

**SPECIAL AWARD FOR TPM ACHIEVEMENT (2023)**

**Lumax Auto Technologies Limited**

**Plot no-12, Sector-10, IIE SIDCUL**

**Udhamsingh Nagar**

**Pantnagar – 263153 ( Uttarakhand )**

## 1. Organization profile:

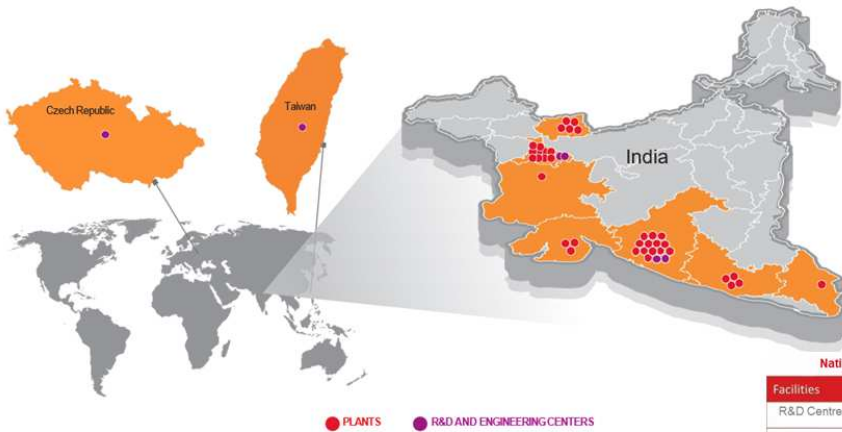
In the 80s and 90s, when the Automotive Industry was taking shape in India, a huge opportunity arose. The opportunity of being a potential leader in the Automotive Lighting and Allied Automotive components industry. Lumax took firm hold of this opportunity and turned it into a reality lived every day by its 12,000-strong workforce, working across 38 modern manufacturing locations across India. This manufacturing strength is backed by 3 Research Centers, 1 Engineering Centre in India and 2 design centres in Taiwan and Czech Republic. The Lumax Group has a turnover of over INR 6,800 Crore FY22-23, and diligently empowers the assembly lines of almost all Top Automotive OEM brands. Lumax is also improving its international footprint with real intent and is accomplishing all this with the timeless values of integrity, humility, passion, excellence, and respect for sheer hard work. The rich legacy notwithstanding the fact that Lumax is still young at heart and ever evolving, and it believes that success has just begun to unravel!

The DK Jain Group has Auto Component manufacturing capabilities across several product categories including end-to-end Automotive Lighting solutions, Air Intake systems, Urea Tanks, Integrated Plastic Modules, Gear Shifters, Transmission Products, Seat Structures, 2-Wheeler Chassis & Swing Arm, 3W Trailing Arm, Electric & Electronic Components, HVAC Panels, On-board Antennas, Power Window Switches, Vehicle Interior Systems & Components etc.



## Plant at Pantnagar Location:

Lumax DK Jain Group is owned by DK Jain Family and consists of two listed companies, i.e. Lumax Industries Limited and Lumax Auto Technologies Limited. Lumax is currently operating with 15 entities spread in six states across India. There are thirty-seven (37) manufacturing plants across India.



National	
Facilities	Location
R&D Centre	Gurugram, Manesar, Pune
Corporate HQ	Gurugram
After Market Division	Gurugram
International	
Design Centre	Taiwan, Czech Republic

State	Plant	#
Haryana	Bawal	2
	Dharuhera	1
	Gurugram	4
	Manesar	4
Maharashtra	Pune	10
	Sambhaji Nagar	2
	Nashik	1
Karnataka	Bengaluru	4
Gujarat	Sanand & Mehsana	3
Tamil Nadu	Sriperumbudur	1
Uttarakhand	Haridwar	1
	Pantnagar	4
<b>Total</b>		<b>37</b>

## Our Partnerships:

### LUMAX INDUSTRIES

**JAPAN** **STANLEY**  
 \* 1984 \* 37.5% Share  
 \* End-to-end Lighting, HVAC Panels & Electronics

**SOUTH KOREA** **SL Corporation**  
 \* 1997 \* 21.28% Share  
 \* End-to-end Lighting and other Automotive parts

### LUMAX AUTO TECHNOLOGIES

**ITALY** **Cornaglia**  
 \* 2007 \* 60% share  
 \* Emission Systems - Urea Tank, Air Filter, CAC Ducts

**JAPAN** **MANNOH**  
 \* 2013 \* 65% share  
 \* Gear Shifters - MT, AT, AMT, DCT, Monostable GLSA, Cables

**SPAIN** **FAE**  
 \* 2017 \* 84% share  
 \* Oxygen Sensors

**ISRAEL** **ituran**  
 \* 2017 \* 50% share  
 \* Telematics Products and Services

**GERMANY** **JOPP**  
 \* 2019 \* 50% share  
 \* Transmission Products - Shift Towers, E-Actuators, Fork Shifter

**JAPAN** **yokowo**  
 \* 2020 \* 60% share  
 \* On-board Antennas - Shark Fin, Micro Antenna, IP Antenna

**JAPAN** **ALPS ALPINE**  
 \* 2021 \* 50% share  
 \* Electric Devices and Components - Power Window Switches

**JAPAN** **JO INDUSTRY CO., LTD.**  
 \* 2022  
 \* Technical Agreement For Kinematic Components  
 \* IP Louvers, Pre Coloured Garnish, Metal to Plastic Conversion

**USA** **IAC**  
 \* 2023 \* 75% share  
 \* Vehicle Interior Systems & Components - Door Panel, Instrument Panel, Cockpit

### LUMAX TOURS & TRAVELS LIMITED

- \* 2008
- \* Travel & Tours

### LUMAX ANCILLARY

- \* 1992
- \* Wiring Harness, Control Cables, Main Wiring, Harness of Ev 2w

Lumax Auto Technologies Limited - Pantnagar plant is part of the Lumax-DK Jain group, and was established in 2007 to cater to one of the prestigious two-wheeler manufacturer, Bajaj Auto Limited. This Plant was previously called Lumax DK Auto Industries Limited and has been recently merged with LumaxAuto Technologies Limited and the name has been changed to Lumax Auto Technologies Limited. The plant is engaged in manufacturing of Light assemblies, Plastic moulded and painted parts like Fairing assembly, Fender assembly, Head Lamp assembly, Tail Lamp assembly & Blinker Lamp assembly.

		OEM				AD OEM & AMD				
CUSTOMER	LOCATION	HEAD LAMP	TAIL LAMP	BLINKER LAMP	FAIRING ASSY.					
2 WHEELER	 Bajaj Pantnagar									
		FENDER ASSY.	SEAT COWL ASSY.	FRONT FENDER	SPEEDO FLAP ASSY.					
	 Hero	COWL ASSY.	FRONT FENDER ASSY.	CARRIER MASK	CHAIN COVER					

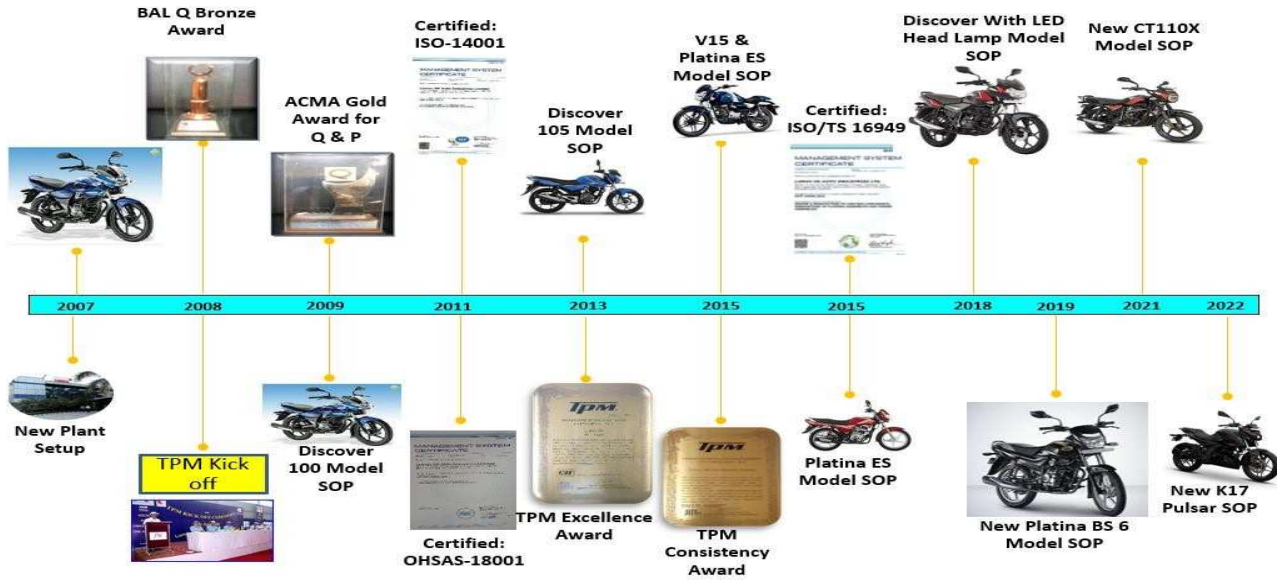
Total area in Lumax Auto Technologies Limited (LATL), Pantnagar Plant have 28400 Sq.Mts. and Built- Up area is 11400 Sq.Mts. Total Manpower Strength is 479 Nos.

## 2. Milestones on journey of manufacturing Excellence

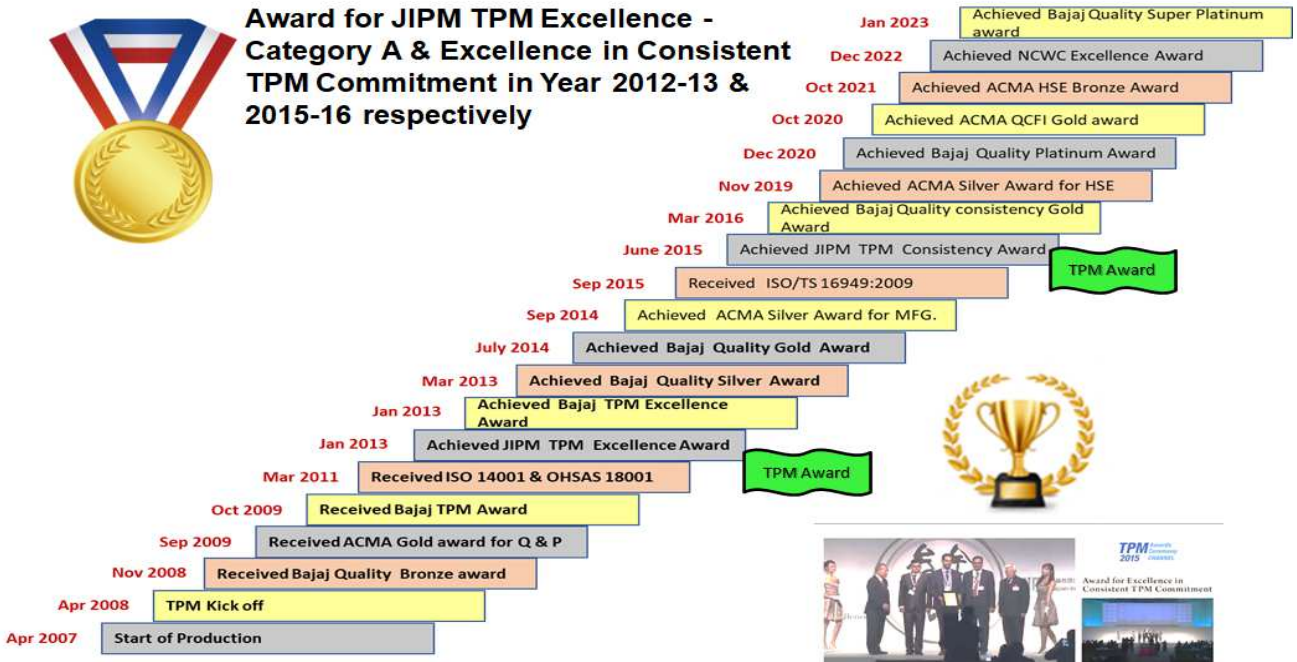
Lumax Auto Technologies Limited Pantnagar is in line with the philosophy of the company and the group has always been conscious of its product quality & services aiming to maximize shareholders value & services to all stake holders. Lumax Auto Technologies Limited Pantnagar launched TPM activities on 9th Apr 2008 with formal Kick-Off ceremony held in guidance of esteemed customer and Top Management. Details of Plant outline & Milestones is given below



**Outline of LATL Pantnagar Plant**

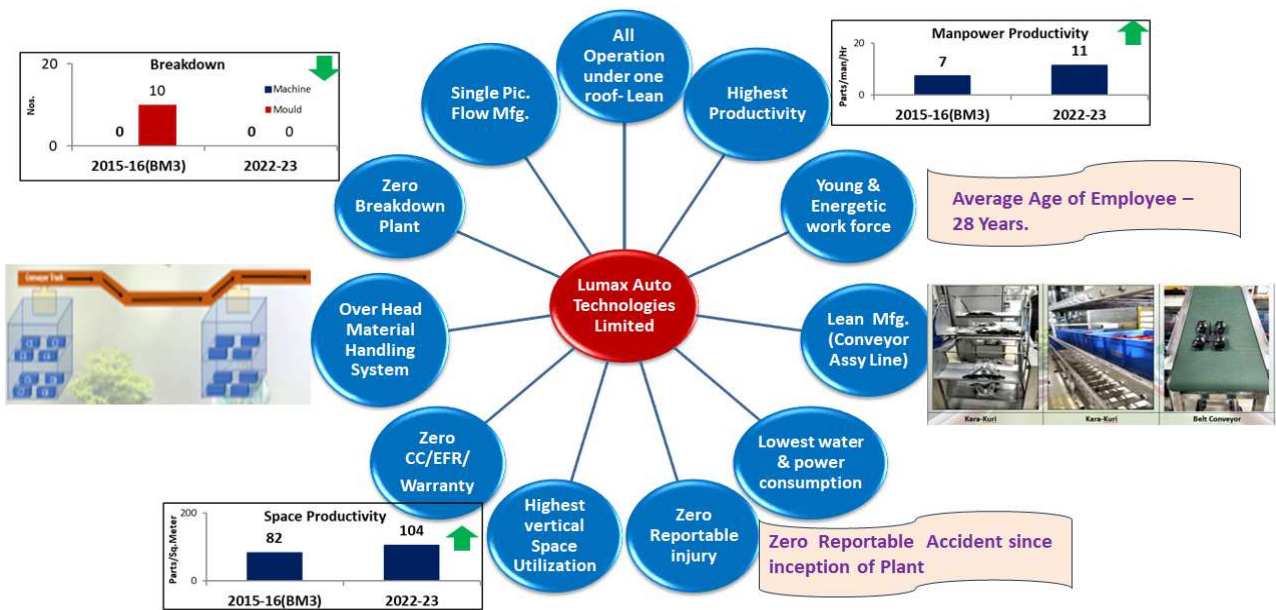


**Award for JIPM TPM Excellence - Category A & Excellence in Consistent TPM Commitment in Year 2012-13 & 2015-16 respectively**



<b>BAL QUALITY AWARDS. (6 Nos.)</b>								
	Q Bronze Award 2008	Q Silver Award-2013	Q Gold Award-2014	Q Gold Consistency Award-2016	Q Platinum Award 2020	Q Super Platinum Award 2023		
	<b>ACMA AWARDS (5 Nos.)</b>							
		ACMA Excellence in Q & P 2008-09	ACMA Excellence in Manufacturing 2013-14	ACMA Excellence in Manufacturing 2017-18	ACMA Excellence in HSE 2018-19	ACMA Excellence in HSE 2021-22		
		<b>TPM AWARDS (4 Nos.)</b>					<b>Passed JIPM TPM SPECIAL Award- 2023</b>	
			BAL TPM Award-2009	JIPM TPM Excellence Award-2012	BAL TPM Excellence Award-2013	JIPM TPM Consistency Award-2015	Passed JIPM TPM SPECIAL Award- 2023	

## Plant Uniqueness:



## 3. Benefits Achieved: -

TPM Implementation at Lumax Auto Technologies Limited Pantnagar Plant helped in achievement of business results. Our financial & other Business Parameter growth which has seen a steady upward trend right since TPM Kick-off. All Improvements shown w.r.t Benchmark 3 (BM3) (2015-16) to YTD(Sep-23)

Category	Index	Unit	(TPM Started or last time awarded)	Actual Status	Target
			Enter the year → FY 2015-16	FY 23-24 (upto Sep)	2023-24
S	Number of work-related accidents requiring days off work	Cases/ year	0	0	0
S	Number of work-related accidents not requiring days off work	Cases/ year	4	0	0
P	Productivity for main products	Parts/Operator hours	7.2	11.9	12.5
P	OEE (or Overall Plant Efficiency)	%	75.00	86.20	88
P	Availability	%	89.30	96.5	98
P	Performance Rate	%	91.20	94	95
P	Quality Products Rate	%	92.10	95	95
P	Number of breakdowns	Breakdowns/ year	0	0	0
P	MTBF	Hour	2182152	1155096	2268552
P	MTTR	Hour	0	0	0
Q	Number of customer complaints	Number/year	0	0	0
Q	In-line defect rate (scrap)	%	0.06	0.05	0.03
Q	In-line defect rate (rework)	%	0.2	0.1	0.08
C	Cost index (conversion cost)	As percentage to sale	19.88	13.26	13
D	Production Lead time	Days	3.5	1.6	1
D	Delivery performance	%	100	100	100
S	Frequency rate	Number of occupational accidents with leave	0	0	0
M	Number of Employee Suggestions	Number/year	386	1495	1500



## Intangible Benefits:

Apart from Tangible Benefits we realized Intangible benefits also through TPM ways. Key Tangible benefits are given below.

- Created Zero Mind set Culture
- Creation of Continual Improvement Environment
- Employees Morale, Skill & Will Improvement
- Safety Culture Creation
- Team Work Improvements
- Moving Towards Zero Loss Plant, Riskless Factory & Digital Plant
- Initiated Supervision Less Shop-floor.

These Benefits achieved through TPM Methodologies & by 100% Employees Involvements. Few Glimpses of Employee Involvement is given below:



Employee Involvement is achieved through TPM Circle, 5S, QCC, CCC(Cost Cutting Champions) & Kaizen Competition initiatives. Promotion and reward mechanism is in place for all improvement initiatives



## 4. Key of Our Manufacturing Excellence

Our Manufacturing Excellence Practices is based upon the TPM Methodologies and we are continually following its for achieving breakthrough business results.

We are Committed to Execute Excellence at LATL Pantnagar Plant through TPM ways. We will extend TPM in End-to-End Supply Chain.

Our future Plan for Manufacturing Excellence is as Follows:

- Integrating Industries 4.0 with IOT
- Synchronization of three processes Moulding, Surface treatment and Assembly
- To become Sustainable Manufacturing Plant
- To Create Supervision less Shop-floor – 100% SMT Concept Deployments
- To achieve Benchmark Level of End-to-End Lead Time
- Future Ready Capability Development – Data Analytics & Digitization
- Mutual Benefits realization with Supplier/Business Partners through TPM Cluster
- To Sustain Zero Breakdown – Focus on Preventive measures.

To Achieve Zero Defect