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## EXECUTIVE SUMMARY

<table>
<thead>
<tr>
<th>Leading pharma producer</th>
<th>Indian pharmaceutical industry supplies over 50 per cent of global demand for various vaccines, 40 per cent of generic demand in the US and 25 per cent of all medicine in UK.</th>
</tr>
</thead>
<tbody>
<tr>
<td>One of the highest exports</td>
<td>India accounts for 20 per cent of global exports in generics. India’s pharmaceutical export stood at US$ 20.70 billion in FY20.</td>
</tr>
<tr>
<td>Among fastest growing industries</td>
<td>Indian pharmaceutical sector is expected to grow at a CAGR of 22.4 per cent in the near future and medical device market expected to grow US$ 25 billion by 2025. India is the second largest contributor of global biotech and pharmaceutical workforce. The pharmaceutical sector was valued at US$ 33 billion in 2017.</td>
</tr>
<tr>
<td>Rapidly growing healthcare sector</td>
<td>Indian healthcare sector, one of the fastest growing sectors, is expected to cross US$ 372 billion by 2022.</td>
</tr>
<tr>
<td>Robust growth in Biotech industry</td>
<td>By FY25, India’s biotech industry is estimated to increase to US$ 100 billion.</td>
</tr>
</tbody>
</table>

**Source:** ¹ FICCI - Trends & Opportunities for Indian Pharma 2018, Pharmexcil, Assocham and RNCOS
ADVANTAGE INDIA

- Low cost of production and R&D boosts efficiency of Indian pharma companies, leading to competitive exports. Indian pharma export reached US$ 20.70 billion in FY20.
- India’s cost of production is approximately 33 per cent lower than that of the US.
- India’s ability to manufacture high quality, low priced medicines, presents a huge business opportunity for the domestic industry.

- Economic prosperity to improve drug affordability.
- Increasing penetration of health insurance to drive expenditure on medicine.
- With increasing penetration of pharmacies, especially in rural India, OTC drugs will be readily available

- Increasing private sector investments in R&D and acquisitions are driving the sector’s growth.
- Between 2008-19, the S&P BSE Healthcare Index has grown at 16.72 per cent.

- Pharma Vision 2020’ aimed at making India a global leader in end-to-end drug manufacturing.
  - Under Budget 2020-21, allocation to the Ministry of Health and Family Welfare is Rs 65,012 crore (US$ 9.30 billion)
  - In this sector, 100 per cent FDI is allowed under automatic route.

Note: 2020 revenue forecasts are estimates of McKinsey, API - Active Pharmaceutical Ingredients, F – Forecast, OTC - Over-The-Counter
Source: PwC, McKinsey, Pharmaceuticals Exports Promotion Council of India
MARKET OVERVIEW
STRUCTURE OF PHARMA SECTOR IN INDIA

Pharmaceuticals

Active Pharmaceutical Ingredients/ Bulk drugs
- Branded
- Generics

Formulations
- Branded
  - Cardiovascular
  - Anti-Diabetes
  - Gastro-Intestinal
  - Neurological
- Generics
  - Anti-infectives
  - Respiratory
  - Pain
  - Gynecology

Source: Dun and Bradstreet
EVOLUTION OF INDIAN PHARMACEUTICAL SECTOR

- Indian Patent Act passed in 1970
- Several domestic companies start operations
- Development of production infrastructure
- Export initiatives taken
- Increased patent filings by pharma players
- Likely adoption of newer sales models such as channel management, KAM and CSO
- The National Pharmaceutical Pricing Policy, 2012 (NPPP-2012)
- In Union Budget, 2016, FDI increased to 74 per cent in existing pharmaceutical companies and 100 per cent for new projects
- The Government of India unveiled ‘Pharma Vision 2020’ aimed at making India a global leader in end-to-end drug manufacture. Approval time for new facilities has been reduced to boost investments.

Notes: KAM - Key Account Management, CSO - Contract Sales Organisation
Source: TechSci Research
Important Segments in Indian Pharmaceutical Sector

### Active Pharmaceutical Ingredients (APIs)
- Domestic API consumption is expected to reach US$ 18.8 billion by FY22¹.
- In April 2019, a high-level task force was constituted to create a roadmap for increasing domestic production of APIs. Currently India imports over 60 per cent of its APIs from other countries.

### Contract Research and Manufacturing Services (CRAMS)
- Fragmented market with more than 1,000 players
- CRAMS industry has posted 48 per cent CAGR between FY15-18 and expected to witness a strong growth over 25 per cent over 2018-21.

### Formulations
- Largest exporter of formulations in terms of volume, with 14 per cent market share and 12th in terms of export value.
- Double-digit growth is expected over the next five years

### Biosimilar
- The Government plans to allocate US$ 70 million for local players to develop Biosimilar.
- The domestic market is expected to reach US$ 40 billion by 2030.
- As on August 2019, the moving annual turnover (MAT) for biosimilar molecules sold in the domestic market stood at Rs 1,498 crore (US$ 214.31 million).

---

### Notes:
OTC - Over The Counter,* including biologicals

India’s domestic pharmaceutical market turnover reached Rs 1.4 lakh crore (US$ 20.03 billion) in 2019, growing 9.8 per cent year-on-year (in Rs) from Rs 129,015 crore (US$ 18.12 billion) in 2018.

Medicines pending in India is projected to grow 9-12 per cent over the next five years, leading India to become one of the top 10 countries in terms of medicine spending.

India’s cost of production is significantly lower than that of the US and almost half of that of Europe. It gives a competitive edge to India over others.

The Ayurveda sector in India reached US$ 4.4 billion by 2018 end and grow at 16 per cent CAGR till 2025.

In May 2020, the Indian pharmaceutical sales grew 9 per cent y-o-y to Rs 10,342 crore (US$ 1.47 billion).

Source: Department of Pharmaceuticals, PwC, McKinsey, AIOCD AWACS, , IQVIA, CII
1With 70 per cent of market share (in terms of revenues), generic drugs form the largest segment of the Indian pharmaceutical sector. Over the Counter (OTC) medicines and patented drugs constitute 21 per cent and 9 per cent, respectively.

- The share of generic drugs is expected to continue increasing; domestic generic drug market is expected to reach US$ 27.9 billion in 2020.
- Due to their competence in generic drugs, growth in this market offers a great opportunity for Indian firms.
- Based on moving annual turnover, Anti-Infectives (13.6%), Cardiac (12.4%), Gastro Intestinals (11.5%) had the biggest market share in the Indian pharma market in 2018.
- The highest growth in sales in 2018 were seen in hormones (14.2%), anti diabetic (12.9%), and respiratory (12%).
- During December 2019, on moving annual total (MAT) basis, industry growth was at 9.8 per cent, with price growth at 5.3 per cent, new product growth at 2.7 per cent while volume growth at two per cent y-o-y.

Source: FCCI Indian Pharma Summit, ¹KPMG US-India Dynamic June 2018, ²AIOCD
PHARMA EXPORT TO CONTINUE WITNESSING POSITIVE GROWTH

- India is the world’s largest provider of generic medicines; the country’s generic drugs account for 20 per cent of global generic drug exports (in terms of volumes). Indian drugs are exported to more than 200 countries in the world, with the US as the key market.

- Indian pharma companies are capitalising on export opportunities in regulated and semi-regulated markets.

- Pharmaceutical export from India, which include bulk drugs, intermediates, drug formulations, biologicals, Ayush & herbal products and surgical, reached US$ 20.70 billion in FY20.

- The biggest export destination for Indian pharma product is the US. In FY19, 32.1 per cent of India’s pharma exports were to the North America, followed by 17.96 per cent to Africa and 15.70 per cent to the European Union.

**Note:** EU – European Union, ASEAN - Association of Southeast Asian Nations, LAC - Latin America and the Caribbean

**Source:** Department of Commerce India, Department of Pharmaceuticals, India Business News, Global Trade Atlas, KPMG US-India Dynamic June 2018, Pharmexcil
In FY20, highest expenditure on Research and Development was done by Lupin, followed by Cipla.

Sun Pharma’s R&D plan includes developing more products through expanded R&D team for global markets, focussing on more complex products across multiple dosage forms and investments in speciality pipeline.

As per Union Budget 2019-20, Rs 1,900 crore (US$ 269 million) have been set aside for research of the total amount, Rs 62,659 crore (US$ 8.86 billion) have been allocated for Ministry of Health and Family Welfare.

India plans to set up a nearly Rs 1 lakh crore (US$ 1.3 billion) fund to provide boost to companies to manufacture pharmaceutical ingredients domestically.

Note: *Top 10 companies as per research by HDFC Securities,
Source: Company websites, CRISIL Research, HDFC Securities
RECENT TRENDS AND STRATEGIES
**NOTABLE TRENDS IN THE INDIAN PHARMACEUTICALS SECTOR**

| Research and development | ▪ Indian pharma companies spend 8-13 per cent of their total turnover on R&D.  
▪ Expenditure on R&D is likely to increase due to the introduction of product patents; companies need to develop new drugs to boost sales.  
▪ 47 per cent of top pharmaceutical companies in India are now providing tools for clinical decision support and 33 per cent are providing virtual caregiving support. |
|---|---|
| Increasing exports | ▪ India’s pharmaceutical export market is thriving due to strong presence in the generics space.  
▪ Pharmaceutical exports from India stood at US$ 20.70 billion in FY20 and US$ 1.53 billion in April 2020. |
| Joint Ventures | ▪ In May 2020, Jubilant Generics Ltd entered into a non-exclusive licencing agreement with US-based Gilead Sciences Inc to manufacture and sell the potential COVID-19 drug Remdesivir in 127 countries, including India.  
▪ In June 2020, Syngene International Ltd developed its own ELISA antibody testing kits at its research facility in Bengaluru and tied up with HiMedia Laboratories for manufacturing and distribution of the testing kits. |
| Expansion by Indian players abroad | ▪ Sun Pharma arm enters China market by entering in agreement with China Medical System.  
▪ Sun Pharma entered into a global licensing agreement with Hyderabad based CSIR Indian Institute of Chemical Technology. |

Notes: R&D - Research and Development,  
Source: Pharmexcil
STATES HOSTING KEY PHARMACEUTICAL VENTURES

- Sun Pharma’s API manufacturing facility at Toansa, Malanpur, Guwahati, Ankleshwar, Panoli, Ahmednagar, Maduramthakam
- Wockhardt’s facility covers an area of 40,468 sq meters in Baddi, Himachal Pradesh
- Baddi is also home to Cipla’s formulations manufacturing facility
- Dholka in Gujarat houses a major manufacturing facility of Cadila, which spans over 100 acres
- Mandideep in Madhya Pradesh is the manufacturing hub for Lupin’s cephalosporin and ACE-Inhibitors
- Lupin has an USFDA-approved plant at Tarapur, Maharashtra. The facility forms the core of Lupin’s fermentation capabilities
- Cipla has a formulations manufacturing plant at Indore
- Piramal’s USFDA-approved manufacturing plant in Hyderabad
- GlaxoSmithKline has a major facility at Rajahmundry, Andhra Pradesh

Source: Company websites
## STRATEGIES ADOPTED

| Cost leadership | ▪ Sun Pharma is trying to achieve cost leadership by  
|                 |   • Vertical Integration: Complex API, which require special skills and technology, are developed and scaled up for both API and dosage forms. |
| Differentiation | ▪ Players in the sector are trying to strengthen their position in the market and expand themselves by investing heavily in R&D activities, such as:  
|                 |   • Dr Reddy’s acquired OctoPlus N.V, a Netherlands-based company, to get access to the Poly Lactic-Co-Glycolic Acid (PLGA) technology for the formulation of complex injectables. |
| Focus on new markets | ▪ Lupin is making inroads into new markets such as Latin America, Russia and other East European countries.  
|                 |   ▪ Sun Pharma decided to focus on specialty and chronic therapies such as neurology, oncology, dermatology segments.  
|                 |   ▪ India plans to set up a nearly Rs 1 lakh crore (US$ 1.3 billion) fund to provide boost to companies to manufacture pharmaceutical ingredients domestically. |
| Mergers and Acquisitions in Biotech | ▪ In 2019, Zydus Wellness Limited acquired Heinz India Private Limited.  
|                 |   ▪ In April 2019, Bharat Biotech entered into a partnership with the University of Wisconsin Madison and US-based company FluGen to develop a vaccine, Coro-Flu, against COVID-19. |

**Notes:** R&D – Research and Development  
**Source:** Company websites, Ministry of External Affairs, RBI
GROWTH DRIVERS
GROWTH DRIVERS OF INDIAN PHARMA SECTOR

Supply-side Drivers
- Cost advantage
- Skilled manpower
- India a major manufacturing hub for generics
- India accounts for 22 per cent of overall USFDA approved plants
- Increasing penetration of chemists

Demand-side Drivers
- Increasing fatal diseases
- Accessibility of drugs to greatly improve
- Increasing penetration of health insurance
- Growing number of stress-related diseases due to change in lifestyle
- Better diagnostic facilities

Policy Support
- National Health Policy 2015, which focuses on increasing public expenditure on healthcare segment
- Reduction in approval time for new facilities
- Plans to set up new pharmaceutical education and research institutes
- Exemptions to drugs manufactured through indigenous R&D from price control under NPPP-2012

Notes: BPL - Below Poverty Line, USFDA - United States Food and Drug Administration, NPPP-2012--The National Pharmaceutical Pricing Policy, 2012
Source: Pharmaceutical Export Promotion Council
### SUPPLY-SIDE DRIVERS OF INDIAN PHARMA SECTOR

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
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</thead>
</table>
| **Launch of patented drugs** | - Following the introduction of product patents, several multinational companies are expected to launch patented drugs in India.  
   - Growth in the number of lifestyle diseases in India could boost the sale of drugs in this segment.  
   - High Court allowing to export patent drugs, to foreign players in the Indian market. |
| **Medical infrastructure**   | - Pharma companies have increased spending to tap rural markets and develop better medical infrastructure.  
   - Hospitals’ market size is expected to increase by US$ 200 billion by 2024.  
   - Medical devices industry in India has been growing 15.2 per cent annually and was valued at US$ 5.2 billion in 2018 and is expected to reach US$ 50 billion by 2025. |
| **Scope in generics market** | - India’s generic drugs account for 20 per cent of global exports in terms of volume, making it the largest provider of generic medicines globally. The generics drug market accounts for around 70 per cent of the India pharmaceutical industry and it is expected to reach US$ 27.9 billion by 2020. |
| **Over-The-Counter (OTC) drugs** | - India’s OTC drugs market is estimated to have grown at a CAGR of 16.3 per cent to US$ 6.6 billion over 2008–16 and is further expected to grow on the account of increased penetration of chemists, especially in rural regions. The India OTC market was accounted at US$ 4.61 billion in 2018 and is expected to reach US$ 10.22 billion by 2024. |
| **Patent Expiry**            | - About 120 drugs are expected to go off-patent over the next 10 years; with expected worldwide revenue between US$ 80 to 250 billion. |

**Notes:** CAGR - Compound Annual Growth Rate  
**Source:** BMI, India Biz, Nicholas Hall & Company, IQVIA
DEMAND DRIVERS OF INDIAN PHARMA SECTOR

**Accessibility**
- Over US$ 200 billion to be spent on medical infrastructure in the next decade.
- New business models expected to penetrate tier-2 and 3 cities.
- Over 160,000 hospital beds expected to be added each year in the next decade.
- India’s generic drugs account for 20 per cent of global exports in terms of volume, making the country the largest provider of generic medicines globally.

**Acceptability**
- Rising levels of education to increase acceptability of pharmaceuticals.
- Patients to show greater propensity to self-medicate, boosting the OTC market.
- Acceptance of biologics and preventive medicines to rise.
- Surge in medical tourism due to increased patient inflow from other countries.

**Affordability**
- Rising income could drive 73 million households to the middle class over the next 10 years.
- Over 650 million people expected to be covered by health insurance by 2020.
- The Government plans to provide free generic medicines to half the population at an estimated cost of US$ 5.4 billion.
- Affordable medicines under Pradhan Mantri Bhartiya Janaushdhi Kendra’s (PMBJKs) achieved an impressive sale of Rs 100.40 crore (US$ 14.24 million) in first two months of FY21.

**Epidemiological factors**
- Patient pool expected to increase over 20 per cent in the next 10 years, mainly due to rise in population.
- New diseases and lifestyle changes to boost demand.
- Increasing prevalence of lifestyle diseases.

*Note: RSBY - Rashtriya Swasthya Bima Yojna*

*Source: ICRA Report on Indian Pharmaceutical Sector, Pharmaceutical Industry: Developments in India- Deloitte, Mckinsey Pharma Report 2020*
Increasing penetration of non-life insurance including health insurance will drive the expansion of healthcare services and pharmaceutical market in India.

Adoption of health insurance in the country has been increasing at a fast pace.

Gross direct premium from health insurance reached Rs 516.37 billion (US$ 7.33 billion) in FY20 and contributed 27 per cent to the gross direct premiums of non-life insurance companies in India.

Another boost to the sector will be the National Health Protection Scheme under Ayushman Bharat, announced in Union Budget 2018-19. The scheme was launched in September 2018.

Note: CAGR is up to FY19

Source: IRDA, General Insurance Council
## FAVOURABLE POLICY MEASURES SUPPORT GROWTH (1/2)

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pharma Vision 2020</strong></td>
<td>- Pharma Vision 2020 by the Government’s Department of Pharmaceuticals aims to make India a major hub for end-to-end drug discovery.</td>
</tr>
</tbody>
</table>
| **Reduction in approval time for new facilities** | - Steps taken to reduce approval time for new facilities.  
  - NOC for export licence issued in two weeks compared to 12 weeks earlier.                                                   |
| **Single-window clearance**      | - As per NBDS, a proposal has been made to set up the National Biotechnology Regulatory Authority (NBRA) to provide a single-window clearance mechanism for all bio-safety products to create efficiencies & streamline the drug approval process. |
| **Support for technology upgrades and FDIs** | - Government is planning to relax FDI norms in the pharmaceutical sector.  
  - In March 2017, the Government decided to create a digital platform to regulate and track the sale of quality drugs, and it can be used by people living in the country as well as abroad. |
| **Pharmaceutical Parks**         | - Government of India is planning to set up mega bulk drug parks in order to reduce industry’s dependency on raw material imports.  
  - As of October 2018, the Uttar Pradesh Government will set up six pharma parks in the state and has received investment commitments of more than Rs 5,000-6,000 crore (US$ 712-855 million) for the same.  
  - In October 2019, Telangana Government proposed Hyderabad Pharma City with financial assistance from Central Government of Rs 3,418 crore (US$ 489 million). |
| **National Commission for Homoeopathy (NCH) Bill, 2018** | - In December 2018, the Government of India approved the National Commission for Homoeopathy, Bill, 2018 in order to have more transparency in the sector. |
## FAVOURABLE POLICY MEASURES SUPPORT GROWTH (2/2)

### Union Budget 2020-21

- The allocation to the Ministry of Health and Family Welfare has increased to Rs 65,012 crore (US$ 9.30 billion).
- The National Health Mission Scheme is the largest Government funded healthcare programme, which is expected to benefit 7.31 million poor families in the country by providing a cover of up to Rs 5 lakh (US$ 7,314.22) per family per year on floater basis in the impaneled hospitals across India.
- The Government has allocated Rs 34,115 crore (US$ 4.88 billion) towards the National Health Mission under which rural and urban people will get benefited.
- Rs 6,400 crore (US$ 915.72 million) has been allocated to health insurance scheme Ayushman Bharat – Pradhan Mantri Jan Arogya Yojana (AB-PMJAY).

### Biotechnology Industry Research Assistance Council

- BIRAC has been established to promote research & innovation capabilities in India's biotech industry. The council will provide funding to biotech companies for technology & product development.
- BIRAC under Small Business Innovation Research Initiative (SBIRI) scheme supports innovations in biotechnology.

### Biotechnology Based Programme for Women

- Programme on application of biotechnology for women was done to provide employment, skill development, awareness generation, health improvement & socio-economic upliftment of the women population.

### National Biopharma Mission

- The Industry – Academia mission was launched in June 2017 to boost development of biopharmaceuticals in India.

*Source: Livemint, Union Budget*
In 2017, the Department of Pharmaceuticals released a draft National Pharmaceutical Policy with the following objectives:

- Make all essential drugs accessible to masses through affordable prices.
- Provide the Indian pharmaceutical sector with a long term stable policy environment.
- Make India self sufficient in end to end domestic drug manufacturing.
- Maintain world class quality for domestic consumption and exports.
- Create a positive environment for research and development in the pharma sector.

As per the new policy, the Department of Pharmaceuticals will have control over the National List of Essential Medicines (NLEM), which decides the drugs for which the Government of India can control the prices.

In November 2019, Cabinet approved the extension/renewal of the extant Pharmaceuticals Purchase Policy (PPP) with the same terms and conditions while adding one additional product, namely, Alcoholic Hand Disinfectant (AHD) to the existing list of 103 medicines till the final closure стратегического диверсификации of the Pharma CPSUs.
Government expenditure on health increased to Rs 3.24 lakh crore (US$ 45.96 billion) in FY20, implying a CAGR of 18 per cent from FY16.

Medical technology park in Vishakhapatnam, Andhra Pradesh has already been set up with an investment of US$ 183.31 million. States like Himachal Pradesh, Gujarat, Telangana and Maharashtra are showing interest for making investments in these parks.

German technical services provider TUV Rheinland’s Indian subsidiary has partnered with Andhra Pradesh MedTech Zone (AMTZ) to create an infrastructure for Electro-Magnetic Interference (EMI/EMC) at an investment of US$ 12.64 million over a course of four to five years.

As per Economic Survey 2019-20, Government expenditure (as a percentage of GDP) increased to 1.6 per cent in FY20 from 1.2 per cent in FY15 for health.

Note: CAGR - Compound Annual Growth Rate,
Indian Drugs & Pharmaceuticals sector has received cumulative FDI worth US$ 16.39 billion between April 2000 and December 2019.

Over the last three years, pharmaceuticals segment has accounted for more than 70 per cent of M&A deals.

Indian pharmaceutical major Cipla Ltd has agreed to buy a 26 per cent stake in AMP Solar Power Systems Pvt Ltd for approximately Rs 12.90 crore (US$ 1.85 million).

Healthcare sector witnessed private equity of total US$ 1.1 billion with 27 deals in first half of 2019.

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**Source:** BMI, Business Standard, EY, IQVIA – Winning the Indian Pharmaceutical Market Nov 2018, DPIIT
OPPORTUNITIES
OPPORTUNITIES ABOUND IN CLINICAL TRIALS AND HIGH-END DRUGS

<table>
<thead>
<tr>
<th>Clinical trials market</th>
<th>High-end drugs</th>
<th>Penetration in rural market</th>
<th>CRAMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>- India is among the leaders in the clinical trial market.</td>
<td>- Due to increasing population and income levels, demand for high-end drugs is expected to rise.</td>
<td>- With 70 per cent of India’s population residing in rural areas, pharma companies have immense opportunities to tap this market.</td>
<td>- The Contract Research and Manufacturing Services industry (CRAMS) – estimated at US$ 17.27 billion in 2017-18, is expected to reach US$ 20 billion by 2020.</td>
</tr>
<tr>
<td>- Due to a genetically diverse population and availability of skilled doctors, India has the potential to attract huge investments to its clinical trial market.</td>
<td>- Growing demand could open up the market for production of high-end drugs in India.</td>
<td>- Demand for generic medicines in rural markets has seen a sharp growth. Various companies are investing in the distribution network in rural areas.</td>
<td>- The market has more than 1,000 players.</td>
</tr>
<tr>
<td>- As of February 2019, India was engaged in 3,618 trials in last one year.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: BMI, Drug Controller General of India
USEFUL INFORMATION
The Indian Pharmaceutical Association
Address: Kalina, Santacruz (E), Mumbai – 400 098
Phone: 91-22-2667 1072
Fax: 91 22 2667 0744
E-mail: ipacentre@ipapharma.org
www.ipapharma.org

Indian Drug Manufacturers’ Association
Address: 102-B, Poonam Chambers, Dr A.B. Road Worli, Mumbai – 400 018
Phone: 91-22-2494 4624/2497 4308
Fax: 9122 24950723
E-mail: idma1@idmaindia.com
www.idma-assn.org

Organisation of Pharmaceutical Producers of India
Address: Peninsula Chambers, Ground Floor, Ganpatrao Kadam Marg, Lower Parel, Mumbai – 400 013
Phone: 9122 24918123, 24912486, 66627007
Fax: 9122 24915168
E-mail: indiaoppi@vsnl.com
www.indiaoppi.com

Bulk Drug Manufacturers Association
Address: C-25, Industrial Estate, Sanath Nagar
Hyderabad – 500018
Phone: 91 40 23703910/23706718
Fax: 91 40 23704804
E-mail: info@bdmai.org
www.bdmai.org
GLOSSARY

- CRAMS: Contract Research and Manufacturing Services
- API: Active Pharmaceutical Ingredients
- FDI: Foreign Direct Investment
- GOI: Government of India
- INR: Indian Rupee
- US$: US Dollar
- BPL: Below Poverty Line
- RSBY: Rashtriya Swastha Bima Yojna
- ESIC: Employees State Insurance Corporation
- Wherever applicable, numbers have been rounded off to the nearest whole number
### Exchange Rates (Fiscal Year)

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<th>INR Equivalent of one US$</th>
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<tbody>
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<td>2004–05</td>
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<tr>
<td>2005–06</td>
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### Exchange Rates (Calendar Year)

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<tr>
<td>2019</td>
<td>69.89</td>
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</tbody>
</table>

**Source:** Reserve Bank of India, Average for the year
India Brand Equity Foundation (IBEF) engaged TechSci Research to prepare this presentation and the same has been prepared by TechSci Research in consultation with IBEF.

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