

Low Tension Cables, LT Power Cables Manufacturing



Industry.



Industrial LT Cables Production Business

Introduction

LT Cables or Low Tension PVC Cables are defined as per IS 1554 Part I having voltage grade up to 3.3kv.

LT Cables designed to be used underground directly, buried in ducts, trenches or in tunnels for electric power transmission, are used in many applications including:

- **Infrastructure**
- **Industries**
- **Power Generation**
- **Automation**
- **Lighting**
- **Sound and security**
- **Video surveillance**
- **Fire alarm**



Some LT cables with Special Fire Properties are used in Oil, Gas and Petroleum Sector and in application areas where fire safety is of critical importance.

Low tension cables are used for transmitting the voltages below than 1 KV. Because the cable is not prone to any special electrostatic stress its construction is kept normal. Even the insulation is very simple in which a paper is impregnated using oil. Its viscosity increases by applying the resin and it also avoids damage. Over the outer sheath layer, there is another layer which keeps the cable protected from moisture and any environmental damage.



There are two more types of low tension cable which are as follows.

- **Single-Core Cable**

A stranded circular core which is insulated with lead sheath. The lead sheath prevents any moisture penetration in the cable. Above the lead sheath, there is another layer which prevents the metal from corrosion. In these cables, no armoring is done during its manufacturing because the armor becomes a reason of excessive loss.

- **Multicore Cable**

A three core cable insulated with each other. The strands of the conductor are either circular shaped, oval or section-wise these are insulated using impregnated paper. Similar to the single core cable, the insulation is provided on each belt of the core. This outer covering prevents the penetration of moisture in the cable. A coating of lime water is also provided on the outer layer to avoid the cable to act adhesive.

The major demand for electric wire and cable in India is likely to come from the railway and construction sectors due to rising government investment. The Government of India has allocated a budget of approximately 18 billion for the development of Indian Railways during 2016-2017 and the government also plans to develop 100 smart cities during the forecast period.



Power cables, a critical segment of the power sector, are experiencing an escalating demand owing to the growth in power generation infrastructure. India is one of the biggest consumers of electric energy after the US and China. With rapid industrial development and urbanization in the country. However, the overall generation capacity is unable to cater to the existing demand. Moreover, the T&D infrastructure is quite old and needs extensive renovation. Rural electrification is another major factor, which is expected to propel the growth of the electric wire and cable market in India. GOI's goal to provide electricity to every home by 2020 should attract major investments in the sector.

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.

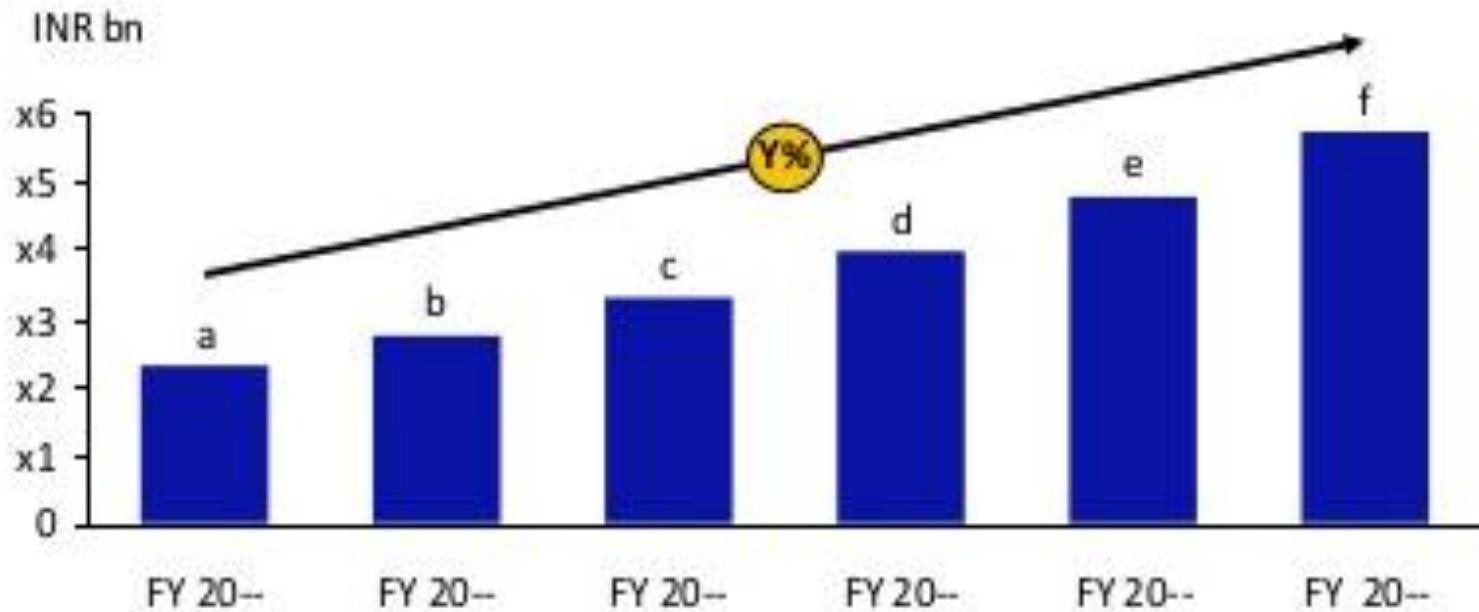
In India, the size of the cable manufacturing industry is approx Rs. 40,000 crores. The specialised cable industry in which CMI operates currently, is roughly of the size of Rs. 10,000 crores. The government has announced ambitious plans for infrastructure development. One of the primary focus area of the development plan is railways, with over Rs. 800,000 Cr as promised investment over the period of 2015-2020. In addition, the government has earmarked Rs 50,000 crore (US\$ 7.53 billion) to develop 100 smart cities across the country.

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 intensifying competition in the industry is expected has put increasing pressures on all of players to maintain their market shares. Additionally, the low level of exports has also hampered the growth of this industry in India. However, the real estate's boom in the country, promulgated by an incensement in the number of houses being bought and sold contributed positively towards the revenue generation by the cable market.

Additionally, the demand for electricity is expected to be rise in future with increasing number of households, together with the sales of transmission and distribution equipment's lead to positive inclination in demand for wires and cables & thus revenue generated by the industry. 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.



Indian Wire and Cable Market-Size and Growth



Global Cable & Wire market escalates to become 297.4 billion by 2019, with the demand for telecom cable taking the lead with 8.5% 5 Year Compound Annual Growth Rate (CAGR), followed by Power Cable with 7.5% CAGR.

The growing trend in the building construction and automobile sector is expected to keep demand of copper high. Understanding the copper technology involved in copper production, exploration, mining, and the uses of copper, as well as the global industry structure would impact the copper mining on the environment, the various markets of copper, etc. The industry is affected by the price trends of copper, market performance, import/export scenario, the physical market trends, demand for copper, and of course, a market forecast. The Indian government has made an ambitious plan.

Power Cables

Demand : Past and Future

Year	(In '000 Km)
1990-91	25.70
2000-01	29.65
2001-02	29.45
2002-03	31.51
2003-04	33.40
2004-05	36.07
2005-06	38.78
2006-07	41.30
2007-08	44.60
2008-09	47.28
2009-10	51.06
2010-11	55.66
2011-12	60.67
2012-13	66.25
2013-14	72.48
2014-15	79.44
2015-16	84.60
2016-17	90.10
2017-18	95.96
2018-19	102.20
2019-20	108.84
2024-25	156.25

Each segment in the wires and cables industry such as power cables, control cables, communication cables and others is subject to a gamut of different factors such as price cuts and number of units sold that play an important role in determining their respective revenues.



Global Wire and Cable Market Revenue



The global wire and cable market can be broadly segmented by based on type, material, and application. By In terms of type, the low voltage wire and cable segment is consistently expected to constitute a dominant market share between 2018 and 2026. Increasing urbanization, which is resulting in the expansion of power transmission & distribution networks and rise in residential & commercial buildings, is a major factor attributed to the segment's high share. Moreover, rising demand for low-voltage wires in electrical installations of automobiles is another factor accounting for its dominance throughout the forecast period.



However, out of all types, the optical fiber cable segment is expected to expand at a significant CAGR of 6.1% owing to its increasing applications for telecommunication systems, television transmission, and data networks. By Based on material, the copper segment held a prominent share of the market in 2017 and is further expected to lead the wire and cable market during the forecast period. Superior electrical conductivity together with high ductile and tensile strength makes copper a versatile material for wires and cables.



Machinery Photographs



Rod Break down Machine



Superfine Wire Drawing Machine



One Line Annealing Machine



Bunching 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	210.00	210.00	Capital	0.00	228.95	228.95	
Buildings	0.00	201.00	201.00	Share Premium	0.00	0.00	0.00	
				Other Type Share				
Plant & Machineries	0.00	227.06	227.06	Capital	0.00	0.00	0.00	
Motor Vehicles	0.00	8.00	8.00	Reserves & Surplus	0.00	0.00	0.00	
Office Automation Equipments	0.00	67.50	67.50	Cash Subsidy	0.00	0.00	0.00	
Technical Knowhow Fees & Exp.	0.00	15.00	15.00	Internal Cash Accruals	0.00	0.00	0.00	
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	686.85	686.85	
Preliminary & Pre-operative Exp	0.00	5.00	5.00	Debentures / Bonds Unsecured	0.00	0.00	0.00	
Provision for Contingencies	0.00	22.00	22.00	Loans/Deposits	0.00	0.00	0.00	
Margin Money - Working Capital	0.00	160.24	160.24					
TOTAL	0.00	915.80	915.80	TOTAL	0.00	915.80	915.80	



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	6.43	9.32	16.43	24.00	0.00	100.00	6.43	0.00	6.43	1.00	0.00
2-3	9.11	11.63	25.54	18.00	0.00	100.00	9.11	0.00	9.11	1.00	0.00
3-4	11.85	14.06	37.39	12.00	0.00	100.00	11.85	0.00	11.85	1.00	0.00
4-5	14.52	16.45	51.91	6.00	0.00	100.00	14.52	0.00	14.52	1.00	0.00
5-6	17.10	18.80	69.01	0.00	0.00	100.00	17.10	0.00	17.10	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	1.36	1.36		1.46	1.46	4.57	4.73%	2.59%	1.75%	783.17	9.29%	4.05	1.08	
2-3	1.65	1.50		0.70	0.70	3.01	5.14%	3.27%	2.12%	913.53	9.29%	4.21	1.15	
3-4	2.02	1.66	2.02	0.32	0.32	2.12	5.42%	3.77%	2.41%	1044.03	9.29%	4.22	1.25	
4-5	2.46	1.83		0.12	0.12	1.58	5.60%	4.14%	2.63%	1174.53	9.29%	4.14	1.35	
5-6	2.98	2.02		0.00	0.00	1.22	5.72%	4.40%	2.79%	1305.03	9.29%	4.02	1.56	



Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	49.59%
Total BEP (% of Installed Capacity)	52.57%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	28.43%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	27.599

Major Queries/Questions Answered in the Report?

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

- 5. What is the structure of the LT Cable Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up LT Cable Manufacturing Business?**
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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 LT Cable.” provides an insight into LT Cable market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of LT Cable project. The report assesses the market sizing and growth of the Indian LT Cable 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 NPCCS, 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 LT Cable sector in India along with its business prospects. Through this report we have identified LT Cable project as a lucrative investment avenue.

Tags

Low Tension Cables, LT Power Cables, LT Cable, Manufacturing of Cables, Cables Manufacturing Process, Wire and Cable, Cable Manufacturing, Profitable Business Ideas in Wire & Cable Manufacturing industry, Low Tension Cables Manufacture, Electrical Cables, Low Tension Cable Production, Low Tension Power and Control Cables, Low Tension Power Cable, Manufacturing of Low Tension Cables, Electrical Cable Manufacture, LT Cable Manufacturing Business, LT Cable Production, Power Cable Manufacture, Cable Manufacturing Company, Cables Industry, Low Tension (LT) Cables, LT Control Cables, Wire & Cable Manufacturing Projects, Power Cable, How to Start LT Cable Production, Industrial Cable & Wire Manufacture, Project Report on LT Cable Manufacturing Industry, Detailed Project Report on LT Cable Production, Project Report on LT Cable Production, Pre-Investment Feasibility Study on LT Cable Production, Techno-Economic feasibility study on LT Cable Production, Feasibility report on LT Cable Production, Free Project Profile on LT Cable Production, Project profile on LT Cable Production, Download free project profile on LT Cable Production

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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.



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- **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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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



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