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## **Company Profile**

**Award for TPM Excellence, Category A**  
ALP Nishikawa Co. Pvt. Ltd.  
Gurgaon-122015 (Haryana)

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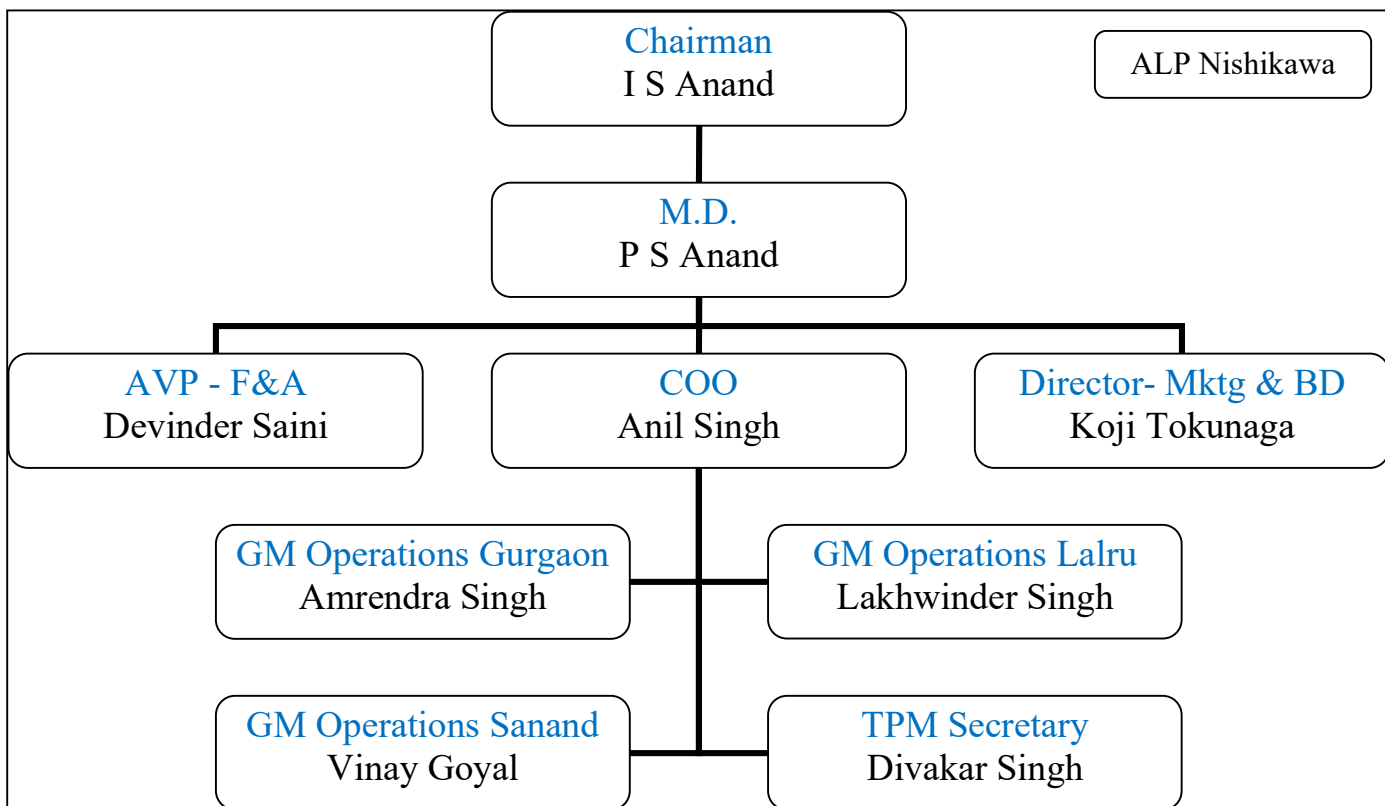


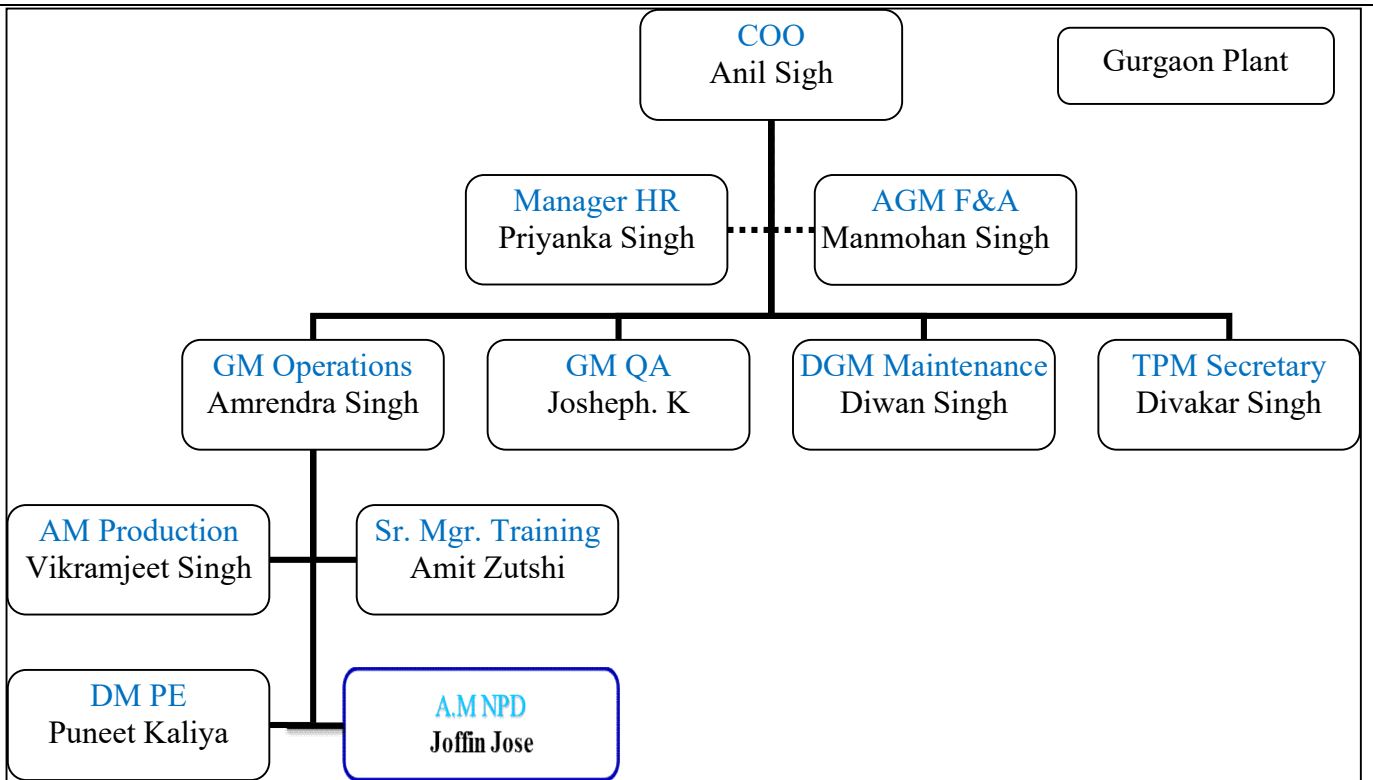
**Manufacturing Process Technology:**

S. N	Manufacturing Process
1	Extrusion
2	Curing Oven
3	Coiling
4	Drilling & resizing
5	Clipping
6	Moulding
7	Coating
8	Packaging & Dispatch

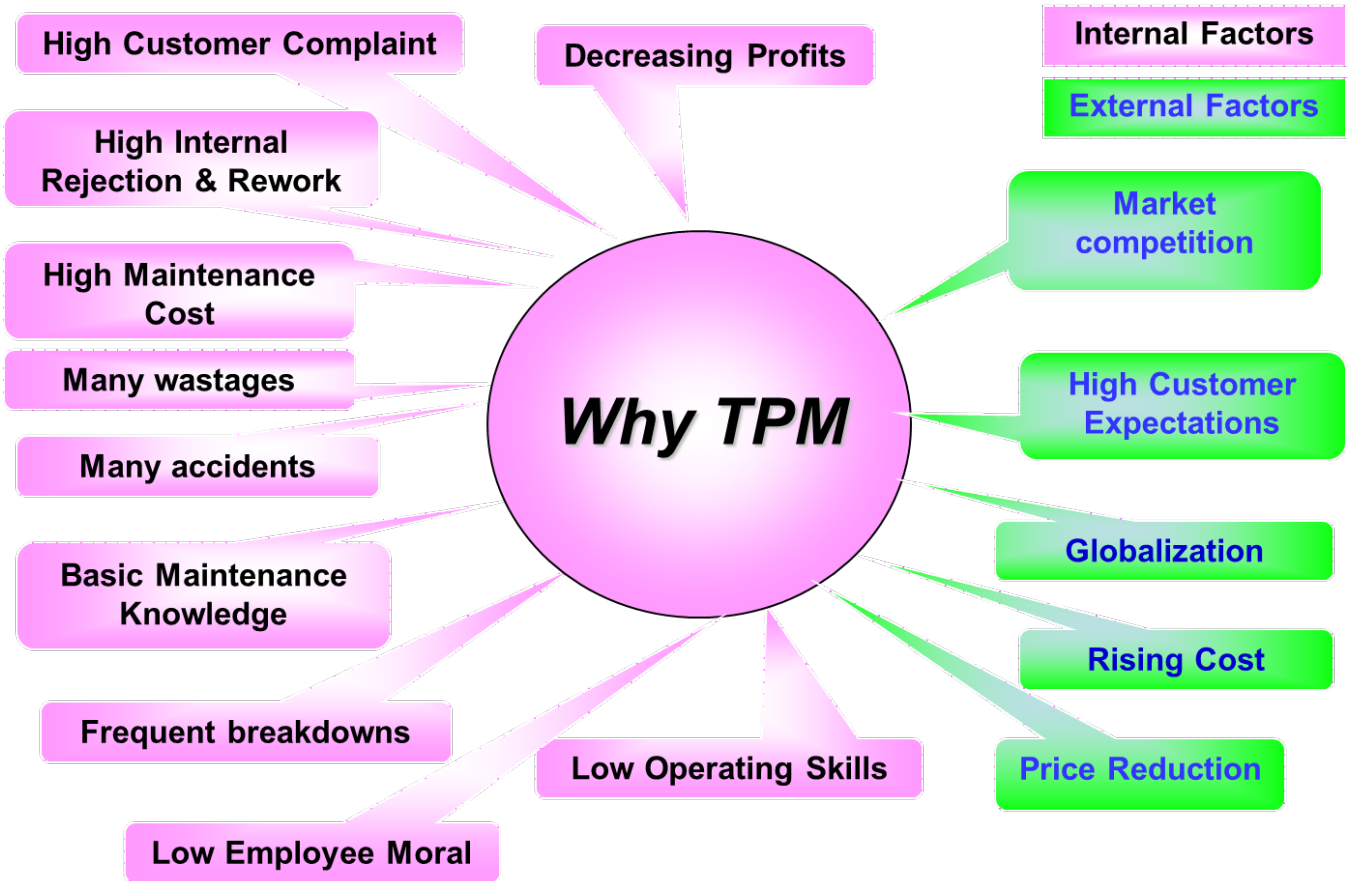


**ALP Organization Chart:**



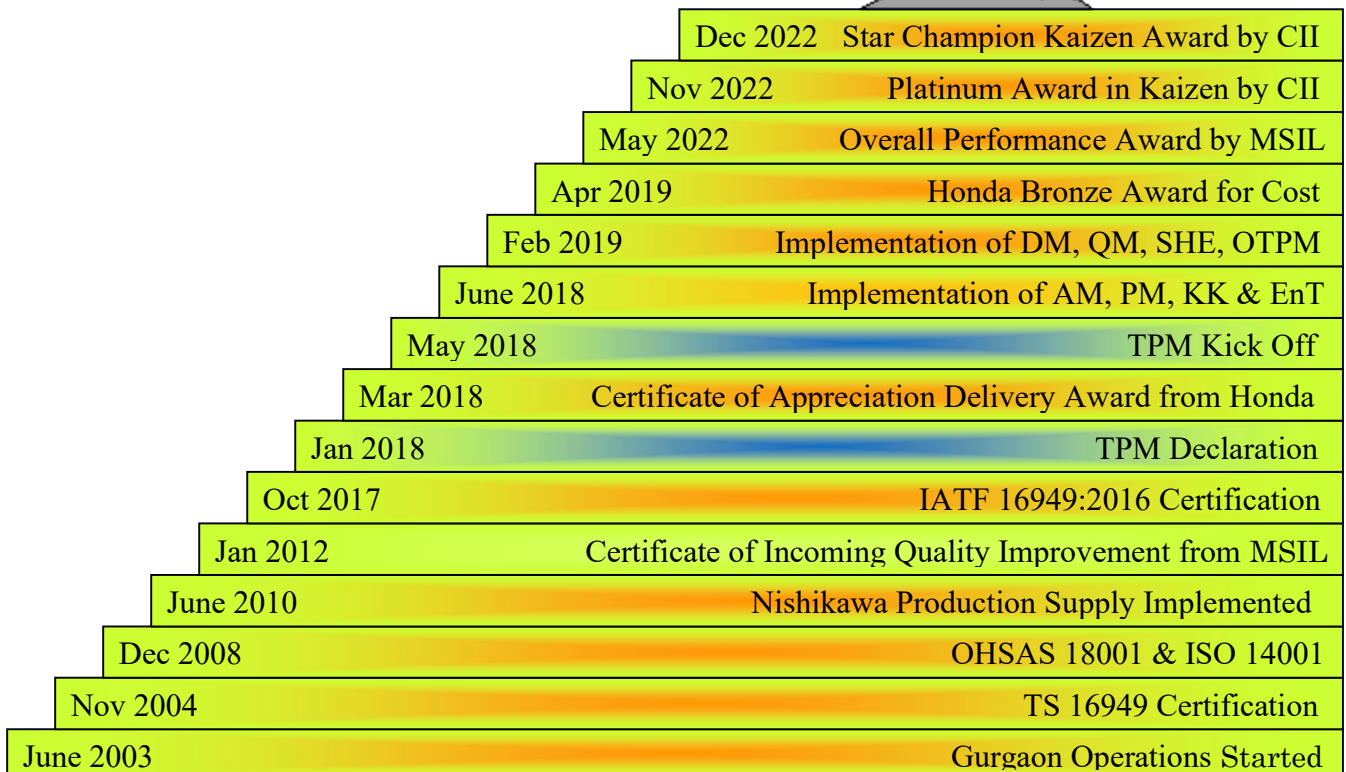


## 2) Milestone on the journey to manufacturing Excellence.



We were always looking to optimize Overall Equipment Effectiveness (OEE). However, this crucial business goal involves a difficult balancing act between maximizing equipment performance and the risk of incurring machine failure and lost time. Leveraging the benefits of digital, data-driven solutions, TPM empowers us to effectively maintain our production lines through heightened visibility and workforce transformation.

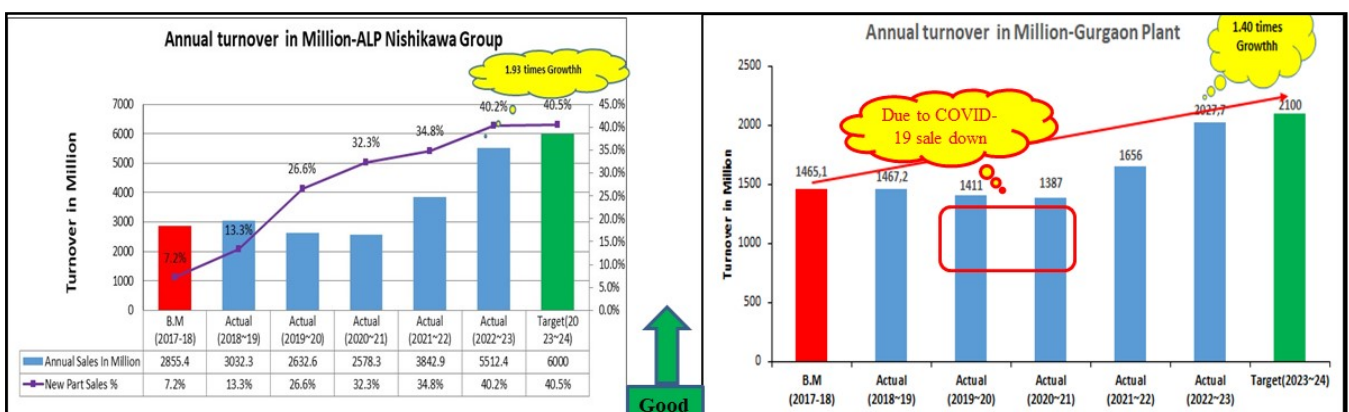
**i) Milestone**



**3) Benefits achieved.**

**i) Tangible Business Result & PQCDSM Result**

TPM Implementation at ALP Group companies not only helped to improve the business result but also brought drastic changes in organization improvement culture. Increase in Suggestions /Kaizens & Project implementations is one of the samples evident for highly engagement motivated Employees. And also team bonding increased with the help of Cross Functional Pillar Involvement. Below are the few tangible benefits in key business results in terms of PQCDSM.



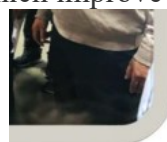
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#### 4) Achievement Sheet (Index Table).

Category	Index (Calculation Formula)	Unit	Kick off/TPM Started (or last time awarded)	Actual Status (FY2022~23)
S	Number of work-related accidents requiring days off work	Cases/ year	0	0
S	Number of work-related accidents not requiring days off work	Cases/ year	3	0
P	Productivity for main products	Parts/Operator hours	16	31.6
P	OEE (or Overall Plant Efficiency)	%	60.57	87.5
P	Availability	%	72	96
P	Performance Rate	%	88	92
P	Quality Products Rate	%	95.6	99
P	Number of breakdowns	Breakdowns/ year	410	28
P	MTBF	Hour	1.29	8.1
P	MTTR	Hour	1.35	0.47
Q	Number of customer complaints	Number/year	53	0
Q	In-line defect rate (scrap)	%	0.9	0.10
Q	In-line defect rate (rework)	%	3.51	0.55
C	Cost index (INR)	Cost/Unit	62.4	51
D	Production Lead time	Days	4.7	3.5
D	Delivery performance	%	100	100
S	Safety index	Accidents per 1,000,000 operator hours	2	0
M	Number of Employee Suggestions	Number/year	2.4	12

#### ii) Intangible Result

After Implementing Total Productive Maintenance, Skill of our employee improved in every area, Employee started using the Problem-Solving tools, Why-Why Analysis, Brainstorming, Cause & Effect diagram, Pareto, Cp/Cpk & TPM Circle activity, which improve their analytical skill & motivated them.



With the help of Total Productive Maintenance, we were able to involve our employee in improving the business result, which result 5 times improvement in Kaizen & Suggestion activity, 100% involvement in JH Circle activity & Created ownership of Machine as well as every area of plant.

Some of the Initiative in last 4 years as:

Total 14 Six Sigma Yellow Belt Project Done.

Total 11 Six Sigma Green Belt Project Done.

Total 1 Six Sigma Black Belt Project Done.

Total 49 Quality Circle Project Done.

Apart from this every Pillars have done multiple loss reduction project & 29 Major Cost saving projects.

## 5) Key to our Manufacturing Excellence

Data is the key to making informed decisions and is the foundation of Operational Excellence. And TPM teach us the methodology how to record and play with the data & Continual review by top management is also one best key to achieve Manufacturing excellence & Employees are the most important asset of any organization, but they can also be a liability if they don't understand how to work effectively with others. And our Employee have learned this best technique from TPM Methodology.

TPM Declaration Date: Jan-2018

TPM Kick Off Date: May-2018



## i) Our Experience

Implementing TPM in our plant was a roller coaster ride as initially it was difficult for everyone to understand the concept of it. But when we started Manager Model Machine activity & spreaded the knowledge of TPM to everyone than it become the way of life.

Our people too enjoyed the TPM learning & implemented wholehearted which resulted in overall improvement. Our team have learnt about improvement methodology & implemented multiple projects as



Quality Circles, Six Sigma Yellow Belt, and Six Sigma Green Belt & Six Sigma Black Belt. We have also implemented Lean Projects & VSM Projects.

**ii) Future Plan**

After gaining multiple results with TPM, we are very confident to go to the next Level of TPM Awards. The Same experience we are implementing in our other plants too. & in coming years, we will be able to apply for JIPM awards for our other plants.

TPM Excellence Category A Award for Gurgaon Plant:	Dec' 2023
Consistency Award for Gurgaon Plant:	Dec' 2026
Special Award for Gurgaon Plant:	Dec' 2029
Advance Award for Gurgaon Plant:	Dec'2032
World Class Award for Gurgaon Plant:	Dec'2035

