



1. Company, Plant/Factory Profile:-

LUMAX has grown from success to success since its foundation in the year 1945. The company went Public in the Year 1984, and thus in the same year embarked on its highly successful technical collaboration with STANLEY, Japan. and the partnership is live from then up to date .

Lumax has a futuristic vision with an experienced and customer focused management team. This is clear from our financial growth which has seen a steady upward trend right since our inception.

Lumax strives for continual improvement of manufacturing processes with emphasis on consistent quality and cost effectiveness. Lumax signifies LUMINOSITY MAXIMA for today's demanding automobile users.

We at Lumax in the new millennium are committed to retain excellence in quality of our products and services, with focus on customer satisfaction and market leadership. We vow to remain a responsible corporate citizen, contributing to the lives of our people and the preservations of our Planet's eco-balance.

Lumax has strived to bring latest technologies to the Indian roads with the objective of enhancing vehicle performance, improving body styling and aerodynamics, reducing weight of vehicle parts and driver fatigue. Lumax has constantly endeavored to keep abreast of the latest trends in technology and production techniques. Its manufacturing facilities are equipped with modern machines such as Electric machine, 2K molding machines, metallising facility along with vibration, hot plate & ultrasonic welding, hot melt sealing etc.

TPM is a backbone and main principle for surviving in current market conditions. From top management to bottom level TPM methodology is followed in each plant. As a result, a total of 14 JIPM Awards were achieved in 8 Plants including 1 special award and 6 Awards is in Process. Next calendar year we are going to apply for 5 more awards

Lumax Group consists of two listed companies-Lumax Industries Limited and Lumax Auto Technology Limited.

2. Lumax Industries Limited Profile:

Lumax Industries Limited is a public limited company. It has **12 manufacturing plants** spread across India, strategically located near Customers. Out of these, three are located near New Delhi, in the cities of Gurugram, Dharuhera, and Bawal in the state of Haryana. three plants in Pune, near Mumbai in Maharashtra, two plants in Uttarakhand - Pantnagar, Haridwar, One is located in Bidadi, near Bengaluru in the state of Karnataka, and one plant was recently commissioned after expansion at Sanand. These facilities have been laid out to match the world's best plant engineering standards. Our plants are producing automotive lighting for almost all OEMs.

Lumax Industries Ltd. Bawal Plant is part of Lumax Industries Limited and has challenged the JIPM Consistent TPM Commitment Award in 2025.

Lumax Industries Ltd.-Bawal Plant: - (Plant Challenging Consistent TPM Commitment Award 2025)

Lumax Industries Limited-Bawal Plant started in year 2012. This plant was established for the manufacture of the latest technology lamps for premium vehicles, high-volume products with a new culture, latest process design and layout with a capacity of 0.75 million vehicles set for lamps/Annum which is increased now 1.2 million vehicles set for lamps/Annum in FY 25-26 & currently utilising 80% of installed capacity. The total area of the LIL-Bawal Plant is almost 42900 sqm. The covered area is 30300 sqm, and the remaining green area is 12870 sqm. Total employee strength is 858 nos.

Lumax Bawal Plant is ISO-14001:2015, IATF 16949:2016, ISO 45001:2018, ISO 50001:2018 certified

2.1 Lumax Product Range:

The D K Jain group has Auto Component manufacturing capabilities across several product categories including End-to-End Automotive Lighting solutions, Air Intake systems, Integrated Plastic Modules, Gear Shifters, Seat Structures & Mechanisms, 2Wh Chassis, LED Lighting, Aerospace & Defense Engineering Services, Electric & Electronic Components etc. Lumax is world leader in Auto Lighting with 60% market share.

It has joint venture collaborations with several leading global Auto players – Stanley for Lighting, Cornaglia for Air Intake Systems, Mannoh for Gear Shifters, Gill-Austem for Seat Structures & Mechanisms, SIPAL (Tech-Pubs for Defence & Aerospace), Alpine, Ituran (Telematics Products & Services) & FAE for Oxygen Sensors.

2.2 Customer at Lumax Industries Ltd, Bawal Plant:

Lumax Industries Ltd mainly supports to customers in the passenger Car Segment – Maruti Suzuki & Honda car India Ltd.



Lumax Bawal Plant manufactures Head Lamps, Tail Lamps, Fog Lamps with latest process Triple LED function technology.



2.3 -Milestones of LIL Bawal Plant:

We started TPM practices in this plant from starting and the commissioning phase itself and we kick off Dec'2013 and achieve TPM Excellence award in Jan'2018 implemented a theme “TPM -Thoda Prayas Mera from day 1” for this plant, as in other plants TPM is established well. as a result of this from day 1 we got an excellent result in terms of PCQDSM and within 5 Yr of time frame the capacity of this plant is full with higher sale volumes & our Lumax Bawal is focusing for win win-win situation for customer and Lumax both considering new business addition, Lumax uniqueness along keeping profitability in mind through TPM best practices, as a result of activities our sale is increasing and we will achieve double sale within next 3 years FY 28-29.

3 -Benefits Achieved:

TPM Implementation at Lumax Bawal Plant helped in the achievement of business results (tangible) and intangible benefits. Through engagement activities, employees were highly motivated, and there was a drastic reduction in attrition rate. Below are some tangible benefits on Key Business Results in terms of PCQDSM.

TPM Award Assessment Achievement Sheet

Company & plant name	Lumax Industries Limited -Bawal					
TPM Slogan/Objectives	Thoda Prayas Mera					
▼ Please fill in the range of data you are collecting ▼						
Category	Index	Unit	BM (TPM Started or last time awarded)	Actual Status	Target	
Enter the year →					2024-25	
S	Number of work-related accidents requiring days off work	Cases/ year	0	0	0	100% Sustained
S	Number of work-related accidents not requiring days off work	Cases/ year	5	2.75	0	45% Improved
P	Productivity for main products	Parts/Operator hours	7.2	10.5	11.75	45% Improved
P	OEE (or Overall Plant Efficiency)	%	85	86.2	85	Sustained
P	Availability	%	96.6	97.2	97	Sustained
P	Performance Rate	%	93.4	95.9	93	Sustained
P	Quality Products Rate	%	94.5	92.5	95	Sustained
P	Number of breakdowns	Breakdowns/ year	72	52	35	32% Improved
P	MTBF	Days	266	536.6	255	100 % Improved
P	MTTR	Hour	66.8	59	57	12% Improved
Q	Number of customer complaints	Number/year	3	11	0	Under Progress
Q	In-line defect rate (scrap)	% sale	2.0	2.8	3.0	Under Progress
Q	In-line defect rate (rework)	%	Not Applicable			
C	Cost index	Cost/Unit Cost/Kilogram	9.4	9.6	10	Sustained
D	Production Lead time	Days	3	3.18	3.18	Sustained
D	Delivery performance	%	100	100	100	Sustained
S	Frequency rate	Number of occupational accidents with leave for 1 000 000 worked hours	0	0	0	Sustained
M	Number of Employee Suggestions	Number/year	1070	3518	1200	200% Improved

4-Key of Our Manufacturing Excellence

The key to manufacturing Excellence lies in continual improvement activities and periodic review with Top Management of the results to meet the strategic performance & business results. With the learnings of improvements made in existing equipment and plants, we will install new equipment/ facilities by incorporating all improvements.

- 4.1** Lowest manufacturing cost
- 4.2** Multiskilling of all processes
- 4.3** 100% Poka Yoke for functional defect
- 4.4** 100% FIFO in all storage systems
- 4.5** LDR gate wise development activities for reducing cost and lead time
- 4.6** Development of suppliers with TPM learning to provide cost benefits
- 4.7** Proficiency in new technology products **CSR activities:**

- a) Adoption of a School for Swatch Bharat Abhiyan and provide basic amenities and improve the infrastructure of the school.
- b) Support nation building mission of “Sarva shiksha abhiyan” in which Encouragement provided to key communities for education.
- c) Lumax Ki Nanhi Chhan (For Girl Child of Employee)
- d) Adoption of school for juvenile diabetes care center and provide basic health check up .