

# **Ductile Iron Pipe Fittings Production**

## for Water & Sewage.

## **DI Pipes Fittings Manufacturing Business**



Opportunity





#### **Ductile Iron Pipe Fittings**

Ductile iron pipes are available in a range of diameters from 80mm to 1600mm and are suitable for both potable water transmission, distribution and sewerage. Ductile iron pipes are simple to joint, can be laid in all weather conditions and often without the need for selected backfill. Its high safety factor and ability to accommodate ground movement make it the ideal pipeline material for a wide range of applications.

Ductile's high degree of dependability is primarily due to its high strength, durability, and impact and corrosion resistance. Ductile Iron has minimum strength requirements of 60,000 psi tensile strength, 42,000 psi yield strength, and 10 percent minimum elongation.



Designed and manufactured to the industry's most stringent standards, Ductile Iron Pipe resists damage during shipping and handling, and, once installed, withstands the most demanding operating conditions, including water hammer, frozen ground, deep trenches, areas of high water table and heavy traffic, river crossings, pipe on supports, rocky trenches, and areas of shifting, expansive, and unstable soils.





Ductile iron pipe is a pipe made of ductile cast iron commonly used for potable water transmission and distribution. This type of pipe is a direct development of earlier cast iron pipe, which it has superseded. The ductile iron used to manufacture the pipe is characterized by the spheroidal or nodular nature of the graphite within the iron. Ductile Iron pipes are pipes made of ductile iron. They are commonly used for potable water distribution and the pumping of slurries, sewage and process chemicals. Ductile iron is a spheroidized graphite cast iron. Ductile iron pipes are a direct development of earlier cast iron pipes which it has now almost replaced. The high level of dependability on ductile iron pipes is due to its various superior properties and it is a most sought after pipe for many applications.



#### **Benefits of Ductile Iron Pipe**

The strong, safe, and reliable product has stood the test of time. Modern Ductile Iron Pipe is made to last over 100 years, and is an environmentally preferable product due to its recycled content, energy savings while in service, its durability, its own recyclability and because of the commitment of the Ductile Iron Pipe industry.





### **Market Outlook**

The India market for Ductile Iron Pipe is expected to reach about 930.73 million USD by 2022 from 105.29 million USD in 2017. The ductile iron pipe market can be segmented based on type of joint, application, and region. Based on type of joint, the ductile iron pipe market can be classified into flanges and spigot & socket. Flanges are flat rings around the end of pipes that mate with an equivalent flange from another pipe. The two are held together by bolts usually passed through holes drilled through the flanges. Ductile iron pipes are also durable and can withstand extreme ranges in temperature. New and advanced technologies are emerging in order to reduce the costs and improve the quality of ductile iron pipes.



Market Segment by Regions, regional analysis covers are North America (USA, Canada and Mexico), Europe (Germany, France, UK, Russia and Italy), Asia-Pacific (China, Japan, Korea, India and Southeast Asia), South America (Brazil, Argentina, Columbia etc.) and Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa) Ductile Iron Pipe Sector, Ductile pipe market has witnessed strong demand in the market owing to growth in water infrastructure activities and high demand in commercial sectors. The primary growth drivers for ductile iron pipes in India have been poor access of safe drinking water, poor sanitation coverage in the country. Ductile iron pipes for water management (in terms of revenue) dominated the market among all the sectors. Ductile iron pipe for water management contributed approximately ~% of the total revenue. DI pipes used for sewerage purpose contributed to ~%.



### **Machinery Photographs**



#### HYDROSTATIC PRESSURE TESTING MACHINE



LOST FOAM CASTING MACHINES





#### LOST FOAM SPECIAL EPS BATCH PRE-EXPANDER





SILOS SYSTEM



PROJECT AT A GLANCE						(` in l	acs)
0.051.0	OF PROJEC	<b>`</b> т		MEANS	OF FINA		
00310						NCE	
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development							
Exp.	0.00	82.50	82.50	Capital	0.00	236.62	236.62
Buildings	0.00	391.00	391.00	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	254.28	254.28	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	15.00		Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	91.00	91.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00			Internal Cash Accruals	0.00		
Franchise & Other Deposits	0.00			Long/Medium Term Borrowings	0.00		
Preliminary& Pre-operative Exp	0.00	8.00		Debentures / Bonds	0.00	0.00	0.00
·				Unsecured			
Provision for Contingencies	0.00	24.00	24.00	Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	45.68	45.68				
TOTAL	0.00			TOTAL	0.00	946.46	946.46
-				-			



Year	Annualised		Book Value	Debt	Dividen d	Retained Earnings		Payout Probabl e Market Price		P/E Ratio	Yield Price/ Book Value
	EPS CEPS		Per	Share	Per Share	Per S	Share			No.of Times	
	×	`	`	`	``	%	`	%	`		%
1-2	4.78	8.89	14.78	24.00	0.00	100.00	4.78	0.00	4.78	1.00	0.00
2-3	7.96	11.57	22.74	18.00	0.00	100.00	7.96	0.00	7.96	1.00	0.00
3-4	11.04	14.21	33.78	12.00	0.00	100.00	11.04	0.00	11.04	1.00	0.00
4- 5	13.98	16.77	47.77	6.00	0.00	100.00	13.98	0.00	13.98	1.00	0.00
5-											
6	16.77	19.23	64.53	0.00	0.00	100.00	16.77	0.00	16.77	1.00	0.00



Year	D. S. C. R.			Debt / - Deposi ts Debt		Net	Return on Net Worth		Profita	ability R	atio		Assets Turnov er Ratio	nt
		Cumulati ve	Overal I					GPM	PBT	PAT	Net Contrib ution	P/V Ratio		
	(Num	ber of tim	nes)	•	ber of es)	%	%	%	%	%		%		
Initial				3.00	3.00									
1-2	1.31	1.31		1.62	1.62	1.98		23.48%	11.65%	8.05%	961.30	68.47 %	1.39	0.90
2-3	1.65	1.47		0.79	0.79	1.06		27.30%	17.63%	11.50%	1121.3 4	68.46 %	1.52	1.36
3-4	2.04	1.65	2.03	0.36	0.36	0.56		29.87%	21.80%		1281.5 2	68.46 %	1.54	1.99
4- 5	2.50	1.83		0.13	0.13	0.28			24.74%	15.71	1441.7 1			2.72
5- 6	3.05	2.03		0.00	0.00	0.13			26.80%	16.95				6.11



### BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	57.22%
Total BEP (% of Installed Capacity)	60.85%
IRR, PAYBACK and FACR	
,	
Internal Rate of Return (In %age)	26.67%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	4.425



### **Major Queries/Questions Answered in the Report?**

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



5. What is the structure of the Ductile Iron Pipe Fittings Manufacturing Business and who are the key/major players ?

- 6. What is the total project cost for setting up Ductile Iron Pipe Fittings Manufacturing Business?
- 7. What are the operating costs for setting up Ductile Iron Pipe Fittings Manufacturing plant ?
- 8. What are the machinery and equipment requirements for setting up Ductile Iron Pipe Fittings Manufacturing plant ?



9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Ductile Iron Pipe Fittings Manufacturing plant ?

- 10. What are the requirements of raw material for setting up Ductile Iron Pipe Fittings Manufacturing plant ?
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Ductile Iron Pipe Fittings Manufacturing Business?
- 12. What is the Manufacturing Process of Ductile Iron Pipe Fittings?



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



# Tags

**#Production\_of\_Ductile\_Iron\_Pipe\_Fittings, #Ductile\_Iron\_Pipe\_Fitting, #Ductile\_Iron\_Pipes, Ductile Iron Pipe Manufacturing Process,** of Manufacturing Process Ductile Iron Pipe, **#Ductile\_Iron\_Pipe\_Production\_in\_India, Ductile Iron Pipe Industry,** Fittings Production Ductile India, Iron Pipe in **#Production of Ductile Iron Pipe Fittings for Water & Sewage,** Ductile Iron Pipe Fittings Industry in India, Ductile Iron Pipe and Fittings, Ductile Iron Pipe Making Business, Ductile Iron Pipe **Production, Production of Pipes and Fittings, Ductile Iron Pipe** Manufacturing Process Pdf, #Ductile\_Iron\_Fittings\_Manufacture, Manufacturing of Ductile Iron, Ductile Iron Pipe Fittings for Water & Sewage, Project Report on Ductile Iron Pipe Manufacturing Industry,



#Detailed\_Project\_Report\_on\_Production\_of\_Ductile\_Iron\_Pipe\_Fitting s\_for\_Water\_&\_Sewage,Project Report on Production of Ductile Iron Pipe Fittings for Water & Sewage, Pre-Investment Feasibility Study on Production of Ductile Iron Pipe Fittings for Water & Sewage, #Techno\_Economic\_feasibility\_study\_on\_Production\_of\_Ductile\_Iron\_P ipe\_Fittings\_for\_Water\_&\_Sewage,

#Feasibility\_report\_on\_Production\_of\_Ductile\_Iron\_Pipe\_Fittings\_for\_ Water\_&\_Sewage,

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Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Ductile Iron Pipe Fittings Production for Water & Sewage. DI (Ductile Iron) Pipes Fittings Manufacturing Business Opportunity

# See more https://goo.gl/d1nrUL https://goo.gl/6bBLEh







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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......<u>Read more</u>



# **Contact us**

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

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