

# Mini Steel Plant (Billets and TMT Bar)

## How to Open Mini Steel plant (Billets and TMT Bar)

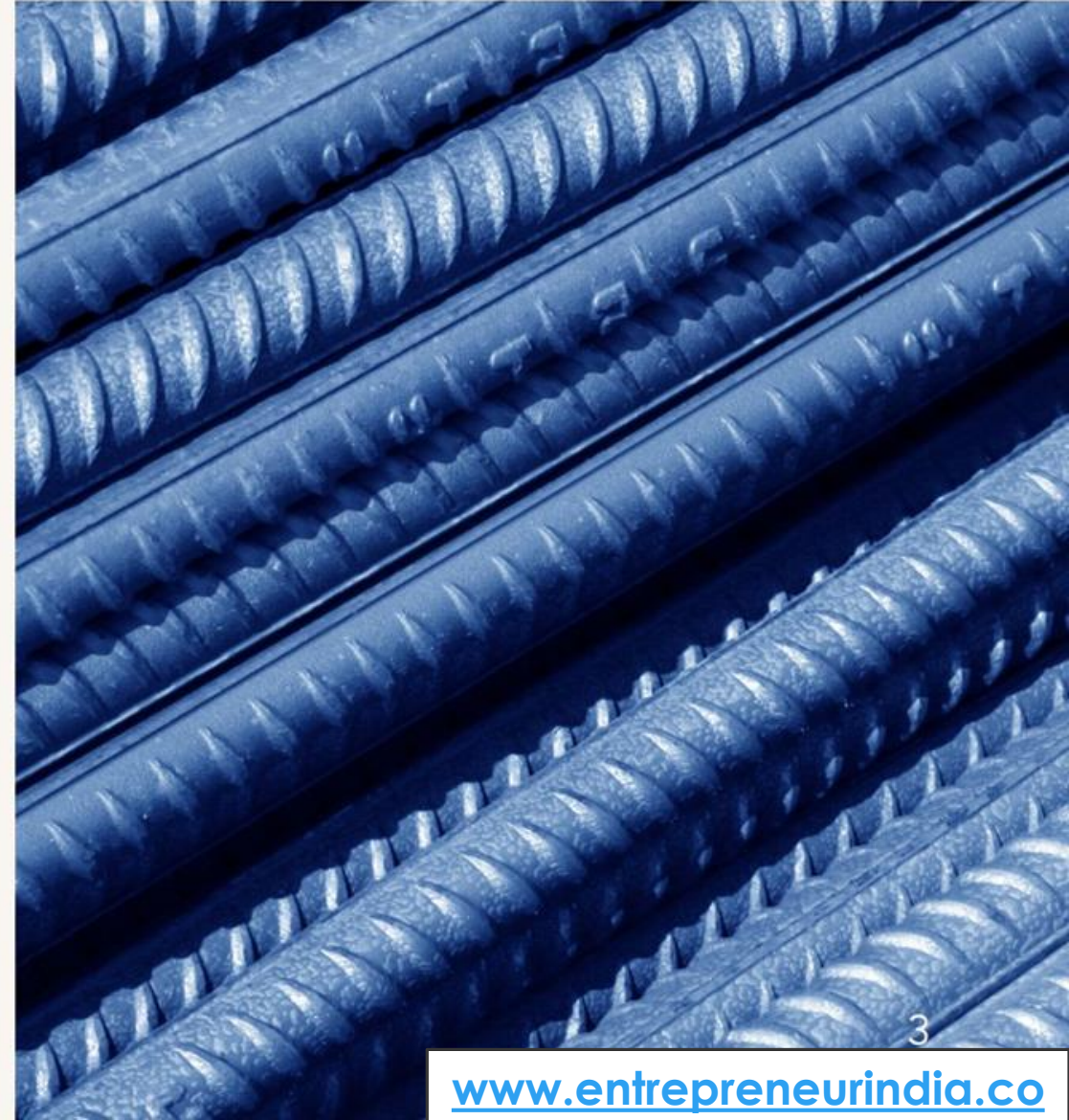


# INTRODUCTION

The Mini Steel Plant (Billets and TMT Bar) is a method for producing huge, thick pieces of metal called billets, which are used to build heavy machinery. Scrap steel is typically used as the raw material in a Mini Steel Plant (Billets and TMT Bar). Iron ore that has been melted in an electric furnace to make pig iron can also be considered scrap steel. Scrap steel is any sort of steel that has been recycled from another metal.

*Visit this Page for More Information: [Start a Business in Steel Industry](#)*

The next step is to transform pig iron into hot steel by purifying it using a variety of techniques, such as casting molten pig iron into sand moulds and rolling the resulting ingots into thin sheets known as slabs. Everything from concrete reinforcement bars to car components like bumpers and fenders is made out of slabs. Billets are often created by modifying slabs by cutting them into smaller pieces and remitting them with carbon until they are flexible. To make the billet strips long enough to be utilized as steel building beams, they are divided into smaller pieces, heated, and rolled.



# USES AND APPLICATIONS

A \$400 billion market, the steel sector is expanding quickly. Although there are many different kinds of steel alloys, carbon steel and stainless steel are the two that are most frequently utilized by industries. Because carbon content in carbon steel is higher, it has a better strength to weight ratio. For structural reasons, such as beams or columns in buildings or bridges, this type of steel is frequently utilized. Iron is alloyed with chromium and nickel in stainless steel, which prevents rusting. Depending on the amounts of chromium and nickel it contains, it can be highly powerful. This kind of steel is typically utilized in situations where corrosion resistance is crucial.

***Related Business Plan: [Set up Mini Steel Plant \(Billets and TMT Bar\)](#)***

# MANUFACTURING PROCESS

The raw materials are the first step in the production of Mini Steel (Billets and TMT Bar). Mining businesses gather the raw materials, which are then processed at steel mills to create semi-finished steel. After being transferred to a rolling mill, semi-finished steel is rolled into tiny cylindrical billets or rods. While rods can be as thick as 24mm, little billets are rolled at thicknesses of up to 9mm.



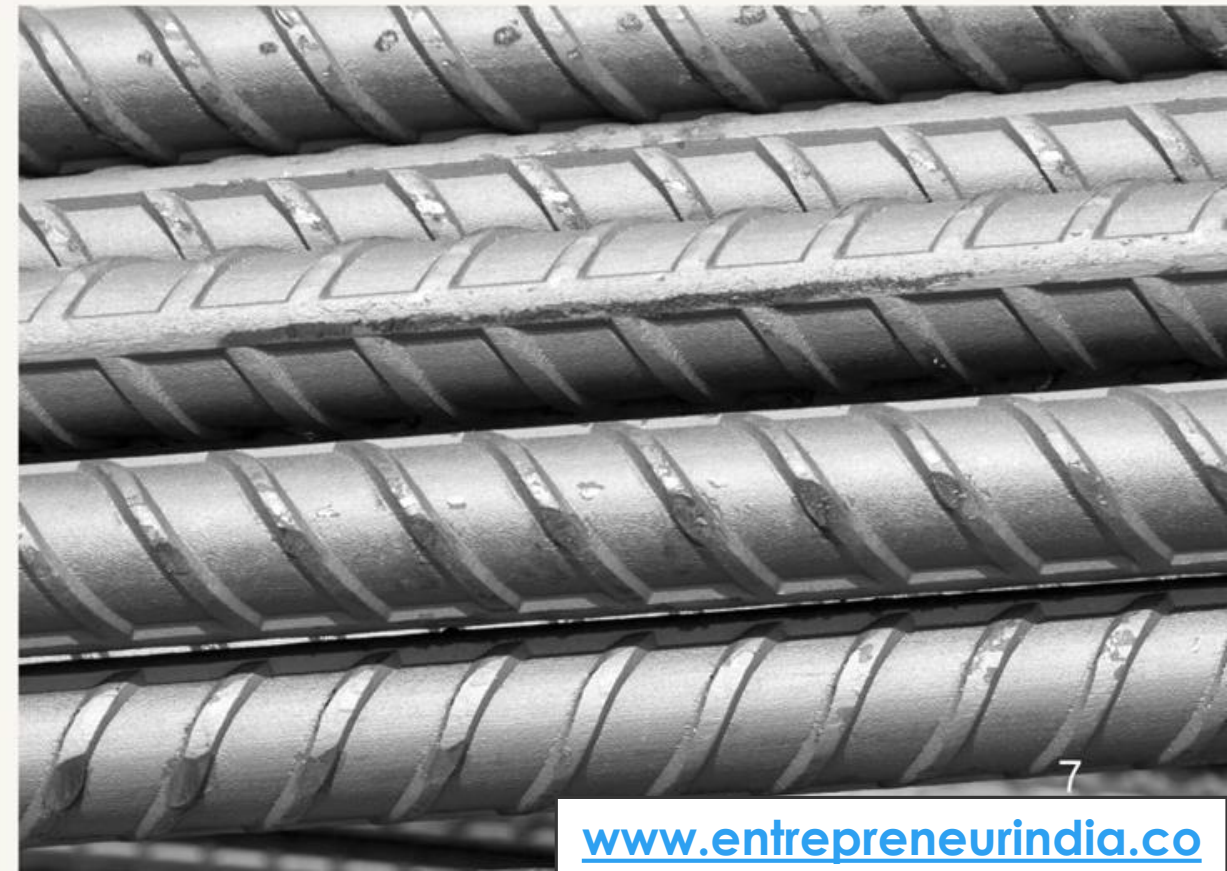
The diameters of billet and rod products normally range from 2.5 mm to 10 cm for billet products and from 4 mm to 20 cm for rod products, depending on the needs of the customer. The next stage is to further process the billets or rods into the shapes of the completed product.

***Read our Books Here: [Steel, Iron, Ferrous, Non-Ferrous Metals With Casting And Forging, Aluminium, Ferroalloys Technology](#)***

***Read Similar Articles: [IRON AND STEEL PROJECTS](#)***

# BENEFITS OF STARTING MINI STEEL PLANT (BILLETS AND TMT BAR) BUSINESS

There are many advantages to beginning a steel manufacturing company. There has never been a better moment to launch a new steel firm than now because of the flourishing steel sector. One of the fastest-growing industries in the world, it has experienced average annual growth of 2% over the previous ten years.



# MARKET SIZE IN INDIA

Currently, there is a transition taking place in the Indian steel sector. In the upcoming years, the country's demand for steel is anticipated to rise as a result of infrastructure improvement and expansion in the building and automotive industries.

*[Watch Video: Mini Steel Plant | Production of TMT Bars | Flats, Angles | Channels | and Girder](#)*





# GLOBAL MARKET OUTLOOK

By 2025, the size of the world's steel market is anticipated to be \$1.01 trillion, growing at a CAGR of 2.6%. Steel demand in prospective residential projects and industrial infrastructure is being driven by contractors' growing preference for affordable, durable, and environmental building materials.



Steel products are utilized extensively in a variety of end-use industries, including construction, automotive, oil & gas, shipbuilding, and electrical & electronics, due to its high strength and long-lasting mechanical qualities. To meet application-specific requirements, a wide range of steel grades are produced utilizing two typical production techniques, namely the blast furnace-basic oxygen furnace (BF-BOF) and electric arc furnace (EAF).

***Related Feasibility Study Reports: [Setting Up Mini Steel Plant \(billets And Tmt Bar\)](#)***

# KEY PLAYERS

1. RASHTRIYA ISPAT NIGAM LIMITED (RINL)
2. VISA STEEL
3. ESSAR STEEL
4. TATA STEEL
5. JSW STEEL
6. BHUSHAN STEEL
7. MESCO STEEL
8. FACOR STEEL
9. STEEL AUTHORITY OF INDIA LIMITED (SAIL)
10. JINDAL STEEL AND POWER

# PROJECT AT A GLANCE

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	1250.00	1250.00	Capital	0.00	2604.19	2604.19
Buildings	0.00	1726.00	1726.00	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	5445.00	5445.00	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	30.00	30.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	447.00	447.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	150.00	150.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	7812.58	7812.58
Preliminary& Pre-operative Exp	0.00	15.00	15.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	534.50	534.50	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	819.27	819.27				
<b>TOTAL</b>	<b>0.00</b>	<b>10416.77</b>	<b>10416.77</b>	<b>TOTAL</b>	<b>0.00</b>	<b>10416.77</b>	<b>10416.77</b>

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				
										No.of Times	
						%		%			%
1-2	6.51	10.82	16.51	24.00	0.00	100.00	6.51	0.00	6.51	1.00	0.00
2-3	8.87	12.58	25.38	18.00	0.00	100.00	8.87	0.00	8.87	1.00	0.00
3-4	11.29	14.49	36.68	12.00	0.00	100.00	11.29	0.00	11.29	1.00	0.00
4-5	13.71	16.47	50.38	6.00	0.00	100.00	13.71	0.00	13.71	1.00	0.00
5-6	16.10	18.49	66.48	0.00	0.00	100.00	16.10	0.00	16.10	1.00	0.00

Year	D. S. C. R.			Debt / - 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 Contributio n			P/V Ratio
	(Number of times)			(Number of times)	%	%	%	%	%		%			
<b>Initial</b>				<b>3.00</b>	<b>3.00</b>									
<b>1-2</b>	<b>1.55</b>	<b>1.55</b>		<b>1.45</b>	<b>1.45</b>	<b>2.55</b>		<b>10.41%</b>	<b>6.83%</b>	<b>4.94%</b>	<b>6895.76</b>	<b>20.11%</b>	<b>2.27</b>	<b>1.08</b>
<b>2-3</b>	<b>1.81</b>	<b>1.67</b>		<b>0.71</b>	<b>0.71</b>	<b>1.53</b>		<b>11.53%</b>	<b>8.63%</b>	<b>5.78%</b>	<b>7460.63</b>	<b>18.65%</b>	<b>2.41</b>	<b>1.32</b>
<b>3-4</b>	<b>2.12</b>	<b>1.81</b>	<b>2.13</b>	<b>0.33</b>	<b>0.33</b>	<b>0.98</b>		<b>12.30%</b>	<b>9.93%</b>	<b>6.43%</b>	<b>8512.52</b>	<b>18.62%</b>	<b>2.43</b>	<b>1.57</b>
<b>4-5</b>	<b>2.50</b>	<b>1.96</b>		<b>0.12</b>	<b>0.12</b>	<b>0.65</b>		<b>12.84%</b>	<b>10.89%</b>	<b>6.94%</b>	<b>9564.41</b>	<b>18.60%</b>	<b>2.38</b>	<b>1.84</b>
<b>5-6</b>	<b>2.96</b>	<b>2.13</b>		<b>0.00</b>	<b>0.00</b>	<b>0.45</b>		<b>13.21%</b>	<b>11.59%</b>	<b>7.34%</b>	<b>10616.30</b>	<b>18.58%</b>	<b>2.29</b>	<b>2.54</b>

**BEP****BEP - Maximum Utilisation Year****5****Cash BEP (% of Installed Capacity)****30.81%****Total BEP (% of Installed Capacity)****36.67%****IRR, PAYBACK and FACR****Internal Rate of Return .. ( In %age )****28.23%****Payback Period of the Project is ( In Years )****2 Years 3 Months****Fixed Assets Coverage Ratio ( No. of times )****10.272**



# TABLE OF CONTENT



# 1. INTRODUCTION

1. Billets

2. TMT Bars

# 2. SWOT ANALYSIS OF THE INDUSTRY

1. Strengths

2. Weaknesses

3. Opportunities

4. Threats

# 3. TYPES OF STEEL PRODUCTS

# 4. USES & APPLICATIONS

1. Billets

1. *Uses*

2. *Applications*

2. TMT Bar

1. *Uses*

2. *Applications*

## 5. PRODUCT CHARACTERISTICS

### 1. Steel Billets

- 1. Chemical Properties*
- 2. Mechanical Properties*
- 3. Product Identification*

### 2. TMT Steel Bars (Rebar)

- 1. Product Characteristics*
- 2. Deformed Steel Bar Specifications*
- 3. Chemical Composition*
- 4. Mechanical Properties*
- 5. Features of TMT Bars*

## 6. STANDARD & GRADE SPECIFICATIONS

- 1. ASTM A615M Grade 40-Structural and General Use**
- 2. ASTM A615 Grade 60-Structural and General Use**
- 3. ASTM A615M Grade 75-Structural and General Use**
- 4. BS4449 460B 500B 500C-Structural and General Use**
- 5. A314 - 19 Standard Specification for Stainless Steel Billets and Bars for Forging.**

- **6.A604 / A604M - 07(2017)Standard Practice for Macroetch Testing of Consumable Electrode Remelted Steel Bars and Billets**
- **7.A646 / A646M - 17 Standard Specification for Premium Quality Alloy Steel Blooms and Billets for Aircraft and Aerospace Forgings.**
- **8.Rebar Marking**

## **7.B.I.S. SPECIFICATIONS**

- 1.IS 1875: 1992 (Reaffirmed Year: 2021) Carbon Steel Billets, Blooms, Slabs and Bars for Forgings**
- 2.IS 2100: 1970 (Reaffirmed Year: 2022) Steel Billets, Bars and Sections for Boilers**
- 3.IS 6529: 1996 (Reaffirmed Year: 2018) Stainless Steel Blooms, Billets and Slabs for Forging**
- 4.IS 2830: 2012 (Reaffirmed Year: 2022) Carbon Steel Cast Billet Ingots, Billets, Blooms and Slabs for Re-rolling into Steel for General Structural Purposes – Specification**
- 5.IS 1732: 1989 (Reaffirmed Year: 2019) Steel Bars Round and Square for Structural and General Engineering Purposes**



## **8.MARKET SURVEY**

- 1.The Long Steel Market Size**
- 2.Steel Billet**
- 3.Key Players in Steel Billet Market**
- 4.TMT Bar**
- 5.Market Insight**
- 6.Segment Analysis**
  - 1.Application –*
  - 2.Geography-*
- 7.Key Manufacturers**

## **9.EXPORT & IMPORT: ALL COUNTRIES**

- 1.Export: All Countries**
- 2.Import: All Countries**

## **10.FINANCIALS & COMPARISON OF MAJOR INDIAN PLAYERS/COMPANIES**

- 1.About Financial Statements of CMIE Database**
- 2.Profits & Appropriations**

3. **Total Liabilities**

4. **Total Assets**

5. **Net Cash Flow from Operating Activities**

6. **Section – I**

*1. Name of Company with Contact Details*

*2. Name of Director(S)*

*3. Credit Ratings*

*4. Plant Capacity*

*5. Location of Plant*

*6. Name of Raw Material(S) Consumed With Quantity & Cost*

7. **Section – II**

*1. Assets*

*2. Cash Flow*

*3. Cost as %ge of Sales*

*4. Growth in Assets & Liabilities*

*5. Growth in Income & Expenditure*

*6. Income & Expenditure*

*7. Liabilities*

*8. Liquidity Ratios*

•••• **9.Profitability Ratio**

•••• **10.Profits**

•••• **11.Return Ratios**

**12.Structure of Assets & Liabilities (%)**

**13.Working Capital & Turnover Ratios**

**11.COMPANY PROFILE OF MAJOR PLAYERS**

**12.EXPORT & IMPORT STATISTICS OF INDIA**

**1.Export Statistics of MS Billets**

**2.Export Statistics of TMT Bar**

**3.Import Statistics of MS Billets**

**4.Import Statistics of TMT Bars**

**13.PRESENT MANUFACTURERS**

**14.TECHNOLOGY FOR STEEL BILLET**

**1.Induction Furnace**

**1.Bath Agitation Mechanism**

**2.Important Aspects of Operation**

**3.Other Aspects of Induction Furnace Steel Making**

**4.Environmental Emissions**

**5.Safety and Induction Furnaces**

## 2. Continuous Casting Machine

1. *Steel Ladle*
2. *Tundish*
3. *Mould*
4. *Secondary Cooling*
5. *Tundish Refractory Lining*

## 3. Billet Inspection and Conditioning Facilities

## 15. INSPECTION TECHNIQUES

1. Eddy Current Techniques
2. Flux Leakage Techniques
3. Microwave Techniques
4. Optical Techniques
5. Thermal Techniques
6. Ultrasonic Techniques
7. Selection of Inspection Techniques
8. Billet Conditioning Facilities

## 16. RAW MATERIALS



## 17. MANUFACTURING PROCESS OF STEEL BILLETS

### 1. Process Steps

- 1. Operation of Induction Furnace*
- 2. Operation of Continuous Casting Machine*

## 18. PROCESS FLOW DIAGRAM OF STEEL BILLETS

## 19. TESTING OF STEEL BILLETS

- 1. Surface Defect Detection**
- 2. Inspection/Quality Assurance of Steel Bars**
- 3. Magnetic Particle Inspection**

## 20. MANUFACTURING PROCESS OF TMT BAR

- 1. Rolling Mill Operation**
- 2. Shape-Rolling Operations**
  - 1. Ring-Rolling Process*
  - 2. Plastic Working Techniques*
  - 3. Rolling Operations*
  - 4. The Cooling Process*
- 3. Quality Consideration**



## **21.PROCESS FLOW DIAGRAM OF TMT BAR**

- 1.From Billets/Ingots**
- 2.From Graded & Sorted Steel Scraps**

## **22.TESTING OF TMT BARS**

- 1.Chemical Composition**
- 2.Strength**
- 3.Flexibility & Bending**

## **23.BUYER'S LIST**

- 1.Contact Details of Buyer's**
- 2.Name of Director(S)**
- 3.Credit Ratings**
- 4.Plant Capacity**
- 5.Location of Plant**
- 6.Company Wise Consumption Detail of the Raw Materials**

## **24.ENVIRONMENTAL GUIDELINES FOR STEEL MILLS**

## **25.POLLUTION PREVENTION AND CONTROL**

- 1.Pollution Prevention Measures**
- 2.Treatment Technologies**
  - 1.Air Emissions*
  - 2.Wastewater Treatment*

## **26.QUALITY CONTROL**

- 1.Process Control**
- 2.Chemical Analysis Control**
- 3.Mechanical Properties Control**
- 4.Metallographic Control**
- 5.Inspection**

## **27.SUPPLIERS OF PLANT & MACHINERY**

## **28.SUPPLIERS OF RAW MATERIAL**

## **29.PHOTOGRAPHS/IMAGES FOR REFERENCE**

- 1.Machinery Photographs**
- 2.Raw Material Photographs**
- 3.Product Photographs**

## **30.PLANT LAYOUT**



# **TAGS**

**#MiniSteelPlant, #Steel, #Billets, #TMTBar,  
#Steelmanufacturing, #Steelplant, #Steelindustry,  
#Steelproduction, #Business, #BusinessOpportunity,  
#Manufacturingbusinessplan, #Mostprofitablebusiness,  
#Startup, #NPCS, #Entrepreneurindia,  
#Profitablebusiness, #StartyourownIndustry,  
#StartupBusinessIdeas,**



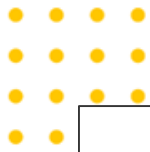
# Major Queries/Questions Answered in Business Plan

- 1. How has the Mini Steel Plant (Billets and TMT Bar) performed so far and how will it perform in the coming years?**
- 2. What is the Business Feasibility Study of the Mini Steel Plant (Billets and TMT Bar) ?**
- 3. What are the requirements of Working Capital for setting up the Mini Steel Plant (Billets and TMT Bar) ?**
- 4. What is the structure of the Mini Steel Plant (Billets and TMT Bar) and who are the key/major players?**

5. **What is the total Startup cost for setting up the Mini Steel Plant (Billets and TMT Bar) ?**
6. **What are the operating costs for setting up the Mini Steel Plant (Billets and TMT Bar) ?**
7. **What are the machinery and equipment requirements for setting up the Mini Steel Plant (Billets and TMT Bar) ?**
8. **Who are the Suppliers and Manufacturers of Plant & Machinery for setting up the Mini Steel Plant (Billets and TMT Bar) ?**
9. **What are the requirements of raw material for setting up the Mini Steel Plant (Billets and TMT Bar) ?**



- 10. Who are the Suppliers and Manufacturers of Raw materials for setting up the Mini Steel Plant (Billets and TMT Bar) ?**
- 11. What is the Manufacturing Process of Mini Steel Plant (Billets and TMT Bar) ?**
- 12. What is the total size of land required for setting up the Mini Steel Plant (Billets and TMT Bar) ?**
- 13. What will be the income and expenditures for the Mini Steel Plant (Billets and TMT Bar) ?**



**14. What are the Projected Balance Sheets of Mini Steel Plant (Billets and TMT Bar) ?**

**15. What are the requirement of utilities and overheads for setting up the Mini Steel Plant (Billets and TMT Bar) ?**

**16. What is the Built up Area Requirement and cost for setting up the Mini Steel Plant (Billets and TMT Bar) ?**

**17. What are the Personnel (Manpower) Requirements for setting up the Mini Steel Plant (Billets and TMT Bar) ?**

**18. What are Statistics of Import & Export for Mini Steel Plant (Billets and TMT Bar) ?**





**19. What is the time required to break-even?**

**20. What is the Break-Even Analysis of Mini Steel Plant (Billets and TMT Bar) ?**

**21. What are the Project financials of Mini Steel Plant (Billets and TMT Bar) ?**

**22. What are the Profitability Ratios of Mini Steel Plant (Billets and TMT Bar) ?**

**23. What is the Sensitivity Analysis-Price/Volume of Mini Steel Plant (Billets and TMT Bar) ?**



**24. What are the Projected Pay-Back Period and IRR of the Mini Steel Plant (Billets and TMT Bar)?**

**25. What is the Process Flow Sheet Diagram of Mini Steel Plant (Billets and TMT Bar)?**

**26. What are the Market Opportunities for setting up the Mini Steel Plant (Billets and TMT Bar)?**

**27. What is the Market Study and Assessment for setting up the Mini Steel Plant (Billets and TMT Bar)?**

**28. What is the Plant Layout for setting up the Mini Steel Plant (Billets and TMT Bar)?**



# Financial Statements of the Business

## 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 & Machinery.....5**
  - Indigenous Machineries**
  - Other Machineries (Miscellaneous, Laboratory etc.)**
  
- **Other Fixed Assets.....6**
  - Furniture & Fixtures**
  - Pre-operative and Preliminary Expenses**
  - Technical Knowhow**
  - Provision of Contingencies**
  
- **Working Capital Requirement Per Month.....7**
  - Raw Material**
  - Packing Material**
  - Lab & ETP Chemical Cost**
  - Consumable Store**

- **Overheads Required Per Month and Per Annum.....8**
  - Utilities & Overheads (Power, Water and Fuel Expenses etc.)**
  - Royalty and Other Charges**
  - Selling and Distribution Expenses**
- **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**



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- ✓ **This Business Plan helps you market and place the product correctly by identifying the target customer group of the product**

- 
- ✓ **This Business Plan helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
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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:**

- **Good Present/Future Demand**
- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

**The Business Plan 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](#)**

## Who are we?

**A trusted and leading name in the industry, we have been putting forth exceptionally integrated and comprehensive technical consultancy services. We believe that project consultancy serves as a critical element for the success of your projects. Moreover, we keep in mind that no client is the same and nor are the requirements. Therefore, we ensure uniqueness in every service you avail from us.**

# What do we offer?

- **Selection of Right Business Ideas For You (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

## 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

# Our Approach

**Requirement collection**

**Thorough analysis of the project**

**Economic feasibility study of the Project**

**Market potential survey/research**

**Report Compilation**



## 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
- 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
- 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
- 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
- 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.
- 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.

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

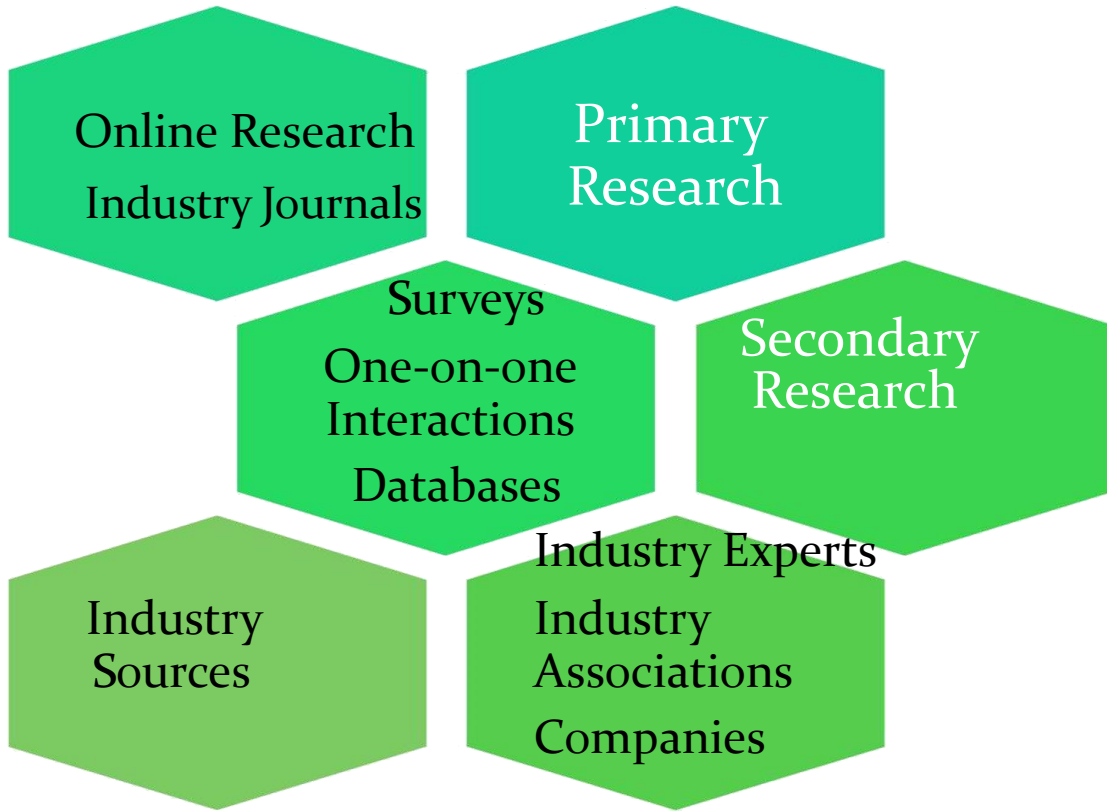
- To get a detailed scenario of the industry along with its structure and classification
- To provide a comprehensive analysis of the industry by covering aspects like:
  - Growth drivers of the industry
  - Latest market trends
  - Insights on regulatory framework
  - SWOT Analysis
  - Demand-Supply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

- 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 research team comprises of experts from various financial fields:

✧ MBA's

✧ Industry Researchers

✧ Financial Planners

✧ Research veterans with decades of experience



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# Contact us

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Website : [www.entrepreneurindia.co](http://www.entrepreneurindia.co) , [www.niir.org](http://www.niir.org)

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

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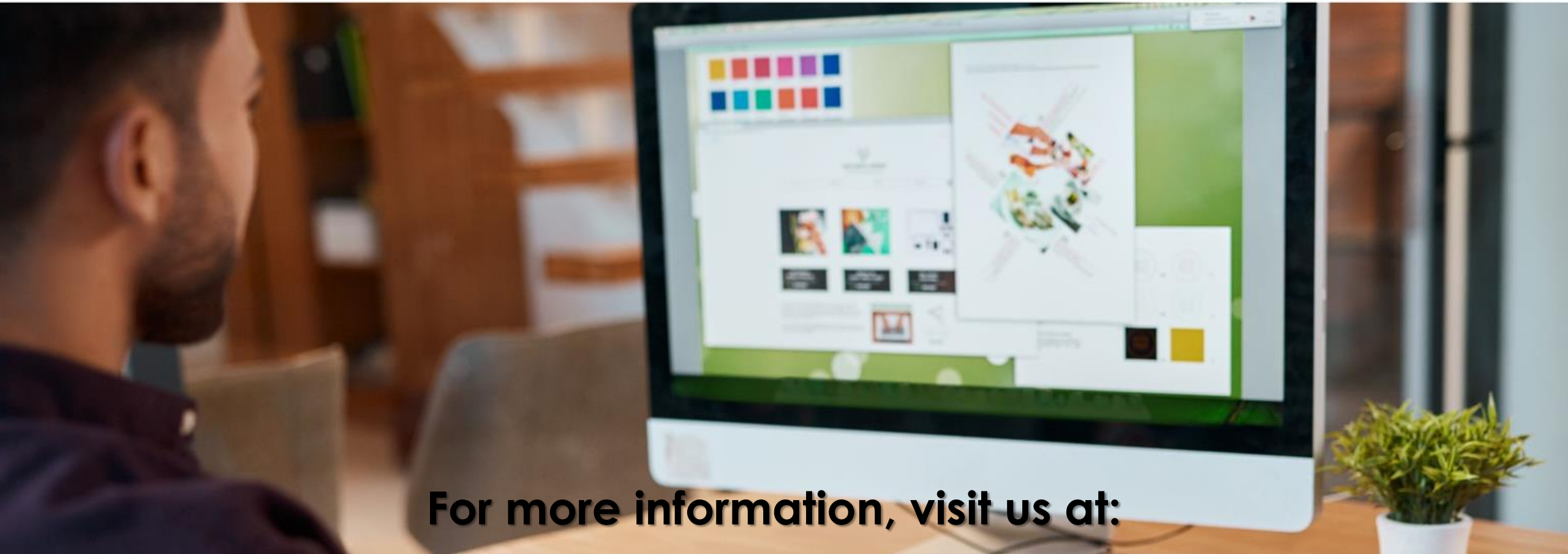
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