

Bleaching Powder Manufacturing Business.

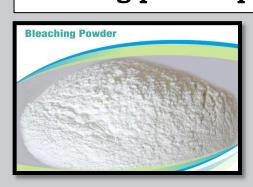
Production of Calcium Chlorohypochlorite.

Profitable Chemical Business Ideas for Entrepreneurs



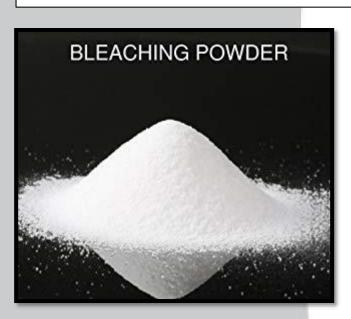
Introduction

Bleaching powder is also called calcium chlorohypochlorite because it is considered as a mixed salt of hydrochloric acid and hypochlorous acid. Bleaching Powder is an oxidizing agent and the activity is measured in terms of available chlorine, which is the same weight as that of gaseous or liquid chlorine that would exert the same action as the chlorine compound. Bleaching powder is used to whiting or removing the natural color of textile fibers, yarns, wood pulp, paper and other products by chemical reaction and also is an additive in the scouring powder preparation as germicide.





Bleacing powder is calcium hypochlorite (Ca (OCl) 2). It is a one of the major chemical industry in the world. Limestone and chlorine gas are used as raw materials to manufacture bleaching powder which is used as a disinfectant and as an oxidizing agent. Bleaching powder show different reactions.





Uses of bleaching powder

- As a bleach.
- As a disinfectant. As an example, in water treatment processes.
- To manufacture chloroform

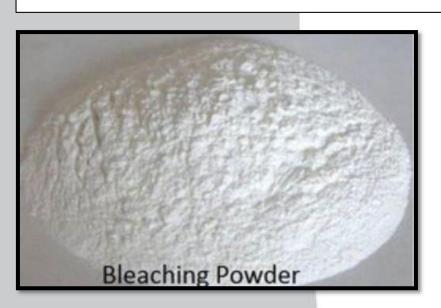
It is used

- As a disinfectant and germicide especially in the sterilization of drinking water.
- For manufacture of chloroform.
- For making wool unshrinkable.
- As an oxidizing agent in industry.
- Mainly as bleaching agent for cotton, linen and wood pulp.



Market Outlook

Bleaching powder is mainly an essential item as a bleaching agent and as a disinfectant. The major use is in the paper industry, textile industry, and oil industry. In addition, chemical industry is the major industrial consumer of this product. Sometimes it is also used as a source of chlorine in the preparation of chloroform. The product has good market potential.





The bleaching powder is one of the widely used materials as disinfectant. It has also got a huge demand as a bleaching agent. The textile industry, paper industry along with the oil industries are the major consumers of bleaching powders. The chemical industries are also among the major consumers of this product. Other than the use as a bleaching agent and a disinfectant, it is also used in the preparation of chloroform.





Projected Demand for Bleaching Power(Tonnes)

Year	Projected Demand
2009	93
2010	103
2011	113
2012	124
2013	137
2014	150
2015	166
2016	182
2017	200
2018	220
2019	242
2020	267



The global bleaching powder market was valued at around US\$ 5 Bn in 2016 and is anticipated to expand at a CAGR of more than 3% from 2018 to 2026. Expansion in the global bleaching powder market is driven by the rise in demand for fresh water and increase in demand for bleaching powder in pulp & paper applications. The bleaching powder market in Asia Pacific is anticipated to expand at a CAGR of around 4% during the forecast period. Rapid urbanization in developing economies such as China and India is estimated to propel the bleaching powder market in the region.



Major Players in Bleaching Powder market are:

Lords Chloro Alkali Limited, GACL, Vertex Chemical, Hill Brothers Chemical, HASA, Sree Rayalaseema Hi-Strength, Hypo Ltd, Clorox, Kuehne, OxyChem, Swastik Chemicals, Olin Chlor Alkali, Aditya Birla Chemicals, Suvidhi Industries





Calcium Hypochlorite Market

Calcium hypochlorite is one of the widely used chemicals for water sanitation across the globe that helps prevent water related diseases such as cholera and typhoid. It is extensively available across the globe and is also used for cleaning public pools. Calcium hypochlorite offers a favorable cost-to-performance ratio, as it provides protection from germs and is cost effective. Most of the calcium hypochlorite available in the industry has 60% of chlorine content by mass. Apart from water treatment, calcium hypochlorite is employed in various applications.

It is sold as a white, solid concentrate in granular, tablet or briquette form with a distinct chlorine odor. Calcium hypochlorite is widely used as a disinfectant and bleaching agent. It is considered more stable and has greater available chlorine than sodium hypochlorite (liquid bleach).



These include house cleaners & detergents, agrochemicals, pulp & paper, food & beverage, and others. The global calcium hypochlorite market is expected to expand at a significant pace driven by the increase in demand in the water treatment application. The calcium hypochlorite market was valued at about US\$ 5 Bn in 2017 and is projected to expand at a CAGR of more than 3% during the forecast period.

The demand for calcium hypochlorite is likely to increase, as a significant amount of raw water and wastewater requires treatment. Calcium hypochlorite is widely used in wastewater and water treatment processes to remove undesirable compounds and microbial contaminants from the water. Industries are focusing on water and wastewater recycling due to increasing environmental concerns and water consumption.



The rise in demand for water is driven by rapid industrial developments and urbanization. The inadequate availability of freshwater resources is leading regulatory authorities to enforce regulations on water consumption and discharge of wastewater. The increasing awareness about the need for water treatment and recycling is expected to increase market growth during the forecast period further.





Calcium Hypochlorite market Revenue, By Region, 2018 (US\$ Mn)



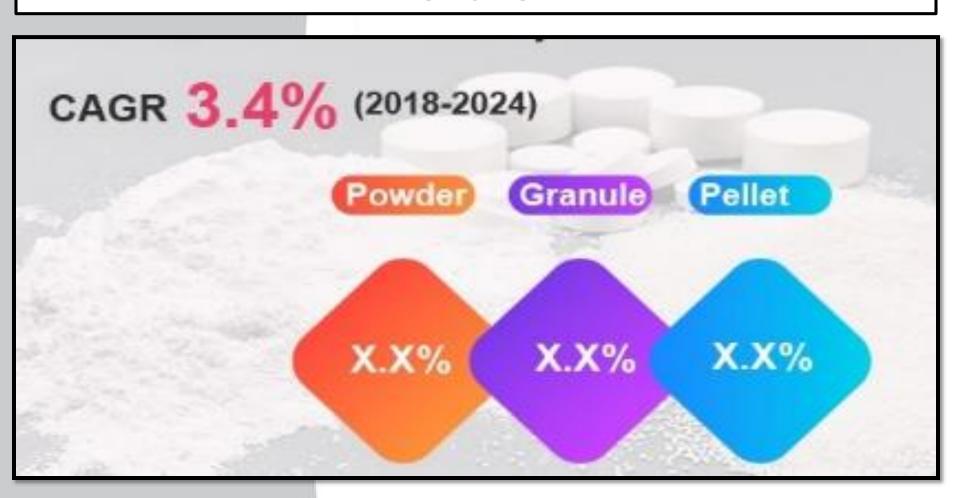


Calcium hypochlorite is mainly applied in water treating agent production and bleach production. And water treating agent application and bleach application consumed 64.00% and 25.36% of the global consumption of calcium hypochlorite respectively in 2017. With the development of economy, the downstream application industries will need more calcium hypochlorite. So, calcium hypochlorite has a huge market potential in the future.





Global Calcium Hypochlorite Market by Share

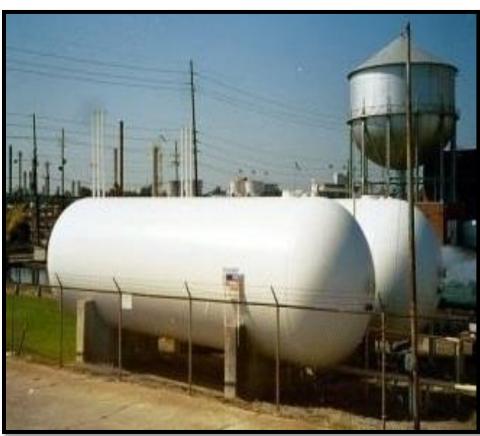




Machinery Photographs



Close Jacketed Reactor Vessel



Chlorine Gas Storage Cylinder





Reduction gear box



Water Pump



Project at a Glance

COST OF PROJECT				MEANS	OF FINA	NCE	
	Existin	Propose			Existin	Propos	
Particulars	g	d	Total	Particulars	g	ed	Total
Land & Site							
Development Exp.	0.00	45.00	45.00	Capital	0.00	62.27	62.27
Buildings	0.00	66.00	66.00	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	83.55	83.55	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	16.50	16.50	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow				Internal Cash			
Fees & Exp.	0.00	15.00	15.00	Accruals	0.00	0.00	0.00
Franchise & Other				Long/Medium Term			
Deposits	0.00	0.00	0.00	Borrowings	0.00	186.81	186.81
Preliminary& Pre-				Debentures /			
operative Exp	0.00	2.00	2.00	Bonds	0.00	0.00	0.00
Provision for				Unsecured			
Contingencies	0.00	7.50	7.50	Loans/Deposits	0.00	0.00	0.00
Margin Money -							
Working Capital	0.00	5.53	5.53				
TOTAL	0.00	249.08	249.08	TOTAL	0.00	249.08	249.08



Project at a Glance								
Yea r	Annualised	Boo k	Debt		Retained Earnings			-
•		Valu e		CIId	Darmings	uc	Mark et	

15.7

24.1

35.1

7

48.7

6

64.8

4

4

9.70

11.86

11.03 14.06

www.entrepreneurindia.co

1-2 5.74

8.40

4-5 13.59 16.25

5-6 16.08 18.42

2-

3

3-

Per

%

100.

100.

00

100.

00

00

00

CEPS | Per Share | Share | Per Share |

18.00 0.00

12.00 0.00

0.00

0.00

6.00

0.00

4 24.00 0.00

Yield

Price/

Book

Value

%

0.00

0.00

0.00

0.00

0.00

No.of

Time

S

1.00

1.00

Price

5.74

0.00 | 11.03 | 1.00

0.00 | 13.59 | 1.00

0.00 16.08 1.00

%

8.40 0.00 8.40

00 5.74 0.00

11.0

3

9

8

100. 13.5

100. 16.0

PI	roject a	it a (Glar	106	
Yea r	D. S. C. R.		Equit y as-		

sits

Debt

3.00

1.52

0.75

0.12

2.02 0.34

(Number of

times)

3.00

1.52 | 1.68

0.75 0.86

0.34 | 0.43

0.12 0.19

	roject a	ta	Glai	106	
Yea	D. S. C. R.	Debt	Equit	Tota	F

all

Indivi Cumul Over

(Number of times)

1.40

1.53

1.68

1.84

www.entrepreneurindia.co

dual ative

Initi

al

2

2-

3

3-

1-

1.40

1.68

2.02

4-5 2.43

Debt	Equit	Tota	Retu
/ -	y as-	1 Net	rn on
Depo	Equit	Wort	Net

h

%

h

%

GPM

%

%

%

y

Profitability Ratio Wort

PBT

%

%

%

%

%

PAT

%

38.12 22.71 15.89 170.2 75.6

45.10 35.60 22.89 226.6 75.5

47.00 39.43 25.07 254.9 75.5

%

%

30.27 19.93 198.2 75.5

Net P/V

Contr Rati

0

%

4%

4%

4%

3%

ibuti

on

3

Asset Curr

Turno Ratio

S

ver

Ratio

0.90

0.98

0.99

0.95

0.83

1.51

2.37

3.40

ent

Project at a Glance

DE	F
KHI	Н
ريدري	L

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	38.96%

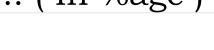
	1		<u> </u>	<i>J</i>
Total BEP	(% of	Installed	Capaci	ty)
מעאם ממז	A CIZ		D	



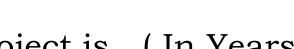
















44.12%

26.64%

2.562

2 Years 3

Months

www.entrepreneurindia.co

Major Queries/Questions Answered in the Report?

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



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



- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Bleaching Powder Manufacturing plant?
- 10. What are the requirements of raw material for setting up Bleaching Powder Manufacturing plant?
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Bleaching Powder Manufacturing Business?
- 12. What is the Manufacturing Process of Bleaching Powder?



- 13. What is the total size of land required for setting up Bleaching Powder Manufacturing plant?
- 14. What will be the income and expenditures for Bleaching Powder Manufacturing Business?
- 15. What are the Projected Balance Sheets of Bleaching Powder Manufacturing plant?
- 16. What are the requirement of utilities and overheads for setting up Bleaching Powder Manufacturing plant?
- 17. What is the Built up Area Requirement and cost for setting up Bleaching Powder Manufacturing Business?



- 18. What are the Personnel (Manpower) Requirements for setting up Bleaching Powder Manufacturing Business?
- 19. What are Statistics of Import & Export for Bleaching Powder?
- 20. What is the time required to break-even of Bleaching Powder Manufacturing Business?
- 21. What is the Break-Even Analysis of Bleaching Powder Manufacturing plant?
- 22. What are the Project financials of Bleaching Powder Manufacturing Business?



- 23. What are the Profitability Ratios of Bleaching Powder Manufacturing Project?
- 24. What is the Sensitivity Analysis-Price/Volume of Bleaching Powder Manufacturing plant?
- 25. What are the Projected Pay-Back Period and IRR of Bleaching Powder Manufacturing plant?
- 26. What is the Process Flow Sheet Diagram of Bleaching Powder Manufacturing project?



27. What are the Market Opportunities for setting up Bleaching Powder Manufacturing plant?

- 28. What is the Market Study and Assessment for setting up Bleaching Powder Manufacturing Business?
- 29. What is the Plant Layout for setting up Bleaching Powder Manufacturing Business?



Table of Contents of the Project Report



1. INTRODUCTION

- 2. USES AND APPLICATION
- 2.1. USES
- 2.2. APPLICATIONS
- 3. PROPERTIES
- 3.1. PHYSICAL PROPERTIES
- 3.2. CHEMICAL PROPERTIES

4. PRODUCT SPECIFICATIONS

- 5. B.I.S. SPECIFICATIONS
- 5.1. IS 10553 : PART 5~REQUIREMENTS OF CHLORINATION EQUIPMENT: PART 5
 - BLEACHING POWDER SOLUTION FEEDER DISPLACEMENT TYPE CHLORINATOR
- 5.2. IS 295~BLEACHING POWDER, UNSTABILIZED
- 6. MARKET SURVEY
- 6.1. PROJECTED DEMAND
- 6.2. GLOBAL MARKET OF BLEACHING POWDER
- 7. EXPORT & IMPORT: ALL COUNTRIES
- 7.1. EXPORT: ALL COUNTRIES
- 7.2. IMPORT: ALL COUNTRIES
- 8. FINANCIALS & COMPARISON OF MAJOR INDIAN PLAYERS/COMPANIES
- 8.1. ABOUT FINANCIAL STATEMENTS OF CMIE DATABASE



8.2.	PROFITS & APPROPRIATIONS
8.3.	TOTAL LIABILITIES
8.4.	TOTAL ASSETS
8.5.	NET CASH FLOW FROM OPERATING ACTIVITIES
8.6.	SECTION – I
8.6.1.	Name of Company with Contact Details
8.6.2.	Name of Director(S)
8.6.3.	Credit Ratings
8.6.4.	Plant Capacity
8.6.5.	Location of Plant
8.6.6.	Name of Raw Material(S) Consumed With Quantity & Cost
8.7.	SECTION – II
8.7.1.	Assets
	Cash Flow
8.7.3.	
8.7.4.	Forex Transaction
8.7.5.	Growth in Assets & Liabilities
8.7.6.	Growth in Income & Expenditure
8.7.7.	Income & Expenditure
8.7.8.	Liabilities
8.7.9.	Liquidity Ratios
8.7.10.	Profitability Ratio
8.7.11.	Profits
8.7.12.	Return Ratios
8.7.13.	Structure of Assets & Liabilities (%)
8.7.14.	Working Capital & Turnover Ratios



10. EXPORT & IMPORT STATISTICS OF INDIA

- 10.1. EXPORT STATISTICS FOR BLEACHING POWDER
- 10.2. IMPORT STATISTICS FOR BLEACHING POWDER

11. PRESENT MANUFACTURERS

12. RAW MATERIAL DETAIL

13. MANUFACTURING PROCESS

- 13.1. RAW MATERIAL REQUIRED
- 13.2. MACHINERY REQUIRED
- 13.3. PROCESS DETAILS

14. PROCESS FLOW DIAGRAM

15. SAFETY/PRECAUTION

16. ENVIRONMENT POLLUTION AND EFFLUENT TREATMENT

- 16.1. AIR EMISSIONS & CONTROL
- 16.2. WASTE WATER TREATMENT & DISPOSAL
- 16.3. HAZARDOUS & OTHER SOLID WASTE

17. BUYER'S LIST



- 17.2. NAME OF DIRECTOR(S)
- 17.3. CREDIT RATINGS
- 17.4. PLANT CAPACITY
- 17.5. LOCATION OF PLANT
- 17.6. COMPANY WISE CONSUMPTION DETAIL OF THE RAW MATERIALS

18. SUPPLIERS OF PLANT & MACHINERY

19. SUPPLIERS OF RAW MATERIAL

20. PHOTOGRAPHS/IMAGES FOR REFERENCE

- 20.1. MACHINERY PHOTOGRAPHS
- 20.2. RAW MATERIAL PHOTOGRAPHS
- 20.3. PRODUCT PHOTOGRAPHS

21. PLANT LAYOUT



Project Financials

•	Project at a Glance	Annexure
•	Assumptions for Profitability workings	1
•	Plant Economics	2
•	Production Schedule	3
•	Land & Building	4
	Factory Land & Building Site Development Expenses	



•	Plant & Machinery5 Indigenous Machineries		
	Other Machineries (Miscellaneous, Laboratory etc.)		
•	Other Fixed Assets6		
	Furniture & Fixtures		
	Pre-operative and Preliminary Expenses		
	Technical Knowhow		
	Provision of Contingencies		
•	Working Capital Requirement Per Month7		
	Raw Material		
	Packing Material		
	Lab & ETP Chemical Cost		
	Consumable Store		



•	Overheads Required Per Month and Per Annum		
•	Salary and Wages	9	
•	Turnover Per Annum	10	
•	Share Capital	11	
	Equity Capital Preference Share Capital		



- Annexure 1 :: Cost of Project and Means of Finance
- Annexure 2 :: Profitability and Net Cash Accruals
- Revenue/Income/Realisation
- Expenses/Cost of Products/Services/Items
- Gross Profit
- Financial Charges
- Total Cost of Sales
- Net Profit After Taxes
- Net Cash Accruals



- Annexure 3 :: Assessment of Working Capital requirements
- Current Assets
- Gross Working Capital
- Current Liabilities
- Net Working Capital
- Working Note for Calculation of Work-in-process
- Annexure 4 :: Sources and Disposition of Funds



- Annexure 5 :: Projected Balance Sheets
- ROI (Average of Fixed Assets)
- RONW (Average of Share Capital)
- ROI (Average of Total Assets)
- Annexure 6 :: Profitability Ratios
- D.S.C.R
- Earnings Per Share (EPS)
- Debt Equity Ratio



• Annexure 7 :: Break-Even Analysis

- Variable Cost & Expenses
- Semi-Variable/Semi-Fixed Expenses
- Profit Volume Ratio (PVR)
- Fixed Expenses / Cost
- B.E.P



• Annexure 8 to 11 :: Sensitivity Analysis-Price/Volume

- Resultant N.P.B.T
- Resultant D.S.C.R
- Resultant PV Ratio
- Resultant DER
- Resultant ROI
- Resultant BEP



- Annexure 12 :: Shareholding Pattern and Stake Status
- Equity Capital
- Preference Share Capital
- Annexure 13 :: Quantitative Details-Output/Sales/Stocks
- Determined Capacity P.A of Products/Services
- Achievable Efficiency/Yield % of Products/Services/Items
- Net Usable Load/Capacity of Products/Services/Items
- Expected Sales/ Revenue/ Income of Products/ Services/
 Items



• Annexure 14 :: Product wise Domestic Sales

Realisation

• Annexure 15 :: Total Raw Material Cost

• Annexure 16 :: Raw Material Cost per unit

• Annexure 17 :: Total Lab & ETP Chemical Cost

• Annexure 18 :: Consumables, Store etc.

• Annexure 19 :: Packing Material Cost

• Annexure 20 :: Packing Material Cost Per Unit



•	Annexure 21	**	Employees Expenses
•	Annexure 22	::	Fuel Expenses
•	Annexure 23	••	Power/Electricity Expenses
•	Annexure 24	::	Royalty & Other Charges
•	Annexure 25	::	Repairs & Maintenance Expenses
•	Annexure 26	::	Other Manufacturing Expenses
•	Annexure 27	::	Administration Expenses
•	Annexure 28	::	Selling Expenses



- Annexure 29 :: Depreciation Charges as per Books (Total)
- Annexure 30 :: Depreciation Charges as per Books (P & M)
- Annexure 31 :: Depreciation Charges as per IT Act WDV (Total)
- Annexure 32 :: Depreciation Charges as per IT Act WDV (P & M)
- Annexure 33 :: Interest and Repayment Term Loans
- Annexure 34 :: Tax on Profits
- Annexure 35 :: Projected Pay-Back Period and IRR



Tags

#Manufacture_of_Bleaching_Powder, #Preparation_of_Bleaching_Power, #Bleaching_Powder_Manufacturing_Process, How is Bleaching Powder Made? Manufacture of Bleaching Powder, Bleaching Powder Production, How to Make Bleaching Powder, Chlorinated Lime, #Calcium_Chlorohypochlorite, Manufacturing of Bleaching Powder, Process for Production of Bleaching Powder, Bleaching Powder Manufacturing Plant, Large Scale Preparation of Bleaching #Starting_a_Bleaching_Powder_Production_Business, Bleaching Powder Production Business, Calcium Oxychloride, #Bleaching Powder Manufacture, #Project_Report_on_Bleaching_Powder_Manufacturing_Industry, Detailed Project Report Bleaching Powder Manufacturing Plant, on #Project_Report_on_Bleaching_Powder_Manufacture, #Pre_Investment_Feasibility_Study_on_Bleaching_Powder_Production Business. Techno-Economic feasibility study on Bleaching Powder Production Business, Feasibility report on Bleaching Powder Production Business, Free Project Profile on Bleaching Powder Manufacture, Project profile on Bleaching Powder Production, Download free project profile on Bleaching Powder Production Business, #Bleaching_Powder_Manufacturing_Business, (CaOCl2) Calcium Investment Opportunities in Chemical Industry, Flow Diagram of Bleaching Powder Manufacturing, Bleaching Powder Preparation, Properties and Uses of Bleaching Powder, #Manufacturing_of_Bleaching_Powder, Bleaching Powder Production of Calcium Chlorohypochlorite, How is Calcium Hypochlorite Produced?



Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Bleaching Powder Manufacturing Business.

Production of Calcium
Chlorohypochlorite.
Profitable Chemical Business Ideas for
Entrepreneurs

See more

https://bit.ly/2wPI572

https://bit.ly/2F286DQ

https://bit.ly/2KcZOhc



Contact us

NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,

New Delhi-110007, India.

Email: <u>npcs.ei@gmail.com</u>, <u>info@entrepreneurindia.co</u>

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

Website: www.entrepreneurindia.co, www.niir.org

Take a look at NIIR PROJECT CONSULTANCY SERVICES on #StreetView

https://goo.gl/VstWkd



Follow us



> https://www.linkedin.com/company/niir-project-consultancy-services



>https://www.facebook.com/NIIR.ORG



▶<u>https://www.youtube.com/user/NIIRproject</u>



>https://plus.google.com/+EntrepreneurIndiaNewDelhi



>https://twitter.com/npcs_in



https://www.pinterest.com/npcsindia/



Thank You

For more information, visit us at:

www.niir.org

www.entrepreneurindia.co

