Pharmaceutical Pellets and Granules –


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Introduction

The word “Pellet” has been used to describe a variety of systematically produced, geometrically defined agglomerates obtained from diverse starting materials utilizing different processing conditions. Pellets range in size, typically, between 0.5 – 1.5 mm, though other sizes could be prepared. Pellets are for pharmaceutical purposes and are produced primarily for the purpose of oral controlled-release dosage forms having gastro resistant or sustained-release properties or the capability of site-specific drug delivery. For such purposes, coated pellets are administered in the form of hard gelatin capsules or disintegrating tablets that quickly liberate their contents of pellets in the stomach. As drug-delivery systems become more sophisticated, the role of pellets in the design and development of dosage forms is increasing.
Formulation of drugs in multiple-unit dosage forms, such as coated pellets filled in capsules or compressed into tablets, offers flexibility as to target-release properties. The safety and efficacy of the formulation is higher than that of other dosage forms. Solid dosage formulation and design usually involves a serious of compromises, since producing the desired properties frequently involves competing objectives. The correct selection and balance of excipients materials and processes in a solid dosage formulation, to achieve the desired response is not in practice easy to achieve. Pellets are of a great interest to the pharmaceutical industry for a variety of reasons. Palletized products not only offer flexibility in dosage form design and development, but are also utilized to improve the safety and efficiency of bioactive agents. Pellets range in size, between 0.5 to 1.5.
Pellets/ granules may have varied applications in varied industries. It just requires an innovative bend to use it to derive maximum profitability. The smooth surface & the uniform size of the pellets allow uniform coating not only for each pellet but also from batch to batch. Highlighted below are some of the few instances where smooth surfaced uniform pellets are being successfully used:

- Improved appearance of the products. Coating of pellets can be done with different drugs to enable a controlled release rate. In case of immediate Release Products larger surface area of pellets enables better distribution.
- Chemically incompatible products can be formed into pellets & delivered in a single dose by encapsulating them.
In the chemical industries it is used to avoid powder dusting. Varied applications are possible in the pellet form. Eg: sustained release. Pellets ensure improved flow properties, and flexibility in formulation development and manufacture. The coating material may be colored with a dye material so that the beads of different coating thickness will be darker in color and distinguishable from those having fewer coats. The beads or granules of different thickness of coatings are blended in the desired proportions to give the desired effect. The thickness of the coat on the pellets dictates the rate at which the drug/contents are released from the coated particles. A smooth surface of the pellets & uniform coating thickness for each pellet. By selecting the proper formulation, processing conditions and processing equipment it is possible to attain smooth surfaced & uniform pellets. The most common advantages of pelletization are:
Improved appearance of the product and the core is pharmaceutically elegant. Pelletization offers flexibility in dosage form design and development, Pellets are less susceptible to dose dumping, It reduces localized concentration of irritative drugs, It improves safety and efficacy of a drug, Pellets offer reduced variation in gastric emptying rate and transit time, Pellets disperse freely in G.I.T. and invariably maximize drug absorption and also reduce peak plasma fluctuation, Pellets ensure improved flow properties in formulation development.
The Indian pharmaceutical industry is the fourth largest in the world in terms of volume of output and thirteenth in domestic demand. However, the Indian industry, valued at USD 17 bn in represented just over 1% of the global pharmaceutical industry (USD 1700 bn) in value terms. The domestic market is estimated at Rs 680 bn. According to the Federation of Indian Chambers of Commerce and Industry (FICCI), another apex industry association, there are some 6,000 firms engaged in the sector. In terms of revenue gene-ration, there are 100 big companies (including subsidiaries of MNCs) each with sales of at least USD 650,000, 200 medium size companies with sales ranging between USD 210,400 and USD 650,000; and 5700 small companies with sales of less than USD 210,400.
Because many of these companies focus on producing similar generic or same drugs, the industry is characterized by fierce competition and high volumes, razor-thin profit margins, overcapacity, and declining prices. The growth has been driven by many factors, such as legislative reforms, growth in contract manufacturing and outsourcing, value added foreign acquisitions and joint ventures and India's acumen and expertise in reverse engineering of patented drug molecules. India has, in the meantime, been trying to comply with the World Trade Organization's Trade Related Intellectual Property Agreement (TRIPs) obligations. India is now among the top five pharmaceutical emerging markets.
The Indian pharma industry has been growing at a compounded annual growth rate (CAGR) of more than 15 per cent over the last five years and has significant growth opportunities. The Indian pharmaceutical sector is expected to grow five-fold to reach Rs 5 lakh crore (US$ 91.45 billion) by 2020, as per Dr A J V Prasad, Joint Secretary, Department of Pharmaceuticals (DoP). The industry, particularly, has been the front runner in a wide range of specialties involving complex drugs' manufacture, development, and technology. With the advantage of being a highly organized sector, the number of pharmaceutical companies are increasing their operations in India.
Few Indian Major Players are as under

Bbott India Ltd.
Anglo-French Drugs & Inds. Ltd.
Biological E. Ltd.
Boehringer Mannheim India Ltd.
Cadila Laboratories Pvt. Ltd.
Cadila Pharmaceuticals Ltd.
Chemcel Biotech Ltd.
Cosme Farma Laboratories Ltd.
Fermenta Biotech Ltd.
H P M Industries Ltd.
Indian Drugs & Pharmaceuticals Ltd.
Inventia Healthcare Pvt. Ltd.
Pharmacia Healthcare Ltd.
Rhyme Organics & Chemicals Ltd.
Sandoz (India) Ltd.
Sarvodaya Labs Ltd.
Shiv Herbal Research Laboratory Ltd.
Sidmak Laboratories (India) Pvt. Ltd.
Smith Stanistreet Pharmaceuticals Ltd.
Stanpacks (India) Ltd.
T T K Healthcare Ltd.
Varun Polymol Organics Ltd.
Virgo Polymers (India) Ltd.
Wallace Pharmaceuticals Ltd.
## Project at a Glance

### COST OF PROJECT

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<th>Particulars</th>
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<th>Total</th>
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### MEANS OF FINANCE

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## Project at a Glance

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## Project at a Glance

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## Project at a Glance

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<table>
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<th>Description</th>
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<td>Preference Share Capital</td>
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Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on 
Pharmaceutical Pellets & Granules 

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- We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients’ in India & abroad
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- 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)
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

1. Requirement collection
2. Thorough analysis of the project
3. Economic feasibility study of the Project
4. Market potential survey/research
5. Report Compilation

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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

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Sectors We Cover  

- 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

- 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
Sectors We Cover

- 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.

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Sectors We Cover

- 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.

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Sectors We Cover  

- 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
Take a look at NIIR PROJECT CONSULTANCY SERVICES on
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