

Polymer ropes



About Polymer ropes These are fibre bundles twisted together. Three most common materials used in making ropes are; **Nylon, Polypropylene, and Polyester**. These fibres are almost impossible to separate by appearance but polypropylene is usually slightly thicker and stiffer.

Properties of different ropes			
Properties	PolyPropylene	Polyester	Nylon
Density (in Gm/ cubic meter)	.91	1.38	1.14
UV resistance	Least resistant in the group	Excellent resistance. Absorbs ultraviolet radiation and re-emit it as light.	High resistance
Chemical resistance	Resistant to all chemicals	Usually good except bases/alkalis	Normally good except for Acids
Applications	Oil exploration, Fishing, shipping, etc.	Construction, tower erection, transport, etc.	Adventure sports, defence rope drags, etc.

Rope Styles Three types of ropes are twisted, braided, and plaited. The synthetic ropes can either be made from fibres or extruded tapes.

In the process of making ropes from fibres, the fibres are first treated with lubricants and passed through several machines straightening, separating, aligning and cleaning them. What comes out of this process is called sliver. These slivers are then passed through drawing machines and twisters turning them into yarns.

Whereas, the extruded tapes are first made from synthetic granules through an extrusion machine and slit into yarns.

The yarns (made from any of the above process) are then, based on the rope style, twisted, braided, and plated into strands and finally the strands into ropes.



Budget

The total budget required for setting an extrusion based turnkey plant with a capacity of 1 ton per shift would be less than Rs. 1 crore. The budget is inclusive of working capital requirements, plant and machinery and related infrastructure.

Report coverage

1. Market analysis – (info on Potential user industries, market size, growth factors, etc.)
2. Competitive landscape (Info on: Products, pricing, etc.; on current market players in the target location)
3. Location analysis (with a view to source raw material and to reach market)
4. Raw material sourcing from various locations, suppliers, Quotes from suppliers
5. Approvals and Regulatory requirements (including applicable standards)
6. Machinery required / Quotes from suppliers
7. Advice on initial viable scale of business
8. Capital requirements, profitability
9. Profitability projections for the coming years

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