July 16, 2020

To
BSE Limited
1st Floor, Rotunda Building
B. S. Marg, Fort.
Mumbai – 400 001
Scrip Code: 532967

To
The National Stock Exchange of India Ltd.
Exchange Plaza, 5th Floor, Plot No. C/1, “G”
Block, Bandra-Kurla Complex
Mumbai – 400 051
Symbol: KIRIINDUS

Dear Sir/Madam,


We wish to inform you that Pursuant to provisions of Regulation 30 read with Schedule III of SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015, we hereby inform you that the Key Managerial Persons of the Company shall participate in ‘The Valorem CXO Meet’ event over a video call with various investors/analysts, organized by Valorem Advisors to be held on 17 July, 2020, to discuss in detail about the ordinary course of business and the industry.

Please find attached herewith Investor Presentation for your reference and records.

You are requested to kindly take the same on your record.

Thanking You,

Yours Truly,

For Kiri Industries Limited

Suresh Gondalia
Company Secretary
Encl: as stated
Executive Summary

**OVERVIEW**

- Kiri Industries Limited (KIL) is one of the largest manufacturers and exporters of a wide range of Dyes, Dyes Intermediates and Basic Chemicals from India.

- KIL is an accredited and certified Key Business Partner with the world’s top Dyestuff majors across Asia-Pacific, the EU and America.

- It has sophisticated quality control practices and procedures, modern manufacturing facilities and ERP driven enterprise management that enabled KIL to offer internationally recognized quality products and services.

- KIL is listed on both the BSE and NSE exchanges and has market capitalisation of approximately INR 9,173 Mn as on 31st March, 2020.

**PRODUCTS**

- **Dyes Intermediates**
  - H-acid
  - Vinyl Sulphone
  - Specialty Intermediates
  - Naphthalene and Aniline based intermediates

- **Dyes**
  - Reactive dyes
  - Acid Dyes
  - Direct Dyes
  - Disperse Dyes

- **Basic Chemicals**
  - Sulphuric Acid
  - Oleum 65% and 23%
  - Chloro Sulphonic Acid
  - Thionyl Chloride

**INDUSTRIES CATERED**

- **For Dyes intermediates**
  - Various manufacturers of reactive dyes across the globe.

- **For Dyes**
  - Textile manufacturers, including manufacturers of cotton fabrics, dress material, papers, carpets, bed sheets, etc.
  - Leather manufacturing, dying, finishing, etc.

**FINANCIAL HIGHLIGHTS**

- **OPERATIONAL REVENUE**
  - INR 13,053 Mn
  - 3 Year - CAGR 2.96%

- **EBITDA**
  - INR 1,913 Mn
  - 3 Year - CAGR 5.83%

- **PAT**
  - INR 1,157 Mn

* Consolidated (FY20)
COMPANY OVERVIEW
Company Overview

- Established in 1998, Kiri Industries Limited (KIL), is based out of Gujarat and has emerged as one of the largest manufacturers and exporters of a wide range of Dyes, Dyes Intermediates and Basic Chemicals from India with ‘Zero Effluent’.
- KIL is an accredited and certified Key Business Partner with world’s top Dyestuff majors across Asia-Pacific, the EU and America.

- It provides products and services across the whole value chain in numerous industrial sectors (apparel, hosiery, automotive, carpets, leather, paper, home upholstery, industrial fabrics, etc.)
- In the 20 years of the Company’s corporate journey, KIL has been focusing on providing products of high quality standards, executing collaborations and strategic acquisitions, implementing environmentally aligned R&D, finding innovative solution centric and all-encompassing customer care
- All initiatives taken by KIL has enabled it to set its footprints in over 50 countries across 7 continents.
- The Company has sizeable manufacturing facility of Dyes Intermediates and Basic chemicals at Padra (Baroda, Gujarat) and to strengthen its competitive edge in dyes vertical, KIL formed a joint venture with Longsheng (China) and set up a manufacturing facility for dyes.

<table>
<thead>
<tr>
<th>Revenue Breakup (FY20)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dyes</td>
</tr>
<tr>
<td>Basic Chemicals</td>
</tr>
<tr>
<td>Dye Intermediates</td>
</tr>
</tbody>
</table>

Consolidated Revenue Break-up (INR Mn)

<table>
<thead>
<tr>
<th>Year</th>
<th>Domestic</th>
<th>International</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY16</td>
<td>3,681</td>
<td>7,461</td>
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<tr>
<td>FY17</td>
<td>4,629</td>
<td>7,378</td>
</tr>
<tr>
<td>FY18</td>
<td>4,879</td>
<td>6,489</td>
</tr>
<tr>
<td>FY19</td>
<td>6,625</td>
<td>7,340</td>
</tr>
<tr>
<td>FY20</td>
<td>6,607</td>
<td>6,499</td>
</tr>
</tbody>
</table>
Management Team

Pravin Kiri (Chairman)
- He is a science graduate from Gujarat University and started his career in the year 1966 by associating himself with Jay Chemical Industry (Kharawala Group) as a partner and was responsible for all the technical matters of the group.
- He has a wide interest and knowledge in the areas of synthesizing organic structures of Dyes and Intermediates.
- He looks after the manufacturing activities and is focused on operational strategy, quality control and research & development activities.

Keyur Bakshi (Independent Director)
- He is a practicing Company Secretary and holds degrees in Commerce and Law from Gujarat University.
- He is a Fellow Member of the Institute of Company Secretaries of India and had served as the President of Institute of Company Secretaries of India in the year 2008.
- Actively involved in various assignments relating to Corporate Laws, Finance, amalgamations, mergers / demergers, acquisitions and takeovers, corporate restructuring and planning.

Mukesh Desai (Independent Director)
- He has an engineering background with more than 35 years of techno commercial management experience in multi-product, multi location project installation and operation.

Veena Padia (Independent Director)
- She has a Masters of Economics from M. S. University and has a vast leadership experience in providing strategic advisory expertise and directing development and implementation of widespread programmes and organisations through insights into livelihood, education, microfinance, gender, and health relating to gender and marginalised and socially excluded communities.
- She has worked with private-sector CSR divisions, government agencies and international donors and NGOs such as World Bank, CARE, etc.

Ulrich Hambrecht:
- He is a German National, born in 1948. He is Master of Chemistry and Bachelor of Banking Science. He has more than 40 years of experience in the field of Textile Chemicals, Mergers and Acquisitions.
- He has served as CEO of CHT R. Beitlich GmbH, Germany for the period from 1979 to 2001 and CEO of Rudolf Chemie GmbH, Germany for the period from 2002 to 2010. At present he is serving to Rudolf Chemie GmbH as a Member of Advisory Board.
- He is Member of the Board of TEGEWA (an Association of textile auxiliary manufacturers) Germany. He is also a Non Executive Director of Rudolf Atul Chemicals Limited.

Manish Kiri (Managing Director)
- He has a Bachelors of Engineering (Electronics & Communication) from Gujarat University and a Master’s Degree in Business Management from Wayne State University, USA.
- He envisions the company’s operational strategies and its future forays and expansions. He also designs its marketing strategies and commandeers their implementation. He oversees the overall sales and exports, customer relationship management and expansions, ensuring a sustainable growth of the company.
- He was the force behind the Company’s JV (Lonsen Kiri Chemical Industries Ltd.), and acquisition of DyStar.
- He was awarded ‘Outstanding Entrepreneur’ by Ahmedabad Management Association in year 2011.
Key Milestones

- **1998**: Incorporation of Kiri Dyes and Chemicals Pvt. Ltd
- **1999**: Started export to USA and Taiwan
- **2000**: Started strategic backward integration project
- **2001**: Conversion of manufacturing unit into a 100% Export Oriented Unit
- **2002**: Commercial production of backward integrated project with respect to Vinyl Sulphone
- **2003**: Entered into a JV Agreement with Well Prospering Ltd. for manufacturing facility for Dyestuff
- **2004**: Two-Star Export House
- **2005**: Successfully completed IPO
- **2006**: Incororporation of Kiri Dyes and Chemicals Pvt. Ltd
- **2007**: Started Backward Integration project for production of H Acid
- **2008**: Successfully completed JV Project.
- **2009**: Successfully completed installation of basic chemical plant and started commercial production
- **2010**: Acquisition of assets of DyStar
- **2011**: Changed the Name to 'Kiri Industries Ltd'
- **2012**: DyStar became profitable
- **2013**: DyStar became profitable
- **2014**: Completed expansion of Intermediate Project and KIL became the largest VS manufacturer in India
- **2015**: Filed minority oppression suit against Senda and DyStar in Singapore Court
- **2016**: Successfully repaid majority of restructured debts
- **2017**: Successfully repaid majority of restructured debts
- **2018**: KIL won appeal in Singapore case
- **2019**: KIR Industries became a system partner of Bluesign
- **2020**: Achieved highest PAT since inception
Manufacturing Facilities

**Unit I, Unit II & IV**

**Location:** Ahmedabad, India.

**Products manufactured:**
- S. O. Dyes
- Disperse Dyes

**Capacity Installed:**
- Reactive Dyes: 36,000 MTPA
- Disperse Dyes: 8,000 MTPA

**Unit V**

**Location:** Vadodara, India.

**Products manufactured:**
- Sulphuric acid
- Oleum
- Chloro-sulphonic acid along with 3.3 MW steam based power plant

**Capacity Installed:**
- Basic Chemicals: 500 TPD (182,500 MTPA)
- Sulphuric Acid: 280 TPD
- Oleum: 23% – 50 TPD
- Oleum: 65% – 70 TPD
- Chloro Sulphonic Acid: 100 TPD
- Thionyl Chloride: 150TPD

**Unit III**

**Location:** Vadodara, India.

**Products manufactured:**
- Intermediates - V. S. H. Acid and other specialties.

**Capacity Installed:**
- Commodity Intermediates: 25,200 MTPA
  - Vinyl Sulphone: 18,000 MTPA
  - H-Acid: 7,200 MTPA
- Specialty Intermediates: 10,000 MTPA
- Acetanilide: 12,000 MTPA

**Lonsen Kiri Plant JV with Longsheng (China)**

KIL is a technology-driven emerging global player as well as a premier budding specialty chemicals player.

**Location:** Vadodara, India.

**Products manufactured:**
- Reactive Dyes

**Capacity Installed:**
- 50,000 MTPA

**Note:**
- A JV Company between Zhejiang Longsheng (China) (60%) and KIL (40%).
- Engaged in the activity of manufacturing and selling reactive dyes.
Manufacturing Process

**Key Inputs**
- Ice
- Naphthalene
- Sulphur
- Sodium Nitrate
- Soda Ash
- Water
- Aniline
- Caustic Soda
- Chlorine

**Sulphur & Bulk Chemicals Division**
- Para Nitro Aniline
- Beta-Nepthol
- Sulphuric Acid
- Chloro Sulphonic Acid
- Oleum 65%
- Oleum 23%
- Sodium Bi Sulphate
- Acetanilide
- MPD
- Thionyl Chloride

**Dyes Intermediates Division**
- Vinyl Sulphone Ester (Acetanilide Parabase)
- Vinyl Sulphone Paracresidine Base
- Vinyl Sulphone Ester of 2:5 Di Methoxy Aniline
- Bronner’s Vinyl Sulphone
- Ortho Anisidine Vinyl Sulphone
- Sulpho Para Vinyl Sulphone
- Sulpho Ortho Anisidine
- Vinyl Sulphone
- 4:4 Diamino Sulphanilide
- 4:4 Diamino Di Phenyl Amine 2-Sulphonic Acid
- Gamma Acid
- H.Acid
- B.D.S.A
- Sulpho Tobias Acid (STA)
- K-Acid
- MPDSA
- MUA
- 6 Chloro 2.4. DNA
- DCPNA
- PNA
- MAA
- AMA

**Dyestuff Division**
- Reactive Dyes
- Acid Dyes
- Direct Dyes
- Disperse Dyes

**End Use Industry**
- Textiles
- Leather
- Paper
- Detergent / Pharma / Fertilizer / Agro chemicals
Awards and Accolades

**Award for Export performance of more than INR 6 Cr for Direct export of Self Manufactured Dye and Dye Intermediaries - 1999-2000**

**Award for Direct Export of Self Manufactured Dyes - 2000-01**

**Platinum Award for Small Scale Sector - 2002-03**

**Trishul Award for Small Scale Sector - 2005**

**Chemexcil Gold Award - 2006-07**

**First Award for Direct Export of Self Manufactured Dyes - 2008-09**

**First Award for Direct Export of Self Manufactured Dyes - 2009-10**

**Outstanding Entrepreneur Award - 2011**

**Certificate for The Next Fortune 500 Companies - 2017**

**Industrial Safety Award - 2018**
• Their facility is versatile and has the flexibility to produce Reactive Dyes, acid/metal complex dyes and wool reactive dyes.

• By virtue of large scale facilities and fully integrated operations from manufacturing of basic chemicals, dye intermediaries and dyes, the Company derives benefits of economies of scales and high standards of quality control.

• The Company established a track record of long-term relationship with key global names and the ability to pass on price increases.

• The Company has dedicated and experienced promoters.

• The Board consists of a healthy mix of promoters and independent directors who ensure high levels of corporate governance.

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Key Strengths

- High entry barriers due to a stringent process of acquiring new permissions.
- Heavy capital expenditure.
- Strict implementation of environmental and pollution norms.

- Ability to integrate and offer value added products.
- One of the largest manufacturers of Reactive Dyes, Dye Intermediates and Basic Chemicals with support of backward integration.

- The research and development department broadly comprises various processes for developing new products and standardizing new analytical methods.
- It focuses especially on technologies that improve products and processes.
- The team continuously interacts with consumers to obtain feedback on its existing as well as new products to complement its product development activities.

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Entry Barrier

Competitive Position

Diversification

Manufacturing Facility

Research & Development

Experienced Board

Entry Barrier

Competitive Position

Diversification

Manufacturing Facility

Research & Development

Experienced Board
Business and Product Mix

**Revenue Break-up (FY14)**
- Basic Chemicals: 1%
- Intermediates: 56%
- Dyes: 43%

**Revenue Break-up (FY20)**
- Basic Chemicals: 3%
- Intermediates: 52%
- Dyes: 45%
Aniline  Naphthalene
B-Napthol MPD, etc.

Inputs

In-house Acids and Usage of
effluents & by-products

Result of Zero Waste
Manufacturing process

Raw Materials for Dyes
Intermediates such as VS, H-Acid,
Gamma Acid, K-Acid MUA, etc.

Dye Stuff Manufacturing Value Chain

Future Potential

Branded Dyestuffs and Colourants
Benefits of Zero Waste

- The Company’s focus on becoming a Zero Waste company has ensured that Spent Acids are a source of revenue (converted into commercially viable products) and not a source of expense (frees the hassles of management and disposal of the by-products).

- In an industry where non-conformance leads to plant shutdowns, Zero Waste convinces buyers of the sustainability factor of operations, resulting in supply consistency.
Dyestuff – An Overview

Dyestuff are organic and inorganic substances which can absorb light as well as reflect some light to show colour. The dyestuff is also a water soluble substance.

Criteria for a Suitable Dyestuff

- Economical / Competitive
- Non-toxic
- Compatible to other dyes and chemicals
- High colour strength
- Better brightness
- Better fastness
- Good levelness on the materials

- A dye is a coloured compound, normally used in soluble form, which is capable of being fixed to a fabric/ application substrates. The dye must be ‘fast’ or chemically stable so that the colour does not wash out with soap and water much or fade due to exposure to sunlight, etc.

- Many types of dyes: Reactive dyes, Acid dyes, Direct dyes, Azoic dyes, Disperse dyes, Vat dyes, Solvent dyes, Sulphur dyes, Cationic dyes, etc.

- Textile sector is a major consumer of Dyestuffs. Reactive Dyes, Vat Dyes and Azo Dyes are mainly required for dyeing and printing of various fibres. Disperse Dyes are mainly consumed for dyeing synthetic fibres. Acid Dyes are consumed in leather, silk, nylon and woollen products.

- KIL caters to mainly Reactive dyes, Acid dyes and Direct dyes. It has just entered into Disperse dyes.
Dyestuff Manufacturing Process

**Dissolving of Coupling Component (Coupling Component + Water + Ice + Caustic Lye)**

**Coupling of Diazoo with Coupling Components + NaHCO3**

**Clarification**

**Standardization**

**Spray Drying**

**Blending and fine standardization**

**Packing**

1. **Dissolving of Coupling Component**
   - Coupling component is slurried in ice and water in reactor and it is dissolved by adding Caustic Lye by constant stirring at suitable temperatures and PH required for efficient reactions.

2. **Coupling of Diazoo with Coupling Components**
   - Diazotized Amine is coupled with component to the diazo reaction vessel by stirring at suitable temperatures and PH required for efficient reactions.

3. **Clarification**
   - The spray dried powder is then charged to the blender and standardized as per the requirement of customers/market.

4. **Standardization**
   - The liquid dye is spray dried.
Reactive Dyes

- Reactive Dyes are the most versatile and popular class of Organic Dyes for importing colour on cellulotic fibres.
- These are water soluble dyes which react to fibre, forming a direct chemical linkage with the application materials, which is not easily broken and offers good wash fastness.
- **Colours available:** Red, Yellow, Black, Orange, Blue, Green, Violet, etc.
- **Types of Dyes:** Kirazol VS dyes, Kirazol KR/KX dyes, Kirazol S &W dyes, Kiractive ME dyes, Kiractive ED dyes, Kiractive HE dyes, Kiractive CN dyes, Kiractive P dyes, etc.
- **Features:** Brilliant shades, ease of application, overall good fastness properties, economical, etc.
- **Applications in Textile Industries:** The popularity of Reactive dyes with textile processors is due to its versatility in application by various dyeing methods such as exhaust dyeing, semi-continuous and continuous dyeing as well as various printing methods by direct printing, resist printing, discharge printing and the newly-introduced inkjet printing.
- **Properties:**
  - Found in power, liquid and print paste form which are water soluble.
  - The dyes have very stable electron arrangement and can protect the degrading effect of ultra-violet ray.
  - Textile materials dyed with reactive dyes have very good wash fastness with superior rating. Reactive dyes give brighter shades and have moderate rubbing fastness, etc.
  - It requires less time and low temperature for dyeing and are comparably economical.
Disperse Dyes

Disperse dye:
- Disperse dyes are synthetic organic dyes and is a kind of organic substance which is free of ionizing group. They are less soluble in water and are used for dyeing synthetic textile materials. Disperse dyes are mainly used for dyeing polyester yarn or fabric.
- For dyeing polyester fibres, in practical terms, only disperse dyes are suitable, which makes these kind of dyes the highest consuming product range globally.
- Through their hydrophobic properties, these dyes are capable of penetrating into similar hydrophobic polyester fibres.
- This class of dyes have extremely poor solubility in water; for this reason, dispersing agent is added to the dyebath to maintain dispersion stability, especially in the case of high temperature dyeing.

Advantages:
- **Fastness to wet treatment** - In terms of providing satisfactory wash fastness on polyester, dye selection has become far more critical than it had ever been, because of the more demanding wash fastness tests employed currently as well as the widespread use of after treatments. Nearly all disperse dyes give very good to excellent results.
- **Fastness to dry heat** - Sublimation or dry heat, fastness is an important property of disperse-dyed polyester because of the use of heat treatments in the finishing of the fabric; disperse dyes must be small, non-ionic molecules of low molecular weight.
- **Fastness to light** - Dispersed dyes do not fade away when left exposed to sunlight for prolonged periods.
- **Hydrophobic fibres** - Disperse dyes can be applied to a whole range of chemically diverse, hydrophobic manmade fibres, which include acetate, acrylic, modacrylic, nylon, polyester and polyurethane fibres.
Other Dyes

**Acid Dyes**

- Acid dyes are the dyes which can be applied directly to the application materials from an aqueous solution (without mordant).
- The Company has been working on developing Acid dyes since a decade. It has been manufacturing this range of dyes for a long time.
- **Colours Available:** Red, Yellow, Orange, Blue, Green, Violet, Black, Brown, etc.
- **Types of Dyes:** Acid Black 210, Acid Black 194, Acid Blue 193, Acid Green 104, Acid Violet 90, Acid Red 357, Acid Red 362 and Acid Orange 142.
- **Application on:** Nylon, Silk, Wool, Leather, Blended Fibre, etc.
- **Advantages:**
  1) Easy in application
  2) Complete colour range with very good bright shades
  3) Pre-metalized dyes have very good light fastness even in pale shades
  4) Properties of acid dyed silk is better than reactive dyed silk.

**Direct Dyes**

- Direct dye, also known as Substantive Dye, is a class of coloured, water-soluble compound that has an affinity for fibre and is taken up directly, mostly it is sodium salt of aromatic compounds.
- Direct dyes are usually economical, very easy to apply and with an easy application which can yield bright colours.
- **Advantages of Direct dyes:**
  - Direct dyes are easy to apply after proper training and they can be used in almost any dye house equipment by exhaust or continuous. Direct dyes offer a predictable shade build-up and good repeatability from lot to lot.
  - Direct dyes are less affected by variations in liquor ratio than reactive dyes.
Dyes Intermediates

- Dyes intermediates are the main raw materials used for manufacturing dyestuffs.
- The manufacturing chains of dyes and dyes intermediates can be traced back to petroleum-based products.
- Naphtha and natural gases are used for the production of Benzene and Toluene, which are subsequently used for manufacturing nitro-aromatics.
- Hence, the third forward stage of production, i.e., from nitro aromatics to a dyes intermediates is part of the dyes and dyes intermediates sector. Examples of major dyes intermediates are Vinyl Sulfone, Gamma Acid, H Acid, CPC, J Acid, α-Naphthyl Amine, etc.
- In order to ensure uninterrupted supply line of key raw materials and stability of pricing for its customers, KIL has established a fully integrated manufacturing base at its production facilities.
- Approximately 60% of intermediates required for dye manufacturing are manufactured at the Company’s manufacturing facilities.
- The commissioning of dyes intermediates facility has empowered KIL to:
  - Manage cost of raw materials.
  - Monitor the quality of key raw materials thus ensuring desired quality control of the finished product.
  - Manage fluctuations in prices of raw materials.
  - Manage efficient production schedules.
  - Meeting customers’ expectations.

### Total Revenue (INR Mn) & Gross Margins

<table>
<thead>
<tr>
<th>FY14</th>
<th>FY15</th>
<th>FY16</th>
<th>FY17</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,160</td>
<td>4,325</td>
<td>4,708</td>
<td>5,453</td>
<td>4,736</td>
<td>5,835</td>
<td>5,023</td>
</tr>
</tbody>
</table>

Margins:
- FY14: 38%
- FY15: 39%
- FY16: 33%
- FY17: 35%
- FY18: 46%
- FY19: 43%
- FY20: 47%
**Dyes Intermediates – H-Acid**

- **H-acid** is one of the leading dyes intermediates in the world, used in the manufacture of black dyes.
- H-acid (8-amino-1-hydroxynaphthalene-3,6-disulfonic acid), an important dye intermediate, is produced from Naphthalene by a combination of the unit processes of sulphonation, nitration, reduction, hydrolysis and other processes. H-Acid is used in the manufacture of a large number of azo dyes and pigments.
- The Company has a capacity of 7,200 MTPA and the capacity utilization is 90%.

### Manufacturing Process

**INPUT**
- Nitric Acid
- Water
- Steam
- Gypsum (73%) (sludge)
- Iron Sludge (70%)
- Rec. Water
- SO2 SBS (450Kg)
- Mother Liquor Evaporation + Crystalliser
- Mother Liquor Evaporation + Spray Dyer

**OUTPUT**
- Caustic Flakes
- Methanol
- Spent Acid
- Sulphuric Acid
- Water
- Co2
- Steam
- Rec. Water
- Mother Liquor Evaporation + Crystalliser
- Mother Liquor Evaporation + Spray Dyer

**Processed Materials**
- LSP
- Glauber Salt
- Water
- Naphthalene
- Oleum
- Sulphuric acid
- Water
- Acetic Acid
- Soda Ash
- Water
- Nitric Acid
- Oleum
- Water
- NOx (scrubbing)-ETP
- Gypsum (73%)
- Iron Sludge
- Methanol
- Mother Liquor
- SBS
- Rec. Water

**Process Stages**
- Sulphonation
- Nitration
- Neutralizer
- Filtration
- Reduction
- Filtration
- Fusion
- Isolation
- Filtration
- Centrifuging
- Final Product
Vinyl Sulphone is an industrial chemical used as a key raw material for manufacturing reactive dyes, having application mainly in textiles. It is manufactured from aniline.

- It has applications in manufacturing of Reactive dyes.
- The Company has a capacity of 18,000 MTPA and the capacity utilization is 90%.

**Input**
- Acetanilide
- Chloro Sulphonic Acid
- Thionyl Chloride
- Water

**Manufacturing Process**
- Sulphonation
- Drowning
- Reduction
- Ethoxylation
- Centrifuge & Washing
- Drying
- Esterification
- Final Product

**Output**
- Mother Liquor Evaporation
- Amonium / Sodium Sulphate
- Spent Acid
- HCL (1st)
- HCL (2nd)
- S.B.S. Slurry (1st)
- S.B.S. Slurry (2nd)
Basic Chemicals

- As part of strategic backward integration, the Company has set up Basic Chemical facility to manufacture:
  - Sulphuric Acid
  - Oleum
  - Chloro Sulphonic Acid
  - Thionyl Chloride
- All these products are made in one integrated plant and uses Sulphur as the basic raw material.
- KIL produces basic chemicals for its own consumption and also for sale in the domestic market.
- Along with the facility, KIL has put in a 3.5 MW captive power plant which can run from the steam generated by the facility itself.
- The electricity generated will be sufficient, not only to run basic chemical plant, but also to contribute power requirement of dyes intermediates plant.
- **Application Industries:** Chemicals, Pharmaceuticals, Fertilizers, Automobile batteries, Paper bleaching, Sugar bleaching, Water treatment, Sulfonation agents, Cellulose fibers, Steel manufacturing, Coloring agents, Regeneration of ion exchange resins, etc.
Future Outlook

• Lockdown on account of COVID19 impacted the business operations of the Company as well as global economy; The Company expects to achieve Pre-covid operational capability by end of December 2020.

• Looking to the further impact of COVID 19, the Company will plan its continuing capital investments in FY21 for ongoing expansions of manufacturing facilities of specialty intermediates and basic chemicals at Padra, Vadodara.

• After completion of said expansions installed capacity of Specialty Dyes Intermediates shall increase by 17% and basic chemicals capacity shall increase by 115%.

• Specialty intermediates plant (Phase I) and Expansion in Sulphuric Acid Capacity is underway.

• The proposed capital expenditure shall be non-dilutive and funded from internal accruals of the company without raising any equity or debt.

• The commissioning of the said projects shall empowered KIL to:
  o Supplement more products in the current product portfolio and thereby diversify the product ranges
  o Effectively manage input costs of raw materials and competitively mitigate the risk of fluctuations in prices of raw materials
  o Continue to strengthen monitoring of quality control throughout its product value chain to ensure achieving the best quality parameters of the products
  o Exceed customers’ expectations and improve customizations of the offerings to the valued customers
  o Continue to improve product margins to achieve profit incremental growth
  o Achieve 25% to 30% growth in revenue as well as in profits, hence contribute positively for strengthening core business values
The DyStar Group is a leading dyestuff and chemical manufacturer and solution provider, offering a broad portfolio of colorants, specialty chemicals, and services to customers across the globe.

With a heritage of more than a century in product development and innovation for the textile industry, DyStar also caters to multiple sectors including paints, coatings, paper and packaging industries. Its expansion into food and beverages and personal care sectors reinforces the company’s position as a specialty chemical manufacturer.

DyStar’s global presence offers customers reliable access to experts from offices, competence centres, agencies and production plants spanning over 50 countries.

DyStar has 16 manufacturing plants with a combined production capacity of 176,000 TPA. It is a market leader in global dyes market with a market share of over ~21%.

It has expertise in dyes, dyes solutions, leather solutions, performance chemicals, and custom manufacturing of special dyes/ pigments.

KIL acquired DyStar in 2010, along with Zhenjiang Longsheng holding 37.57% presently.

* Includes disputed provisions / write off in CY18 and CY19 of USD 113.02 Mn and USD 26.56 Mn respectively.
DyStar was founded in 1995 as a joint venture between Hoechst AG and Bayer Textile Dyes. In 2000, the textile dyes business from BASF was integrated. In 2010, DyStar Group was acquired by Kiri Industries Limited (KIL).
Successfully turning around the operations of DyStar

- The turn-around plan was successfully executed by replacing high cost German manufacturing base with low cost manufacturing in India, China and Indonesia, etc. KIL is entitled to profit shares of INR 826 Mn, INR 1,976 Mn, INR 1,700 Mn, INR 1,561 Mn, INR 2,313 Mn, INR 65 Mn and INR 260 Mn over the 7 fiscals from FY14 to FY20.

Updates on court case in Singapore

- The Company has filed minority oppression suit in June 2015 against Senda, DyStar and nominated directors on board of DyStar, Judgment was delivered by Singapore International Commercial Court ("SICC") dated July 03, 2018 wherein the court remarked that Senda had committed numerous acts of minority oppression against the company and ordered a buy-out of KIL's 37.57% stake in DyStar.

- SICC vide it further order dated 8 January, 2019, had directed the valuation process to value Kiri’s 37.57% stake in DyStar. The court of appeal vide its order dated 29 May 2019 upheld the earlier SICC decision and dismissed the appeal with cost filed by Senda. As per direction of SICC, both parties have filed their respective valuation reports with SICC and the trial for valuation of Kiri’s stake has been completed in two tranches during nine days hearing between February 26, 2020 and March 2, 2020 and between March 31, 2020 and April 6, 2020. The final hearing for oral closing and related arguments are also completed on 1 July 2020. The SICC will deliver their judgment any time.

- The SICC had delivered their judgment on March 3, 2020, in DyStar Case, against the Company and Manish Kiri for payment of total damages to USD 678,480.50 and cost of S$245,877.52 to DyStar in DyStar’s claim for violation of non-compete clause of Share Subscription and Shareholders Agreement (“SSSA”) with respect to solicitation of DyStar’s customer(s) in Morocco and Sri Lanka. The Company has filed an appeal with Court of Appeal against the said order dated March 3, 2020. The appeal is expected to hear by Court of Appeal sometime in September 2020.
Value Creation in DyStar

Continuation......

• DyStar has initiated a new suit against the Company and Mr. Manish Kiri for alleged violation of SSSA with respect to competition by the Company with DyStar through solicitation of customers of DyStar in Bangladesh, Pakistan, Iran and Brazil. The Company has filed defense and also filed counterclaim on June 8, 2020 against the claim of DyStar. The customers which are alleged by Dystar in their new claim, have been in business with the Company prior to execution of SSSA i.e. 31 January 2010. Hence, Kiri Management does not foresee any payment of damages to DyStar.
The Colourant Industry

- Global colorants market is forecast to witness a CAGR of around 9% during 2020 – 2025. The market is driven by rising inclination of consumers towards innovative and appealing shades of packaged products and items. Moreover, increasing need for dyestuff in numerous end-use segments such as plastics industry, food industry, among others, is positively impacting the market growth. Also, growing awareness pertaining to advantages of natural colorants in terms of providing health benefits coupled with favorable government policies is further expected to augment market growth over the next few years. Factors that lead to the growth are

1. Strong growth in key end-user industries.
2. Tightening of environment norms and increasing operating cost in China.
3. Rising demand for finished products from India.
4. Shift from generic/commodity to high value specialty/eco-friendly colourants.
5. A switch from small and unorganised players to large integrated players.

- The Colourant industry in India is highly fragmented, with ~900 manufacturers, and the top five players accounting for less than 30% of the industry’s production.
  - 15-20 are large and medium-sized organised units and the rest are small and unorganised.
  - Large players dominate the value-added segment, middle level players serve as suppliers to MNCs and smaller players who largely cater to the domestic market.
  - ~80% of colourant manufacturing units are located in Gujarat and Maharashtra, due to the dominance of the textile industry, availability of raw materials in these regions and proximity to ports.

Source: FICCI, Ministry of chemicals & fertilizers, Systematix Institutional Research, Industry Reports, Company Annual Reports, Gujarat Dyestuff Manufacturers’ Association, Bloomberg
Source – Department of Chemicals & Petrochemicals
Source: techsciresearch.com/report/global-colorants-market/
Dyestuff Industry:
The global dye market is expected to witness a growth of USD 8.75 billion by 2023 with a CAGR of 8.13%. The dyes and dyestuff industries play a major role in the growth of the chemical industry. Dyes intermediates are products that are transformed to finished dyes and pigments. The dye intermediates serve various industries like plastics, paint, textiles, printing inks and paper. The overall capacity of dyestuff is 2,00,000 tonnes per annum and the Indian dyestuff industry meets about 95% of the domestic requirements. Out of which about 60% is consumed by the textile industry and the remaining by other industries. The dyes can be classified based on the dyeing process, on chromophore, based on application and on colour index. The global market for dyes has been witnessing a significant growth due to the expansion of various industries. India and Indonesia are gradually taking the lead in manufacturing dyes due to the availability of the raw materials and organic intermediate chemicals. Developing economies like India, Brazil and Indonesia are expected to play a significant role in the growth and development of the industry. Factors leading to growth are:

(1) Strong growth in the key end-user industries (textile, leather, paper, etc.).
(2) Tightening of environment norms in China.
(3) An increase in the demand for finished products from India.
(4) Forward integration by Indian DI manufacturers into DS to tap the large exports opportunity.

Source: FICCI, Ministry of chemicals & fertilizers, Systematix Institutional Research, Industry Reports, Company Annual Reports, Gujarat Dyestuff Manufacturers’ Association, Bloomberg
Source: https://www.dyeschemicalmarket.com/articles/title/The_important_role_of_Intermediates_across_Industries#sthash.qHe4C7dr.dpbs
Indian Dyes Intermediates Industry

Dyes Intermediates Industry:

- In terms of value, DI accounts for 47% (~USD 1.9 Bn) of the total colourant industry in India and posted a CAGR of 16.8% from 2009 to 2016.
- Over 70% of the DI industry in India is organised due to the clients’ preference for fully compliant suppliers and higher cost of ETPs (20-30% of the project cost and 40-50% of land occupation).
- Going forward, it is expected that India’s DI capacity is to be used captively to produce DS by large integrated manufacturers, while standalone DI manufacturers will focus on the exports and domestic market.

% of Global DI Volume

- China 70%
- India 17%
- ROW 13%

% of Total DI Volume

- Other Di 40%
- VS & H acid 60%

Source: FICCI, Ministry of chemicals & fertilizers, Systematix Institutional Research, Industry Reports, Company Annual Reports, Gujarat Dyestuff Manufacturers’ Association, Bloomberg
Industry Overview

Indian Colourant Industry

- 2011: 2 CAGR: 15.3%
- 2016: 4.1 CAGR: 15.6%
- 2021: 8.4

Global Colourant Industry

- 2011: 23.8 CAGR: 4.8%
- 2016: 30.1 CAGR: 5.0%
- 2021: 38.4

Indian Colourant Industry Share Globally

- 2011: 8.40%
- 2016: 13.50%
- 2021: 21.90%

RoE and RoCE

- 2009: 31%
- 2016: 28%
- 2021: 29%

India's Colourant Domestic-Export Mix

- Export: 46%
- Domestic: 54%

India – Reactive DS

- 2009: 0.44
- 2016: 1.06

Source: FICCI, Ministry of chemicals & fertilizers, Systematix Institutional Research, Industry Reports, Company Annual Reports, Gujarat Dyestuff Manufacturers’ Association, Bloomberg
India’s Competitive Advantage

China Factors:

• In China, apart from the ETP hurdle, there is:
  (1) Reduction in refund of VAT from 17% to about 13% on DI
  (2) Cancellation in power subsidy (a major cost, 6-9% of revenue)
  (3) Non refund of VAT on DS export out of China causing imposition of export duty on dyestuffs
  (4) Increasing labour cost (~USD 300 p.m compared to ~USD150 p.m in India)

2014-present
(Industry is shifting to other Asian countries; India is well placed to grab the opportunity)

Intervention of Chinese government (due to environmental issues):

• ETPs for adequate environment compliances became compulsory in China, which increased capital + operating costs.
• Chinese unit margins and ROIs are declining due to increasing costs.
• India gains market share.

• A similar trend is expected in China and Chinese DS manufacturers are expected to start importing DI (raw material for DS) from India.

Source: FICCI, Ministry of chemicals & fertilizers, Systematix Institutional Research, Industry Reports, Company Annual Reports, Gujarat Dyestuff Manufacturers’ Association, Bloomberg
Focus on expanding the existing Disperse dyes and its intermediate facilities

Set up manufacturing facilities of Specialty Intermediates

Focus on setting up manufacturing facility of Commodity chemicals under ‘Make In India’ Initiative

Inorganic and organic growth through merger and acquisition

Focus on establishing joint ventures with leading MNCs for setting up manufacturing facilities in or outside India

Focus on strengthening product mix to improve margins

Focus on Free Cash Flow Generation and high sustainable RoE and RoCE
## Standalone Income Statement

<table>
<thead>
<tr>
<th>PARTICULARS (INR Mn)</th>
<th>FY17**</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenue from Operations</td>
<td>10,335</td>
<td>9,013</td>
<td>10,619</td>
<td>9,690</td>
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<tr>
<td>Total Expenses</td>
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<td>7,712</td>
<td>9,055</td>
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<tr>
<td>EBITDA</td>
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<td>1,301</td>
<td>1,564</td>
<td>961</td>
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<tr>
<td>EBITDA Margin</td>
<td>12.35%</td>
<td>14.43%</td>
<td>14.73%</td>
<td>9.92%</td>
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<tr>
<td>Other Income</td>
<td>20</td>
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<td>28</td>
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<td>Depreciation</td>
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<td>Finance Cost</td>
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<td>PBT</td>
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<td>1,067</td>
<td>1,263</td>
<td>591</td>
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<td>Tax</td>
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<td>Profit After Tax</td>
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<td>PAT Margin</td>
<td>9.12%</td>
<td>11.37%</td>
<td>11.30%</td>
<td>5.18%</td>
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<td>Other Comprehensive Income</td>
<td>(1)</td>
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<td>(2)</td>
<td>(4)</td>
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<tr>
<td>Total Comprehensive Income</td>
<td>942</td>
<td>1,026</td>
<td>1,198</td>
<td>498</td>
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<tr>
<td>Diluted EPS (INR per share)</td>
<td>25.82</td>
<td>22.33</td>
<td>23.12</td>
<td>9.61</td>
</tr>
</tbody>
</table>

** Includes Excise Duty
## Standalone Balance Sheet

<table>
<thead>
<tr>
<th>PARTICULARS (INR Mn)</th>
<th>FY19</th>
<th>FY20</th>
<th>PARTICULARS (INR Mn)</th>
<th>FY19</th>
<th>FY20</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equity</strong></td>
<td>6,307</td>
<td>6,730</td>
<td><strong>Non Current Assets</strong></td>
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<td>a) Property, Plant and Equipment</td>
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<td><strong>Other Equity</strong></td>
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<td></td>
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<td>e) Financial Assets</td>
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<tr>
<td>(i) Borrowings</td>
<td>1,488</td>
<td>960</td>
<td>(i) Investments</td>
<td>1</td>
<td>1</td>
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<tr>
<td>(ii) Trade Payables</td>
<td>36</td>
<td>1</td>
<td>(ii) Trade Receivable</td>
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<td>(iii) Other Financial Liabilities</td>
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<td>(ii) Other financial assets</td>
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<td>b) Provisions</td>
<td>127</td>
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<td>f) Other Assets</td>
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<td>c) Deferred Tax Liabilities (Net)</td>
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<td>g) Deferred Tax Assets</td>
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<tr>
<td>d) Other Non Current Liabilities</td>
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<td>Current Assets</td>
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<td>Current Liabilities</td>
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<td>3,021</td>
<td>a) Inventories</td>
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<td>a) Financial Liabilities</td>
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<td>(i) Investments</td>
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<td>(i) Borrowings</td>
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<td>1,887</td>
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<td>(ii) Trade Payables</td>
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<td>(iii) Cash and Cash Equivalents</td>
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<td>(iv) Bank balances other than above</td>
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<td>13</td>
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<td>b) Other Current liabilities</td>
<td>517</td>
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<td>(v) Loans</td>
<td>181</td>
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<tr>
<td>c) Provisions</td>
<td>16</td>
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<td>(vi) Other financial assets</td>
<td>51</td>
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<tr>
<td>d) Current Tax Liabilities (Net)</td>
<td>184</td>
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<td>c) Current Tax Assets (Net)</td>
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<td></td>
<td></td>
<td></td>
<td>d) Other Current Assets</td>
<td>204</td>
<td>108</td>
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<tr>
<td><strong>GRAND TOTAL - EQUITIES &amp; LIABILITIES</strong></td>
<td>10,643</td>
<td>10,875</td>
<td><strong>GRAND TOTAL – ASSETS</strong></td>
<td>10,643</td>
<td>10,875</td>
</tr>
</tbody>
</table>
## Consolidated Income Statement

<table>
<thead>
<tr>
<th>PARTICULARS (INR Mn)</th>
<th>FY17**</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenue from Operations</td>
<td>11,983</td>
<td>11,352</td>
<td>13,938</td>
<td>13,054</td>
</tr>
<tr>
<td>Total Expenses</td>
<td>10,393</td>
<td>9,542</td>
<td>11,628</td>
<td>11,193</td>
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<tr>
<td>EBITDA</td>
<td>1,590</td>
<td>1,810</td>
<td>2,310</td>
<td>1,861</td>
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<tr>
<td><em>EBITDA Margin (%)</em></td>
<td>13.27%</td>
<td>15.94%</td>
<td>16.57%</td>
<td>14.26%</td>
</tr>
<tr>
<td>Other Income</td>
<td>24</td>
<td>16</td>
<td>27</td>
<td>53</td>
</tr>
<tr>
<td>Depreciation</td>
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<td>341</td>
<td>376</td>
<td>444</td>
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<tr>
<td>Finance Cost</td>
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<td>35</td>
<td>51</td>
<td>49</td>
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<tr>
<td>PBT</td>
<td>1,232</td>
<td>1,450</td>
<td>1,910</td>
<td>1,421</td>
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<td>Tax</td>
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<td>183</td>
<td>334</td>
<td>264</td>
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<tr>
<td>Profit After Tax</td>
<td>1,095</td>
<td>1,267</td>
<td>1,576</td>
<td>1,157</td>
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<tr>
<td><em>PAT Margin (%)</em></td>
<td>9.14%</td>
<td>11.16%</td>
<td>11.31%</td>
<td>8.86%</td>
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<tr>
<td>Income from Associate</td>
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<td>65</td>
<td>2,598</td>
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<td>Other Comprehensive Income</td>
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<td>(2)</td>
<td>(5)</td>
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<tr>
<td>Total Comprehensive Income</td>
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<td>3,750</td>
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<td>Diluted EPS (INR per share)</td>
<td>72.84</td>
<td>77.93#</td>
<td>31.62#</td>
<td>72.34#</td>
</tr>
</tbody>
</table>

**Includes Excise Duty**

# After considering share of profit of associates and disputed provisions of DyStar
## Consolidated Balance Sheet

<table>
<thead>
<tr>
<th>PARTICULARS (INR Mn)</th>
<th>FY19</th>
<th>FY20</th>
<th>PARTICULARS (INR Mn)</th>
<th>FY19</th>
<th>FY20</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equity</strong></td>
<td>15,673</td>
<td>19,334</td>
<td><strong>Non Current Assets</strong></td>
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<td>18,919</td>
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<td>Equity Share Capital</td>
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<td>336</td>
<td>a) Property, Plant and Equipment</td>
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<td>Other Equity</td>
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</tr>
<tr>
<td>(i) Borrowings</td>
<td>1,488</td>
<td>960</td>
<td>(ii) Trade Receivable</td>
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<td>20</td>
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<td>(ii) Trade Payable</td>
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<td>b) Provisions</td>
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<td><strong>Current Assets</strong></td>
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<td>d) Other Current Assets</td>
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<td>24,038</td>
<td><strong>GRAND TOTAL – ASSETS</strong></td>
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<td>24,038</td>
</tr>
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</table>
## Consolidated Financial Highlights

### Operational Revenue (INR Mn)

<table>
<thead>
<tr>
<th></th>
<th>FY16</th>
<th>FY17</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY16</td>
<td>11,119</td>
<td>11,983</td>
<td>11,352</td>
<td>13,938</td>
<td>13,054</td>
</tr>
<tr>
<td>FY17</td>
<td>11,983</td>
<td>11,352</td>
<td></td>
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<tr>
<td>FY18</td>
<td>11,352</td>
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<td></td>
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<tr>
<td>FY19</td>
<td>13,938</td>
<td></td>
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<tr>
<td>FY20</td>
<td>13,054</td>
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</table>

### EBITDA (INR Mn) & EBITDA Margins (%)

<table>
<thead>
<tr>
<th></th>
<th>FY16</th>
<th>FY17</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
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</thead>
<tbody>
<tr>
<td>FY16</td>
<td>1,239</td>
<td>1,590</td>
<td>1,810</td>
<td>2,310</td>
<td>1,861</td>
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<td>FY20</td>
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</tbody>
</table>

### PAT (INR Mn) & PAT Margins (%)

<table>
<thead>
<tr>
<th></th>
<th>FY16</th>
<th>FY17</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY16</td>
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<tr>
<td>FY17</td>
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<td>FY18</td>
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<tr>
<td>FY19</td>
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<td></td>
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<td></td>
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</tr>
<tr>
<td>FY20</td>
<td>2,50%</td>
<td>9.14%</td>
<td>11.16%</td>
<td>11.31%</td>
<td>8.86%</td>
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### RoE# and RoCE#

<table>
<thead>
<tr>
<th></th>
<th>FY16</th>
<th>FY17</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY16</td>
<td>31%</td>
<td>26%</td>
<td>25%</td>
<td>19%</td>
<td>11%</td>
</tr>
<tr>
<td>FY17</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FY18</td>
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<tr>
<td>FY19</td>
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<td>FY20</td>
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</tbody>
</table>

### Net Debt : Equity

<table>
<thead>
<tr>
<th></th>
<th>FY16</th>
<th>FY17</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY16</td>
<td>0.41</td>
<td>0.16</td>
<td>0.1</td>
<td>0.08</td>
<td>0.04</td>
</tr>
<tr>
<td>FY17</td>
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<td>FY18</td>
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<td>FY20</td>
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</table>

### Net Worth (INR Mn)

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<thead>
<tr>
<th></th>
<th>FY16</th>
<th>FY17</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY16</td>
<td>6,354</td>
<td>10,324</td>
<td>14,047</td>
<td>15,673</td>
<td>19,334</td>
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<tr>
<td>FY17</td>
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<td>FY18</td>
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<td>FY19</td>
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<td>FY20</td>
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</tbody>
</table>

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*After considering share of profit of associates and disputed provisions of DyStar*
### Price Data (30th June, 2020)

<table>
<thead>
<tr>
<th></th>
<th>INR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Face Value</td>
<td>10.0</td>
</tr>
<tr>
<td>Market Price</td>
<td>415.6</td>
</tr>
<tr>
<td>52 Week H/L</td>
<td>533.0/188.1</td>
</tr>
<tr>
<td>Market Cap (Mn)</td>
<td>13,971.1</td>
</tr>
<tr>
<td>Equity Shares Outstanding (Mn)</td>
<td>33.6</td>
</tr>
<tr>
<td>1 Year Avg Trading Volume (’000)</td>
<td>134.0</td>
</tr>
</tbody>
</table>

### Shareholding Pattern as on 30th June, 2020

- **Promoters**: 42%
- **Public**: 32%
- **DII**: 2%
- **FII/Banks**: 24%

### Share Price Data as on 30th June 2020

- **Kiri Industries**
- **SENSEX**

![Chart showing share price data from July 2019 to June 2020](chart.png)
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For further details, please feel free to contact our Investor Relations Representatives:

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Valorem Advisors
Tel: +91-22-4903-9500
Email: kiri@valoremadvisors.com
THANK YOU