

# Outlook for Indian Pharma Machinery

**Dr. Sanjay Agrawal**

The Indian pharmaceutical machinery sector plays a pivotal role in the pharmaceutical industry, contributing significantly to its growth and development. As the pharmaceutical industry continues to expand globally and domestically, the outlook for Indian pharma machinery remains promising. Here is an overview of the outlook for Indian pharma machinery:

**Continuous Growth:** The Indian pharmaceutical machinery sector has witnessed continuous growth in recent years, driven by rising pharmaceutical production, increased investments in research and development, and growing exports. This growth trend is expected to persist as the demand for pharmaceutical products remains strong.

**Quality and Compliance:** The pharmaceutical industry places a strong emphasis on quality and compliance with international standards and regulations. Indian pharma machinery manufacturers are focusing on enhancing the



quality of their products to meet these stringent requirements. This commitment to quality is expected to further boost the sector's reputation globally.

**Innovation and Technology Adoption:** To stay competitive, Indian pharma machinery manufacturers are embracing innovation and adopting advanced technologies. This includes the incorporation of automation, robotics, and data analytics to improve production efficiency, reduce costs, and ensure product consistency.

**Increasing Export Opportunities:** Indian

pharmaceutical machinery is in demand not only within the domestic market but also in international markets. Indian manufacturers are exporting their machinery to various countries, capitalizing on the global pharmaceutical industry's expansion. As more countries seek affordable and high-quality pharmaceutical production equipment, India is poised to benefit.

**Government Initiatives:** The Indian government has been supportive of the pharmaceutical industry and related sectors, including machinery manufacturing. Initiatives like 'Make in India' and policy reforms have created a conducive

environment for the growth of the pharma machinery sector.

**Challenges:** While the outlook is positive, the sector does face challenges such as increasing competition, price sensitivity, and the need to adhere to evolving global regulatory standards. To address these challenges, Indian manufacturers are focusing on research and development to offer innovative and cost-effective solutions.

**Customization and Flexibility:** Pharma companies are increasingly looking for customized machinery solutions that align with their specific production needs. Indian manufacturers are adapting to this trend by providing flexible and tailor-made equipment.

**Environmental Sustainability:** Sustainability is gaining importance across industries, including pharmaceuticals. Indian pharma machinery manufacturers are working on environmentally friendly solutions, such as energy-efficient equipment and waste reduction technologies, to

*(Continued on page 122)*



## VIBGYOR CHEMICAL INDUSTRIES

Importers, Distributors, Suppliers & Stockists of  
Rosin, Waxes, Chemicals & Solvents.

- |                                      |                                    |                            |                               |
|--------------------------------------|------------------------------------|----------------------------|-------------------------------|
| ❖ Gum Rosin (Indonesia /Indian)      | ❖ Methanol                         | ❖ DCDA                     | ❖ Propylene Glycol (PG)       |
| ❖ Paraffin Wax (Fully/ Semi Refined) | ❖ Stearic Acid (PVC /Rubber Grade) | ❖ Acrylamide               | ❖ Phosphoric Acid             |
| ❖ Waxes – (Slack / Residue)          | ❖ Nonyl Phenol (Alphox)            | ❖ SLES / SLS               | ❖ DiMethyl Formamide (DMF)    |
| ❖ Chlorinated Paraffin Wax (CPW)     | ❖ Xylene (Ortho/ Mix)              | ❖ AOS (powder / liquid)    | ❖ Salicylic Acid              |
| ❖ Di Octyl Phthalate (DOP)           | ❖ Maleic Anhydride                 | ❖ Tri Ethanol Amine (TEA)  | ❖ Phosphorus Oxchloride       |
| ❖ Di Butyl Phthalate (DBP)           | ❖ Phthalic Anhydride               | ❖ Tricloroethelene (TCE)   | ❖ Di Ethylene Glycol (DEG)    |
| ❖ Liquid Paraffin (Heavy / Light)    | ❖ Pentaerythritol                  | ❖ Ammonium Chloride        | ❖ Mono Ethylene Glycol (MEG)  |
| ❖ Petroleum Jelly                    | ❖ Formaldehyde                     | ❖ Citric Acid (Mono)       | ❖ Iso Propyl Alcohol (IPA)    |
| ❖ Rubber Process Oil (RPO)           | ❖ Caustic Soda / Caustic Potash    | ❖ Boric Acid / Borax       | ❖ TETA                        |
| ❖ Liquid Glucose                     | ❖ Soda Ash                         | ❖ Oxalic Acid (94% / 99%)  | ❖ DETA                        |
| ❖ Melamine                           | ❖ Pyridine                         | ❖ Benzoic Acid             | ❖ Toluene                     |
| ❖ Hexamine                           | ❖ MDC                              | ❖ Poly Vinyl Alcohol (PVA) | ❖ Acetone                     |
| ❖ Glycerine                          | ❖ Urea (Technical)                 | ❖ Phosphorous Oxychloride  | ❖ Sodium Petroleum Sulphonate |

Contact Person : VISHAL CHAUDHARY - Mobile : 9820443932

Tele Fax: 022-40233999 | Office: 8355953073 | E-mail: vishal@vibgyorchemical.com / marketing@vibgyorchemical.com | Website: www.vibgyorchemical.com

# SPECIAL FEATURE

(Continued from page 121)

align with global sustainability goals.

## A promising future for the Indian pharma machinery industry

The outlook for the Indian pharma machinery industry is exceptionally bright. Despite a few challenges, the sector is poised for continued growth and development, thanks to several key factors.

One of the primary drivers of this growth is the remarkable expansion of the Indian pharmaceutical industry. The sector has consistently achieved double-digit growth rates, a trend expected to persist in the coming years. President of the Indian Pharma Machinery Manufacturers Association (IPMMA), Rattan Singhania, anticipates that the industry will maintain or even surpass its previous growth rates.

What sets the Indian pharma machinery industry apart are its robust machine designs, incorporating the latest engineering technology, all while maintaining highly competitive costs. Furthermore, the industry is adapting to meet the increasing demands for high-quality and advanced features from both domestic and international pharmaceutical manufacturing facilities.

This adaptability results in improved performance, shorter product changeover times, plug-and-play options, tool-less changeovers, reduced power consumption, minimal skilled manpower requirements, increased automation, aesthetic designs, and compliance with Current Good Manufacturing Practices (C-GMP).

Indian pharma packaging machine manufacturers have also made strides in producing high-quality machines. However, there's a need for a focus on machine finishing, consistency in performance, adherence to customer requirements,



minimal parts change, and efficient changeover times. The flexibility to handle sticker and paper labels and versatility with both glass and PET bottles are essential considerations.

The Indian pharmaceuticals market itself is poised for remarkable expansion, with a forecasted Compound Annual Growth Rate (CAGR) of 23.9 percent, set to reach \$55 billion by 2020. India's pharmaceutical industry, known for its quality and efficiency, has become a vital resource for pharmaceutical machinery, laboratory equipment, Active Pharmaceutical Ingredients (APIs), and bulk actives on the global stage.

Notably, machinery manufactured in India is exported to more than 92 countries worldwide, with India also exporting APIs, bulk actives, and formulations to over 120 countries. These exports have gained global recognition and trust for their quality.

The growth of the pharmaceutical industry is likely to drive further developments in the Indian pharma machinery sector. As pharmaceutical companies expand, they will invest in modernizing their existing technologies and acquiring new machinery.

Historically, India was heavily reliant on importing machinery and equipment for its pharmaceutical manufacturing needs. However, the tide has turned, and India now exports pharmaceutical machinery to approximately 92 countries worldwide. Indian-made

pharmaceutical machineries have been installed and are operational at FDA-approved manufacturing facilities in countries such as the United States, Australia, and Africa, meeting international standards and parameters. This global recognition highlights the importance of machinery that incorporates advanced technologies.

The Indian pharma machinery industry stands as a strong backbone for the Indian pharmaceutical manufacturing sector, offering robust machines with world-class technology and efficient after-sales service in the domestic market.

In addition to these positive trends, the IPMMA is actively working to enhance client-server relationships through various promotional activities. These initiatives include the PHARMA Pro&Pack Expo, an international exhibition on total pharma manufacturing technologies, and the

concurrent PharmaLAB Expo, featuring analytical lab instruments and supplies.

The RBSM's primary objective was to promote 'Made-in-India' pharma machinery and engineering to global pharmaceutical markets. The event played a pivotal role in supporting and encouraging Indian pharma machinery exports, particularly from the SME sector.

## Growth Assumptions by 2030

The Indian pharmaceutical industry is poised for substantial growth and is expected to reach \$130 billion by 2030, making it a leading global provider of medicines, according to Sudarshan Jain, the Secretary General of the Indian Pharmaceutical Alliance (IPA). Currently valued at \$49 billion, the Indian pharmaceutical industry ranks as the third-largest globally and supplies

(Continued on page 123)

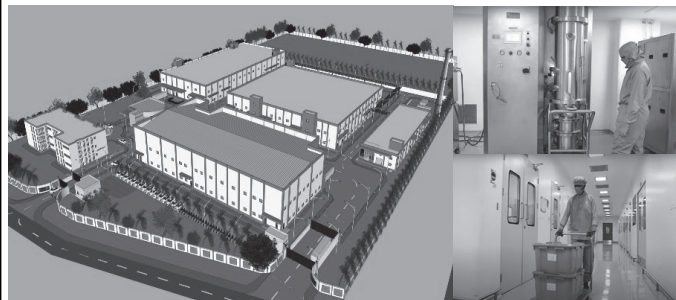


## Integrated Project Management Services

### Turnkey Project

- ❖ Pharmaceutical's ❖ Chemical's ❖ Bulk Drug's
- ❖ Biopharmaceutical's ❖ Food & Beverages

One Stop Solution for Plant Design, Set-up, Commissioning & Qualification...!!!



- Architecture Engineering
- Mechanical Engineering
- Electrical Engineering
- HVAC & Cleanroom
- Civil & Structural Engineering
- Process Engineering
- Instrumentation Engineering
- Commissioning & Validation

Add: 301/C, Wifi Park IT Premises, Co Society Ltd, Wagle Est. Thane, 400604.  
Web: www.ipms-engg.com Email: mktg@ipms-engg.com Phone: 7045388568

## SPECIAL FEATURE

(Continued on page 123)

medications to over 200 countries.

Speaking during a three-day trade show on laboratory technology and pharmaceutical machinery segments, Sudarshan Jain emphasized the need for innovation, self-reliance, diversification of export markets, and building capacity to ensure the Indian industry is well-prepared for the future. He noted that as India becomes the fifth-largest economy globally, it has an opportunity to make a significant impact on the world stage.

Dr. Viranchi Shah, National President of the Indian Drug Manufacturers Association (IDMA), highlighted the role of Production Linked Incentive Schemes (PLIs) and cluster manufacturing in driving growth in the pharmaceutical sector. He expressed the ambition for India to become the top player in the

pharmaceutical industry within the next 25 years, underlining that PLIs and cluster manufacturing would reduce the country's reliance on imports.

Ravi Uday Bhaskar, Director General of Pharmexcil, acknowledged the bright future of the Indian pharmaceutical and allied industries but also pointed out the challenges they face. He emphasized the importance of streamlining the industry, particularly in terms of regulations, to address varying policies in different countries. Bhaskar stressed the need for a common regulatory framework, akin to the European Union standards, to facilitate the growth of the pharmaceutical industry.

The concurrent trade shows, Analytica Anacon India, India Lab Expo, and Pharma Pro & Pack Expo 2022, serve as platforms for industry decision-makers,

stakeholders, policymakers, manufacturers, and buyers of pharmaceutical machinery, analytical equipment, and laboratory technology. Organized jointly by the Indian Pharma Machinery Manufacturers Association (IPMMA), the Indian Analytical Instruments Association (IAIA), and Messe Muenchen, these trade shows feature over 400 suppliers showcasing more than 5,000 products in an exhibition space spanning nearly 18,000 square meters.

The trade shows were inaugurated with a tree plantation ceremony attended by Madan Mohan Reddy, Director of Aurobindo Pharma, and other dignitaries.

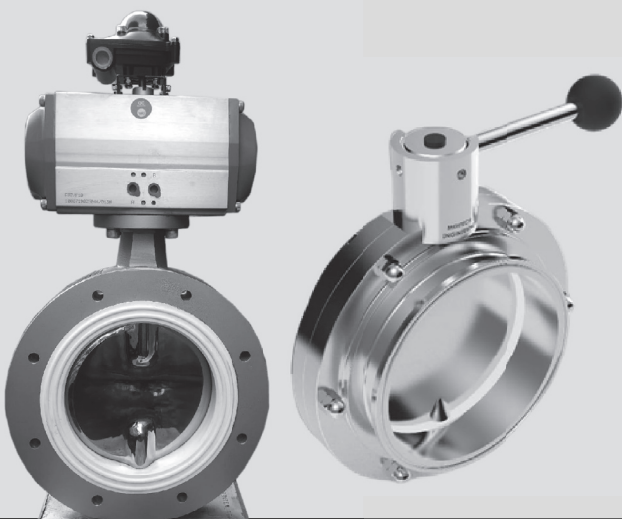
In conclusion, the Indian pharma machinery industry is on a trajectory of sustained growth and global recognition. It continues to provide cutting-edge technology, superior quality,

and responsive service to the pharmaceutical manufacturing sector, both domestically and internationally.

The outlook for Indian pharma machinery is optimistic. The sector's growth is driven by a combination of factors, including increasing pharmaceutical production, quality consciousness, innovation, and government support. As the pharmaceutical industry continues to evolve and expand, Indian pharma machinery manufacturers are well-positioned to cater to the rising demand, both domestically and internationally, while maintaining a focus on quality and compliance. ●

(The author is pharmaceutical consultant)

### Manufacture for **BUTTERFLY VALVE, TC END VALVES.**



Engineering Solution

#### **MEHTECH ENGINEERING PVT LTD**

10/11, Dattatray Building No 1, Dhuri Industrial Estate 2, Satali, Vasai (E), Palghar-401208, Maharashtra, India  
**Mobile:** 9892150310  
**Email:** rupesh@mehtech.in, mehtechengineering@gmail.com

## S.A.I. PRODUCTS

W-54, PHASE II, M.I.D.C.AREA, DOMBIVLI (EAST) – 421 204.  
**Mob: +91 9821142051 ● Email: saiproducts@yahoo.co.in**

PRODUCTS	APPLICATIONS
<b>CHEMICAL INTERMEDIATES</b>	
i) Sodium Azide	For Bulk Drug Intermediates, For Explosives & Agricultural Products
ii) Ethyl/Methyl Palmitate	As Chemical Intermediate
iii) Ethyl/Methyl Oleate	
<b>AGRICULTURAL PRODUCTS</b>	
i) MFA (Triacontanol) Powder & Formulation-2%, 1%, 0.1%, 0.05%	Plant Growth Promoter
ii) Dipping Oil	Fruit Drying Oil
iii) Biosuper	Plant Growth Regulator
iv) SuperFresh	For Fruits & Vegetables
v) Vegetable/Fruit Special	
vi) Herbogaurd	Soil Fumigator
<b>BIO PRODUCTS</b>	
i) Sophorolipid-Biosurfactant	Used in Paint Industries, Biological, Agricultural, Bio-Processing, Cosmetic, Soap, Detergent, Mining, Petroleum, Environmental, Food Industries.
<b>POULTARY FEED ADDITIVE</b>	
i) Enhanso Powder	Additive for Poultry Feed
ii) Enhanso Liquid	