



Catenary Wire and Conductors

used in Railway Electrification

Manufacturing Plant

Growing & Best Industry

for Starting a Business



Introduction



Catenary wire (also called a messenger wire) has closely spaced drops which support the particular contact wire. The messenger (or catenary) wire has to be both strong and have good conductivity. They used multi-strand wires (or cables) with 19 strands in each cable (or wire). Copper, aluminium, and/or steel were used for the strands. All the 19 strands might be of an equivalent metal or some strands might be of steel for strength with the remaining strands of aluminium or copper for conductivity. Another type seemed like it had all copper wires but inside each wire was a steel core for strength. The steel strands were galvanized except for better corrosion protection they might be coated with an anti-corrosion substance.

Related Projects:- [Wire & Cable Projects](#)

The Catenary wire comprises 19 strands of cadmium copper, each strand of 2.10 mm dia, with overall dia of 10.5 mm having about 80% conductivity and 65 sq. mm cross-sectional area. The contact wire is a solid hard drawn grooved electrolytic. Copper of 12.24 mm dia and 107 sq. mm cross-sectional area. The total current carrying capacity of both wires is 600 Amps. The condemning size of contact wire is 8.25 mm.

Related Books:- Handbook on Steel Bars, Wires, Tubes, Pipes, S.S. Sheets Production with Ferrous Metal Casting & Processing



Uses and Applications

Uses

Catenary Wire are often utilized in a supporting role, helping to stay other varieties of cables or lines up. The benefit for this is often that it takes the strain off the hanging cables themselves. Instead it'll be supported by the strong wire rope. It's going to even be utilized in other supporting ways, like to support trees or chimney stacks as an example.

Related Projects:- [Wire and wire products and Projects](#)

Applications

For use as overhead power source for subways, light and heavy transit systems, electrically powered mine train, buses, and industrial cranes. Southwire hard drawn copper trolley wire is right for high-speed rail transportation.

A railway electrification system supplies electric current from a generating system by means of Cu-ETP copper cables to reveal overhead conductor wires which run above the length of the railway track. The present to drive the electrical motor within the train is collected by means of a pantograph which is attached to the roof of the train. To finish the circuit and thereby allow the present to flow, the track is used to form the return connection. The conductor wire is supported from above by a catenary wire. During motion, a wave forms along the conductor wire leading to alternating stresses which can lead eventually to fatigue failure. To attenuate this wave, the conductor wire is kept in tension by weights suspended at each end of its length; hence the necessity for a high strength wire such as copper-magnesium.

Related Video:- [List of Profitable Business Ideas in Wire & Cable Manufacturing Industry.](#)

Market Outlook

The global marketplace for overhead catenary is anticipated to expand at astonishing rates because of the fast expansion of rail network all round the world that demands the necessity for overhead lines. Overhead lines or overhead wires are used for transmitting electricity to the vehicles running on roads like trams, trains or trolleybuses. The feeder stations of those catenary systems take electricity from nearest high voltage grid of electricity. Electric trains use devices like trolley pole, bow collector, or pantograph so as to gather current from overhead lines. These current collecting devices are conductive electrically and allows the passing through of current through tram or train then back again through the steel wheels to the feeder station.

Related Project:- Catenary Wires And Conductors Used In Railway Electrification

[Global Railway Overhead Catenary System Market](#)

The Railway Overhead Catenary System is an overhead wired system used to run electric trains. It's used to supply electricity fed by a transformer to the trains equipped with a pantograph. With the increasing preference towards electrification of railways to exchange the traditional diesel engines over the last 10-15 years, there has been an in depth demand for the railway overhead catenary system market. With growing urbanization, increase in reliance on railways for passenger and freight activities and therefore the need for [eco-friendly](#) energy efficient transport the railway overhead catenary system market is expected to possess a promising future.

Related Books:- [BOOKS & DATABASES](#)



Growing consciousness about the environmental impact of diesel engines has led many countries to modify to electrical engines like [India](#) who has recently undertaken electric train projects to setup an area transportation network within its major cities. Hence, leading to further growth of the railway overhead catenary system market. The economic slowdown currently being observed across the world has had an impression on the railway overhead catenary system market but there's relative optimism about the longer term growth of the market.

The overhead catenary system market for electrified track length in operation is projected to grow at a CAGR of 6.55% during the forecast period, from an estimated market size of 232.6 thousand miles in 2018 to 326.7 thousand miles by 2025.

[Market Research Report](#)

The Asia Pacific region is projected to be the most important growing marketplace for the overhead catenary system during the forecast period. The market growth within the region are often attributed to the rapid growth of the rail sector in countries such as China, Japan, South Korea, and India. Moreover, the mass rapid urban rail transit is gaining pace over the years, which, in turn, is boosting the growth of the overhead catenary system market. Many countries have started expanding the electrification of rail tracks to extend the electrified rail transport, which might trigger the expansion of the [overhead catenary](#) system market within the region.

Related Projects:- [Project Consultancy, Reports & Profiles](#)



Many emerging countries also as developed countries are focusing on expanding their rail network for a far better standard of living and economic process. Moreover, urban rail transit like metro and trams have emerged as reliable modes of city transport. Many urban rail projects are currently within the pipeline and are due for completion within the coming years. Several major rail companies are performing on the enhancement of the facility transmission technology across the world. The respective rail authorities of the countries have implemented the utilization of the overhead catenary systems for the operation of the metro rail transit.

Related Video:- [Wire and Wire Products: List of Profitable Business Ideas in Manufacturing Industry.](#)



Key Players

Bharat Insulation Co. (India) Pvt. Ltd.

Elite Conductors Ltd.

G K Winding Wires Ltd.

Grid India Power Cables Pvt. Ltd.

Hindustan Transmission Products Ltd.

K E C International Ltd.

M E W Electricals Ltd.

Millennium Wires Pvt. Ltd.

Precision Wires India Ltd.

S H Haryana Wires Ltd.

Sunrise Metallic (India) Pvt. Ltd.

Versatile Wires Ltd.

Vidarbha Winding Wires Ltd.

Vidya Wires Pvt. Ltd.

Machinery Photographs



Dual-Spool Take-Up Device



**Pointing out Machine
with Drum**



Bunching Machine



Wire Pointer Machine

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site							
Development Exp.	0.00	98.00	98.00	Capital	0.00	217.78	217.78
Buildings	0.00	196.00	196.00	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	249.72	249.72	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	47.50	47.50	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow				Internal Cash			
Fees & Exp.	0.00	20.00	20.00	Accruals	0.00	0.00	0.00
Franchise & Other				Long/Medium Term			
Deposits	0.00	0.00	0.00	Borrowings	0.00	653.35	653.35
Preliminary & Pre-operative Exp	0.00	5.00	5.00	Debentures / Bonds	0.00	0.00	0.00
Provision for				Unsecured			
Contingencies	0.00	24.00	24.00	Loans/Deposits	0.00	0.00	0.00
Margin Money -							
Working Capital	0.00	218.91	218.91				
TOTAL	0.00	871.13	871.13	TOTAL	0.00	871.13	871.13

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	6.34	9.51	16.34	24.00	0.00	100.00	6.34	0.00	6.34	1.00	0.00
2-3	8.98	11.74	25.32	18.00	0.00	100.00	8.98	0.00	8.98	1.00	0.00
3-4	11.72	14.13	37.04	12.00	0.00	100.00	11.72	0.00	11.72	1.00	0.00
4-5	14.40	16.51	51.44	6.00	0.00	100.00	14.40	0.00	14.40	1.00	0.00
5-6	16.99	18.84	68.43	0.00	0.00	100.00	16.99	0.00	16.99	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	1.38	1.38		1.47	1.47	5.92		3.78%	1.83%	1.25%	822.02	7.41%	4.53	1.10
2-3	1.67	1.52		0.71	0.71	4.03		4.09%	2.32%	1.51%	925.39	7.15%	4.70	1.15
3-4	2.03	1.67	2.03	0.32	0.32	2.92		4.29%	2.70%	1.73%	1056.78	7.15%	4.70	1.21
4-5	2.47	1.84		0.12	0.12	2.22		4.43%	2.97%	1.89%	1188.18	7.14%	4.63	1.28
5-6	2.99	2.03		0.00	0.00	1.75		4.52%	3.16%	2.00%	1319.58	7.14%	4.52	1.42

Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	52.21%
Total BEP (% of Installed Capacity)	55.25%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	29.71%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	46.930

Major Queries/Questions Answered in the Report?

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

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

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

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

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

12. What is the Manufacturing Process of Catenary Wires and Conductors ?

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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 Catenary Wires and Conductors .” provides an insight into Catenary Wires and Conductors market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Catenary Wires and Conductors project. The report assesses the market sizing and growth of the Indian Catenary Wires 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 Catenary Wires and Conductors sector in India along with its business prospects. Through this report we have identified Catenary Wires and Conductors project as a lucrative investment avenue.

Tags

**#catenarywires #RailwayElectrification #overheadcatenary #catenary
#railway #MessengerWire #DetailedProjectReport #businessconsultant
#BusinessPlan #feasibilityReport #NPCS #Startupbusinessideas
#projectconsultancy #businessopportunity #BusinessFeasibilityStudies
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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.

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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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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

Who do we Serve?

- Public-sector Companies
- Corporates
- Government Undertakings
- Individual Entrepreneurs
- NRI's
- Foreign Investors
- Non-profit Organizations, NBFC's
- Educational Institutions
- Embassies & Consulates
- Consultancies
- Industry / trade associations

Sectors We Cover

- Ayurvedic And Herbal Medicines, Herbal Cosmetics
- Alcoholic And Non Alcoholic Beverages, Drinks
- Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin
- Activated Carbon & Activated Charcoal
- Aluminium And Aluminium Extrusion Profiles & Sections,
- Bio-fertilizers And Biotechnology
- Breakfast Snacks And Cereal Food
- Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling

Sectors We Cover *Cont...*

- Bamboo And Cane Based Projects
- Building Materials And Construction Projects
- Biodegradable & Bioplastic Based Projects
- Chemicals (Organic And Inorganic)
- Confectionery, Bakery/Baking And Other Food
- Cereal Processing
- Coconut And Coconut Based Products
- Cold Storage For Fruits & Vegetables
- Coal & Coal Byproduct

Sectors We Cover *Cont...*

- Copper & Copper Based Projects
- Dairy/Milk Processing
- Disinfectants, Pesticides, Insecticides, Mosquito Repellents,
- Electrical, Electronic And Computer based Projects
- Essential Oils, Oils & Fats And Allied
- Engineering Goods
- Fibre Glass & Float Glass
- Fast Moving Consumer Goods
- Food, Bakery, Agro Processing

Sectors We Cover *Cont...*

- Fruits & Vegetables Processing
- Ferro Alloys Based Projects
- Fertilizers & Biofertilizers
- Ginger & Ginger Based Projects
- Herbs And Medicinal Cultivation And Jatropha (Biofuel)
- Hotel & Hospitality Projects
- Hospital Based Projects
- Herbal Based Projects
- Inks, Stationery And Export Industries

Sectors We Cover

Cont...

- Infrastructure Projects
- Jute & Jute Based Products
- Leather And Leather Based Projects
- Leisure & Entertainment Based Projects
- Livestock Farming Of Birds & Animals
- Minerals And Minerals
- Maize Processing(Wet Milling) & Maize Based Projects
- Medical Plastics, Disposables Plastic Syringe, Blood Bags
- Organic Farming, Neem Products Etc.

Sectors We Cover *Cont...*

- Paints, Pigments, Varnish & Lacquer
- Paper And Paper Board, Paper Recycling Projects
- Printing Inks
- Packaging Based Projects
- Perfumes, Cosmetics And Flavours
- Power Generation Based Projects & Renewable Energy Based Projects
- Pharmaceuticals And Drugs
- Plantations, Farming And Cultivations
- Plastic Film, Plastic Waste And Plastic Compounds
- Plastic, PVC, PET, HDPE, LDPE Etc.

Sectors We Cover *Cont...*

- Potato And Potato Based Projects
- Printing And Packaging
- Real Estate, Leisure And Hospitality
- Rubber And Rubber Products
- Soaps And Detergents
- Stationary Products
- Spices And Snacks Food
- Steel & Steel Products
- Textile Auxiliary And Chemicals

Sectors We Cover *Cont...*

- Township & Residential Complex
- Textiles And Readymade Garments
- Waste Management & Recycling
- Wood & Wood Products
- Water Industry(Packaged Drinking Water & Mineral Water)
- Wire & Cable

MARKET RESEARCH REPORTS

Objective

- ⌘ To get a detailed scenario of the industry along with its structure and classification
- ⌘ To provide a comprehensive analysis of the industry by covering aspects like:
 - ⌘ Growth drivers of the industry
 - ⌘ Latest market trends
 - ⌘ Insights on regulatory framework
 - ⌘ SWOT Analysis
 - ⌘ Demand-Supply Situation
 - ⌘ Foreign Trade
 - ⌘ Porters 5 Forces Analysis

Objective

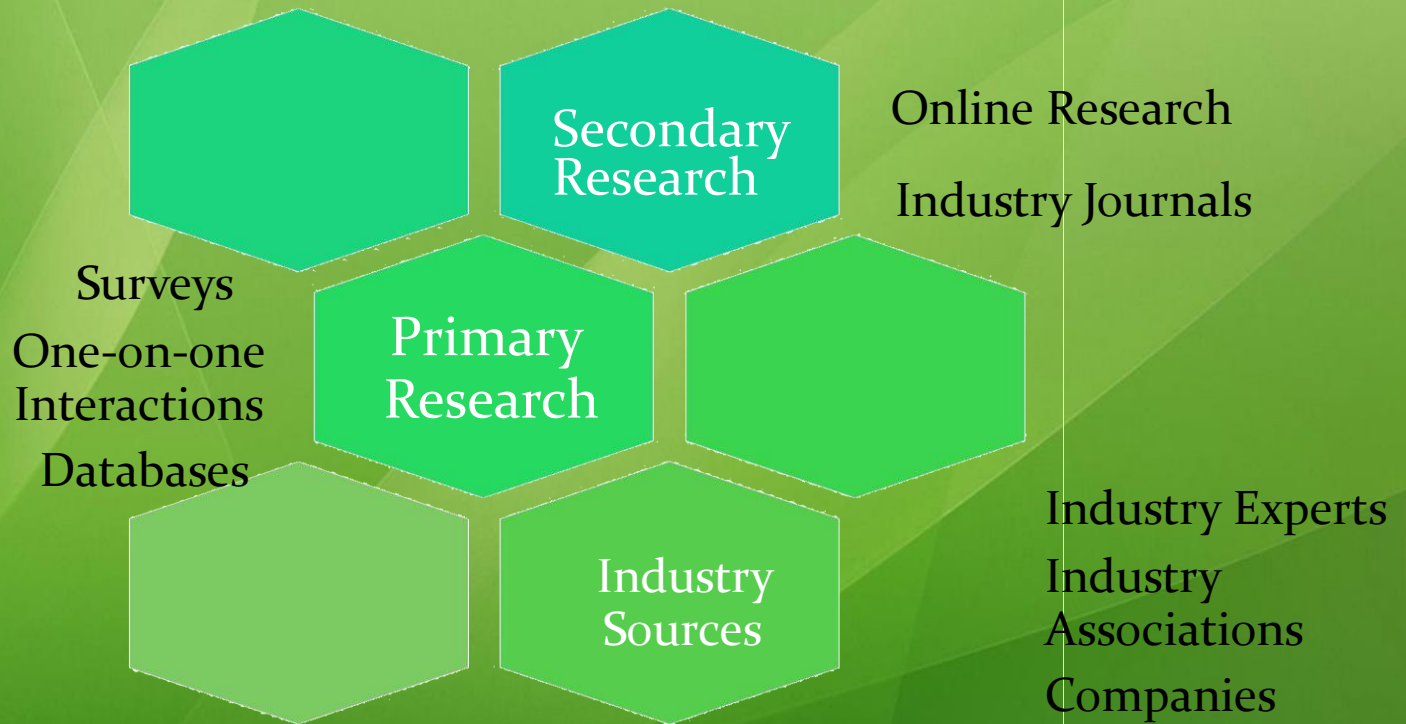
- ∞ To provide forecasts of key parameters which helps to anticipate the industry performance
- ∞ To help chart growth trajectory of a business by detailing the factors that affect the industry growth
- ∞ To help an entrepreneur/manager in keeping abreast with the changes in the industry
- ∞ To evaluate the competitive landscape of the industry by detailing:
 - ∞ Key players with their market shares
 - ∞ Financial comparison of present players

Clientele

- ⌘ Venturist/Capitalists
- ⌘ Entrepreneur/Companies
- ⌘ Industry Researchers
- ⌘ Investment Funds
- ⌘ Foreign Investors, NRI's
- ⌘ Project Consultants/Chartered Accountants
- ⌘ Banks
- ⌘ Corporates

[Click here for list](#)

Data Sources



Scope & Coverage



Our Team

- ⌘ Our research team comprises of experts from various financial fields:
- ⌘ MBA's
- ⌘ Industry Researchers
- ⌘ Financial Planners
- ⌘ Research veterans with decades of experience

Structure of the Report

- 1. Overview
- 2. Market Analysis
 - 2.1 Growth Drivers
 - 2.2 Emerging Trends in the Industry
 - 2.3 Regulatory Framework
 - 2.4 SWOT Analysis
 - 2.5 Herfindahl–Hirschman Index (HHI)
- 3. Market Forecasts
- 4. Key Players

Structure of the Report

Cont

- ⌘5. Key Financials and Analysis
 - ⌘5.1 Contact Information
 - ⌘5.2 Key Financials
 - ⌘5.3 Financial comparison
- ⌘6. Industry Size & Outlook

Take a look at *NIIR PROJECT CONSULTANCY SERVICES* on
#Street View

<https://goo.gl/VstWkd>

Contact us

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Take a look at ***NIIR PROJECT CONSULTANCY SERVICES*** on #StreetView

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THANK YOU

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