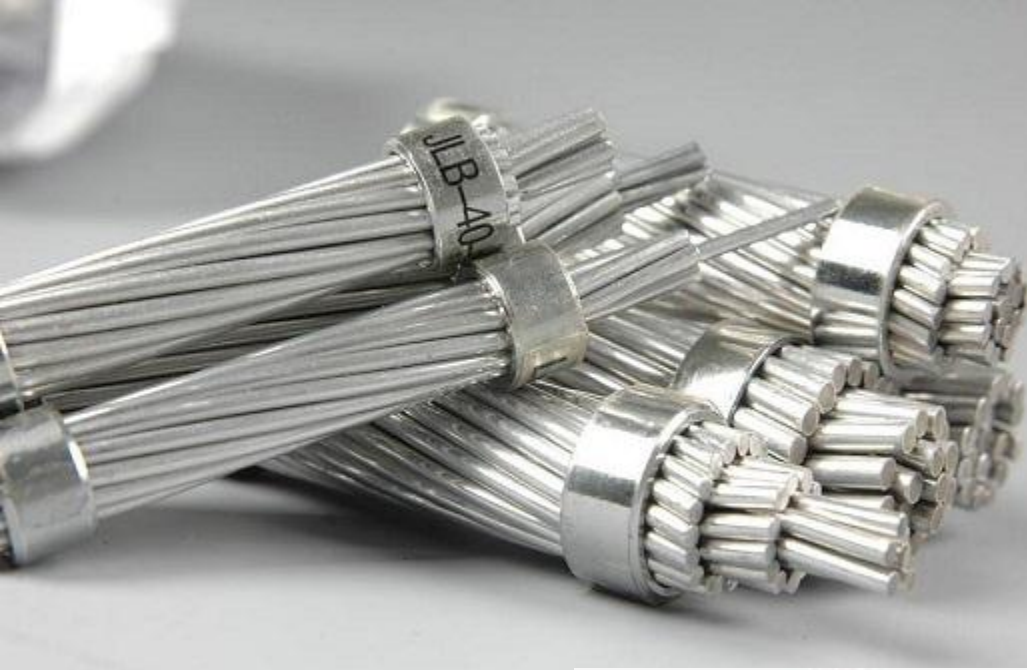




**Manufacturing of
Aluminium Cables and Conductors from
Molten Aluminium Metal, Aluminium
Ingots.**

**Profitable Aluminium Downstream
Business Ideas, Projects & Opportunities**



Introduction

Aluminium cables are used across various industries and markets. Aluminium cables often are used to connect wind turbines to the grid, and this is a relatively new and high-growth application sector. The weight of aluminium; it is much lighter in weight as compared to copper while maintaining the same conductivity.

Aluminium cables can often be found when dealing with electricity, because of their high conductive nature. These cables are ductile, light weight, non-magnetic and are perfect for heavy-duty applications. It is also ecofriendly since Aluminium can be recycled. These cables are used in motors, electric lights and even telephone lines.

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.

Power sector is the biggest driver in the mainstay of cable demand, accounting for more than three-quarters of the market. Telecom cables are confined to the relatively narrower domain of the health of the global information, communications and technology (ICT) domains. For the industry, the current focus is to supply cables for specific applications, pertaining to the industry needs. Sectors like oil and gas, metro, cement industry and steel industry have a lot of growth potential.

Aluminum Conductors are produced through electrolytic refining of aluminum. Generally, these conductors contain about 99.5% of aluminum and are made up of one or more strands of aluminum wire depending on the end-use application requirement. These conductors are primarily used in the T&D sector for various applications such as overhead line applications. Aluminum conductors are known for their tensile strength, corrosion resistance, and shock proof properties. These conductors are widely used in urban areas for short space applications.

The conductor made from aluminium alloys is suitable in urban areas as they provide better tensile strength and conductivity. These alloys are known with different names in various countries. Some of these alloys are costly as they are heat treated. One of the alloys of aluminium is known as silmalec which contains 0.5% of silicon, 0.5 % of magnesium and rest of aluminium. Due to this there is improvement in conductivity and mechanical strength.

Low voltage copper conductor PVC cables are extensively used for domestic home appliances wiring, house wiring and internal wiring for lighting circuits in factories, power supply for office automation, in control, instrumentation, submarine, mining, ship wiring applications etc. due to its high tensile strength, superior conductivity, better flexibility and ease of jointing.

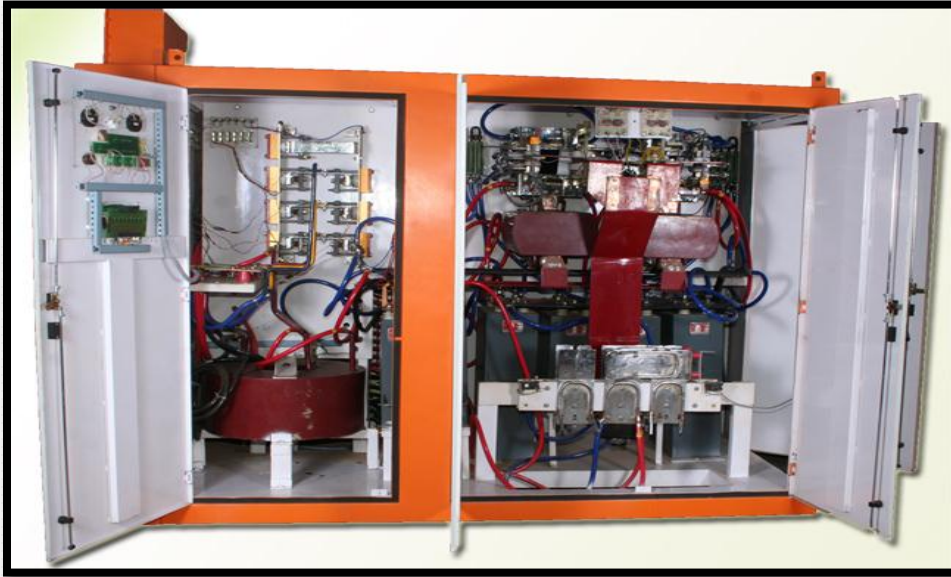
AAAC Conductor

- 1. AAAC is used as bare overhead conductor for power transmission and distribution lines on aerial circuits that require larger mechanical resistance than AAC.**
- 2. All Aluminium-Alloy Conductors (AAAC) can be used in Medium, High and Extra-High voltage transmission lines.**
- 3. Transmission and Distribution applications in corrosive environments, ACSR replacement**



The aluminum conductor and cable manufacturers are operating at 60%-70% capacity utilization levels due to fluctuating demand. The demand fluctuates because the execution phase of T&D lines, where these conductors are used, is generally long, and the procurement of aluminum wire rods for use in conductors is directly linked to the order cycle of conductors, which, in turn, is dependent on government investments. The demand is expected to be stable during the forecast period with government spending remaining uninterrupted. Stable demand will lead to improvement in average capacity utilization levels of conductor manufacturers. The global aluminum conductors market to grow at a CAGR of 2.63% during the period 2017-2021.

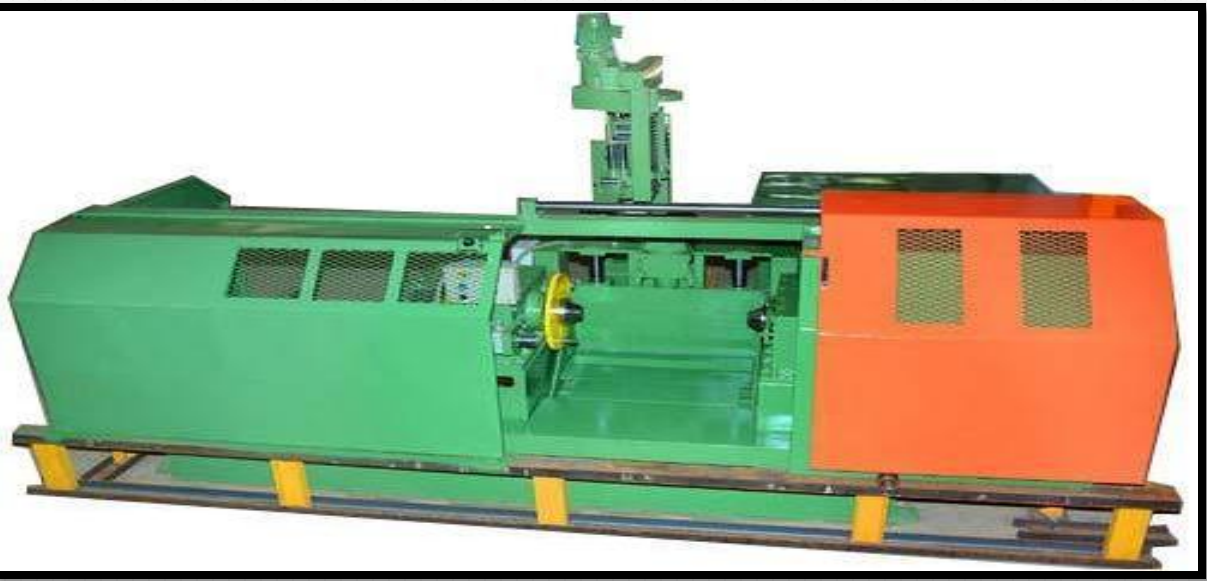
Machinery Photographs



Induction Melting Furnace

Rod Break down Machine





Spooling Machine

Extrusion Line



Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site				Capital	0.00	412.71	412.71
Development Exp.	0.00	229.80	229.80	Share Premium	0.00	0.00	0.00
Buildings	0.00	556.00	556.00	Other Type Share			
Plant & Machineries	0.00	376.21	376.21	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	152.00	152.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow				Internal Cash			
Fees & Exp.	0.00	50.00	50.00	Accruals	0.00	0.00	0.00
Franchise & Other				Long/Medium Term			
Deposits	0.00	0.00	0.00	Borrowings	0.00	1238.13	1238.13
Preliminary & Pre-operative Exp	0.00	5.00	5.00	Debentures / Bonds	0.00	0.00	0.00
Provision for				Unsecured			
Contingencies	0.00	35.00	35.00	Loans/Deposits	0.00	0.00	0.00
Margin Money -							
Working Capital	0.00	231.83	231.83				
TOTAL	0.00	1650.84	1650.84	TOTAL	0.00	1650.84	1650.84

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				
1-2	6.23	9.60	16.23	24.00	0.00	100.00	6.23	0.00	6.23	1.00	0.00
2-3	9.09	12.06	25.33	18.00	0.00	100.00	9.09	0.00	9.09	1.00	0.00
3-4	11.98	14.59	37.31	12.00	0.00	100.00	11.98	0.00	11.98	1.00	0.00
4-5	14.81	17.12	52.11	6.00	0.00	100.00	14.81	0.00	14.81	1.00	0.00
5-6	17.56	19.61	69.68	0.00	0.00	100.00	17.56	0.00	17.56	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	1.39	1.39		1.48	1.48	3.56	6.99%	3.86%	2.59%	1545.50	15.56%	3.30	1.08	
2-3	1.70	1.54		0.71	0.71	2.25	7.67%	5.00%	3.24%	1702.46	14.69%	3.45	1.21	
3-4	2.09	1.71	2.09	0.32	0.32	1.51	8.15%	5.85%	3.73%	1943.28	14.67%	3.45	1.35	
4-5	2.55	1.89		0.12	0.12	1.07	8.48%	6.46%	4.10%	2184.09	14.66%	3.36	1.52	
5-6	3.11	2.09		0.00	0.00	0.80	8.71%	6.92%	4.38%	2424.90	14.65%	3.22	1.88	

Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	48.58%
Total BEP (% of Installed Capacity)	52.05%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	29.35%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	18.706

Major Queries/Questions Answered in the Report?

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

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

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

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

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

12. What is the Manufacturing Process of Aluminium Cables and Conductors?



- 13. What is the total size of land required for setting up Aluminium Cables and Conductors 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 Cables and Conductors.” provides an insight into Aluminium Cables and Conductors market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Aluminium Cables and Conductors project. The report assesses the market sizing and growth of the Indian Aluminium Cables and Conductors 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 Cables and Conductors sector in India along with its business prospects. Through this report we have identified Aluminium Cables and Conductors project as a lucrative investment avenue.

Tags

Aluminium Conductors Manufacturing Plant, Aluminium Conductor Manufacture, Manufacturing of Aluminium Conductors, Aluminum Rods Bare Conductors and Cables, Aluminium Conductors, Aluminium Conductors AAC, AAAC, ACSR, Industrial Unit of Aluminium Conductor Production Factory, Aluminium Conductor Steel Reinforced, Manufacturing Aluminum Conductor Wires, Cable and Conductor Manufacturing, Conductor Manufacturing Unit, Aluminium Conductor Plant, Aluminium Alloy Conductor (AAAC), ACSR Conductors Manufacture, AAAC Conductor Manufacture, Manufacturing of ACSR Grade Aluminium Conductors, Aluminium Conductor Manufacturing Process, ACSR Conductor Project Report, Process of Manufacturing of Aluminium Wire Rods, Opportunities for Aluminum Rods and Conductor, Aluminium Conductors Manufacture, Aluminium Conductors in Automotive, Aluminum Wire Production, Process of Manufacturing of Aluminium Wire Rods, Cable Manufacturing Process Flow Chart, Cable Manufacturing Process, Industrial Aluminum Conductors, Aluminium Conductors Manufacturing project ideas, Projects on Small Scale Industries, Small scale industries projects ideas, Aluminium Cable Manufacturing Based Small Scale Industries Projects, Project profile on small scale industries, How to Start Aluminium Conductors Manufacturing Industry in India, AAAC Conductor Manufacture Projects, New project profile on Aluminium Conductors Manufacturing industries, Project Report on Aluminium Cable Manufacturing Industry,

Detailed Project Report on Aluminium Conductors Manufacturing, Project Report on Aluminium Conductors Manufacturing, Pre-Investment Feasibility Study on AAAC Cable Manufacture, Techno-Economic feasibility study on Aluminium Conductors Manufacturing, Feasibility report on Aluminium Conductors Manufacturing, Free Project Profile on Aluminium Cable Manufacturing, Project profile on Aluminium Cable Manufacturing, Download free project profile on Aluminium Cable Manufacturing, Project report for bank loan, Project report for bank finance, Project report format for bank loan in excel, Excel Format of Project Report and CMA Data, Project Report Bank Loan Excel

**Niir Project Consultancy Services (NPCS)
can provide Detailed Project Report on
Manufacturing of Aluminium Cables and
Conductors from Molten Aluminium Metal,
Aluminium Ingots.**

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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](#)



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Niir PROJECT CONSULTANCY SERVICES

An ISO 9001:2015 Company



www.entrepreneurindia.co

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

NIIR PROJECT CONSULTANCY SERVICES

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