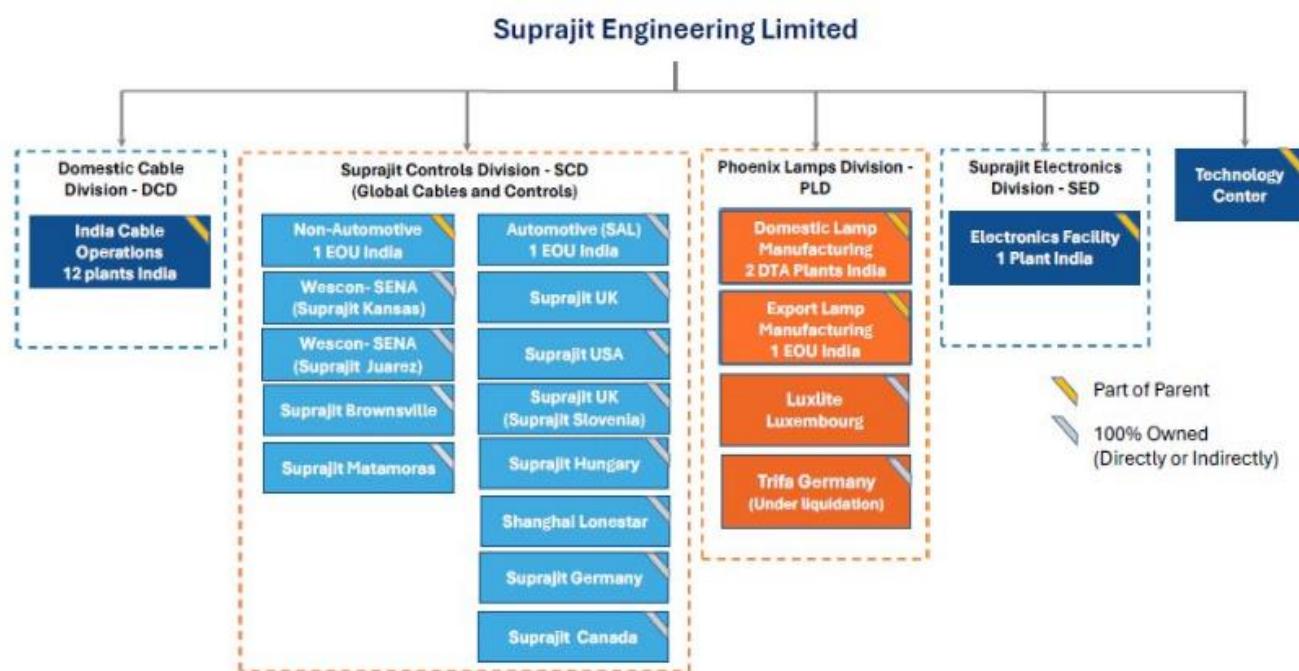


## 1. Company, Plant/Factory Profile

Born of entrepreneurial spirit in 1985, Suprajit today is a pioneer in design and manufacture of mechanical control cables and is recognized as India's largest cable maker and world's largest in two-wheeler cable market. As a part of its strategic expansion, Suprajit acquired Phoenix Lamps Limited, Wescon Controls USA, Cable Division (LDC) of Kongsberg Automotive & Stahlschmidt Cable System, Germany (SCS).



- ❖ Suprajit group has total 31 plants across world i.e. India, UK, USA, Germany, Canada, Europe, Mexico
- Domestic Cable Division – 12 plants
- Suprajit Control Division – 13 plants
- Phoenix Lamps Division – 5 plants
- Suprajit Electronic Division – 1 plant



- ❖ Suprajit group had initial turnover of 0.15 Crore (INR) in 1985 and reached the milestone of 2895 Crore (INR) in 2023-24.
- ❖ **Suprajit Engineering Limited Unit-7**, IIE Siidcul Pantnagar, Uttarakhand is engaged in manufacturing of 2W, 3W & 4W control, speedometer cables & ORVM since 2007. The Plant is headed by Mr. Manoj Saxena.
- ❖ Plant consists of outer formation, inner formation, cable & ORVM assembly sections.

### **Outer Formation Section: -**

Total eight types of machines having processes like wire flattening, winding, outer coating, cutting, de-burring & printing.

### **Inner Formation Section: -**

Total nine types of machines having processes like inner cutting, forming, die casting, trimming, grinding, melting, swaging & soldering.

### **Cable Assembly Section: -**

Total eleven lines in which we are manufacturing front brake, rear brake, speedo meter, seat lock, throttle, window regulator, clutch, gear, shift control, parking brake cables.

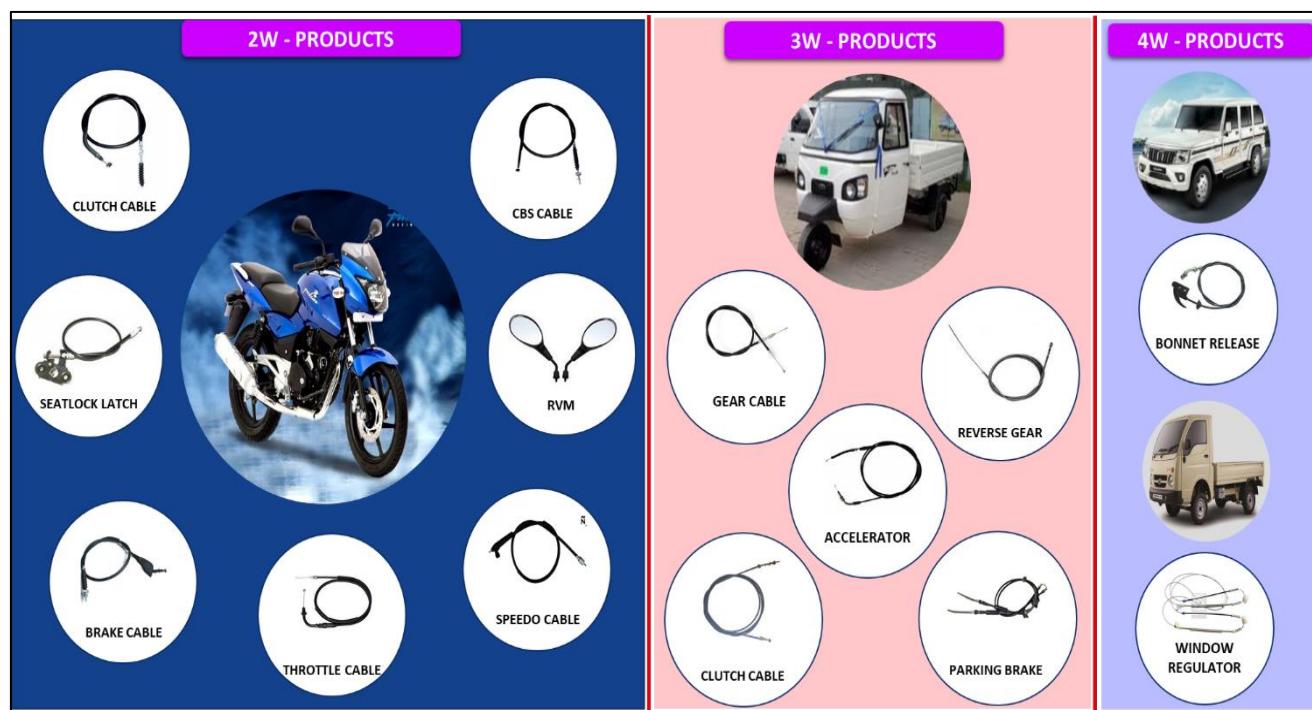
### **ORVM Assembly Section: -**

One line in which we are manufacturing outside rear view mirror LH & RH.

### **Staffing Structure: -**

Total manpower is 42 staff & 120 workmen. Plant operates in one shift & six days in a week.

### **Product Range: -**



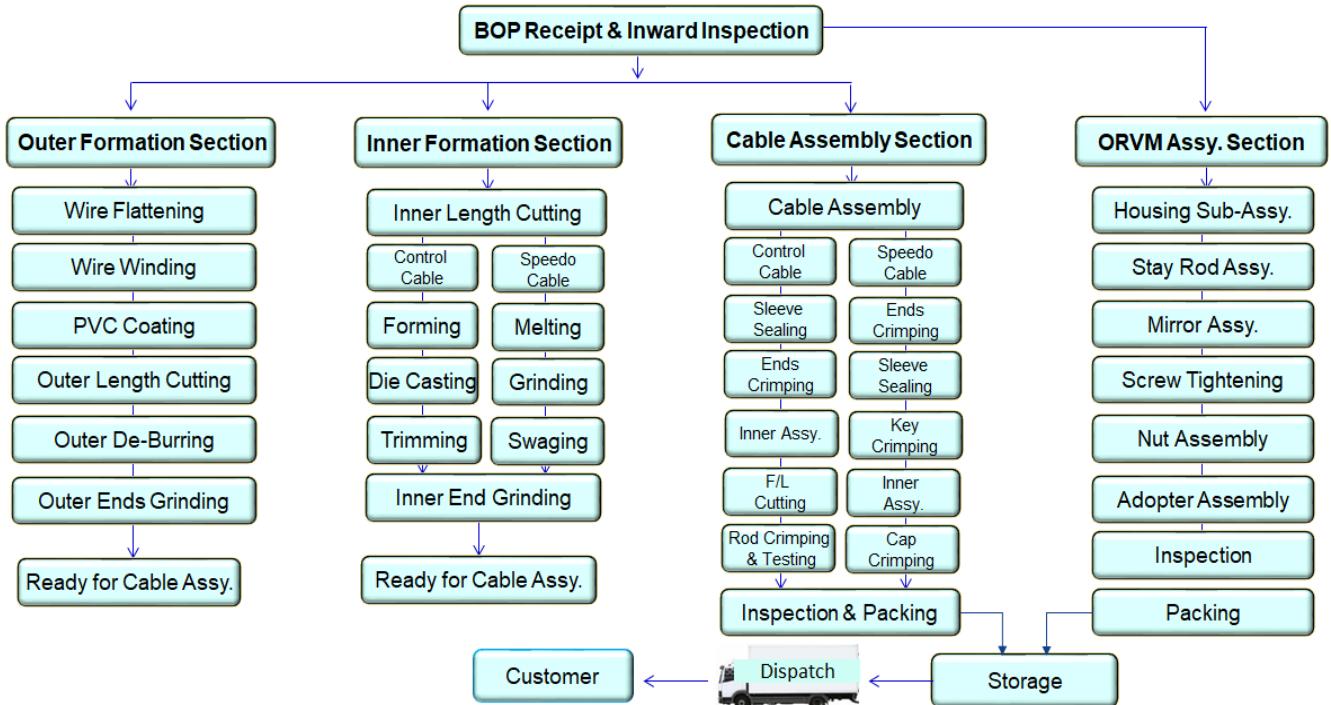
### **Customers: -**

Suprajit Engineering Ltd, Pantnagar has been continuously improving the process and quality of products. Our prestigious customer are Bajaj Auto Ltd, Mahindra & Mahindra, Ashok Leyland & Greaves Electric. Our 82% revenue comes from Bajaj Auto Ltd & rest 18% from other customers.



## Process:

Suprajit Engineering Ltd. has all necessary processes for cable & ORVM manufacturing.



## 2. Milestones on the Journey of Manufacturing Excellence

We are proud to share that our team not only developed quality product within customer cost targets but also successfully ramping up to cater the increasing customer requirement in all product categories. The challenge in this changing market is to sustain the competitive edge technically and commercially to survive. TPM is a quite clear tool which systematically takes us to optimise our investments, expenses & gains.

We started this TPM journey in year 2021 & practicing from starting with Bajaj Auto Ltd. We have been able to take lot of positives from TPM journey which helped us build a healthy work culture. Few of the influences are-



**Mr. Manoj Saxena  
(Plant Head)**

### BAL TPM journey started in 2007

- ✓ We achieved BAL TPM Award in 2010.
- ✓ We achieved BAL Quality Bronze Award FY 2009-10.
- ✓ We achieved Best Performance Award in Suprajit Group FY 2011-12.
- ✓ We achieved BAL Quality Silver & Gold Award FY 2011-12.
- ✓ We achieved BAL Quality Gold Consistency Award FY 2014-15.
- ✓ We achieved “2” Awards in BAVA Kaizen Competition FY 2014-15.
- ✓ We achieved BAL TPM Excellence Award FY 2016-17
- ✓ We achieved “2” Awards in BAVA Kaizen Competition FY 2016-17.
- ✓ We achieved BAL Quality Gold Consistency Award FY 2017-18.
- ✓ We achieved Excellent Rating by M&M FY 2017-18.
- ✓ We achieved “1” Award in BAVA Kaizen Competition FY 2017-18.
- ✓ We achieved 1<sup>st</sup> prize for productivity in Suprajit Group FY 2017-18.
- ✓ We achieved 2<sup>nd</sup> prize for Best Performance Unit in Suprajit Group FY 2019-20.
- ✓ We achieved Zero PPM Award from Ashok Leyland FY 2019-20.

## **TPM Excellence journey started in 2021**

- ✓ We achieved 2<sup>nd</sup> prize for Best Performance Unit in Suprajit Group FY 2021-22.
- ✓ We achieved Excellent + Purple Rating by M&M FY 2021-22.
- ✓ We achieved “2” Awards in BAVA Kaizen Competition FY 2022-23.
- ✓ We achieved BAL Quality Platinum Award FY 2023-24.
- ✓ We achieved Silver & Gold award in QCFI FY 2023-24.
- ✓ We achieved “2” Awards in BAVA Kaizen Competition FY 2023-24.
- ✓ We achieved Excellent + Purple Rating by M&M FY 2024-25.
- ✓ We achieved Zero PPM in Ashok Leyland FY 2024-25.
- ✓ We achieved 2<sup>nd</sup> prize for Best Performance Unit in Suprajit Group FY 2024-25.
- ✓ We achieved “12” Awards in Internal Group Kaizen Competition from 2021 to 2024.

We are proud of our team for their involvement and efforts because of which we are at a position to challenge the JIPM TPM Excellence Award. I am confident that we will be successful in this & all future endeavours.

### **3. Benefits Achieved**

#### **Work Culture:**

- ❖ Sense of ownership of equipment / process i.e. ‘I Operate, I maintain, I control’
- ❖ People started focusing on theme-based kaizen implementation & participated more in external as well as internal competitions.
- ❖ People started believing the possibility of Zero Customer Complaints, Zero Wastage, Zero Breakdowns and Zero Accident.
- ❖ People have started thinking widely & deeply in their areas / sections to improve from existing condition to next level.
- ❖ People now work as per the flexibility of requirement and open for any changes.
- ❖ Sustenance of improvements done by the operators.

#### **System Orientation:**

- ❖ IATF 16949:2016, ISO 45001:2018 & ISO 14001:2015.
- ❖ Management objectives are well linked to plant objectives, Department objectives and then to cell objectives so as to focus on cell working in more meaningful and systematic way.
- ❖ Well defined system for Quality monitoring and Production monitoring.

#### **Analytical Approach:**

- ❖ Continuous Improvement / Focus on prevention of losses by eliminating the abnormalities, root cause analysis and kaizen implementation.
- ❖ TPM Digitization.

#### **Flexibility:**

- ❖ Flexible manufacturing by multi-skilled operators.
- ❖ Single line multi model concept.
- ❖ Production output as per customer demand.

#### 4. Key of our Manufacturing Excellence

- ❖ Challenging TPM Excellence Award – JIPM first level assessment FY 2025-26.
- ❖ Challenging TPM Excellence Award – JIPM final assessment FY 2025-26.
- ❖ BAL Super Platinum Award FY 2025-26.
- ❖ Deep & Wide implementation of process automations.
- ❖ IOTs implementation in manufacturing process.
- ❖ Inculcate excellence culture, Upstream of our value chain, by extending TPM to our Vendor base & Challenge.
- ❖ Support to other units in their TPM journey.
- ❖ Using our knowledge and skills gained from TPM journey to make our machines safer.
- ❖ Sustenance & continual improvement of TPM activities.
- ❖ Single segment to multiple segments.
- ❖ Multiple products to offer product basket to customers.

#### 5. Achievement Record

Company & plant name :-	Suprajit Engineering Limited, Unit-7, Plot No 14, Sector 10, SIDCUL - IIE, Pantnagar, Uttarakhand, India				
TPM Slogan/Objectives :-	TPM – Building Culture Towards Excellence				
▼ Please fill in the range of data you are collecting ▼					
Category	Index	Unit	BM (TPM-Started)	Actual Status	Target
Enter the year →			2021-22	2024-25 (Till Nov'24)	2024-25
S	Number of work-related accidents requiring days off work (Major Accidents)	Cases/ year	0	0	0
S	Number of work-related accidents not requiring days off work (Minor Accidents)	Cases/ year	14	1	0
P	Productivity (Assembly)	Parts/Operator Shift	244.20	350.45	365.00
P	OLE (Plant)	%	75.24	85.51	86.00
P	Availability	%	90.45	96.14	96.00
P	Performance Rate	%	84.08	89.38	90.00
P	Quality Products Rate	%	98.94	99.52	99.60
P	Number of breakdowns	Breakdowns/ year	1152	135	0
P	MTBF	Hour	76	418	500
P	MTTR	Hour	1.08	0.67	0.55
Q	Number of customer complaints	Number/year	3	1	0
Q	In-line defect rate (scrap)	%	0.31	0.13	0.11
Q	In-line defect rate (rework)	%	0.76	0.36	0.30
C	Cost index (Conversion Cost)	Index (%)	100	103.75	97.5
D	Production Lead time	Days	2.13	1.24	1
D	Delivery performance	%	100	100	100
S	Frequency rate	Number of occupational accidents with leave for 1 000 000 worked hours	0	0	0
M	Number of Employee Suggestions	Number/year	893	1738	2500