plan for a Startup Business, Great Opportunity for Startup,

Road Construction/Reconstruction (PDF), How to Start Geotextiles for Road Construction Processing Industry in India, Geotextiles for Road Construction Processing Industry in India, Most Profitable Geotextiles for Road Construction Processing Business Ideas, Geotextiles for Road Construction Processing & Geotextiles for Road Construction Based Profitable Projects, Geotextiles for Road Construction Processing Projects, Small Scale Geotextiles for Road Construction Processing Projects, Starting a Geotextiles for Road Construction Processing Business, How to Start a Geotextiles for Road Construction Production Business, Geotextiles for Road Construction Based Small Scale Industries Projects, new small scale ideas in Geotextiles for Road Construction processing industry, Process technology books, Business consultancy, Business consultant, Project identification and selection, Preparation of Project Profiles, Startup, Business guidance, Business guidance to clients,

Niir Project Consultancy Services (NPCS)
can provide Detailed Project Report on
Geotextiles (for Road Construction)
Manufacturing Plant.
Production of Geotextiles.
Opportunities in Technical Textiles
Sector

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Free Instant Online Project

Identification and Selection Service

Our Team has simplified the process for you by providing a "Free Instant Online Project Identification & Selection" search facility to identify projects based on multiple search parameters related to project costs namely: Plant & Machinery Cost, Total Capital Investment, Cost of the project, Rate of Return% (ROR) and Break Even Point % (BEP). You can sort the projects on the basis of mentioned pointers and identify a suitable project matching your investment requisites.....[Read more](#)



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Reports:

▪ Detailed Project Reports

NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.



And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- **Good Present/Future Demand**
- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,



Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in India along with its business prospects.....[Read more](#)



Contact us

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Who are we?

- *One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services*
- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*



We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.



We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.



What do we offer?

- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Market Research Reports*
- *Business Plan*
- *Technology Books and Directory*
- *Industry Trend*
- *Databases on CD-ROM*
- *Laboratory Testing Services*
- *Turnkey Project Consultancy/Solutions*
- *Entrepreneur India (An Industrial Monthly Journal)*

How are we different ?

- *We have two decades long experience in project consultancy and market research field*
- *We empower our customers with the prerequisite know-how to take sound business decisions*
- *We help catalyze business growth by providing distinctive and profound market analysis*
- *We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors*
- *We use authentic & reliable sources to ensure business precision*

Our Approach

Requirement collection



Thorough analysis of the project



Economic feasibility study of the Project



Market potential survey/research



Report Compilation

Contact us

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THANK YOU

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