

1. Organization Profile:

Napino has grown from success to success since its foundation in the year 1997. A proud contributor to the progress of the Indian Auto Industry, the success of Napino lies in the ability of the organization to seamlessly adapt to the requirement of its clients through aggressive developments in technology and design. With success comes greater challenges and as a joint venture company with Shindengen Electric Manufacturing of Japan since 1998, who are the world leaders in the field of Power and Auto Electronic Products expectations. Commenced operations at Haridwar plant in 2008.

1.1 Company, Plant/Factory Profile:

Group Information:

Under the umbrella of “Napino Group” has Nine Manufacturing Plants & 2 R&D centers. Four plants are situated in Haryana State, 01 plant each in Uttarakhand (Haridwar), Gujrat, Maharashtra, Rajasthan, Karnataka state. 01 R&D center each at Haryana & Maharashtra State. All Plants are linked with each other & centralize information circulated through emails. We also have SAP System.

Presently the company having its manufacturing plants in India. In India Napino is supplying to all major OEMs as tier 1. The company is also supplying its products to other countries in North America & Europe as a tier 2 supplier.

Global Presence:



Supplying to - Countries



Manufacturing location



Napino Plant locations in India



9 Manufacturing Plant



Manesar – Sector 3 | EV Sector 8 | IOT Sector 8 | Sector 7 | Haridwar | Bhiwadi | Halol | Pune | Bengaluru



Corporate & Manufacturing plant

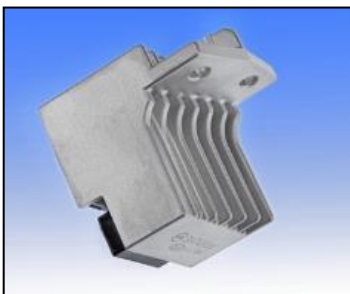
Manesar – Sector 3



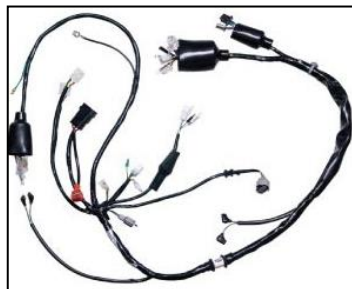
R&D and Design Center

Manesar – Sector 8 | Pune

1.2 Product Range Napino Haridwar Plant:



Regulator Rectifier



2W Main Wiring Harness



Handle Bar Switch



Start Stop Switch

1.3 Process Technology:

State of the art SMT Lines:



❖ Key Features of Lines:

- Component mounting
 - Min : 0402mm/ 01005 inch
 - Max : 120*90*T 30mm
 - Accuracy : 30 Micron
- Component Verification and Traceability
- In line Solder Paste Inspection
- 3D Automatic Optical Inspection
- Continuous profile monitoring of reflow oven
- Selective Soldering machine
- PCB Cleaning
- ESD (Electrostatic) Control work station

Automatic Wire Processing Section:



- ❖ Sophisticated and Most Advanced Automatic Wire Processing Machines.

Special Processing on Semi-Automatic Machines:



- ❖ For Special Crimping / Joint Taping / High Frequency PVC Welding etc.

Final Main Wiring Harness Assembly:



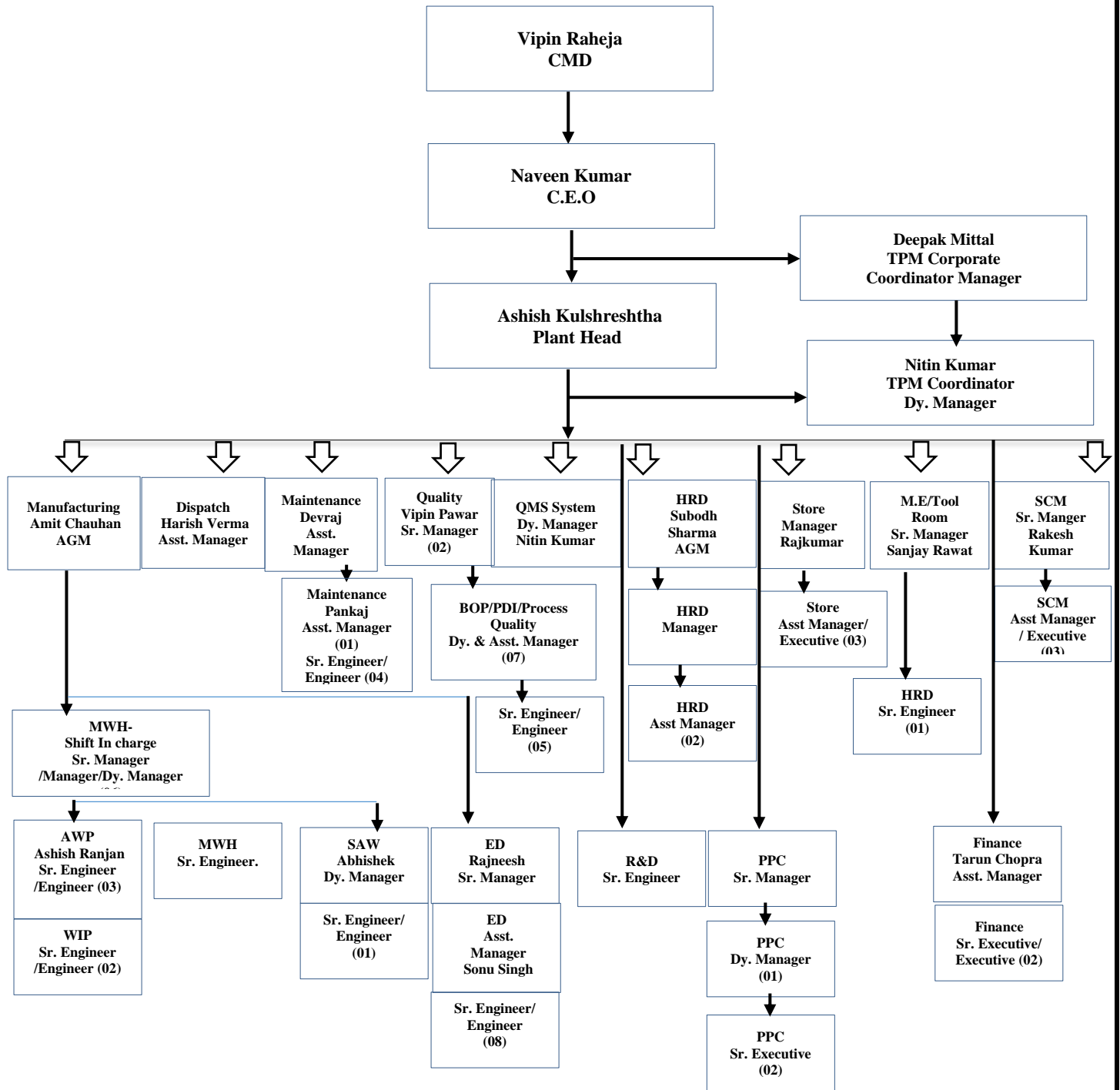
- ❖ Taping process on Conveyor for Making Final Main Wire Harness.

Assembly Lines for Handle Bar Switches



- ❖ Single Piece Flow for Most of the Production Stages Ensures Consistent Quality & Reliability of the Products

1.4 Management Organization & staffing structure:



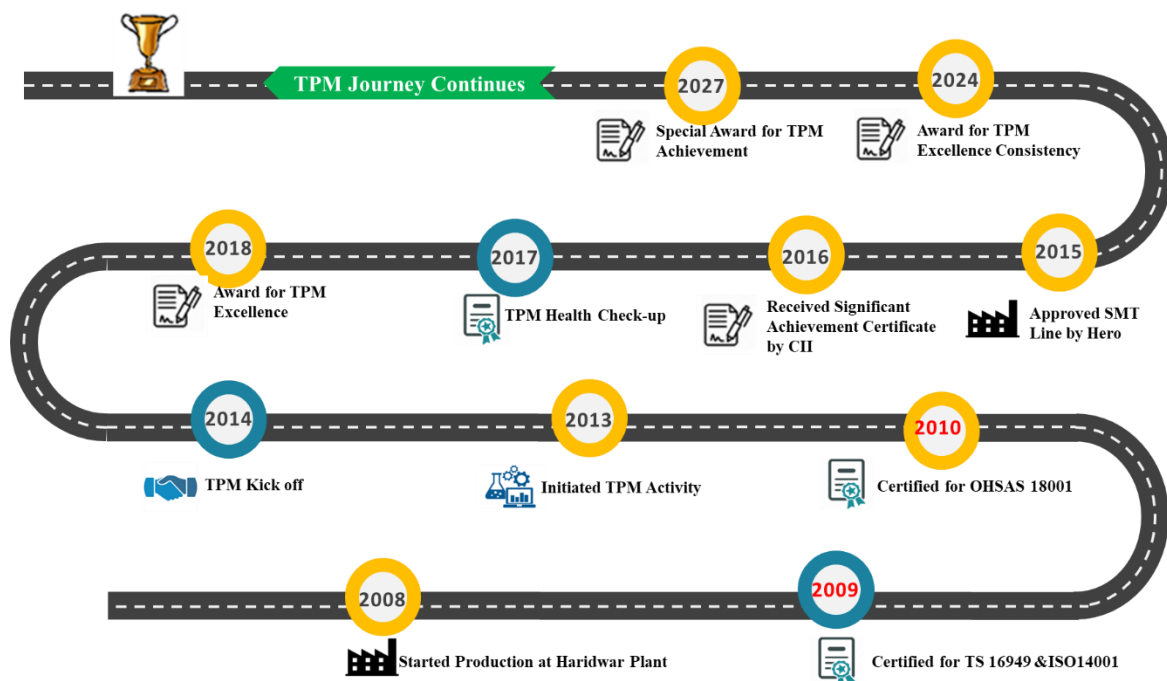
2.0 Milestone on the Journey to Manufacturing Excellence:

2.1 Reasons for adopting TPM as company policy:

TPM was introduced to achieve the following objectives. The important ones are listed below.

- Avoid wastage in a quickly changing economic environment.
- Produce goods without reducing product quality.
- Reduce cost.
- Produce a low batch quantity at the earliest possible time.
- Goods sent to the customers must be non-defective.

2.2 Haridwar Plant major activities done since TPM journey start:



3.0 Benefits Achieved:

3.1 Tangible benefits:

- ❖ Improve overall OEE from 83,7 % to 89.72 %
- ❖ Achieved ZERO accident in the Plant.
- ❖ Breakdown reduced from 216 to 64 numbers/annually.
- ❖ Sustained 100% delivery performance.
- ❖ All the A rank machines are zero breakdown.
- ❖ Increased Share of business in many products groups

3.2 Other Intangible benefits:

- ❖ Making work places more clean & pleasant
- ❖ Work environment improved.
- ❖ Operators have Ownership of their machines.
- ❖ Companywide participation
- ❖ Competency Enhancement
- ❖ Team approach is taking deep root
- ❖ Enhanced job satisfaction
- ❖ Improved image of the company, leading to the possibility of increased orders.

4.0 Achievement Record:

Category	Index (Calculation Formula)		Unit	TPM Excellence Award 2018	Actual Status Oct 2023	Target Mar 2024
S	Number of work-related accidents requiring days off work		Cases/ annually	0	0	0
S	Number of work-related accidents not requiring days off work		Cases/ annually	0	0	0
P	Productivity for main products		Parts/man hr	73	84.2	88
P	OEE (or Overall Plant Efficiency)		%	88	89.72	90.0
P	Number of tags raised		Number	5354	11607	12000
P	Number of breakdowns		Breakdowns/ annually	216	64	0
Q	Number of customer complaints		Number	5	1	0
Q	In-line defect rate	Scrap	%	0.024	0.015	0
		Scrap and rework	%	1.6	0.62	0
C	Cost index		Cost/Unit	48	74 (BS-6)	71
D	Lead time in days (Manufacturing lead time)		Days	6.5	4.2	3.0
D	Delivery performance		%	100	100	100
S	Safety index		Accidents per 100,000 operator hours	0.0	0	0
S	Number of accidents requiring absence (accumulation of past 2 y)		Number/ Year	0	0	0
M	Number of Employee Suggestions		Cumulative per year	2363	4355	4500

5.0 Key of our Manufacturing Excellence:

- ❖ PQCD SME improvement themes
- ❖ Productivity improvement through loss elimination & 3M elimination
- ❖ POKA YOKE
- ❖ Monitoring of critical parameters through SPCs
- ❖ Single Piece Flow
- ❖ Lead time reduction
- ❖ ITR improvement
- ❖ Kaizen/ Suggestions
- ❖ Employee Training program
- ❖ Employee engagement activities

6.0 Contact Person:

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