

Aluminium Wire & Cables Manufacturing Industry.

Start an Electric Wire & Cable Business



Introduction

Aluminium (Al) is one of the most common metal elements. In fact, it is the third most abundant element (after oxygen and silicon) that makes up about 8% by weight of the Earth's crust. Aluminium is one of the most electrically conductive metals and highly resistant to ordinary corrosion. With other characteristics such as lightweight, strength, and low cost to produce, aluminium has become one of the most popular materials for electrical applications. Aluminium wire is nowadays increasingly popular for electrical wiring and in utility grid transmission and distribution networks, and are widely used for wiring in several of industries including electronics, construction, aircraft etc.



Aluminium Wire

Aluminum wire are utilized in various home electrical appliances, switches, circuit breakers and motors owing to its light weight, corrosion resistance and retention of temperature even at low temperatures properties. The products are used in electrical products as they are lighter than other material, it also reduces corona an electric discharge which is associated with high power transmission and its excessive heating do not separate the electrical fixtures and connections, thus increasing the industry demand.



Uses of Aluminium wire

- **In Construction Industry**

Aluminium is an excellent alternative to copper and is largely used in the manufacture of building wires. Electricians and contractors use large sizes of aluminium building wire where there is requirement of low voltage. This is more beneficial to contractors in terms of savings as it has half the weight of copper wire. Aluminium conductors for building wire are made in such a manner that the overall diameter of the aluminium wire is similar to that of copper wire.



- **In Electrical Distribution Industry**

Utilities such as electrical distribution companies have been extensively using aluminum wire throughout their distributing systems (power grids) for transmission of electric current.

- **In Communication Industry**

The copper clad aluminium wire is primarily used in high quality coils, power cables and antennas. The aluminium-copper combination finds its use in commercial as well as residential applications including household wiring, cable wiring, headphones, loudspeakers and antennas. CCAW are also used to help connect the internet to the computer. They are important components of cable modems and television connections as well as Ethernet connections (that is, LAN and WAN).

- **In Broadcasting Networks**

Modern broadcasting networks (radio and television) largely rely on aluminium wire (CCAW) for information broadcast. Basically, two forms of radio networks are known- the first form is used for broadcasting and updates, advertising and marketing whereas the other form is the backbone of police and armed forces (used for communicating with each other). Television broadcasting involves transmitting signals through cable and satellite television.

- **In Submarine Communications**

Aluminium wires clad with copper provide a great means of submarine communication and are installed below the floor of the ocean to expedite the process of information transfer across the globe.

- **In Medical Field**

Aluminium wire finds also its use in medical science instruments that are involved in diagnostic processes such as medical ultrasonography.



Aluminium Cables

Aluminium cables are used across various industries and markets. In our last blog we shared the financial advantages of aluminium cables. Now we will focus on the physical advantages of aluminium cables. A second advantage is the weight of aluminium; it is much lighter in weight as compared to copper while maintaining the same conductivity. Being light in weight is an important property of aluminium. This has made aluminium cables the most used cables in projects where weight is the main focus like constructions with load-bearing purposes.



Market Outlook

Aluminum Wire Market size was over USD 50 billion in 2017 and industry expects consumption at over 10 million tons by 2024. It is set to surpass USD 65 billion by 2024. Growing consumer demand towards lightweight automobile vehicles may drive aluminum wire market demand. Superior properties which include light weight, high strength and corrosion resistance may cater to construction and electrical industries, thus propelling industry growth over the forecast timeframe.

The global aluminium wire market has witnessed growth at a steady rate over the recent years. The market is primarily driven by the rising demand in the rapid urbanization around the world, the increased support from governments, as well as the new production techniques that reduce not only the cost of aluminium wire production but also significantly reduce the processing time of the wire rods.

As the consumption of aluminium wires in various industries still remains high, business opportunities in the global aluminium market are expected to flourish further in the near future.

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In the last few years, the automotive and aerospace companies have also been shifting their focus toward the surging use of electronic contents for downgrading the size of the components and improving the use of digital technologies in the fleets.

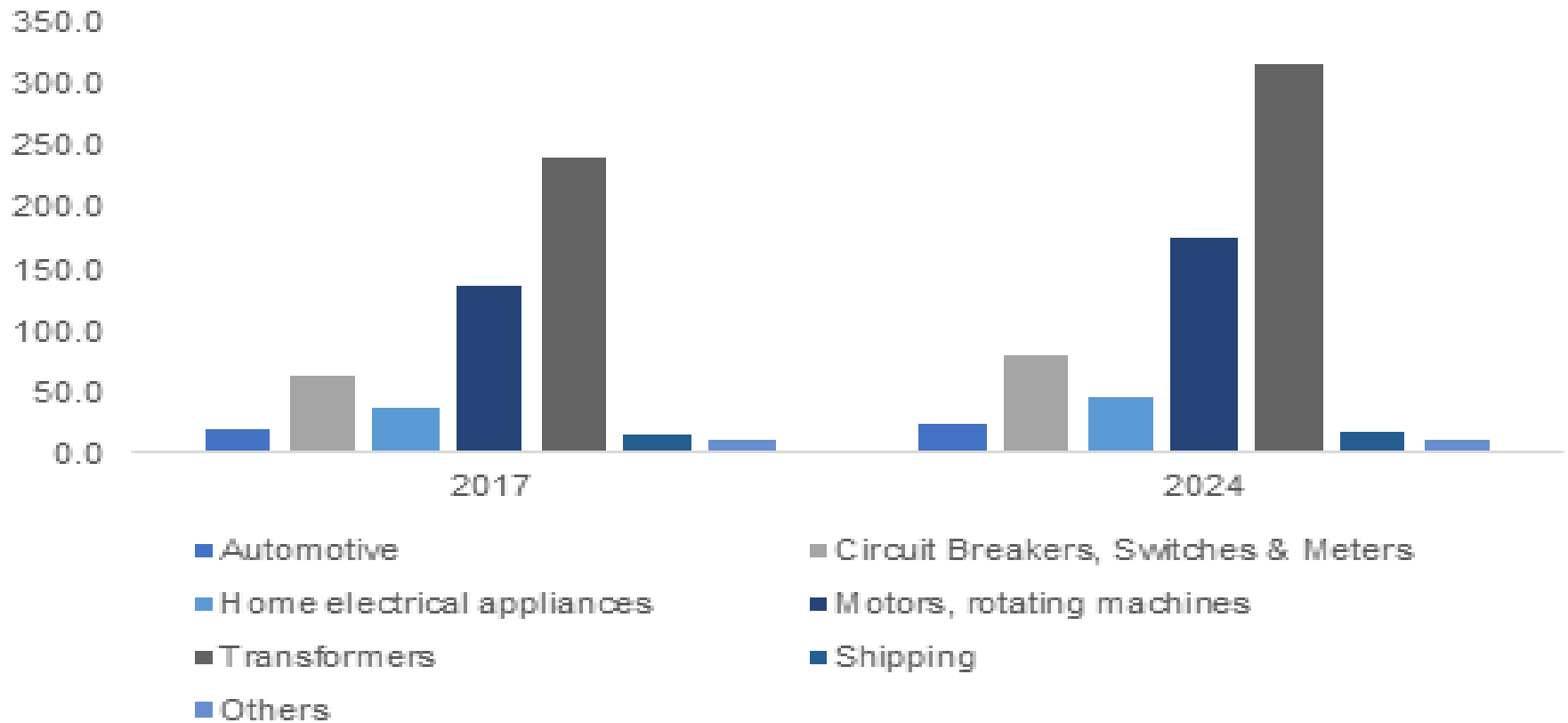
Considering the lightweight and ease of use characteristics, the contributors in the automobile and aerospace sectors have been using aluminum wires in electronic panels which are installed in engine control units (ECU), infotainment systems, and other control units.

The global aluminium wire market can be classified on the basis of product type and application. In terms of product type, the market can be segmented into paper insulated, enamelled, and fiberglass aluminium wire. Of these, paper insulated aluminium wire is expected to lead the market during the forecast tenure.



Rising application of aluminium wire in various industries is likely to boost the demand in the global aluminium market. Food and beverages, automotive, and customer electronics are some of the key industries in which aluminium wires are used extensively. Non-toxic nature of aluminium will preserve food for longer duration and prevents the growth of micrograms. These factors increase its demand on the food and beverages industry. The demand for aluminium is also increasing the automotive industry as it reduces weight of the vehicle to increase fuel economy. Moreover, manufacturers now prefer aluminium to steel mainly to reduce weight without compromising strength and carrying capacity of the vehicle.

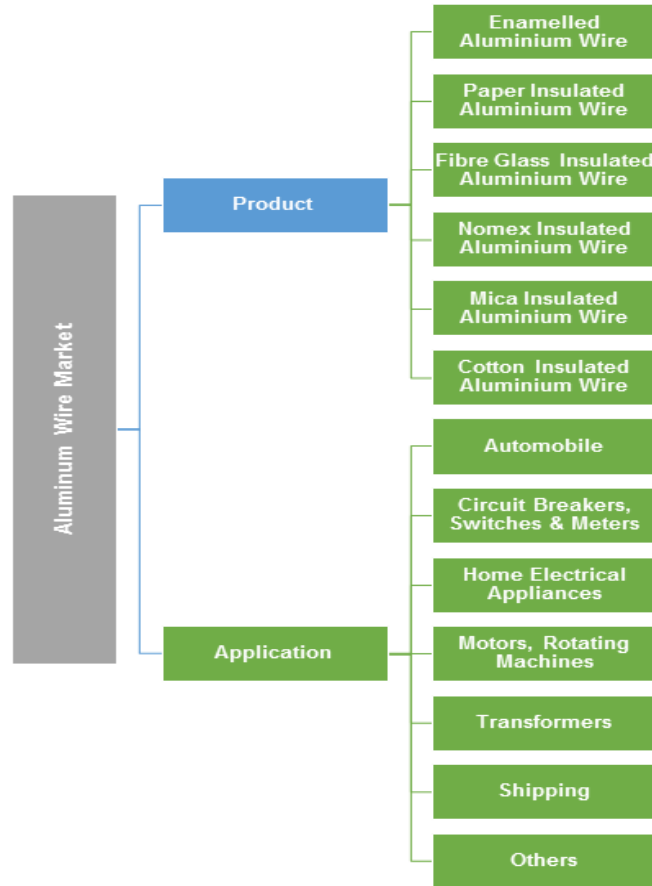
U.S. Aluminium Wire Market Size, By Application, 2017 & 2024, (Kilo Tons)



Asia Pacific driven by India, Japan, and China aluminium wire market size may register significant gains at 3.5% by the end of foreseeable timeframe. These are used in various construction application which includes wiring systems owing to its high strength, durability and less risk of breakage coupled with cost cutting and weight saving properties, which in turn stimulate regional demand.

Aluminum wire is drawn by hot rolling in which rods are formed followed by solution handling and quenching of the coils attained by hot rolling. Increasing demand for light weight automotive vehicles and stringent performance requirements in electrical machines is likely to propel product demand. In electrical application these are used in transformers as their oxides are strongly attached, hard to dislodge and are electrically insulated. High tensile strength property can be tailored, and its lighter weight require few support towers for overhead transmission lines, which offers more growth opportunities in the market.

Aluminum Wire Market Industry Background



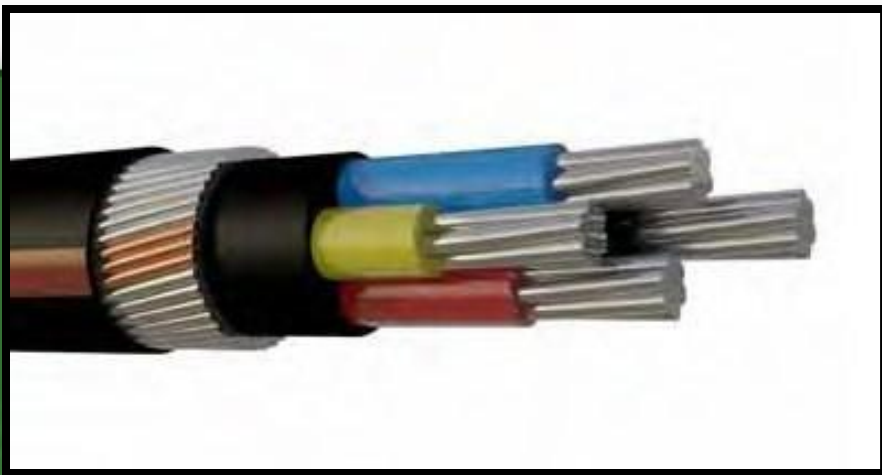
North America	Europe	Asia Pacific	LATAM	MEA
<ul style="list-style-type: none">• U.S.• Canada• Mexico	<ul style="list-style-type: none">• Germany• UK• France• Italy• Spain• Russia• Netherlands	<ul style="list-style-type: none">• China• Japan• India• South Korea• Australia• Malaysia• Thailand• Indonesia	<ul style="list-style-type: none">• Brazil• Argentina	<ul style="list-style-type: none">• Bahrain• Saudi Arabia• UAE• South Africa

India Wires and Cables Market

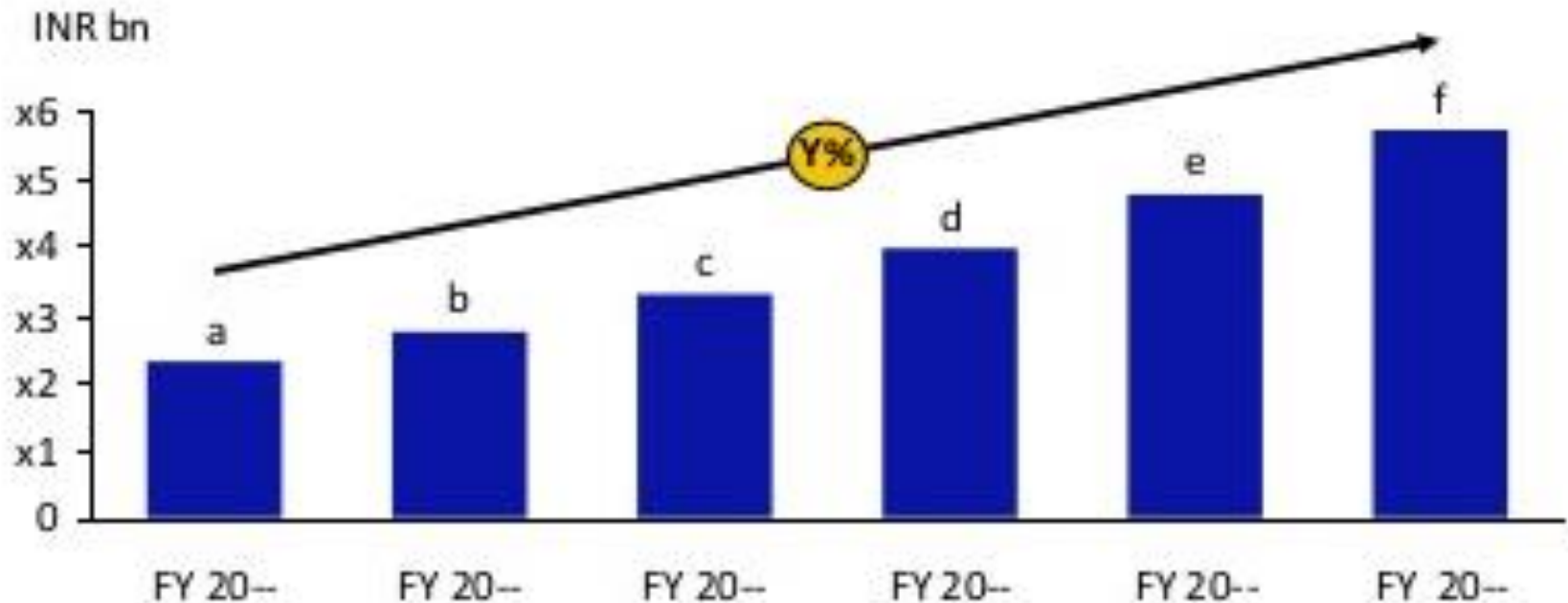
Wires and cables play an indispensable role in today's digitally advanced life and find extensive usage across a number of applications in several industries. The extensive usage and applications of wires and cables across various industries will put the wires and cables industry on the right path for the future.

Wires and cables market in the world and in India is highly fragmented, with the presence a number of small and medium enterprises. The organized sector manufactures high voltage durable cables, whereas the unorganized sector mainly captures the low voltage market, where products are mainly separated on the basis of the price. The wires and cables market is presently at its growing stage in our country and is expected to be capturing a significant share in the electrical equipment industry in the upcoming years.

The wires and cables in the India has witnessed a growth in recent years on account of rising demand wires and cables fueled by expansion in infrastructure development, electricity consumption and others. The surge in revenue is majorly originated from growth in power cables as a segment of wires and cables market. The upsurge in this segment has been largely led by the domestic factors such government expenditure on infrastructure, increase in level of investment, rising level of disposable income, technological advancement.



Indian Wire and Cable Market-Size and Growth



Machinery Photographs



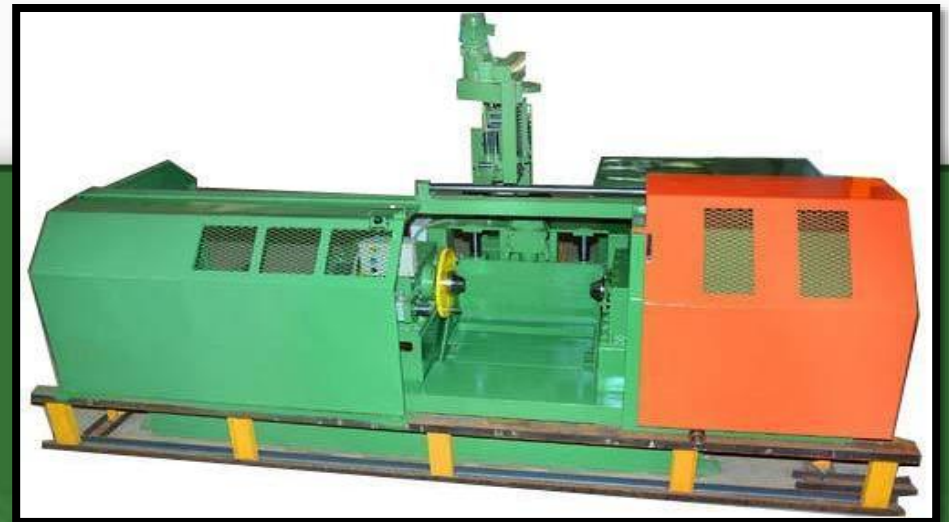
Rod Break Down Machine



Intermediate Wire Drawing Machine



Pointing with Threading Machine



Spooling Machine

Project at a Glance

PROJECT AT A GLANCE

(` in lacs)

COST OF PROJECT

MEANS OF FINANCE

Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	0.00	0.00	Capital	0.00	144.87	144.87
Buildings	0.00	85.00	85.00	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	314.26	314.26	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	12.00	12.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	56.75	56.75	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	25.00	25.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	434.60	434.60
Preliminary & Pre-operative Exp	0.00	2.00	2.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	31.00	31.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	53.47	53.47				
TOTAL	0.00	579.47	579.47	TOTAL	0.00	579.47	579.47

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	%
1-2	4.55	9.41	14.55	24.00	0.00	100.00	4.55	0.00	4.55	1.00	0.00
2-3	7.51	11.72	22.06	18.00	0.00	100.00	7.51	0.00	7.51	1.00	0.00
3-4	10.46	14.10	32.52	12.00	0.00	100.00	10.46	0.00	10.46	1.00	0.00
4-5	13.30	16.46	45.82	6.00	0.00	100.00	13.30	0.00	13.30	1.00	0.00
5-6	16.01	18.76	61.83	0.00	0.00	100.00	16.01	0.00	16.01	1.00	0.00

Project at a Glance

Year	D. S. C. R.			Debt / Equity - Deposits Debt	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		1.65	1.65	3.02	8.08%	3.65%	2.87%	581.97	25.36%	2.78	1.04
2-3	1.66	1.51		0.82	0.82	1.86	9.66%	5.97%	4.06%	678.93	25.36%	3.00	1.24
3-4	2.03	1.67	2.03	0.37	0.37	1.18	10.72%	7.61%	4.95%	775.92	25.36%	3.04	1.46
4-5	2.46	1.84		0.13	0.13	0.77	11.44%	8.77%	5.60%	872.91	25.36%	2.96	1.72
5-6	2.98	2.03		0.00	0.00	0.53	11.91%	9.58%	6.06%	969.90	25.36%	2.82	2.35

Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	58.09%
Total BEP (% of Installed Capacity)	62.20%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	27.50%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	14.585

Major Queries/Questions Answered in the Report?

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

- 5. What is the structure of the Aluminium Wire & Cables Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Aluminium Wire & Cables Manufacturing Business?**
- 7. What are the operating costs for setting up Aluminium Wire & Cables Manufacturing plant ?**
- 8. What are the machinery and equipment requirements for setting up Aluminium Wire & Cables Manufacturing plant ?**

9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Aluminium Wire & Cables Manufacturing plant ?

10. What are the requirements of raw material for setting up Aluminium Wire & Cables Manufacturing plant ?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up Aluminium Wire & Cables Manufacturing Business?

12. What is the Manufacturing Process of Aluminium Wire & Cables?

13. What is the total size of land required for setting up Aluminium Wire & Cables Manufacturing plant ?
14. What will be the income and expenditures for Aluminium Wire & Cables Manufacturing Business?
15. What are the Projected Balance Sheets of Aluminium Wire & Cables 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 Aluminium Wire & Cables.” provides an insight into Aluminium Wire & Cables market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Aluminium Wire & Cables project. The report assesses the market sizing and growth of the Indian Aluminium Wire & Cables 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 Aluminium Wire & Cables sector in India along with its business prospects. Through this report we have identified Aluminium Wire & Cables project as a lucrative investment avenue.

Tags

#Aluminium_Wire_Manufacturing_Plant,
#Process_of_Manufacturing_of_Aluminium_Wire,
Production_Process_of_Aluminium_Wire, Manufacturing of Aluminium Cables,
Aluminium Wire Manufacturing Process, Manufacturing Process of Aluminium Wire,
#Aluminum_Wire_Production, Aluminium Wire, Aluminium Cables & Wires,
Aluminum Electrical Wire, Aluminium Cable Manufacturing Process, Cable
Manufacturing Process Flow Chart, Cable Manufacturing Process PPT, How Electrical
Cables are made, Electrical Cable Manufacture,
#Profitable_Business_Ideas_in_Wire_&_Cable_Manufacturing_Industry,
#Wire_&_Cable_Manufacturing_Business, Electric Wire Manufacturing Plant Cost,
Wire & Cable Manufacturing Projects, Aluminium Wire Manufacture, Aluminum Wire
and Cable Production, #Project_Report_on_Aluminium_Wire_manufacturing_Industry,
Detailed Project Report on Aluminium Cable Manufacturing, Project Report on
Aluminum Wire and Cable Production,
#Pre_Investment_Feasibility_Study_on_Aluminum_Wire_and_Cable_Production,
#Techno_Economic_feasibility_study_on_Aluminum_Wire_and_Cable_Production,
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OUR CLIENTS

Our inexhaustible Client list includes public-sector companies, Corporate Houses, Government undertaking, individual entrepreneurs, NRI, Foreign investors, non-profit organizations and educational institutions from all parts of the World. The list is just a glimpse of our esteemed & satisfied Clients.

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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

NIIR PROJECT CONSULTANCY SERVICES

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Niir Project Consultancy Services

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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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