











# Lumax Industries Limited

Investor Presentation – February 2017



## Safe Harbor



This presentation and the accompanying slides (the "Presentation"), which have been prepared by **Lumax Industries Limited** (the "Company"), have been prepared solely for information purposes and do not constitute any offer, recommendation or invitation to purchase or subscribe for any securities, and shall not form the basis or be relied on in connection with any contract or binding commitment whatsoever. No offering of securities of the Company will be made except by means of a statutory offering document containing detailed information about the Company.

This Presentation has been prepared by the Company based on information and data which the Company considers reliable, but the Company makes no representation or warranty, express or implied, whatsoever, and no reliance shall be placed on the truth, accuracy, completeness, fairness and reasonableness of the contents of this Presentation. This Presentation may not be all inclusive and may not contain all of the information that you may consider material. Any liability in respect of the contents of, or any omission from, this Presentation is expressly excluded.

Certain matters discussed in this Presentation may contain statements regarding the Company's market opportunity and business prospects that are individually and collectively forward-looking statements. Such forward-looking statements are not guarantees of future performance and are subject to known and unknown risks, uncertainties and assumptions that are difficult to predict. These risks and uncertainties include, but are not limited to, the performance of the Indian economy and of the economies of various international markets, the performance of the industry in India and world-wide, competition, the company's ability to successfully implement its strategy, the Company's future levels of growth and expansion, technological implementation, changes and advancements, changes in revenue, income or cash flows, the Company's market preferences and its exposure to market risks, as well as other risks. The Company's actual results, levels of activity, performance or achievements could differ materially and adversely from results expressed in or implied by this Presentation. The Company assumes no obligation to update any forward-looking information contained in this Presentation. Any forward-looking statements and projections made by third parties included in this Presentation are not adopted by the Company and the Company is not responsible for such third party statements and projections.



## DK Jain Group



Seven Decade Strong

Leader in
Automotive
Lighting & Gear
Shifters

12 Entities in 8
States



26 Manufacturing Facilities

3 R&D Centres (India)

& 1 Design Centre (Taiwan)

> Over 7,000 Employees



### Two Listed Entities



#### **Lumax Industries Limited**

#### **Products & Services**

**End-to-end Automotive Lighting Solutions** 

### **Partnerships**

- Stanley Japan
- SL Corporation Korea

### **Lumax Auto Technologies Limited**

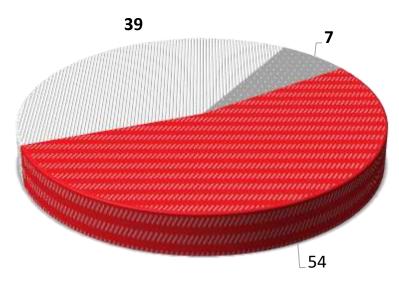
#### **Products & Services**

Intake Systems, Integrated Plastic modules, 2-wheeler Chassis & Lighting, Gear Shifters, Seat Structures & Mechanisms, LED Lighting, Aerospace & Defence Engineering Services, Aftermarket, Electrical & Electronics components

### **Partnerships**

- Cornaglia SPA Italy
- Mannoh Industrial Co. Limited Japan
- Gill Industries Inc. USA
- Austem Co. Limited Korea
- Sipal SPA Italy
- Alpine Japan

# Group Revenue Break Up (%) FY 16 Revenue of Rs. 2,300 Cr





## Vision, Mission, Purpose





To be a Sustainable, Respected & Profitable Brand with a Global Presence, that continues to enhance stakeholder value & exceed customer expectations as the preferred supplier



To be a Lean, Profitable, Diversified & Learning Organization that is highly responsive, energetic & innovative by involving people as partners & attaining highest levels of quality, excellence & technology across our domains

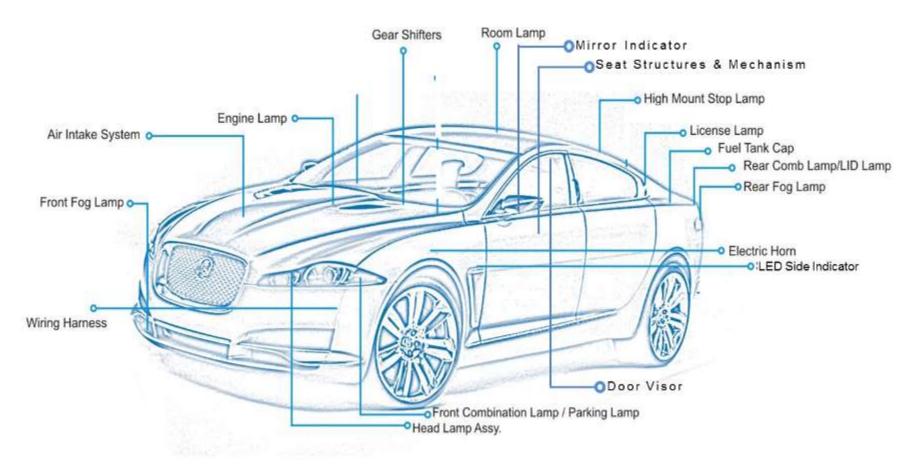


To create a Happy, Safe, Participative, Proud & Admirable Place to Work that inspires individuals to consistently deliver total customer satisfaction



## Diversified Product Range – 4-wheelers & CV



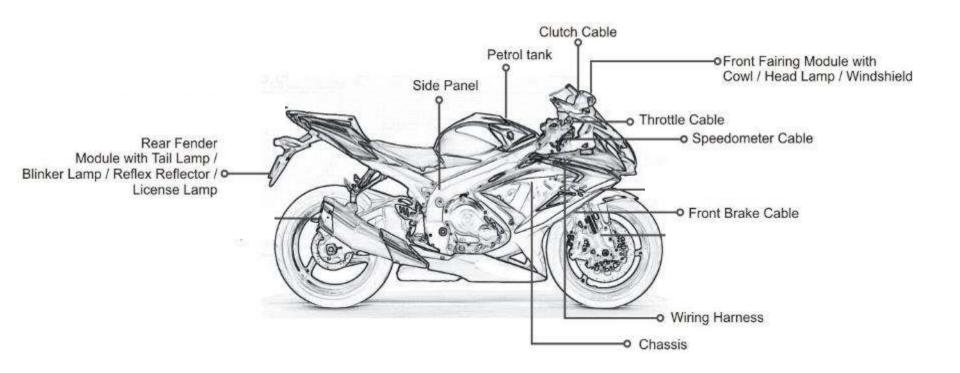


**Destination Boards for Commercial Vehicle** 



## Diversified Product Range – 2-wheelers







## Fostering Partnerships to Deliver Excellence





Japan

JV for Lighting

Relationship Since 1984

37.5% in Lumax Industries
Limited



Korea

JV for Lighting and other automotive parts

Relationship Since 1997

78.72% in SL Lumax Limited



Italy

JV for Emission Systems

Relationship Since 2007

50% in Lumax Cornaglia Auto Technologies Pvt Limited



Japan

JV for Gear Shifters

Relationship Since 2008

45% in Lumax Mannoh Allied Technologies Limited





JV for Seat Frames, Structures and Mechanism

Relationship since 2013

50% in Lumax Gill-Austem Auto Technologies Pvt Limited



JV for Integrated Logistic Support Engineering

Relationship since 2015

49% in Lumax SIPAL Engineering Pvt Limited



Japan

Exclusive Distributorship Agreement

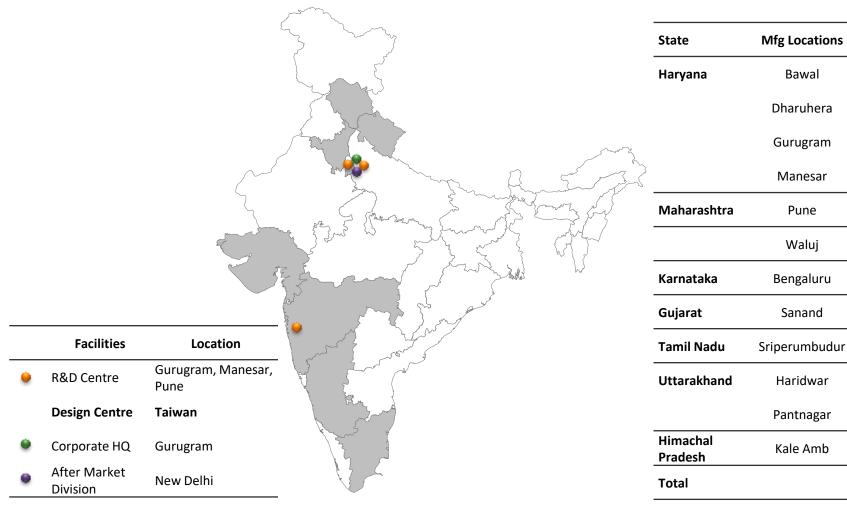
Relationship since 2014



## 26 Locations close to Customers



#



### 26 Plants in 7 States

Lumax Industries Limited & Lumax Auto Technologies Limited, along with its subsidiaries, JVs & Associates



## Enhanced 360° Customer View

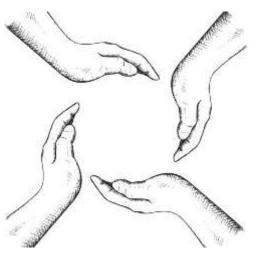


#### **Understand the Customer**

 A real understanding of varying customer needs & the capability to deliver outstanding results

#### **Environmental Conscious**

• Environment-conscious work practices



#### **Experienced Team**

 Highly Qualified & Experienced workforce of dedicated professionals

### **Research & Development**

 Government approved 3 R&D facilities & 1 Overseas Design Centre in Taiwan

## **Global Footprints**

Global footprint through exports

### **Technology Leadership**

- Partnerships with global players provides competitive edge
- Avant-garde technology at par with the best players worldwide

#### **Faster Turnaround**

 Lightning-fast turnaround time & impressive speed to market



## Relationships with Diversified Customers



### Two Wheeler

















### Four Wheeler





















## **Commercial Vehicle**























## Relationships with Diversified Customers...



## Tractor/FES





Defence & Aero Space



## **Export**





















... Strong After Market Exports Presence



# Lumax Industries Limited

Leadership in Automotive Lighting



## Milestones

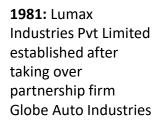




**1956-57:** Set-up dedicated unit for Automotive Lighting Equipment in Delhi

**1977-79:** Setup manufacturing units in Faridabad, Haryana and Pune, Maharashtra

1945-80



**1984:** TA signed with Stanley, Japan for Lighting Equipment

\_

1981-84

1985: Setup a manufacturing unit in Gurugram, Haryana. The company went public & is listed on the stock exchange

1985

1994

**1994:** Equity participation of Stanley, Japan in Lumax Industries Limited

Manufacturing unit setup in Aurangabad, Maharashtra

1997: Joint Venture agreement with SL Lumax Limited. Further Equity participation by Stanley, Japan

1997-98

**1998:** Set-up manufacturing unit at Dharuhera, Haryana



## Milestones



### ...2005 -2017 a period of strategic expansion

2007: Further Equity participation by Stanley, Japan
2008: Setup manufacturing plant in Pantnagar, Uttarakhand & expansion of Dharuhera and Chakan plants. Also

setup a R&D centre at

Gurugram

2006-09

**2010:** Setup a manufacturing plant in Haridwar, Uttarakhand

2011: Setup
manufacturing plants in
Bawal, Haryana;
Sanand, Gujarat &
Bidadi, Karnataka. Also
setup a R&D centre at
Pune

2010-13

**2017:** Further expansion at Sanand, Gujarat facility

2017

**2014:** The Company completed 25 years of listing on BSE

2014-16

**2015:** The Company received the TPM award from JIPM

**2016:** Opening of **Design Centre** in

Taiwan

Lumax Industries **2005:** Setup

2003: Demerger

**2005:** Setup

manufacturing unit in Chakan, Maharashtra

2002-05



## Competitive Advantages



### **Partnerships**

With more than **3** decades of partnership with Stanley, Japan, the only global auto lighting company to manufacture LED worldwide, having presence in Japan, America, China, Asia Pacific and Europe

### **Technology Expertise**

State-of-the-art facilities allows us to benchmark our products

#### Financial Stability

Consistent financial performance with improving return ratios

### Market Leaders

Leadership in Lighting

### **Product Portfolio**

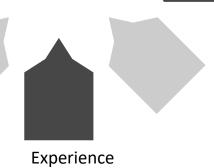
One of the few players with largest range of lighting solutions

### In-House Design

2 R&D centers & 1 Overseas
Design centre to stay ahead of
the curve in design trends



10 manufacturing facilities strategically located at key automotive hubs in the country



Over **7** decades of OEM relationships

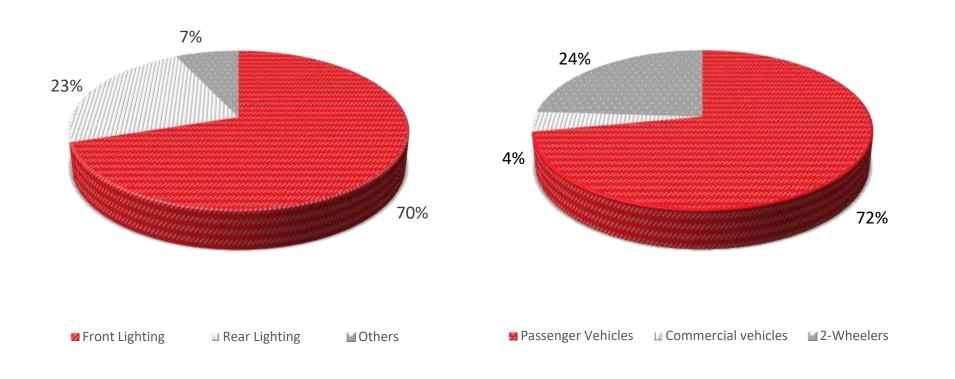


## Product & Segment Mix



Product wise Sales 9MFY17 (Rs. 907 Crores)

Segment Wise Sales 9MFY17 (Rs. 907 Crores)



Front Lighting – Head Lamp & Fog Lamp
Rear Lighting – Tail Lamp & High Mount Stop Lamp
Others – Auxiliary Lamps, Indicators

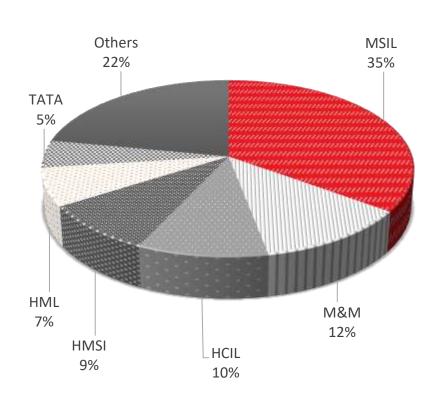


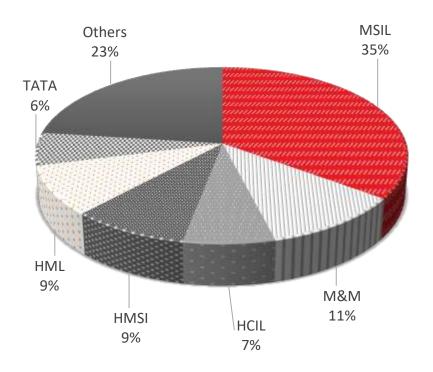
## **Customer Mix**



## Customer wise sales FY16 (Rs. 1,245 Crores)

## Customer wise sales 9MFY17(Rs. 907 Crores)







## SL Lumax Limited



#### **SL Lumax Limited**

Associate Company with 21.28% holding

Plant in Sriperumbudur (Chennai)

In partnership with SL Corporation, Korea, a multinational automotive player with presence in Asia-Pacific, Europe & US

#### **Products**

#### Lamps

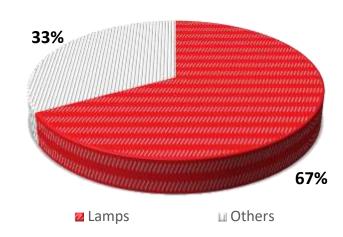
Head Lamp, Rear Combination Lamp, Fog Lamp

#### **Others**

Chassis, Trim & Mirrors

Shift Lever, Parking Brakes

## Sales Breakup FY16 – Rs. 900 Crores







## Strong Customer Base ...



### **Four Wheeler**



















### **Two Wheeler**











#### **Commercial Vehicle**

















### **Export**















**Tractor /FES** 





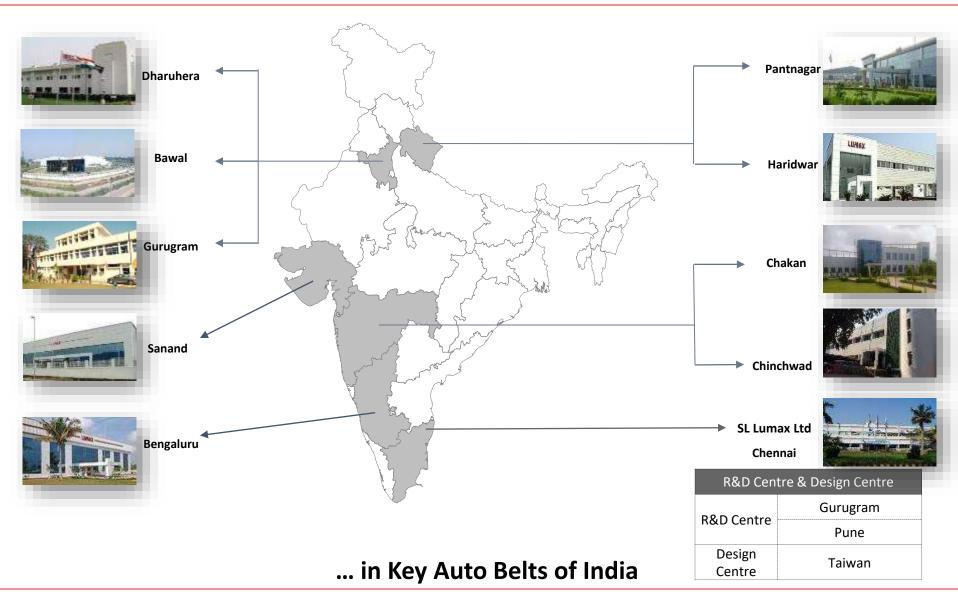


... Servicing almost 90% of OE Customers in India ...



## ... From Strategic Locations ...







## State of Art Manufacturing Facilities









## State of Art Manufacturing Facilities









## State of Art Manufacturing Facilities









## ...In-house R&D & Validation Facility













## ...In-house Design Studio







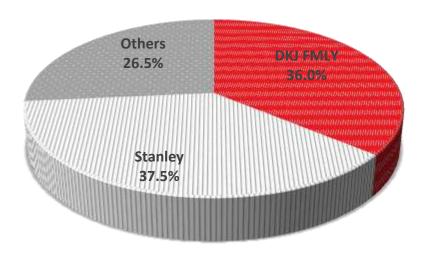








## Shareholding breakup



#### **Stanley Electric Company Ltd**

Over three decades of strong technical & financial collaboration with Stanley Electric Company Ltd, Japan

A world leader in Vehicle Lighting & Illumination products for Automobiles

The only Global Auto Lighting company to manufacture LED worldwide



## Promoter Group





Mr. Dhanesh Kumar Jain Chairman

- He is 74 years of age & holds a MBA degree from Delhi university & has successfully completed President Management Program from Harvard Business School
- Over 50 years of experience in the automotive industry in management, operations & administrative roles
- He has held various industry positions
  - Past president of ACMA,
     President suppliers association –
     Toyota Kirloskar Motors,
     Chairman of Trade Fairs
     Committee ACMA, Co-chairman of Regional Committee on
     Membership of Northern Region
     CII, Past Chairman of CSR subcommittee of the Northern
     Region of CII



Mr. Deepak Jain Managing Director

- He is 41 years of age & is a Business Graduate from Illinois Institute of Technology, USA with specialization in Operations Management & International Business
- He has undergone extensive training at Stanley Co. Limited, U.S.A. & Stanley Electric Co. Limited, Japan. He has over 20 years experience
- He was chairman of ACMA's HR/IR & Skill
  Development Committee, past chairman
  of Sustainable Technology Development
  Committee of ACMA, past National
  Coordinator of Young Business Leader
  Forum of ACMA and past president of
  Supplier's club, Honda Cars India Limited
- He is Co-Learning Chair of Young Presidents' Organization & Member of Entrepreneurs' Organization. He also holds the position of Co-Chairman of Northern Region of ACMA & Vice President of Toyota Kirloskar Supplier's Association



Mr. Anmol Jain
Jt. Managing Director

- He is 37 years of age & holds Bachelors in Business Administration in Finance & Supply Chain Management (Double major) from Michigan State University, U.S.A.
- He worked as a Management Trainee with GHSP, U.S.A. & subsequently, joined Lumax Group, in 2000 & has over 17 years of experience
- He has held various positions in Industry associations. He was the National Coordinator of ACMA-YBLF from 2014-16. He was also the Chairman CII Haryana State Council in 2012-13
- He is currently the EC member of Honda Cars India Supplier's Club & Bajaj Auto Vendor Association MC member



## Promoter Group





Mr. Eiichi Hirooka Senior Executive Director

- He is 58 year old & is a Masters in Business Administration (Finance)
- He is a Nominee Director of M/s Stanley Electric Co. Limited, Japan & possesses around 32 years of rich experience in Auto Lighting sales in USA
- He is with Lumax since 2011



Mr. Koji Swada Executive Director

 He is 53 years old & graduated from Osaka Institute of Technology

\_\_\_\_\_

- He is a Nominee Director of M/s Stanley Electric Co.
   Limited, Japan and possesses over 30 years of rich experience in Quality Control & Lamp Assembly
- He is with Lumax since 2008



Mr. Toru Tanabe Non-Executive Director

- He is 57 years old & is a graduate from Hosei university, japan
- He has over 25 years of rich experience in R&D of Electrical components & advanced Illumination systems for automotive equipment
- He also has about 10 years of experience in automotive electronics
- He joined Stanley, Japan in 1981



## ...Supported by Strong Independent Directors







- He is 78 years old & is a mechanical engineer
- He has held top leadership positions in prestigious organisations having over 40 years of experience
- His last assignment was as President at Hyundai Motors India Limited. Prior to that he was Chief Executive –R&D at Escorts Limited & at Telco before that, holding various senior positions in the area of manufacturing operations



Mr. Gursaran Singh

- He is 81 years old and is an intermediate
- He is an Industrialist & possesses more than 60 years of experience in Auto Component Industry



Mr. M.C. Gupta

- He is 78 years old and is MA in English Literature from Agra University
- He is a Retd. IAS officer & has served the Union & State Governments in various capacities including Deputy Secretary, Min of Finance-Dept. of economic Affairs, Advisor – UNIDO (United Nations Industrial Development Organisation)



Mr. Dhiraj Dhar Gupta

- He is 66 years old and holds B.Com honours from SRCC, Delhi University
- He is an Industrialist; Director & Promoter of KSS Abhishek Auto Pvt Limited, having over 3 decades of experience in Auto Component manufacturing



Mr. Ratan Kapur

- He is 59 years old & is a B.Com Graduate from Delhi University
- He is an Industrialist & possesses more than 32 years of experience in Auto Component Industry
- He is the current President of ACMA & Chairman of Haryana State Council of CII



Ms. Pallavi Dinodia Gupta She is 36 years old an

- She is 36 years old and holds B.Com honours & is a Law Graduate from Delhi University
- She is a Chartered Accountant by profession & is a partner in SR Dinodia & Co. LLP, Chartered Accountants.
- She specializes in international taxation & also actively involved in the domestic taxation



## Professional & Experienced Team





Mr. Vineet Sahni Chief Executive Officer Age: 51 Years Experience: 30 Years



Mr. Naval Khanna
Corporate Head – Taxation
Age: 59 years
Experience: 40 years



Mr. Sanjay Mehta Group – Chief Financial Officer Age: 49 years Experience: 26 Years



Mr. Shrutikant Rustagi Chief Financial Officer Age: 46 Years Experience: 21 Years



Mr. B S Bhadauriya Group – Company Secretary Age: 52 Years Experience: 26 Years



Mr. Shwetank Tiwari Company Secretary Age: 38 Years Experience: 11 Years



Ms. Ibha Lal Corporate Head - HR Age: 50 Years Experience: 25 Years



Ms. Priyanka Sharma Corporate Communication & CSR Age: 48 Years Experience: 22 Years



Mr. Atul Jain
Corporate Head - Materials
Age: 47 Years
Experience: 24 Years



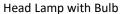
# The Path Ahead



## Head Lamp – Technology Evolution









**Projector Head Lamp** 



All LED Head Lamp



Head Lamp with bulb + Led DRI



Head Lamp with LED Projector and LED DRI

#### 2011-13

- Head Lamps with Halogen Bulbs with Clear PC Lens with Multi Focal Reflector (MFR) for Light Distribution were introduced in the passenger vehicle segment
- Indian OEM's introduced
   Projector Lamps with Halogen
   Lamps and some features with
   LED like the DRL (Daytime
   Running Lights). But Projector
   Lamps were offered as an option
   in top variants of the vehicles and
   not as a standard feature

#### 2014-15

- Introduction of Projector Lamps with Halogen Bulbs for new vehicles launched in India by more number of OEM's as standard feature
- In the later half of 2014 and start of 2015 more number of OEM's shifted focus to introduction of LED's for feature of DRL's and / or signature Lighting
- Also in 2015 more number of Head Lamps were introduced with LED's for DRL feature with usage of HID (High Intensity Discharge) Bulbs for Projector

#### 2016-17

- Almost all the models were introduced either with LED DRL feature or Projector Head Lamp (either with Halogen Bulb or HID Bulb) or with both LED DRL and Projector Head Lamp
- Headlamps with Signature DRL's or Lighting become a styling feature and were introduced in the vehicles launched in 2016
- Later half of 2016 also witnessed the introduction of LED Projector Head Lamps thus leading to more penetration of Electronics and LED into Head Lamps
- Year 2017 will witness the transition to manufacturing of Localized LED Head Lamp with Signature DRL and Position

#### 2017-18

 The future models which are replacing the existing models are now either with Projector Head Lamp (Bulb) whose predecessor were with Halogen Bulbs and with Projector Head Lamp (with LED) whose predecessors were with Projector with Halogen Bulbs

LED to drive the future growth



## Rear Lamp – Technology Evolution





Split type Tail Lamp



Tail Lamp with LED
Signature and Tail function



All LED Tail Lamp



3D Led Tail lamp



Adaptive rear Lighting

#### 2011-12

 Tail lamps were introduced with Clear Lenses with adoption of Multi Color Molding technique for giving a Homogenous appearance to the tail lamp

# 2013-mid of 2014

 New Styling adopted in Tail Lamps with introduction of Split Tail Lamp design

# End of 2014 - 2015

- Penetration of LED's into Tail Lamps with introduction of one or more feature with LED.
- LED's adopted for giving Signature shape in the Tail Lamps

#### 2016

 Almost all the new models launched were having presence of LED's either for one of the functions or for Signature Lighting

#### 2017 onwards

 All the new models to be introduced are with LED's for having better Aesthetic Appearance and Signature Appearance

LED to drive the future growth



## Leveraging on our Strengths for LED Market



The Market Scenario

Increased styling demands by OEMs to individualise & differentiate

Influencing the cost of lighting cluster

Creating revenue opportunities for Tier I suppliers

Partnership with Stanley Electric -

Stanley the only Auto Lighting company globally to manufacture LEDs

Lumax is supplying to almost 90% of OE customers

Higher need for Localization of Engineering & Cost Reduction

Strategically located Manufacturing Infrastructure

Consistent Investment in R&D

Backward integration with PCBMT (Surface Mounting Technology)

To gain from Bharat Stage VI

Creating The LUMAX Advantage



# Financials



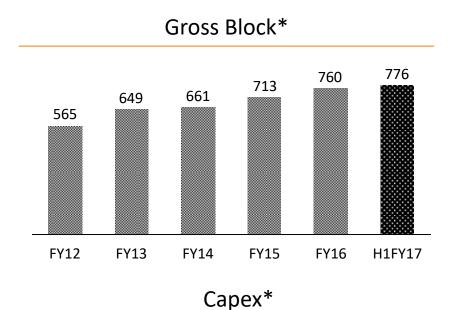
## Expansion funded through Internal Accruals

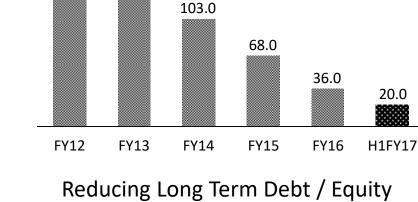
144.0

138.0

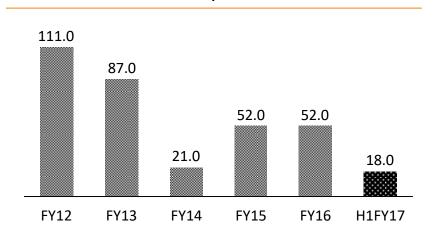


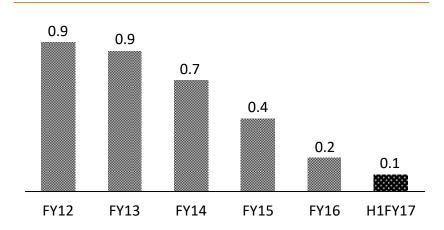
20.0





Long Term Loan\*



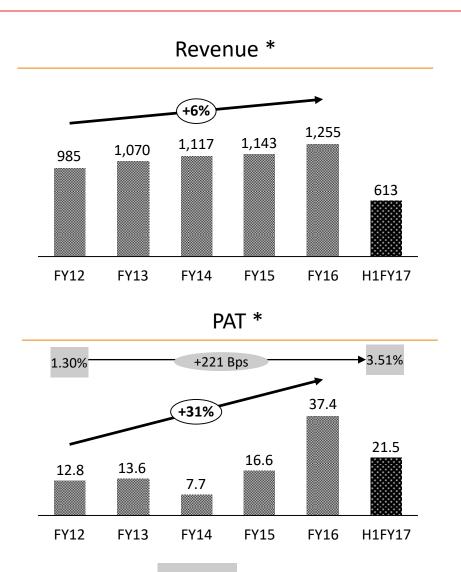


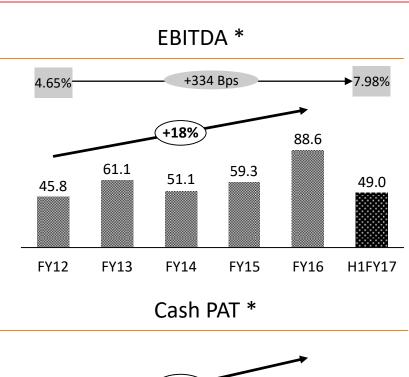
Standalone Results

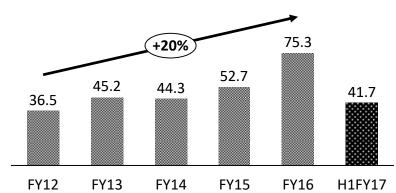


#### Revenue & Healthy Margins









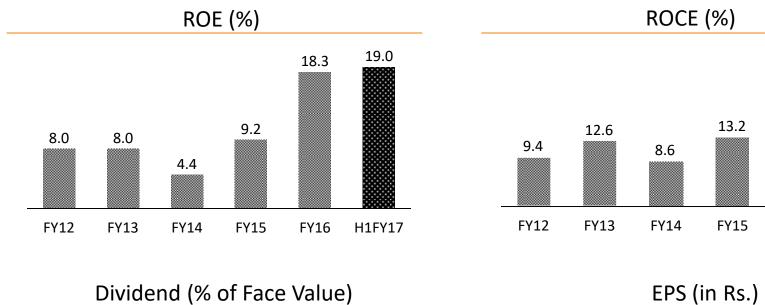
Standalone Results

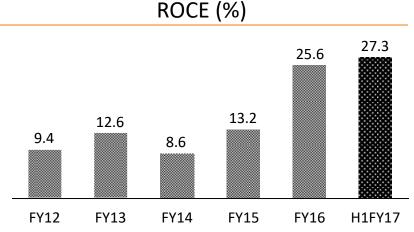
Margins

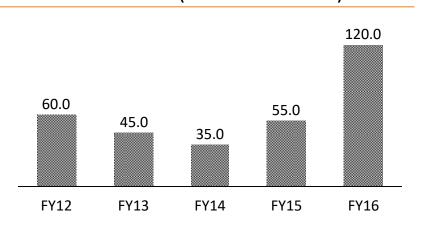


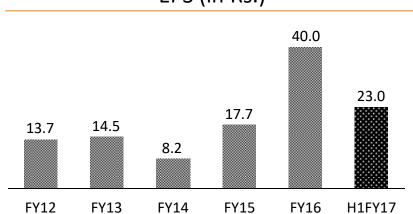
## Healthy Return Ratios







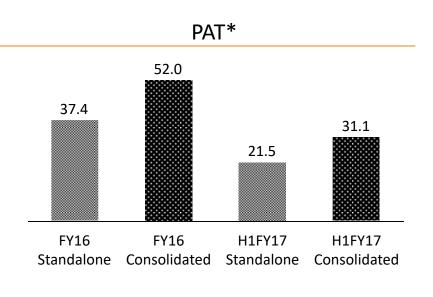


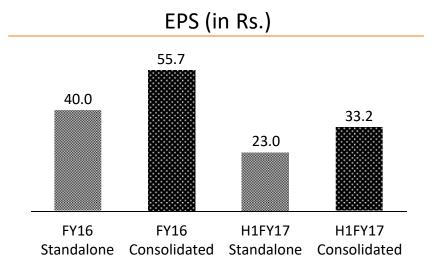


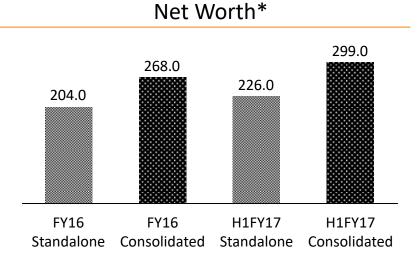


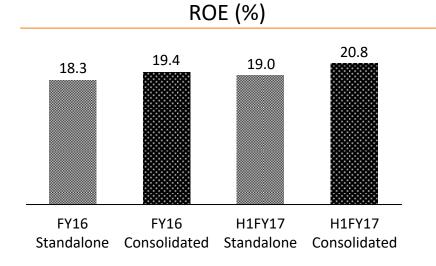
#### Consolidated Performance







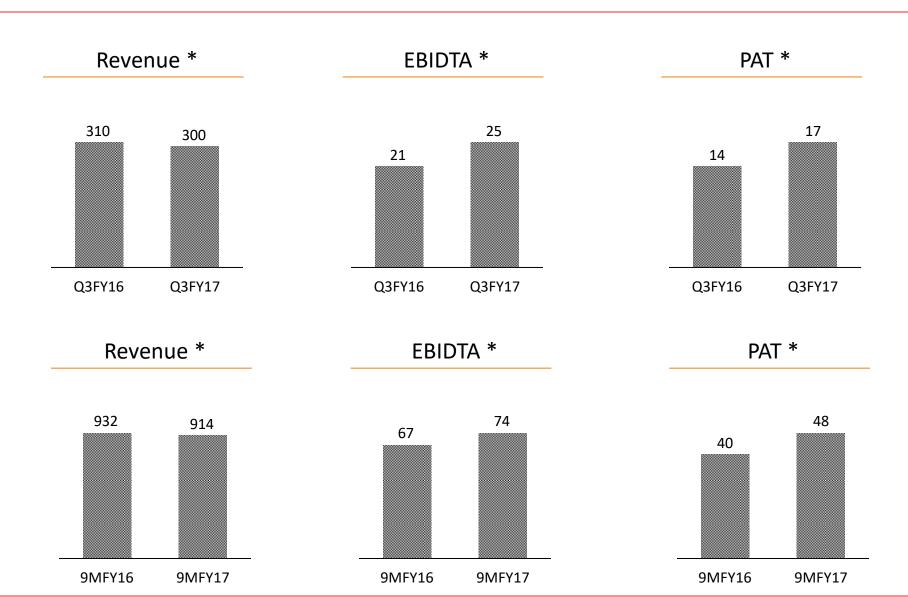






# YTD Highlights - Consolidated







#### Consolidated P&L Statement



Particulars (Rs. in Crores.)	Q3FY17	Q3FY16	Y-o-Y	9MFY17	9MFY16	Y-o-Y	FY16
Net Revenue	300.48	309.86	-3.03%	913.83	931.96	-1.95	1,255.18
Raw Material	190.22	206.66		576.87	624.32		839.72
Employee Expenses	40.53	36.77		119.42	105.70		142.67
Other Expenses	44.31	45.94		143.16	134.87		184.24
EBITDA (Inc Other income)	25.42	20.50	24.00%	74.39	67.07	10.92%	88.55
EBITDA Margin	8.5%	6.6%		8.1%	7.2%		7.05%
Depreciation	10.35	9.54		30.56	28.23		37.90
Finance Cost	2.68	3.06		9.09	9.86		13.44
РВТ	13.88	8.65	60.53%	38.45	31.60	21.68%	41.10
Tax	0.85	0.47		4.44	5.06		4.22
PAT (before Associates)	13.03	8.18		34.01	26.54		36.88
Profit from Associates	4.01	5.64		14.10	13.37		15.15
PAT	17.04	13.81	23.39%	48.11	39.91	20.56%	52.03
PAT margin	5.67%	4.46%		5.27%	4.28%		2.94%
EPS	18.23	14.78	23.34%	51.47	42.69	20.57%	55.66



#### Consolidated Balance Sheet



Particulars (Rs. in Crores.)	Sept-16	Mar-16	
Shareholder's Fund	299.4	268.4	
Share Capital	9.3	9.3	
Reserves & Surplus	290.1	259.0	
Non-current Liabilities	61.7	64.2	
Long-term Borrowings	4.3	10.6	
Deferred Tax Liabilities (net)	23.0	19.4	
Other Long Term Liabilities	34.4	34.1	
<b>Current Liabilities</b>	548.6	526.0	
Short-term Borrowings	115.0	84.8	
Trade Payables	285.8	307.2	
Other Current Liabilities	147.8	134.0	
Total Liabilities	909.7	858.6	

Particulars (Rs. in Crores.)	Sept-16	Mar-16	
Non-current Assets	541.2	525.5	
Fixed Assets	428.7	425.0	
Long-term Loans and Advances	33.8	30.6	
Non-current Investments	78.3	68.7	
Other Non-current Assets	0.5	1.2	
Current Assets	368.5	333.0	
Current Investments	0.1	0.1	
Inventories	116.3	104.6	
Trade Receivables	174.2	181.2	
Cash and Bank Balances	23.8	3.5	
Short-term Loans and Advances	50.8	36.6	
Other Current Assets	3.3	7.1	
Total Assets	909.7	858.6	



# Awards & Recognitions



#### Awards & Recognition





Overseas Supplier Association-'Special Recognition Award' from Toyota Motor Corporation, award being given by Mr. Takeshi Uchiyamada, Chairman,

**Toyota Motor Corporation** 



#### Awards & Recognition





Supplier Business Capability Building Award from Mahindra & Mahindra, being given by Mr. Hemant Sikka, Chief Purchasing Officer, in presence of Mr. Lalit Verma, Sr. VP CDMM & Mr. Rajnish Vashisht, VP CDMM, Mahindra & Mahindra

Best Supplier Award from TAFE September 2016, being given by Mrs. Mallika Srinivasan, Chairperson TAFE





#### Awards & Recognition





ACMA Award 2016 —Bronze -Excellence in Technology -Large Category, being given by Mr. Anant Geete, Hon'ble Union Minister for Heavy Industries & Public Enterprises in presence of Heavy Industries and Public Enterprises, in presence of Mr. Guenter Butschek, Chief Executive & Managing Director, Tata Motors

ACMA Award 2015 –Silver –Excellence in Technology -Large Category, being given by Mr. Anant Geete, Hon'ble Union Minister for Heavy Industries & Public Enterprises in presence of Heavy Industries and Public Enterprises, in presence of Mr. Vikram Kirloskar, Vice Chairman, Toyota Kirloskar Motor





#### **TPM Award**





JIPM-TPM EXCELLENCE AWARD PANTNAGAR PLANT, MARCH 2014



#### Future Ready: New Design Centre in Taiwan





Mr. C K Tao, Director, TAITRA-Taiwan Office, Mr. David Ho, Ex-President, TYC Group, Taiwan, along with Mr. D K Jain, Chairman and Mr. Vineet Sahni, CEO, Lumax Industries Limited



#### Celebrated 25 years of Listing





- Special bell ringing ceremony to celebrate 25 years of Listing on BSE on 28th November'2014
- Attended by Mr. DK Jain, Chairman, Lumax Industries Limited & Mr. T Kitano, President Stanley, Japan at BSE, Mumbai



#### **CSR** Initiatives





#### Health



Towards its endeavour to give back to society, the group has taken various initiatives towards Education of the underprivileged. Four schools in the NCR region, close to its facilities have been adopted, starting with improving its infrastructure, to facilitating the annual fee so as to ensure a conducive environment for learning and continuity in education.

Also provide support towards maintaining good health of the community around its facilities.

# Education







# For further information, please contact:

Company:

**Lumax Industries Limited** 

CIN: L74899DL1981PLC012804

Ms. Priyanka Sharma

priyanka.sharma@lumaxmail.com

www.lumaxindustries.com www.lumaxworld.in **Investor Relations Advisors:** 

Strategic Growth Advisors Pvt. Limited

CIN: U74140MH2010PTC204285

Mr. Jigar Kavaiya / Mr. Rahul Agarwal

jigar.Kavaiya@sgapl.net / rahul.agarwal@sgapl.net

www.sgapl.net