Bricks from Fly Ash –
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
Fly Ash is a burnt residue of pulverized coal (bituminous or sub-bituminous) and is siliceous in nature. In past few decades, R&D efforts were undertaken and it has been proved that this material can be utilized in number of ways in building construction products as well as in civil works with adequate durability.
Major areas of fly ash utilization are Building materials such as Bricks, Blocks, Tiles, etc. Also used in Grouting, Engineered fills for low-lying land spaces for human settlement, use in Road Construction and Construction of ash dykes and embankments.
Fly Ash brick is a product of basic cement clinker materials i.e. FLY ASH, STONE DUST/SAND, LIME, GYPSUM and BONDING AGENT. The mix is so ideally worked out to produce bricks of higher strength with consistency as well as uniformity. The manufacturing process is fully automatic with state of art technology. Though a new age product introduced in the market,
Fly Ash bricks are very well accepted by the organized sectors in heavy industries, high rise buildings, large townships, colonies, etc. because of unique features and merits.

Fly Ash Bricks provides a high level of moisture resistance. It's very economical, cost effective, nil wastage while transporting and handling. Fly Ash Bricks is available in various sizes. These qualitative bricks have high compressive strength and absorb low water. As a whole it is a good project for entrepreneurs to invest.

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Few Indian Major Players are as under

- Chhattisgarh Electricity Co. Ltd.
- Gujarat Narmada Flyash Co. Ltd.
- Jindal Steel & Power Ltd.
- Nalwa Steel & Power Ltd.
- Periwal Bricks Ltd.
- Prakash Ceramics Ltd.
- Sand Plast (India) Ltd.
- Tatanagar Bricks Ltd.
- Tuticorin Salt & Marine Chemicals Ltd.
<table>
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<th>Particulars</th>
<th>Existing</th>
<th>Proposed</th>
<th>Total</th>
<th>Particulars</th>
<th>Existing</th>
<th>Proposed</th>
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<td>Capital</td>
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<td>40.75</td>
<td>Other Type Share Capital</td>
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<td>Debentures / Bonds</td>
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<td>Margin Money - Working Capital</td>
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## Project at a Glance

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<th>Year</th>
<th>Annualised</th>
<th>Book Value</th>
<th>Debt</th>
<th>Dividend</th>
<th>Retained Earnings</th>
<th>Payout</th>
<th>Probable Market Price</th>
<th>P/E Ratio</th>
<th>Yield Price/Book Value</th>
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<tr>
<td></td>
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<td>CEPS</td>
<td>Per Share</td>
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<td>Per Share</td>
<td>%</td>
<td>Rs</td>
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<td>Rs</td>
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<td></td>
<td>Rs</td>
<td>Rs</td>
<td>Rs</td>
<td>Rs</td>
<td>Rs</td>
<td>%</td>
<td>Rs</td>
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## Project at a Glance

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<th>D. S. C. R.</th>
<th>Debt / - Deposits Debt</th>
<th>Equity as- Equity</th>
<th>Total Net Worth</th>
<th>Return on Net Worth</th>
<th>Profitability Ratio</th>
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<td>Cumulative</td>
<td>Overall</td>
<td></td>
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<tr>
<td></td>
<td>(Number of times)</td>
<td>(Number of times)</td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>%</td>
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<tr>
<td>Initial</td>
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<td>1.59</td>
<td>1.59</td>
<td>2.17</td>
<td>18.05%</td>
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<td>3-4</td>
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<td>1.79</td>
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<td>0.12</td>
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<tr>
<td>5-6</td>
<td>3.00</td>
<td>1.99</td>
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<td>0.00</td>
<td>0.22</td>
<td>24.03%</td>
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### Project at a Glance

<table>
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<th>BEP</th>
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<tr>
<td>BEP - Maximum Utilisation Year</td>
<td>5</td>
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<tr>
<td>Cash BEP (% of Installed Capacity)</td>
<td>55.87%</td>
</tr>
<tr>
<td>Total BEP (% of Installed Capacity)</td>
<td>59.27%</td>
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### IRR, PAYBACK and FACR

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<table>
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<tr>
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<tr>
<td>Internal Rate of Return .. ( In %age )</td>
<td>25.86%</td>
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<tr>
<td>Payback Period of the Project is ( In Years )</td>
<td>2 Years 4 Months</td>
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<tr>
<td>Fixed Assets Coverage Ratio ( No. of times )</td>
<td>5.903</td>
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</table>
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9.6.3. Plant Capacity

9.6.4. Location of Plant

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9.7.2. Cash Flow

9.7.3. Cost as % Ge of Sales

9.7.4. Forex Transaction

9.7.5. Growth in Assets & Liabilities

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9.7.8. Liabilities
9.7.9. Liquidity Ratios
9.7.10. Profitability Ratio
9.7.11. Profits
9.7.12. Return Ratios
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13. MANUFACTURING PROCESS
14. PROCESS FLOW DIAGRAM
15. DETAILS OF PLANT & MACHINERY
16. SAFETY & HANDLING GUIDELINES
17. TESTING METHODS
17.1. Compressive Strength Test
17.2. Water Absorption

18. ENVIRONMENT POLLUTION CONTROL

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20. SUPPLIERS OF PLANT & MACHINERY

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- Production Schedule ...........................................................................3
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  - Pre-operative and Preliminary Expenses
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  - Provision of Contingencies

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  - Raw Material
  - Packing Material
  - Lab & ETP Chemical Cost
  - Consumable Store
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  Utilities & Overheads (Power, Water and Fuel Expenses etc.)
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• Salary and Wages

• Turnover Per Annum

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- Net Cash Accruals
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- Current Liabilities
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• Annexure 23 :: Power/Electricity Expenses
• Annexure 24 :: Royalty & Other Charges
• Annexure 25 :: Repairs & Maintenance Expenses
• Annexure 26 :: Other Manufacturing Expenses
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| Annexure 32 | Depreciation Charges - as per IT Act WDV (P & M) |
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| Annexure 34 | Tax on Profits |
| Annexure 35 | Projected Pay-Back Period and IRR |
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- 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

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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

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- 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
Sectors We Cover Cont...

- 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
Sectors We Cover Cont...

- 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
Sectors We Cover

- 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

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- 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.
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- 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
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