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Presents

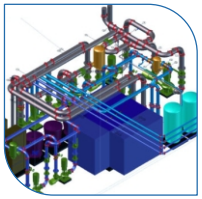
Project

Support Services

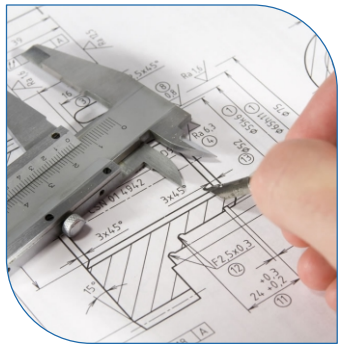
for

PHARMACEUTICALS

Manufacturing Facility






INTRODUCTION

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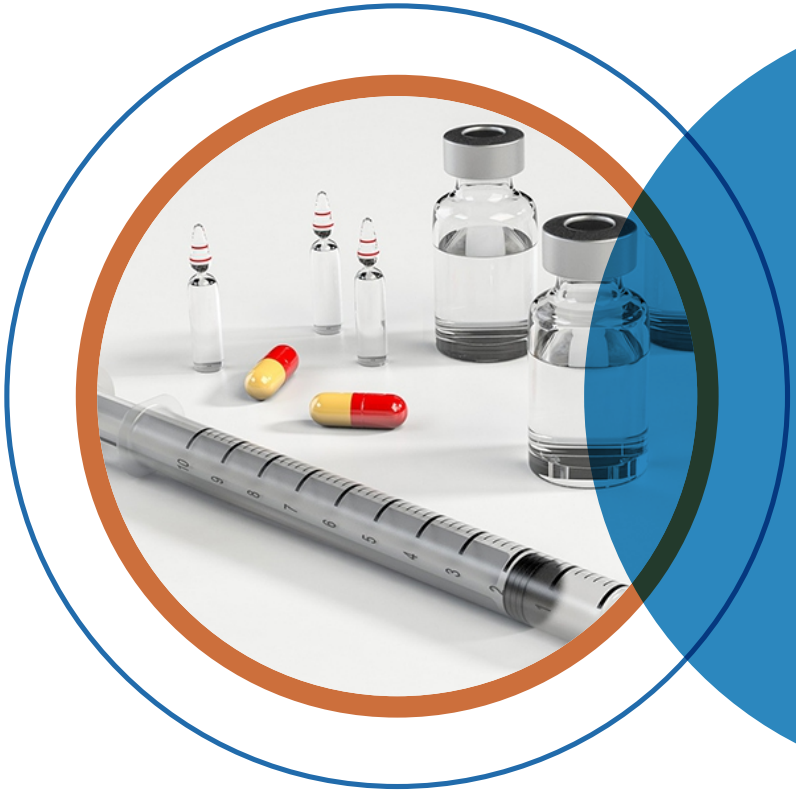
As it has been made the survey that amongst the most encouraging business in the markets around the world today, is the industry which has been giving the new generation to the world of life science. Now days, human lives have become so precious that to save the life of a human being has been a motto of a human being. To expand the possibly the motto, the pharmaceutical industry has been able to give a very breakthrough to the industry in a way of introducing many more of the molecules and dredges to the world.

The - Turnkey Project team **Harikrushna Machines Pvt. Ltd. (HMPL)** consists of a diverse yet cohesive pool of experts with a feedback-rich dynamic environment that embraces change and learns from their collective experiences. We thrive on innovative design, validation, construction & in-operation Pharmaceutical plant is ready for operations. This adds value to our clients and their subsequent end-users and also adds great intrinsic value to our talent pool.



The core purpose for us to be in business is to add tangible value from a strategic business idea to Commercialization. We always thrive to serve our valued clients with the best & most comprehensive technical consulting and End to end (Turnkey solutions for Pharma Plant Establishment).

SERVICES

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Giving an idea of operations, we like to highlight our key specialization to support any Pharmaceutical venture as below,

- Industry Guidance
- Investment suggestion & Guidance
- Manufacturing Guidance to follow GMP compliance (Product, Process, Plant & Execution)
- Regulatory Guidance accordance to the operation level set to meet accreditations
- Identifying the possibilities to explore business opportunities to meet investment plan
- Support system for manufacturing facility for start-up
- Plant Management - Supply Chain management, Input sources, Manufacturing methods & process, Laboratory management, New product development
- Supporting system Marketing set up to explore business model to achieve independent goal & identity creating within Domestic & International market
- International Regulatory support, Guidance, Compliance, Documentation, Training & support to meet the Audits
- Product sourcing, Sales & Marketing infrastructure, Contract manufacturing & sourcing
- International Sourcing contracts, Government Tender supplies & Market sourcing for SOS requirements

OFFERINGS

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Meeting the requirement to protect Human life in the best possible way, industry regulators have initiated the most stringent norms to maintain the manufacturing standards. Keeping in mind cost & profit gaining markets can benefit, regulatory & world health organizations have started creating specified standards to comply for any pharmaceutical industry. Over a period, time of market status, surveys & incidence reports has projected few principle polices to be followed by every pharmaceutical manufacturing plant. Following the same rules & make it more convenient to avoid human interface & errors, it's identified to part manufacturing process & categorize with product & molecule identity.

Referring the same, the manufacturing process is divided among Dosage forms & this dosage forms are applied into product categories. Which can be identified as below,

Oral Solid Dosages

Tablet
Capsule
Liquid Orals
Dry Powder – Syrups
Dry Powder Orals (ORS)
Cachet
Lozenges

Injections (Sterile)

SMALL VOLUME PARENTAL (SVP)

Liquid Injection – Vial / Ampoule
Dry Powder Injection
Lyophilized Operations
Pre-filled Syringes

LARGE VOLUME PARENTAL (LVP)

IV – Fluids – Form/Fill/Seal

External Preparation

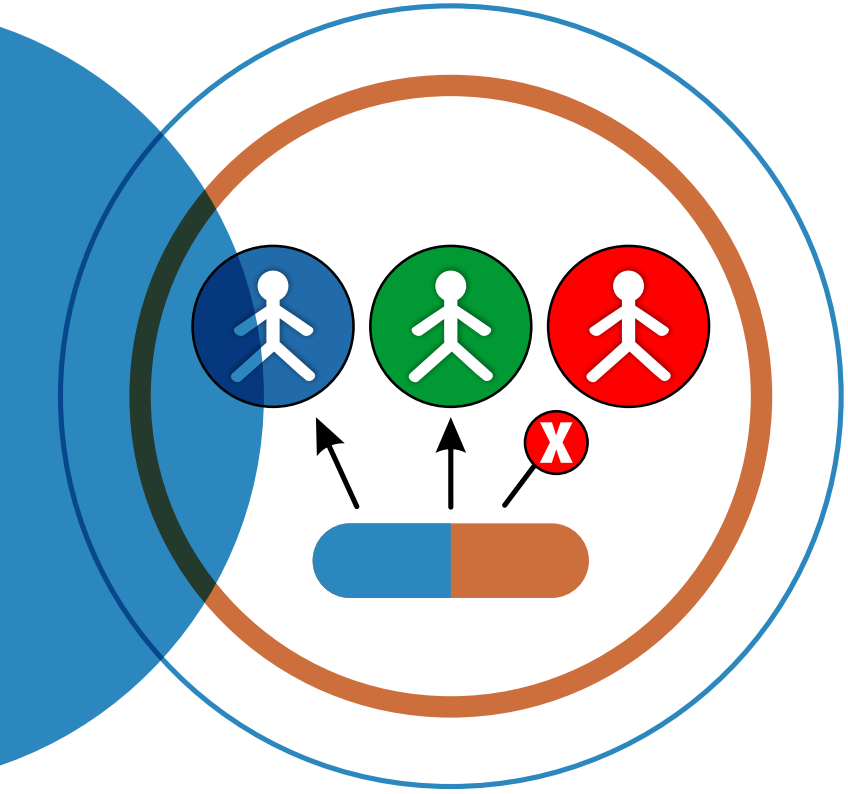
Ointment
Toothpaste, Cream
Inhaler
Aerosols

Ophthalmic Preparation

Eye/Ear Drops

CATEGORY SELECTION

Upon identification of above dosage forms there are identification of product categories which can be supported in Dosage forms.



- General Section – Non-Betalactum
- Betalactum – Antibiotics
- Cephalosporins
- Anti – Cancer
- Hormones
- Veterinary

INVESTMENT SUGGESTION & GUIDANCE

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As an experienced business investor, one can identify the goal to work on any business proposal. Upon this goals, business targets are to be set. On understanding the targets, our support comes to analyze the investment mentality.

Understanding the investment criteria, we can provide options how business proposal can work. If the investment is imitated with a pharmaceutical background group, then it can help us to present our options batter. In case of non-pharma background, need to understand the business how it works & accordingly we can provide our business projections.

Also, the investment has to be criteria confined. If the business is focused to create own market establishment, then the plant & investment criteria changes. If the business focused for only job work prospects, then the investment terminology changes.

So, in all, our team helps any investor to decide the scope of business in any required terminology for business investment gets the thought process a correct direction to work.

GUIDANCE TO FOLLOW GMP COMPLIANCE

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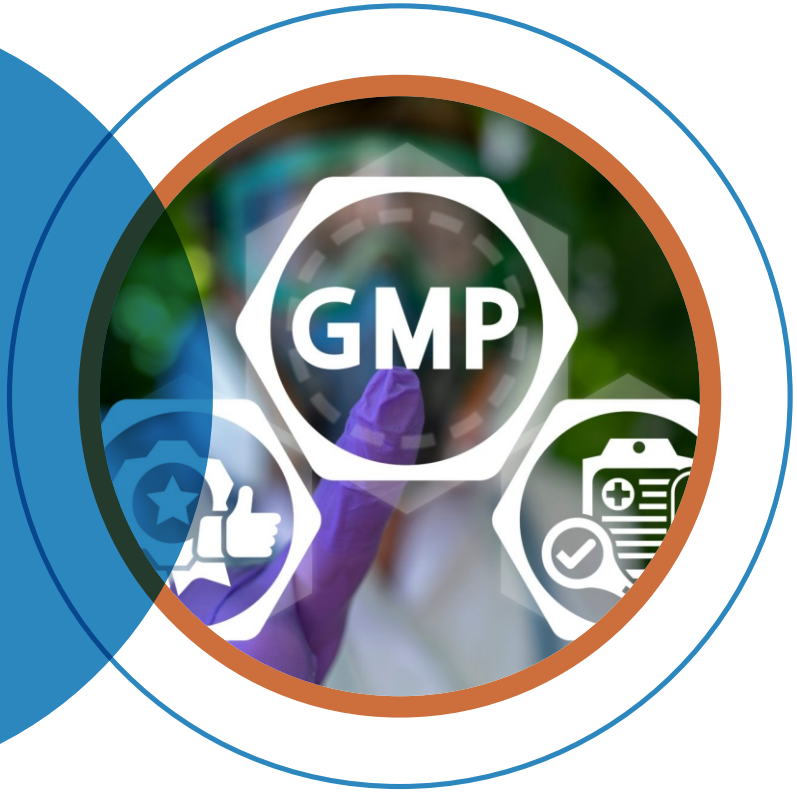
Manufacturing guidance will understand required compliance to any plant will require in case of setting up a pharmaceutical manufacturing unit. The criteria can be identified as below,



- Plant design – upon GMP compliance to the regulatory requirement
- Plant building - Follow GMP Compliance of regulatory requirement keeping in mind investment, manufacturing process suitability & esthetic requirement.
- Selection of equipment with synchronization of utility, allied equipments to match the manufacturing process for utmost possible products in same area to follow validation to match GMP compliance.
- Justifying the GMP manufacturing method with the process equipments identified to install with collective capacities & operations.
- Plant design to handle in manufacturing process with flow to maintain utmost care to comply GMP requirements.
- Human resource & recruitment to meet & handle most silent, sophisticated & smooth operations. This also follow right selection, eligibility, knowledge, capabilities, training & dedication to work.
- Correctly selected human interface with automation to the right side of the operations.
- Design to handle correctly the material movement – raw material, in process & finished with most justified identification to avoid most possible errors which can cause a great effect to end user.

REGULATORY GUIDANCE GMP COMPLIANCE

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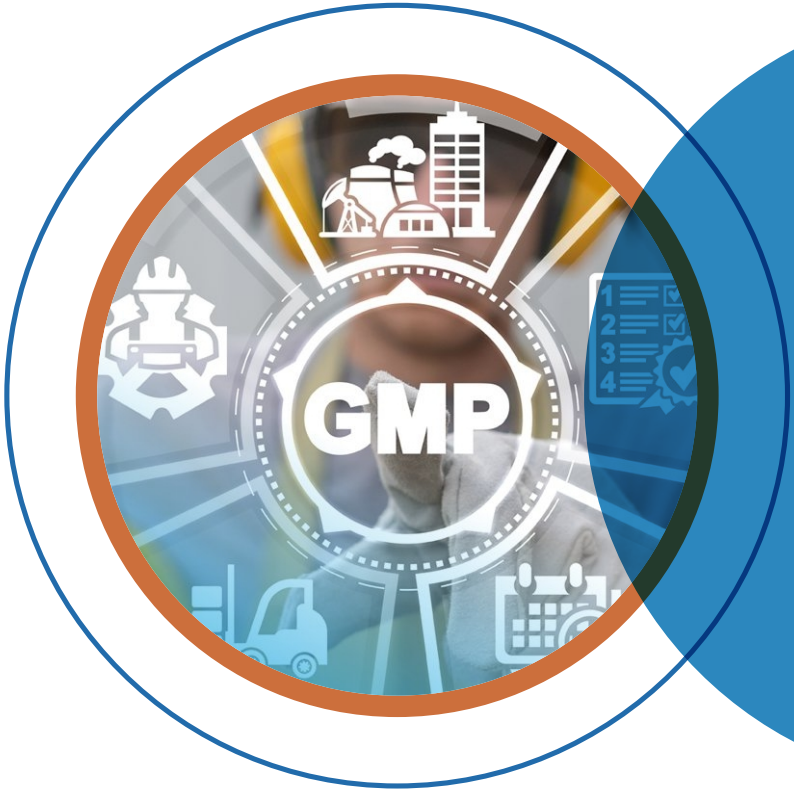
Being a human healthcare industry management, need to present & get approved all manufacturing facility with local regulatory department. For this need to follow the guidelines given by local & central authority of food & drug department. Following the required compliance by the local authorities, the implementation has to be at par or above but can not go below standard. If so not followed, this can be not permissible implementation & not given approval to operate.

Our team works with utmost consciousness to comply & meet all the necessary requirements for Plant design, equipment selection, product selection, utility reequipment, validation processes, manufacturing compliances, quality approvals, and handling protocols to meet regulatory standards for domestic or international reequipment where we intend to present.



IDENTIFYING POSSIBILITIES TO EXPLORE BUSINESS OPPORTUNITIES TO MEET INVESTMENT

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What are you going to sell?
What price you are going to sell?

For any start-up this is a very upfront question to look for the reply. How is the business going to perform? & How one can justify the business to take care of the investment or return on investment?

Justify your investment in right manner will require investment with right distribution & allocation. As elaborated earlier, the investment will require different segment of project. Each segment of project will justify its possibility to meet the return-on-investment plan.

The most important is to identify sales & marketing. As decided, prior to the project incitation, it is identified the source of services we will provide with project. Our own marketing, sales & distribution or contract manufacturing.

This can be identified & executed with the project execution & according the operation investment can be divided. The general support to this division can be as below.

- Own Marketing (Domestic) – Ethical sales, Generic sales, Franchise allotment or OTC selection
- Own Marketing (International) – Depending on Countries identified, guidance to the registration process, plant & product, followed with distribution chain set-up with business guarantee.
- Contract Manufacturing (Domestic) – Contact manufacturing from local marketing companies & exporters who will have their registration for our plant, usually they are identified as virtual manufacturers.
- Contract Manufacturing (Export) – Connecting virtual manufacturer among different companies who look for manufacturing partners.
- Manufacturing collaborations

SUPPORT SYSTEM FOR FACILITY START-UP

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The integration of a planning with product selection to plant design, equipment selection & operation synchronization will support the smooth start-up to any manufacturing facility. Supporting the same integration, need team for management & hierarchy to support facility start-up.

Support to identify, organize & recruit manpower to meet the targeted infrastructure results. This can be a backbone for any manufacturing facility to have right sourcing of recruitment to be placed during the right time of operations initiation.

This support will require the placement of human resource with below criteria implementation,

- Adequate knowledge to fit work profile
- Adequate status to perform complete eligibility & skill
- Adequate knowledge to support team - accompanying, Lower & Above
- Adequate nature to adopt
- Adequate training for specific work
- Adequate knowledge & training to meet international compliance standards

PLANT MANAGEMENT

SUPPLY INPUT,
MANUFACTURING & PROCESS
QUALITY CONTROL (Q.C)
NEW DEVELOPMENT

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ADMINISTRATION & PLANT MANAGEMENT:

- Analyzing production requirement
- Suggest right Equipment, utility & infrastructure support - Given options & feature comparison
- Vendor selection & multiple options
- Set-up supply chain Equipment, utility, consumable, Raw Material with staff training.
- Analytical laboratory set up – suitability for manufacturing process & regulatory requirements
- Staff training & manufacturing process development
- Standard Operating Procedures (SOP) generation – from start operation to manufacturing process certification.
- Validation clearance for all SOP, equipments, utility & operations.

PROJECT EXIT

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Following the presentation, we conclude the final implementation & execution stage. Our team will support for final execution which can be identified as exit point. This will include stage as below,

- Final Installations – Machinery, utility, Lab., Support systems & operations
- Validations of all implementation & installation with GMP compliance to meet regulatory guidelines.
- System management evaluation & execution following GMP compliance
- Analysis batch support, following documentary compliance & record execution
- Regulatory documentation to start approval for commercial production execution.

THANKING YOU,

NIRAV PANCHAL
VICE PRESIDENT

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HARIKRUSHNA
MACHINES PVT. LTD.

"THE NAME, MARK OF THE TECHNOLOGY, QUALITY & PERFORMANCE"

Packaging RAW Material For Industry Verticals

- Pharmaceutical
- Food
- Cosmetics
- Pesticides
- Automobiles
- Distilleries
- Confectioneries

Turnkey Project Handling for

- Pharmaceuticals Manufacturing
- Dairy Products Manufacturing
- Beverages Manufacturing
- Cosmetics Manufacturing

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