

Selected Investment Opportunities, Project Briefs

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Projects Covered In This Issue

- **SOLAR PANEL**
- **MEDIUM DENSITY FIBERBOARD**
- **PET RECYCLING**
- **HDPE / PP Woven Fabric From Tape Line using Circular Looms and Sacks Making with Lamination of BOPP/ BOPET/ LDPE and Printing**
- **Vacuum Fried Vegetable Chips (Sweet Potato, Beans and Beetroot)**
- **Khaini, Zarda & Gutka**
- **Autoclaved Aerated Concrete Blocks (AAC Blocks)**
- **Aluminium Foil**

Detailed Project Report On

SOLAR PANEL

Solar Panels are in general Silicon made Rectangular Shaped Glass Covered Products which Produce Electricity when exposed to the Sun. These Panels produce Direct Current (DC) Electricity which has to be converted by a Solar Inverter to Alternating Current (AC) Electricity to be used by Consumers. . Solar Panel produced Electricity usually costs between Rs 15-18 /KwH (much higher than the Rs 3-6/unit paid normally) which makes it uneconomical except in special cases like off grid applications. Replacing expensive Diesel powered Telecom Towers with Solar Panels is also an option. Sharply falling Solar Panel costs should make it competitive with your electricity in 2-3 years. In places like Italy, Solar Electricity is already competitive due to high prices of electricity.

Conversion of light energy in electrical energy is based on a phenomenon called photovoltaic effect. Silicon is the most widely used semiconductor material for constructing photovoltaic cell. When semiconductor materials are exposed to light, the some of the photons of light ray are absorbed by the semiconductor crystal which causes significant number of free electrons in the crystal. This is the basic reason of producing electricity due to photovoltaic effect.

Detailed Project Report On

MEDIUM DENSITY FIBERBOARD

Fiberboard is a type of engineered wood product that is made out of wood fibers. Types of fiberboard (in order of increasing density) include particle board, medium-density fiberboard, and hardboard. Fiberboard, particularly medium-density fiberboard (MDF), is heavily used in the furniture industry, auto industry.

Medium density fiberboard (MDF) is a generic term for a panel primarily composed of lignocellulosic fibers combined with a synthetic resin or other suitable bonding system and bonded together under heat and pressure. Additives may be introduced during manufacturing to improve certain properties. The entire interfiber bond is formed by a synthetic resin or other suitable organic binder.

MDF is generally cheaper than plywood. The surface of MDF is very smooth which makes it great surface for painting. MDF is very consistent throughout, so cut edges appear smooth and won't have voids or splinters.

Detailed Project Report On

PET RECYCLING

Polyethylene terephthalate or PET (also known as PETE) is one of the most common types of plastic. Most single-serve plastic bottles, including those for water, soft drinks and juices, are made with PET. Designated by the recycling code “1”.

PET-bottles have a negative impact on the environments because they are polluting soil, rivers, coastal areas, air when burned and consume a lot of landfill site space. So, it is very necessary to recycle of PET-bottles to saves 65% of the energy for primary PET-production. PET recycling is the process of reprocessing plastic that already has been used before and giving it some new reusable form.

Recycled PET is converted into numerous products such as packaging applications (such as new bottles),sheet and film application, strapping, fiber applications.

Detailed Project Report On

HDPE / PP Woven Fabric

***From Tape Line using Circular Looms and Sacks Making
with Lamination of BOPP/ BOPET/ LDPE and Printing***

Woven is a method by many threads or tapes woven in two directions (warp and weft), to form a fabric for plastic industry needs. Polypropylene, which is also known as PP for short name, is one kind of thermoplastic resin material that produced by the polymerization of propylene. Because of its non toxic, non-staining 100% reusable and durable it is widely used.

The polypropylene woven fabric (PP Woven Fabric) provide strong, dependable and economical packaging option for diverse industries across the globe. These fabrics are light in weight and ideally suited for packaging corrugated or wooden boxes, cloth bales, machinery and many other finished goods for complete protection. They are used in making of bags,sacks ,Packing for Textiles, Upholstery, Carpets ,Making Tarpaulin Covers,Open Air Storage .

Detailed Project Report On

Vacuum Fried Vegetable Chips

(Sweet Potato, Beans and Beetroot)

India is one of the largest producers of potato. Besides being used as a daily food item in various vegetable preparations, potato today increasingly finds use in the form of chips or wafers as snacks food. The potato chips and wafers are popular processed food items that give considerable value addition to potatoes.

Mixed Vegetable Chips (Sweet Potato, Pumpkin, Carrot, Taro and Green Beans), mixed fruit chips and beet root chips are processed by a vacuum frying method, the latest technology using the carefully selected raw materials from the best growing regions.

The basic chips are cooked and salted, and additional varieties are manufactured using various flavorings and ingredients including seasoning, herbs, spices, cheeses, and artificial additives. Chips are a predominant part of the snack food market in English speaking countries and numerous other Western and Asian nations.

Detailed Project Report On

Khaini, Zarda & Gutka

Tobacco is an important commercial crop cultivated in an area of 0.4 million ha producing annually around 700 million kg of cured leaf out of which 260 M kg is Flue-Cured Virginia tobacco (cigarette type). India is the 3rd largest producer of tobacco in the world after China and Brazil. Flue-Cured Virginia (FCV), Bidi, Hookah and Chewing, Cigar filler, Cigar Wrapper, Cheroot, Burley, Oriental, HDBRG, Lanka etc., are the different types of tobacco grown in the country. India ranks 5th largest exporter of tobacco in the world after Brazil, USA, Malawi and Turkey.

Gutka is the refined tobacco with catechu, chuna, flavouring agents and perfumery compounds etc. It is now-a-days a very common mouth freshener. Zarda is a mixture of tobacco, lime, spices, and occasionally, silver flakes is also added to pan and chewed. Khaini is not only the cured leaves of tobacco in granular form but it contains toxic, flavouring and soothing antiseptic ingredients which makes the man fresh and free from sullenness laziness.

Detailed Project Report On

Autoclaved Aerated Concrete Blocks

(AAC Blocks)

Autoclaved Aerated Concrete (AAC) is a non-combustible, lime-based, cementitious building material that is expanding into new worldwide markets. . In our country aerated techniques have been developed for about 40 years, and its technique skills and equipments are becoming mature.

The AAC has the features of light bulk density, good thermal insulation properties and sound-absorption, certain strength and process ability, and its raw materials is very rich, especially the reuse of fly ash enables the comprehensive utilization of industrial residue, curbs environmental pollution, no destroy on farmland, create good social and economic benefits. AAC is an ideal alternative of the traditional clay brick wall materials. This is a light- weight building material produced by autoclaving a set mix of fine siliceous materials such as ground sand or fly ash and a binder like Portland cement or lime.

Detailed Project Report On

Aluminium Foil

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.

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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

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 *Cont...*

- 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

Sectors We Cover *Cont...*

- 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.

Sectors We Cover *Cont...*

- 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.

Sectors We Cover *Cont...*

- 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

Sectors We Cover *Cont...*

- 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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