

# **Aluminium Foil**

## **Food Packaging Foil**

*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, Plant Layout, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis*

# Introduction

Aluminium plays a major role in the modern world through its innumerable forms of applications- from kitchen ware to electric conductors and from railway wagon to Appollo spacecraft. Because of its intrinsic and versatile properties of lightness, strength to weight ratio, corrosion resistance, electrical and thermal conductivity, non toxicity etc., a wide range of uses has opened up for this metal. Aluminium as a packaging material is unmatched owing to its light weight, hygienic and non-contamination which eventually results in longer shelf-life of end products.

Aluminium foil is a thin sheet of metal. As such it can be an absolute barrier to moisture, gases, odors, bacteria and moulds. The high reflectivity of aluminium ensures good protection against radiant heat, whilst its opacity is important in preventing deterioration of a very large range of foods and drinks which are affected by light. It is used for packaging and non packaging uses. The growth of this industry has been in the recent past, owing to the growing application of foil in a variety of products. India is one of the key producers of aluminium foil in the region. Over 70% of aluminium foil used in India is for packaging applications.

Pharmaceuticals followed by beverages, personal care and a wide range of food and non-food products, semi rigid containers and house foil are the principal applications of aluminium foil in India in the packaging sector. Indai is the biggest aluminium foil manufacturer in the country. Other major manufacturers include India Foils, Emco, PG Foils and Flex Art. Holding on to the emerging indicators and the future prospects, Hindalco has plans to increase its aluminum smelting capacity three-fold to 1.8 mn tonne and alumina refining capacity four-fold to 6 mn tonne annually. As a whole it is a good project for new entrepreneurs to invest.

India's share in world aluminium market is estimated at around 3%. India ranks fifth in bauxite production after Australia (62 mntonnes), Guinea (17.50 mntonnes), Brazil (16.20 mntonnes) and China (10.75 mntonnes). With a total output of 9.25 mntonnes, the country contributes about 6% of the world's total production of 159 mntonnes, India holds the fifth position in reserves base and is ahead of China with 2300 mntonnes. India ranked seventh in alumina production with a total output of 3 mntonnes, a share of nearly 5% of the global production of 61 mntonnes.

The per capita consumption of aluminium in India continues to remain abysmally low at under 1 kg as against nearly 25 to 30 kg in the US and Europe, 15 kg in Japan, 10 kg in Taiwan and 3 kg in China.

The total aluminium foil production in India is placed at around 35,000 tonne, of which Indal and India Foils account for a little over 50%. Indal is the biggest aluminium foil manufacturer in the country. Other major manufacturers include India Foils, Emco, PG Foils and Flex Art. Hindalco also forayed into the segment and managed to capture a sizable share of the market.

Its new Silvassa plant in Gujarat has a large capacity of 200,000 tpa. India Foils, now of the Sterlite group, had prepared a five-pronged strategy to bring back the heavily losing company on rails. Hindalco made a bid to acquire India Foils as Sterlite was intending to sell off India Foils.

Aluminium foil industry is growing annually at around 7%. In the near future, with the phenomenal rise in disposable incomes, the foil industry is expected to receive a boost. Working couples, for instance, increasingly pack their food in aluminium foils. The growth in demand is expected to follow the increasing demand noticed in China.

# APPLICATIONS

The foil is used for packaging of many products, some of which are given below:

- Pharmaceutical tablets
- Bulk & unitized packing of tea and coffee
- Prepared meals — Bakery products
- Frozen meat, fish
- Milk bottle caps
- Wine

- Lube Oil, greases
- Powdered milk
- Confectionery
- Biscuits
- Photographic film
- Gift wraps
- Household wraps
- Butter, margarine, Cigarettes

## PROPERTIES OF ALUMINIUM FOIL

Aluminium foil has significant properties as given below:

- i) Good thermal and electrical conductivity,
- ii) good formability,
- iii) impermeability and non-absorptivity to water, grease, oil & light;  
odourless and tasteless

- i) good adhesion to a variety of compounds,**
- ii) excellent printability,**
- iii) resistance to oxidation and chemical attacks**

**Owing to these properties, aluminium foil is preferred to other packaging materials as flexible materials cannot match these characteristics of aluminium foil**

# Reasons for buying the 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 Aluminium Foil” provides an insight into the Aluminium Foil market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Aluminium Foil project. The report assesses the market sizing and growth of the Indian Aluminium Foil 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 Aluminium Foil sector in India along with its business prospects. Through this report we have identified Aluminium Foil project as a lucrative investment avenue.**

# Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	72.50	72.50	Capital	0.00	77.96	77.96
Buildings	0.00	77.00	77.00	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	57.89	57.89	Other Type Share 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	25.00	25.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	7.50	7.50	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	233.89	233.89
Preliminary & Pre-operative Exp	0.00	3.50	3.50	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	5.00	5.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	55.46	55.46				
<b>TOTAL</b>	<b>0.00</b>	<b>311.85</b>	<b>311.85</b>	<b>TOTAL</b>	<b>0.00</b>	<b>311.85</b>	<b>311.85</b>

# Project at a Glance

Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/Book Value
	EPS	CEPS				Per Share					
	₹	₹	₹	₹	₹	%	₹	%	₹	No.of Times	%
1-2	6.15	8.92	16.15	24.00	0.00	100.00	6.15	0.00	6.15	1.00	0.00
2-3	9.03	11.46	25.18	18.00	0.00	100.00	9.03	0.00	9.03	1.00	0.00
3-4	11.92	14.06	37.10	12.00	0.00	100.00	11.92	0.00	11.92	1.00	0.00
4-5	14.70	16.59	51.80	6.00	0.00	100.00	14.70	0.00	14.70	1.00	0.00
5-6	17.34	19.01	69.14	0.00	0.00	100.00	17.34	0.00	17.34	1.00	0.00

# Project at a Glance

Year	D. S. C. R.			Debt / - Deposits Debt	Equity as- Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contribution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%	%			
<b>Initial</b>				3.00	3.00									
<b>1-2</b>	1.31	1.31		1.49	1.49	4.58		5.41%	2.54%	1.69%	307.19	10.86%	4.06	1.07
<b>2-3</b>	1.63	1.47		0.71	0.71	3.00		5.86%	3.30%	2.13%	358.28	10.85%	4.23	1.15
<b>3-4</b>	2.02	1.64	2.01	0.32	0.32	2.10		6.15%	3.86%	2.46%	409.46	10.85%	4.23	1.24
<b>4-5</b>	2.48	1.82		0.12	0.12	1.55		6.35%	4.26%	2.70%	460.64	10.85%	4.15	1.35
<b>5-6</b>	3.02	2.01		0.00	0.00	1.19		6.47%	4.53%	2.87%	511.82	10.85%	4.01	1.57

# Project at a Glance

<b>BEP</b>	
BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	55.70%
Total BEP (% of Installed Capacity)	58.23%
<b>IRR, PAYBACK and FACR</b>	
Internal Rate of Return .. ( In %age )	28.13%
Payback Period of the Project is ( In Years )	2 Years 3 Months
Fixed Assets Coverage Ratio ( No. of times )	27.141

# Major Queries/Questions Answered in the Report?

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

- 5. What is the structure of the Aluminium Foil Business and who are the key/major players ?**
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# ***NIIR PROJECT CONSULTANCY SERVICES***

**An ISO 9001:2008 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*

# What do we offer?

- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Market Research Reports*
- *Technology Books and Directory*
- *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**

# 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*

# 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 & Hospitability 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*
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- *Waste Management & Recycling*
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- *Wire & Cable*

# Contact us

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