









Production of Disposable IV Cannula and Catheters,

Intravenous Catheter Industry,

Medical Plastic Device
Business



<u>Introduction</u>

The catheter is a thin sterilized tube made from medical grade materials and can offer a broad range of medical conditions. Catheters can also be inserted into a body cavity, duct or vessel for drainage, administration of fluids or gasses. Catheters used to access for surgical instruments and also to perform a wide variety of other tasks depending upon the type of catheter.

Intravenous or IV therapy is beneficial for several conditions and medical situations including dehydration, nutrition, shock, surgery, blood transfusions, chemotherapy and medication administration.





A small tube placed into peripheral vein in order to administer medication directly into the circulation is known as a peripheral intravenous (IV) catheter. In addition to medication administration, peripheral intravenous (IV) catheters are used to withdraw blood from veins for testing. Advanced peripheral intravenous (IV) catheters are equipped with additional safety features to avoid needle stick injuries. Due to their direct contact with the circulatory system, peripheral intravenous (IV) catheters are prepared with nonirritant material such as silicone, which do not have side effects even when peripheral intravenous catheters are left in contact with the circulatory system for several months or weeks.



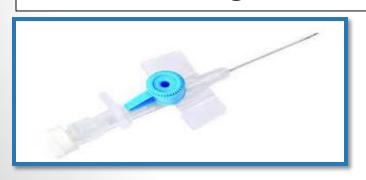


The Indian market for peripheral intravenous catheters (PIVCs) is split up into 2 segments: conventional PIVC and safety PIVC. PIVCs are inserted in veins and arteries. An arterial access site is utilized in patients that require blood pressure monitoring. Firmer catheters are preferred for arterial access. A venous access site is utilized for infusing fluids, providing antibiotic treatment and other standard procedures. In 2016, safety PIVCs represented 12% of the total market for PIVCs, with the remaining balance represented by conventional PIVCs. Growth in the unit sales of advanced materials PIVCs is expected to drive gains in the share of safety PIVCs over the forecast period.





Peripheral intravenous (IV) catheters are commonly used for vascular access. Medicine administered through a peripheral intravenous (IV) catheter enters directly into the blood flow and thus shows rapid action. With the advantage of rapid action, peripheral intravenous (IV) catheters are commonly used in emergency patients, surgical patients and patients suffering from vomiting, pediatric patients, unconscious patients and the elderly population, who face difficulty in swallowing medicines. Factors such as aging of population and advancement in surgical and treatment technologies resulting in increased surgical procedures are driving the global peripheral intravenous (IV) catheters market towards growth.





On the other hand, factors such as high cost of closed catheters, painful insertion and need of trained medical professional to use peripheral intravenous (IV) catheters are restraining the growth of the global peripheral intravenous (IV) catheters market. Based on the type of catheters commercially available, the global peripheral intravenous (IV) catheters market is segmented as follows:

- Integrated/Closed catheters
- Peripheral insertion catheters

Use of integrated/closed intravenous (IV) catheters is rapidly increasing over conventional intravenous (IV) catheters due to capacity of integrated catheters to apply power while injecting medicine in the circulation. Integrated intravenous (IV) catheters are used for injecting contrast media into the circulation system prior to computed tomography (CT) imaging.



On the other hand, high cost of the integrated peripheral intravenous (IV) catheters is restraining the growth of integrated peripheral intravenous (IV) catheters market in economically backward markets.

The increasing incidences of trauma (accidents and burns) cases, the prevalence of chronic diseases, and cases of hospital-acquired infections is attributing to the growth of the global IV catheters market.

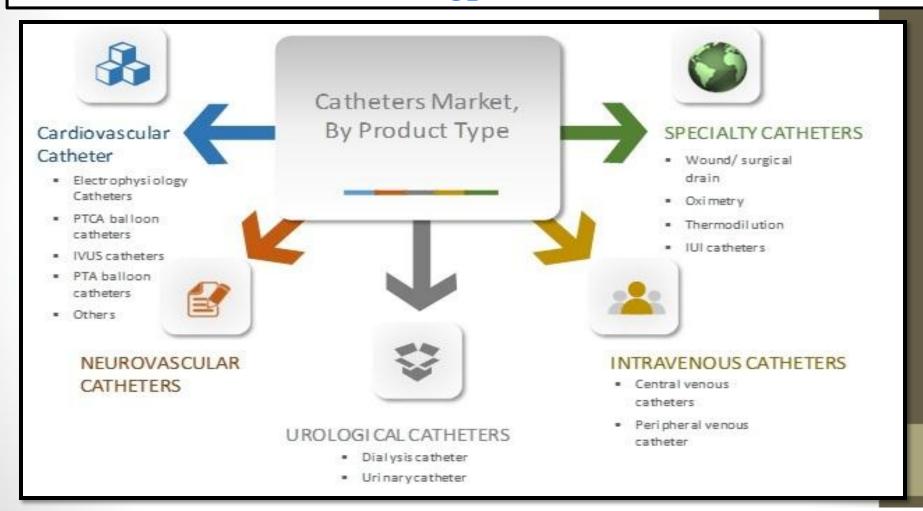
The global peripheral intravenous catheter market is expected to observe steady growth in 2016, reaching beyond US\$ 3.8 Bn by 2016 end. Wide adoption of catheterisation techniques in patient examination, diagnosis, and treatment is anticipated to fuel the demand for PIVC. Rising disease prevalence will play a key role in driving the market growth. North America is likely to remain the largest market; Asia Pacific is expected to emerge at the fastest rate.



Soaring disease prevalence will remain a prominent factor driving the demand for catheterisation, in turn pushing the market for PIVC. Apart from its usage in drug administration, increasing adoption of peripheral intravenous catheter in body fluid collection during a patient's physical examination, is also identified to be a key driver to market growth. Prevalence of infections and epidemics are expected to further spur the demand for catheters in hospitals, clinics, ambulatory surgical centres, home healthcare units, and other healthcare centres. In addition to constantly enhancing healthcare infrastructure, the healthcare spending of consumers is also on the rise, which will favour the market growth.



Global Catheter Market Segmentation, By Product Type





By product type, the global peripheral intravenous catheters market is segmented into short PIVC and integrated/closed PIVC. Among these, integrated/closed PIVC segment is expected to register fastest CAGR of 8.9% during the forecast period. Short PIVC segment is expected to contribute a maximum share to the global peripheral intravenous catheters market. Non-ported PIVC product type sub-segment is expected to register fastest CAGR over the forecast period.

Globally, catheters market is driven mainly due to the continuous rise in population of cardiovascular disorders patients across the world. Diabetes, tachycardia, hypertension are no more rare among individuals.

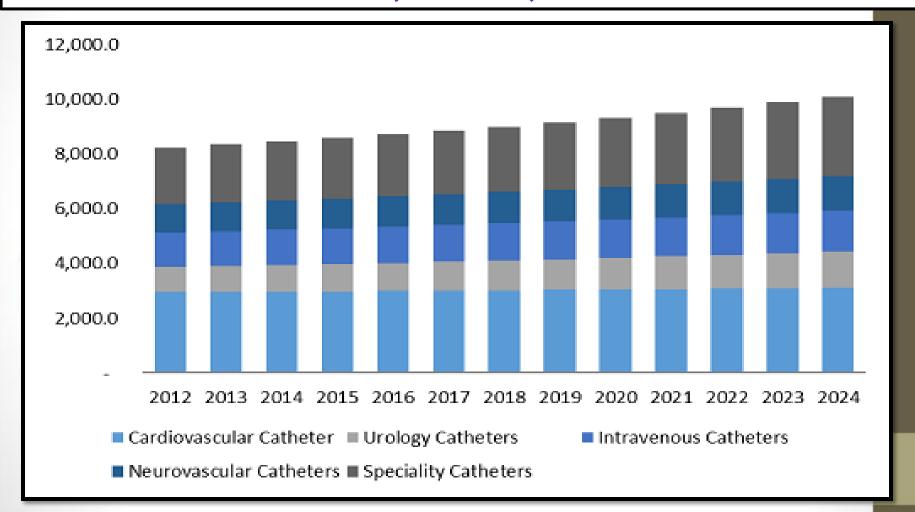


At present, each country has shown the marked rise in diabetes and hypertension patients supported by various lifestyle factors which include smoking, drinking, and sedentary lifestyle. These factors increasing demand for minimally invasive surgeries which propel the growth of global catheter market. In addition, growing aging population, favorable reimbursement policies and increasing demand for advanced urinary catheters are major factors leading to increased demand for urinary catheters, thereby fuelling the growth of the catheter market.





U.S. Catheters Market size, by Product, 2012- 2024 (USD Mn)





Cannula is a thin tube which is inserted in to the human body veins or body cavity to introduce medication, removal off fluid or to insert the surgical instrument. Cannula is usually surrounded by the trocar needle with inner and outer surface, which allows puncturing of the body in order to get enough space, it is also named as intravenous IV cannula. The normal cannulas size mainly ranges around 14 - 24 gauge. There are various types of cannula such as venous cannula, arterial cannula, nasal cannula or an oral-nasal cannula. The venous cannula is used for inserting in veins for the removal of blood samples and for administering medicines.



An arterial cannula is used to insert in the artery of human body commonly in the radial artery during major operations such as bypass surgery and are also used to measure beat to beat blood pressure this is a painful procedure that leads to stress and anxiety. The nasal cannula or the oral nasal cannula used in the insertion into nostrils and mouth and also for delivering oxygen or to measure the airflow into the nose.

Uses

A venous cannula is inserted into a vein, primarily for the administration of intravenous fluids, obtaining blood samples and administering medicines. An arterial cannula is inserted into an artery, commonly the radial artery, and is used during major operations and in critical care are as to measure beat-to-beat blood pressure and to draw repeated blood samples.

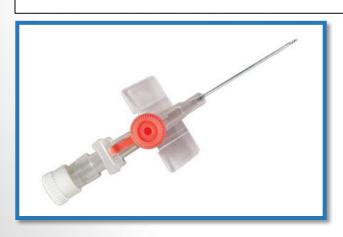


IV Cannula is amongst the most extensively used medical disposables. Healthcare professionals represent the largest end-use market for cannulae. Worldwide market for IV Cannula is driven by an aging population and related rise in healthcare demand. There are many manufacturer of IV Cannula in the country, out of which about 5-6 units are under small-scale sector. The Present demand of Disposable IV Cannula is being adequately met by indigenous production. In increasing awareness in health care and like diseases and improvement in per capita income is expected to create further growth in demand of disposable IV Cannula.





IV Cannula have lower coefficient of thermal expansion and hence have greater accuracy. It is unbreakable. The IV cannula market is estimated to grow at a CAGR of 6.2% from 2017 to 2022 to reach USD 13.63 Billion by 2022. The base year considered for the study is 2017 and the forecast for the market size is provided for the period between 2017 and 2022. The global peripheral intravenous catheter market was valued at US\$ 3,500 Mn in 2014. North America was the largest market for peripheral intravenous catheters, accounting for over 45% revenue share of the overall market in 2014, followed by Europe with around **27%** share.





Cannulae

Demand :	Past and Future
Year	(In Million Number)
1990-91	40
2000-01	151
2001-02	171
2002-03	192
2003-04	216
2004-05	241
2005-06	269
2006-07	300
2007-08	335
2008-09	375
2009-10	420
2010-11	417
2011-12	529
2012-13	595
2013-14	670
2014-15	754
2015-16	845
2016-17	860
2017-18	1080
2018-19	1200
2019-20	1365
2024-25	2745

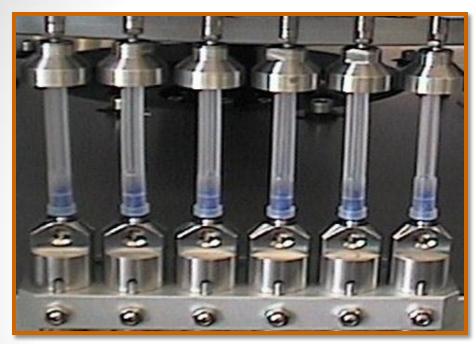


The demand for peripheral I.V. catheters is increasing, due to increasing prevalence of chronic and lifestyle associated diseases. The prevalence of chronic diseases, such as heart disease, cancer, stroke, respiratory disease and diabetes, is increasing due to the alteration in lifestyle and lack of access to preventive care.

The increasing aging population is propelling the growth of the global peripheral I.V. catheter market, as the geriatric population is more susceptible to diseases, sickness and syndromes, due to less regenerative abilities. This leads to the increased demand for drugs, thus leading to the growth in adoption of peripheral I.V. catheters for delivering drugs, supplying nutrients and for the treatment of various diseases. Moreover, the increase in healthcare expenditure leads to an increased affordability and accessibility of the treatment for various conditions.

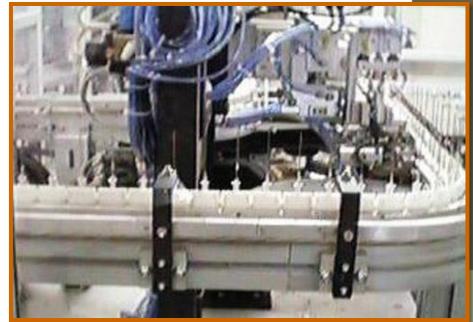


Machinery Photographs



Needle Machinery

Hypodermic Needle Assembly Machine







IV Cannula Assembly Line



Blister Packing Line



						(` in lacs)
F PROJEC	CT		MEANS	OF FINAN	ICE	
		Total	Particulars	Existing	Propose d	Total
	_	175.00	Capital	0.00	1925.96	1925.96
0.00	688.50	688.50	Share Premium	0.00	0.00	0.00
0.00	5919.50	5919.50	Other Type Share Capital	0.00	0.00	0.00
0.00	15.00	15.00	Reserves & Surplus	0.00	0.00	0.00
0.00	95.50	95.50	Cash Subsidy	0.00	0.00	0.00
0.00	50.00	50.00	Internal Cash Accruals	0.00	0.00	0.00
0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	5777.88	5777.88
0.00	8.00	8.00	Debentures / Bonds	0.00	0.00	0.00
0.00	590.00	590.00	Unsecured Loans/Deposits	0.00	0.00	0.00
0.00	162.34	162.34				
0.00	7703.84	7703.84	TOTAL	0.00	7703.84	7703.84
	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 688.50 0.00 5919.50 0.00 15.00 0.00 95.50 0.00 50.00 0.00 0.00 0.00 8.00 0.00 590.00 0.00 162.34	Existing Proposed Total 0.00 175.00 175.00 0.00 688.50 688.50 0.00 5919.50 5919.50 0.00 15.00 15.00 0.00 95.50 95.50 0.00 50.00 50.00 0.00 0.00 0.00 0.00 8.00 8.00 0.00 590.00 590.00 0.00 162.34 162.34	Existing Proposed Total Particulars 0.00 175.00 Capital 0.00 688.50 688.50 Share Premium 0.00 5919.50 Share 0.00 5919.50 Capital 0.00 15.00 Reserves & Surplus 0.00 95.50 Cash Subsidy 0.00 50.00 Internal Cash Accruals Long/Medium Term 0.00 0.00 Borrowings 0.00 8.00 Debentures / Bonds Unsecured 0.00 590.00 Loans/Deposits 0.00 162.34 162.34	Existing Proposed Total Particulars Existing 0.00 175.00 175.00 Capital 0.00 0.00 688.50 688.50 Share Premium 0.00 0.00 5919.50 5919.50 Capital 0.00 0.00 15.00 15.00 Reserves & Surplus 0.00 0.00 95.50 95.50 Cash Subsidy 0.00 0.00 50.00 Internal Cash Accruals Long/Medium Term 0.00 0.00 0.00 8.00 Borrowings 0.00 0.00 8.00 8.00 Debentures / Bonds Unsecured 0.00 0.00 590.00 590.00 Loans/Deposits 0.00	PROJECT MEANS OF FINANCE Propose Company Compa



Year	Annu	alised	Book Value	Debt	Divide nd		ined ings	Payou t	Probab le Market Price		Yield Price/ Book Value
	EDC.	OFDO	Des	2h	Per	Dar)h			No.of	
	EPS	CEPS	Per S	Share	Share	Per S	Share			Times	
	`	`	`	`	`	%	`	%	`		%
1-						100.0					
2	5.14	10.64	15.14	24.00	0.00	0	5.14	0.00	5.14	1.00	0.00
						100.0					
2-3	7.42	12.12	22.56	18.00	0.00	0	7.42	0.00	7.42	1.00	0.00
						100.0					
3-4	9.75	13.77	32.32	12.00	0.00	0	9.75	0.00	9.75	1.00	0.00
						100.0					
4-5	12.10	15.53	44.42	6.00	0.00	0	12.10	0.00	12.10	1.00	0.00
						100.0					
5-6	14.43	17.37	58.84	0.00	0.00	0	14.43	0.00	14.43	1.00	0.00



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				sits Debt	Lquity	h	Wort						ver Ratio	ivatio
	Individ ual	Cumula tive	Over all					GPM	PBT	PAT	Net Contri bution			
	(Num	ber of ti	mes)	`	ber of es)	%	%	%	%	%		%		
Initi al				3.00	3.00									
1-								22.86		11.71	4081.	48.24		
2	1.50	1.50		1.58	1.58	1.85		%	14.08%	%	00	%	1.02	0.95
								26.91		14.48	4730.	47.92		
2-3	1.71	1.60		0.80	0.80	1.01		%	20.62%	%	17	%	1.14	1.52
								29.66		16.66	5405.	47.92		
3-4	1.98	1.72	2.00	0.37	0.37	0.54		%	25.26%	%	17	%	1.18	2.18
								31.57		18.36	6080.	47.91		
4-5	2.33	1.85		0.14	0.14	0.27		%	28.64%	%	17	%	1.17	2.91
								32.90		19.71	6755.	47.91		
5-6	2.76	2.00		0.00	0.00	0.11		%	31.13%	%	17	%	1.12	7.05

Debt / Equity Total Retur

Depo Equity Wort Net

as-

Net n on

Asset Curre

Turno Ratio

nt

S

Profitability Ratio

B	F	P

DLF	
BEP - Maximum Utilisation Year	

IRR, PAYBACK and FACR

Internal Rate of Return .. (In %age)

Payback Period of the Project is (In Years)

Fixed Assets Coverage Ratio (No. of times)







26.56%

34.94%

26.81%



2 Years 3



Major Queries/Questions Answered in the Report?

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

 Manufacturing plant?



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



- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up IV Cannula and Catheters Manufacturing plant?
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- 13. What is the total size of land required for setting up IV Cannula and Catheters Manufacturing plant?
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- 22. What are the Project financials of IV Cannula and Catheters Manufacturing Business?



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- Annexure 35 :: Projected Pay-Back Period and IRR



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





IV Catheter Production, Manufacturing Business of Medical Disposables, IV Cannula Manufacturing Plant, IV Catheter Manufacturing, Catheter Manufacturing, Project Report on Manufacturing Medical Plastic Catheters, Intravenous Catheter Industry, IV Cannula, IV Cannulae, IV Canula, Manufacture Intravenous Catheter, Medical Disposable Product, IV Cannula Manufacture, Cannula, Catheter Manufacture, Infusion Therapy Product, How Catheter is made, I.V. cannula manufacturing, Project report for manufacturing of I.V. Cannula, IV Cannula Manufacturing Unit, Disposable Medical Devices manufacture, Production of IV Cannula, IV Cannula Production, Production of IV Catheter, I.V. Cannula Manufacturing Plant, Infusion Set Manufacture, Production Plant of I.V. Cannula, IV Cannula Manufacture in India, Catheter Manufacturing, Medical Device Manufacturing, Catheter Manufacturing Process, Disposable syringe with Needle, I.V. Catheter Manufacture, IV Solutions Factory, Production of I.V. Catheter, Medical Disposable Products, How to Start IV Catheter Production Plant, Catheter Production,



Project Report on Manufacturing Medical Plastic Catheters Syringes, Start a Disposable Syringes Manufacturing Business, Peripheral Intravenous Cannula, IV Catheter Manufacturing project ideas, Projects on Small Scale Industries, Small scale industries projects ideas, IV Catheter Manufacturing Based Small Scale Industries Projects, Project profile on small scale industries, How to Start IV Cannula Production Industry in India, IV Catheter Manufacturing Projects, New project profile on IV Catheter Manufacturing industries, Project Report on IV Catheter Manufacturing Industry, Detailed Project Report on IV Cannula Production, Project Report on IV Cannula Production, Pre-Investment Feasibility Study on IV Cannula Production, Techno-Economic feasibility study on IV Cannula Production, Feasibility report on IV Cannula Production, Free Project Profile on IV Cannula Production, Project profile on IV Cannula Production, Download free project profile on IV Catheter Manufacturing, Startup Project for IV Catheter 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
Production of Disposable IV Cannula
and Catheters,
Intravenous Catheter Industry,
Medical Plastic Device Business

See more

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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:

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- 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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NIR 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



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