



# **Hot Melt Adhesives Production for Corrugated Board.**

## **Investment Opportunities in Manufacturing of Packaging Adhesives**

# Introduction

**The hot melt adhesives are thermoplastic adhesive. This adhesive can melt and flow when heated and become rigid on cooling for providing the sturdy adhesion to the surface. They are commonly known as hot glue. Generally, available in the solid cylindrical sticks having various diameters. They are designed to be melted in an electric hot glue gun. The major driving factor for hot melt adhesives market across the globe is low price and potential to be used as a substitute for the other adhesives.**



**Hot melt adhesives, also known as hot glue, and are in the form of thermoplastic adhesive which is applied using a hot glue gun. The variety of polymers in this class is wide and includes both natural and synthetic ones. It is commonly sold as solid cylindrical sticks of various diameters and can also be applied by spraying or dipping.**

**Hot melt adhesives are generally 100% solids formulations based on thermoplastic polymers. They are solid at room temperature and are activated upon heating above their softening point, at which stage they are liquid, and hence can be processed. After application, they retain the ability to wet the substrate until they solidify. Upon solidification, they return to a physical state that has structural integrity and can function as an adhesive. The adhesive is applied by extruding, rolling, or spraying and joining is carried out immediately after application or after reheating the solidified layer.**

**The variety of polymers in this class is very wide and includes both natural and synthetic polymers.**

**Hot melts are used in industry for a wide range of applications. The packaging industry (manufacturing of packaging from paper, cardboard, and corrugated board) is one of the major users. Hot melts are also used in the printing industry for bonding the spines of books, in the textile industry for bonding appliqué, and in the shoe-making industry for bonding for example shoe soles. The wood processing industry uses hot melts for veneer surrounds and edging. The automotive industry employs hot melts for a host of applications including bonding insulating and cushioning materials, bonding headlight covers into metal frames and for wheel covers. The electronics industry also uses hot melts, for example for bonding coil windings and coil ends.**

**There are several kinds of industrial adhesives available on the market. Hot melt adhesives are polymer based, and are thermoplastic in nature, meaning they are solid at room temperature. These are generally applied as either a molten film or in a series of beads that is converted to a solid form when the materials cool and set. Because hot melt adhesives do not utilize water or solvents, they also have a very fast set time, which makes them the more popular kind of industrial adhesive.**



## Types of Hot Melt Adhesives

The two most popular types of hot melt adhesives are ethylene-vinyl acetate (EVA) and polyolefin, or metallocene.

**1. Ethylene-vinyl acetate (EVA)** – this form of hot melt adhesive works well with paper and cellulosic materials and has a wide range of formulation. These adhesives set quickly and offer strong resistance properties and operate in a moderate range of temperatures. They are used in the packaging, converting, paper, automotive, and assembly industries, and are a generally more affordable kind of hot melt adhesive.

**2. Polyolefin** – these hot melt adhesives are made with a catalyzed metallocene base, and has excellent adhesive qualities and an even faster set speed. It is also extremely resistant and services a vast range of temperatures. These adhesives are also used in the packaging, converting, and assembly industries, but are limited in their range of available formulations; they are also generally more expensive, but definitely more economical on a per-use basis.



# Advantages

**There are several advantages to using hot melt adhesives. Hot melt adhesives have a very fast set speed, and feature moderate resistance properties. Depending on the formulation being used, they also are also applicable in a wide range of temperatures and industries, and feature excellent adhesive qualities. Along with their affordability and quality, these features continue to make hot melt adhesives the more popular form of industrial adhesive currently available on the market.**





# Market Outlook

## Demand : Past and Future

Year	(In '000 Metric Tonne)
1990-91	17
2000-01	81
2001-02	92
2002-03	103
2003-04	115
2004-05	113
2005-06	125
2006-07	137
2007-08	150
2008-09	180
2009-10	200
2010-11	225
2011-12	235
2012-13	250
2013-14	267
2014-15	295
2015-16	328
2016-17	365
2017-18	405
2018-19	450
2019-20	500
2024-25	698

**The global market for hot melt adhesives is gaining significant impetus from the rise in the trading activities, leading to a high demand for packaging. The increasing construction activities across the world is also fueling the need for hot melt adhesives substantially. On the other hand, the volatility in crude oil prices and the easy availability of substitutes are likely to create hindrances in the higher adoption of hot melt adhesives across the world in the years to come.**

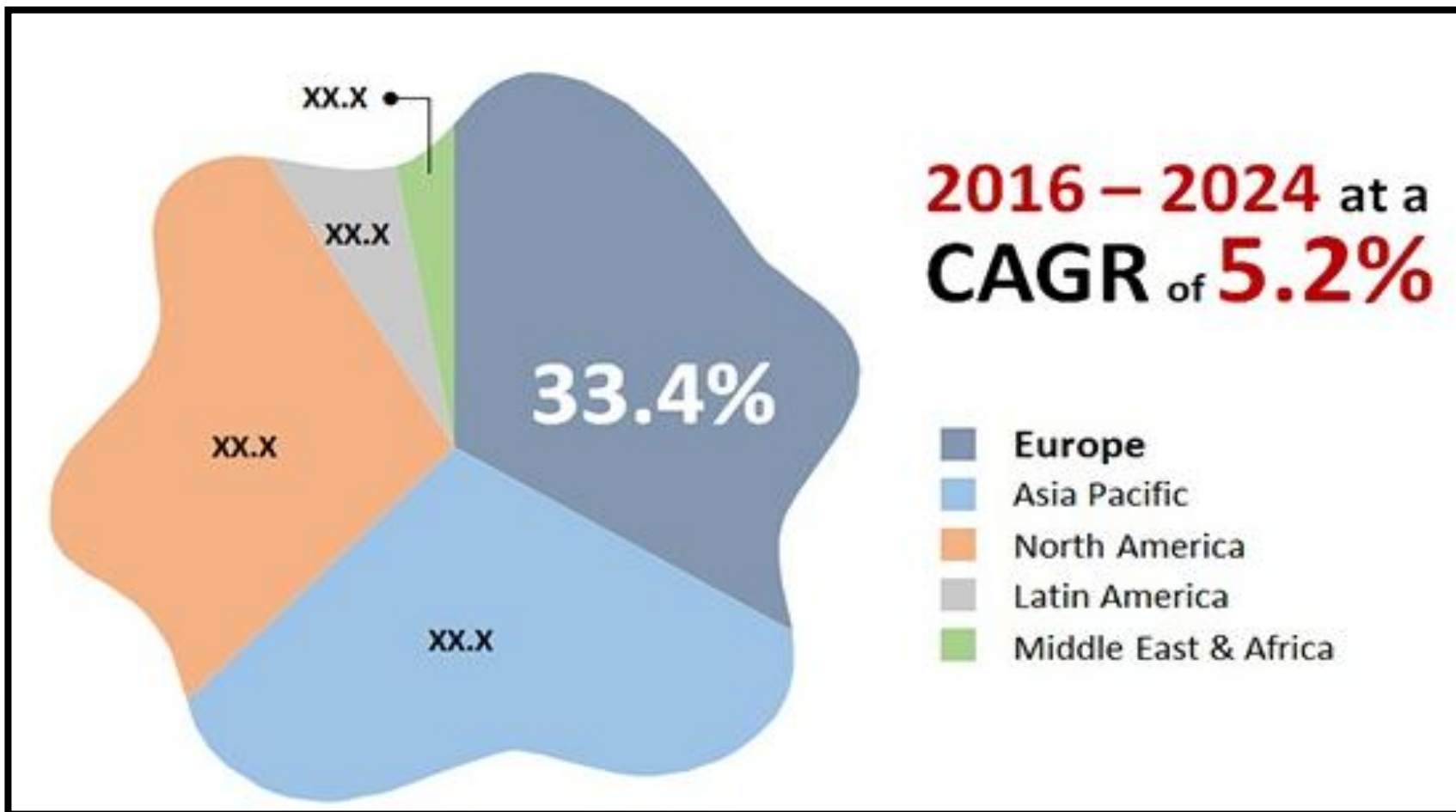
**Overall, the worldwide market for hot melt adhesives is expected to report thriving success over the next few years, rising at a CAGR of 5.20% between 2016 and 2024. The opportunity in this market is projected to increase from US\$6.00 bn in 2015 to US\$9.44 bn by the end of 2024.**

**Strong demand in construction sector is projected to positively influence the global hot melt adhesives market over the forecast period. Growing construction spending in emerging countries such as China, Brazil, India, Malaysia, Indonesia and Vietnam is expected to boost the hot melt adhesives market. Increasing demand for pressure sensitive industries which use hot melt adhesives is forecasted to increase international trade thereby aiding the overall market. Hot melt adhesives ability to instantly bond with reengineered plastics, ceramics and various other types of composites over other conventional adhesives is expected to drive the overall market. Newer industry participants have been crucial for the market growth. Initiatives to overcome supply demand imbalance by developing lucrative applications may help in gaining competitive advantage over the other market players.**

**Continuous demand in this market has led to huge technological advancements, which has further grown the hot melt adhesives market. Growing demand for polyolefin based adhesives is expected to bolster the hot melt adhesives market. Switching from the solvent based conventional adhesives due to its hazardous effects is touted to fuel the hot melt adhesives market growth. Strong adhesion without having to reapply after the application is another advantage over other solvent based adhesives.**



## Global Hot Melt Adhesives Market Share (%), By Region (2015)



**The global hot melt adhesives market has witnessed sustainable growth due to increasing demand of HMAs in various applications such as furniture & woodwork, nonwoven hygiene products etc. Furthermore, the overall market is also being propelled by the swiftly increasing demand from emerging countries such as China and India. Extensive growth in the packaging and nonwoven industry are some of the major factors responsible for this growth. The market is further boosted by technological advancements in hot melt adhesives by various vendors across the globe. One of the prominent trend witnessed by this market include surging use of HMAs in road marking application. However, the global hot melt adhesives market is hampered by lower thermal resistance and volatility in the raw material prices.**

**The hot melt adhesives market has been segmented by type, application and geography exclusively. Based on the types hot melt adhesives commercially available, the market is categorized into ethylene-vinyl acetate, polyolefin, polyurethanes, polyamides and others. Each type varies greatly and the composition is different with different technical specifications. The key user segments automobile industry, construction industry, electronic industry, food and beverage industry, industrial assembly, packaging industry, textile industry, wood working industry and others.**



**However, the preferences of consumers for vehicle designs are changing, leading to the development of new and more sophisticated vehicle designs using lighter gauge metals, plastics, nonferrous metals, and coated steels; thereby creating the need for new assembly methods. This is resulting in the increasing use of hot melts for joining automobile parts.**





# Global Hot Melt Adhesives Market, By Product, Kilo Tons (2013-2023)



**Other major application of hot melt adhesives includes building and construction, paper converting, woodworking, tiles and floor adhesive product, bookbinding, clear case bonding, soap & bubble gum wrapper coating, footwear & leather goods, stock & tapes manufacturing, bottle labeling, automotive headlights and glue sticks.**

**Increasing demand from high speed manufacturing companies is driving the global hot melt adhesive market. Additionally, changing trend of the packaging industry (largest end-user of hot malt adhesive) is expected to increase the global demand for hot melt adhesive products. Also, government policy by EPA (environment protection agency) in the U.S. and European country for using ecofriendly product is further expected to increase the demand for hot melt adhesive products to some extent.**

## **Few Indian major players are as under:**

- **Anabond Ltd.**
- **C I C O Technologies Ltd.**
- **D H Resins & Chemicals Pvt. Ltd.**
- **Golden Chem-Tech Ltd.**
- **H B Fuller India Adhesives Pvt. Ltd.**
- **Henkel Adhesives Technologies India Pvt. Ltd.**

**The automotive industry employs hot-melt adhesives for a host of applications, including bonding insulating and cushioning materials, bonding headlight, fixing cables in the roof liner, bond door sill protectors, and other plastic parts and for wheel covers.**

**The packaging, construction, non-woven, book binding and paper binding, furniture, footwear, and the electronics industries have surfaced as the key end users of hot melt adhesives. The packaging industry has been reporting the most prominent demand for hot melt adhesives and is expected to retain its position as their leading consumer over the coming years. The construction sector is also projected to report a high demand for hot melt adhesives in the near future.**

# Machinery Photographs



**Reaction Kettles**



**Discharge Pump**



**Electric Control Cabinet**



**Cooling Tank**

# 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	55.00	55.00	Capital	0.00	63.64	63.64
Buildings	0.00	83.10	83.10	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	63.06	63.06	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	6.00	6.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	23.75	23.75	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	5.00	5.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	190.91	190.91
Preliminary & Pre-operative Exp	0.00	2.00	2.00	Debentures / Bonds Unsecured	0.00	0.00	0.00
Provision for Contingencies	0.00	6.00	6.00	Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	10.63	10.63				
<b>TOTAL</b>	<b>0.00</b>	<b>254.54</b>	<b>254.54</b>	<b>TOTAL</b>	<b>0.00</b>	<b>254.54</b>	<b>254.54</b>

# 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	6.01	9.53	16.01	24.00	0.00	100.00	6.01	0.00	6.01	1.00	0.00
2-3	8.96	12.04	24.97	18.00	0.00	100.00	8.96	0.00	8.96	1.00	0.00
3-4	11.85	14.56	36.83	12.00	0.00	100.00	11.85	0.00	11.85	1.00	0.00
4-5	14.65	17.03	51.48	6.00	0.00	100.00	14.65	0.00	14.65	1.00	0.00
5-6	17.34	19.43	68.81	0.00	0.00	100.00	17.34	0.00	17.34	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		1.50	1.50	1.92		23.35%	13.05%	8.86%	218.63	50.61%	1.48	0.94
2-3	1.70	1.53		0.72	0.72	1.03		25.84%	17.40%	11.31%	255.06	50.61%	1.58	1.38
3-4	2.08	1.70	2.08	0.33	0.33	0.56		27.52%	20.47%	13.09%	291.50	50.61%	1.59	1.94
4-5	2.54	1.88		0.12	0.12	0.31		28.66%	22.66%	14.39%	327.94	50.61%	1.52	2.57
5-6	3.08	2.08		0.00	0.00	0.16		29.42%	24.22%	15.32%	364.37	50.61%	1.43	5.09

# Project at a Glance

## BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	48.48%
Total BEP (% of Installed Capacity)	52.13%
IRR, PAYBACK and FACR	
Internal Rate of Return .. ( In %age )	27.86%
Payback Period of the Project is ( In Years )	2 Years 3 Months
Fixed Assets Coverage Ratio ( No. of times )	4.495

## Major Queries/Questions Answered in the Report?

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

- 5. What is the structure of the Hot Melt Adhesives Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Hot Melt Adhesives Manufacturing Business?**
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- 8. What are the machinery and equipment requirements for setting up Hot Melt Adhesives Manufacturing plant ?**

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Hot Melt Adhesives Manufacturing plant ?**
- 10. What are the requirements of raw material for setting up Hot Melt Adhesives 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 Hot Melt Adhesives.” provides an insight into Hot Melt Adhesives market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Hot Melt Adhesives project. The report assesses the market sizing and growth of the Indian Hot Melt Adhesives 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 Hot Melt Adhesives sector in India along with its business prospects. Through this report we have identified Hot Melt Adhesives project as a lucrative investment avenue.**

# Tags

Hot Melt Adhesive Production, Production of Hot Melt Adhesives, Hot Melt Adhesives Manufacturing Plant, Hot Adhesive Industry, Hot Melt Adhesive Formulation, How to Make Hot Melt Adhesive, Hot Melt Adhesive Manufacture, Hot Melt Adhesive Manufacturing, Hot Glue, Hot Melt Adhesive Manufacturing Process, Industrial Hot Melt Adhesives Manufacture, Hot Melt Adhesive Production Plant, Hot Melt Glue Production, Adhesive Industry, Adhesives Production Plant in India, Hot Melt Adhesives Industry, How are Adhesives Manufactured? Hot Melt Adhesives for Packaging, Corrugation Adhesive, Adhesives Used in Packaging, Production of Hot Melt Adhesives for Corrugated Board, Corrugating Adhesive, Adhesive for Packaging Industry, Hot Melt Adhesive for Cardboard Packaging, Industrial Adhesives Manufacture, Project Report on Hot Melt Adhesive Manufacturing Industry, Detailed Project Report on Hot Melt Adhesive Manufacturing, Project Report on Hot Melt Adhesive Manufacturing, Pre-Investment Feasibility Study on Hot Melt Adhesive Production, Techno-Economic feasibility study on Hot Melt Adhesive Production, Feasibility report on Hot Melt Adhesive Production, Free Project Profile on Hot Melt Adhesive Manufacturing, Project profile on Hot Melt Adhesive Production, Download free project profile on Hot Melt Adhesive Manufacturing



**Niir Project Consultancy Services (NPCS)**  
**can provide Detailed Project Report on**  
**Hot Melt Adhesives Production for**  
**Corrugated Board.**

**Investment Opportunities in**  
**Manufacturing of Packaging Adhesives**

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<https://goo.gl/zd5N86>

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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

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# **Niir PROJECT CONSULTANCY SERVICES**

**An ISO 9001:2015 Company**



## 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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