

Projects for Small and Medium Scale Industries

(NPCS Newsletter – 112015)



Projects Covered In This Issue

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- ⦿ Camphor (Powder & Tablets)
- ⦿ Black Braided Silk Sutures (Non–Absorbable Surgical Suture)

Detailed Project Report On Automatic Packaged Drinking Water

- It is needless to mention that water, a compound of Hydrogen and Oxygen is a precious natural gift which is very essential for survival of mankind including animals. The water used for potable purposes should be free from undesirable impurities. The water available from untreated sources such as Well, Boreholes and spring is generally not hygienic and safe for drinking. Thus it is desirable and necessary to purify the water and supply under hygienic conditions for human drinking purpose.
- Packaged drinking water uses water from any source which has to be treated and disinfected, a process that could involve filtration, UV or ozone treatment or reverse osmosis (RO) before it is fit for human consumption.
- The mineral water is the purified water fortified with requisite amounts of minerals such as Barium, Iron, Manganese, etc which can be absorbed by human body. It is either obtained from natural resources like spring and drilled wells or it is fortified artificially by blending and treating with mineral salts. The mineral water shall be manufactured and packed under hygienic conditions in properly washed and cleaned bottles in sterilized conditions.

Detailed Project Report On

Single Core Flexible Cable

(FR LSF PVC Insulated)

- **PVC compound insulated single core and multi core flexible cables have a wide range of application in machine tools, appliances, control panels, machinery and industries of every nature. The conductors, drawn from 99.97% bright electrolytic grade copper with more than 100% conductivity, are annealed and bunched together. The conductors are insulated with a PVC compound with high insulation resistance and dielectric strength, formulated and manufactured in-house.**
- **In case of multicore cables, the insulated cores are laid up to form the core assembly. The inner cores are coded for ease of identification as per National/ International coding practices. The sheathing is provided with a specially formulated PVC compound to facilitate not only ease in stripping but also to withstand mechanical abrasion while in use. These PVC compounds used for insulation and sheathing have a high oxygen and temperature index. These properties help in restricting the spread of fire even at very high temperatures.**

Detailed Project Report On

Exercise Note Books

- ◉ Exercise books are widely known & vastly used as day-to-day products. Note books are available in the market in various sizes, shapes & pages and having various types of covers paper bound, board and Rexene bound etc.
- ◉ Exercise book is of different types and is used for different purposes. Their sizes vary according to the requirement. Though mainly used by students whether school going or college going, yet not less important for a house wife who keeps her day to day expenses record & similarly for small business men for keeping their accounts.
- ◉ With the growth of education among the masses & industrialization in the country, the demand of stationery note book for writing purposes has been increasing at a tremendous rate. All the factors such as birth rate, expenditure on education young percentage of total population, sex ratio and population living in urban area to rural area, are the important factor which determines the stationery demand within the country.

Detailed Project Report On

Cattle Feed

- **The principal feed resources for animal consumption in the country are crop residues like straws of wheat, rice and other cereals and stovers, which are very poor in feed value. Even these are in short supply. These are supplemented to some extent by relatively better quality fodders like cultivated leguminous and non-leguminous fodder grasses and concentrates. The latter are formulated largely from agro-industrial by-product and forest wastes and small quantities of low-grade cereals with the present stock of feed and fodder resources available in the country, it is impossible to meet the nutrient requirements of even the present day low-producing cattle and buffaloes. Such a situation is bound to aggravate difficulties in the feeding of better producing livestock such as cross bred lows in exploiting their full genetic potentiality for early growth, better reproduction and higher milk production.**

Detailed Project Report On Readymade Garments (T-Shirt)

- ◉ Readymade garments are a part of our daily life. Clothes are an epitome of a culture. People in different parts of the world have their own styles of dressing which symbolize their culture and status. The Readymade garments industry is increasing day by day due to changes of fashion in day to day life. The textile industry including readymade garments occupies an unique position in the Indian economy. Its predominant presence in the Indian economy is manifested in terms of its significant contribution to the industrial production, employment generation and foreign exchange earnings.
- ◉
- ◉ The changes in the life style since the onset of the liberalization era, and given the base of the industry for the overseas market, Indian garments industry have taken big strides. The entry of the Indian and global fashion designers has stimulated the market further. With the rising tailoring costs and relatively low prices of standardized products, the Indian consumer is increasingly taking to readymade. In the past, the readymade market was confined mainly to baby dresses and small manila-shirts and dress shirts. Now it has extended to trousers, suits, and lady dresses and, of course, fashion garments for men and women.

Detailed Project Report On Disposable Plastic Syringes

- ◉ Disposable Syringes made of plastic material have been successfully used in medical and pharmaceutical practice for many years. The constantly increasing use of this type Syringe indicates its importance which is based mainly on the advantages it offers regarding cost and hygienic applications. The manufacture of plastic syringes has been developed to such a degree that the products now satisfy the requirements and standards set by Hospital and physicians. At the same time they offer the best possible technique of application to the physician and the highest possible degree of safety to the patient.
- ◉ Disposable Syringes are being used by doctors to inject medicines through intravenous or intramuscular ways for the treatment of diseases & also by research & development personnel. Disposable syringes are made of plastic material and are used in the field of medical and veterinary science. Due to their availability in sterilized condition, ready to use, and cost effectiveness, disposable syringes are fast replacing the age-old glass syringes. Moreover, the horror of AIDS worldwide has almost dispensed with the reuse of syringes and the demand of disposable syringes has increased phenomenally. Disposable syringes are mostly injection moulded from polypropylene. Syringes are available in sizes of 1 ml, 2 ml, 5 ml and 10 ml, 50ml in a variety of designs and consist of either two or three components construction.

Detailed Project Report On Copper Powder by Electrolytic Process

- **Copper makes vital contributions to sustaining and improving society. Copper's chemical, physical and aesthetic properties make it a material of choice in a wide range of domestic, industrial and high technology applications.**
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- **Copper powders have been used in industrial applications for many years. Probably the best known is the self-lubricating bearing which was the first major application and still accounts for about 70% of the copper powder used. This application takes advantage of the ability to produce a component with controlled interconnected and surface-connected porosity. The production of metallic filters also takes advantage of this ability. Pure copper powder is used in the electrical and the electronics industries because of its excellent electrical and thermal conductivities. Copper in powder form is used in structural parts and friction materials. Brasses, bronzes and other copper alloys produced by powder metallurgy methods have the physical and mechanical properties of their cast or wrought counterparts.**

Detailed Project Report On

Masala Powder

- ◉
- ◉ **Spices are non-leafy parts (e.g. bud, fruit, seed, bark, rhizome, bulb) of plants used as a flavoring or seasoning, although many can also be used as a herbal medicine. A closely related term, 'herb', is used to distinguish plant parts finding the same uses but derived from leafy or soft flowering parts. The two terms may be used for the same plants in which the fresh leaves are used as herbs, while other dried parts are used as spices, e.g. coriander, dill.**
- ◉
- ◉ **Spices are no longer regarded as wonders of medicine, but they still play an important part in the manufacture of many cosmetics and perfumes and are grown commercially for their coloring and preservative properties. Nutmeg and mace are no longer the main crops of the Moluccas, but instead are grown on a large scale on the West Indian island of Grenada. Cloves, however, still come from Madagascar and Zanzibar-names that are still evocative and romantic and hint strongly of spices.**
- ◉ **Spices can be aromatic or pungent in flavors and peppery or slightly bitter in taste. In order to keep their fragrance and flavor intact, they are generally added in the cooking recipes at the last moments since, prolonged cooking results in evaporation of essential oils.**

Detailed Project Report On

Blood Bags

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- **Blood bag is a disposable bio-medical device used for collection, storage, transportation and transfusion of human blood and blood components. The system consists of a single or multiple bag connected with tubings, needle, needle cover, clamp etc. The Blood Bags are made of plastic-material, which are compatible with blood.**
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- **The introduction of flexible PVC bags for the storage of blood and its components totally replaced the use of glass bottles because of its numerous advantages. Blood bags enable better separation of blood components in a more sterile manner and safer transfusion of components. This has led to increasingly wider use of blood component therapy than whole blood use, thus enabling more effective use of the scarce donor blood that is available.**

Detailed Project Report On

Maize Processing

(Glucose, Sorbitol and Oil)

- Glucose is a monosaccharide (or simple sugar) also known as grape sugar, blood sugar, or corn sugar, is a very important carbohydrate in biology. The living cell uses it as a source of energy and metabolic intermediate. Glucose is one of the main products of photosynthesis and starts cellular respiration in both prokaryotes (bacteria and archaea) and eukaryotes (animals, plants, fungi, and protists).
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- Sorbitol, also known as glucitol, is a sugar alcohol, which the human body metabolizes slowly. It can be obtained by reduction of glucose, changing the aldehyde group to a hydroxyl group. Most sorbitol is made from corn syrup, but it is also found in apples, pears, peaches, and prunes. It is synthesized by sorbitol-6-phosphate dehydrogenase, and converted to fructose by succinate dehydrogenase and sorbitol dehydrogenase. Succinate dehydrogenase is an enzyme complex that participates in the citric acid cycle.

Detailed Project Report On Barley Malt

- **Barley Malt is germinated cereal grains that have been dried in a process known as "malting". The grains are made to germinate by soaking in water, and are then halted from germinating further by drying with hot air. Malting grains develop the enzymes required to modify the grain's starches into sugars, including the monosaccharide glucose, the disaccharide maltose, the trisaccharide maltotriose, and higher sugars called maltodextrines. Barley Malt also contains small amounts of other sugars, such as sucrose and fructose.**
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- **Barley Malted grain is used to make beer, whisky, malted shakes, malt vinegar, confections such as Maltesers and Whoppers, flavored drinks such as Horlicks, Ovaltine and Milo, and some baked goods, such as malt loaf, bagels and rich tea biscuits. Malted grain that has been ground into a coarse meal is known as "sweet meal". Various cereals are malted, though barley is the most common. Malting is the process of converting barley or other cereal grains into malt, for use in brewing, distilling, or in foods and takes place in a malting, sometimes called a malthouse, or a malting floor.**

Detailed Project Report On Camphor (Powder & Tablets)

- Camphor (*Cinnamomum camphora*) is a white, crystalline substance with a strong odor and pungent taste, derived from the wood of camphor laurel (*Cinnamomum camphora*) and other related trees of laurel family. Camphor tree is native to China, India, Mongolia, Japan and Taiwan and a variety of this fragrant evergreen tree is grown in Southern United States; especially in Florida. Camphor is obtained through steam distillation, purification and sublimation of wood, twigs and bark of the tree.
- Camphor ($C_{10}H_{16}O$), is a naturally occurring bicyclic ketone, which is principally present in the volatile oils of camphor ex *Cinnamomum camphora* (Linn.) Nees at Ebermaier, fare. Lauraceae and of ocimum from *Ocimum kilimandscharicwn* Guerke, fare. Labiatae. Camphor used to be made by distilling the bark and wood of the camphor tree. Today, camphor is chemically manufactured from turpentine oil. It is used in products such as Vicks VapoRub. Camphor products can be rubbed on the skin (topical application) or inhaled.

Detailed Project Report On

Black Braided Silk Sutures

(Non–Absorbable Surgical Suture)

- There are so many fibres available which has property of non absorbing among those fibres are nylon, Terelene, polyesters etc are synthetic fibre. Silk is one of the natural fibres which have no side effect on the body and costly items. Silk has large used in the preparation of gargious dresses and special type dresses. Black braided silk is one of the largely used in the silk zone. Sterile zone is defined as such a way, room is free from bacteria, a special type zone which is totally bacterial free by using micro filters or by physical method, of treatments like U.V. treatment, gama radiation treatment etc. or by the chemical treatment (like ozone treatment, chlorine treatment, etc).

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Niir PROJECT CONSULTANCY SERVICES

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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
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- ◉ Laboratory Testing Services
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How are we different ?

- ◉ We have two decades long experience in project consultancy and market research field
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- ◉ 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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