

**INSTITUTE
of QUALITY**



Confederation of Indian Industry



TPM NEWSLETTER

VOLUME 3

www.tpmclubindia.org

This year, 2024 companies successfully cleared the assessments for TPM Strong Commitment, TPM Significant Achievement and Excellence in Operations Technology. These companies were Awarded at the TPM National Conference on 12 September at Chennai. Chairman, CII TPM Club India, Mr R Srinivasan handed over these awards to the respective companies.

TPM Awards 2024 Winners List

Excellence in Operations Technology (EOT) Award

🏆 NITTA GELATIN INDIA LTD, OSSEIN DIVISION

Award for TPM Excellence in Strong Commitment

🏆 Brakes India Private Limited, Jhagadia

🏆 Grotek Enterprises Pvt Ltd (Subsidiary of Yuken India Ltd)

🏆 IFB Industries Limited (Kolkata Engineering Division)

🏆 JSW PAINTS LIMITED, VIJAYANAGAR PLANT

🏆 Minda Corporation Limited- Die Casting Div. Gr. Noida

🏆 Padget Electronics Private Limited

🏆 Rane Engine Valve Ltd, Aziznagar

🏆 Shanthi Feeds Private Limited (Feed Division)

🏆 Sun Industrial Tyres Limited, Srilanka

🏆 Sun Tyre & Wheel Systems, Division of Sundaram Industries Pvt Ltd, Pudukottai

🏆 Sundaram Lanka Tyres Limited, Srilanka

🏆 Uno Minda Limited Seating Division Plant 1, Hosur

Award for TPM Excellence in Significant Achievement

🏆 Adwaith Lakshmi Industries Pvt Ltd

🏆 Manu Yantralaya (P) Ltd

🏆 Napino Control Systems Pvt. Ltd.

🏆 Rane Engine Valve Ltd, Trichy (Pudukottai District)

🏆 Rane Engine Valve Ltd, Tumkur

🏆 Skaps Advanced Composites Private Limited (Pet), Sez Mundra

🏆 Skaps Industries India Private Limited (Chennai Div.)

🏆 Skaps Industries India Pvt.ltd, Mundra-sez Unit-ii

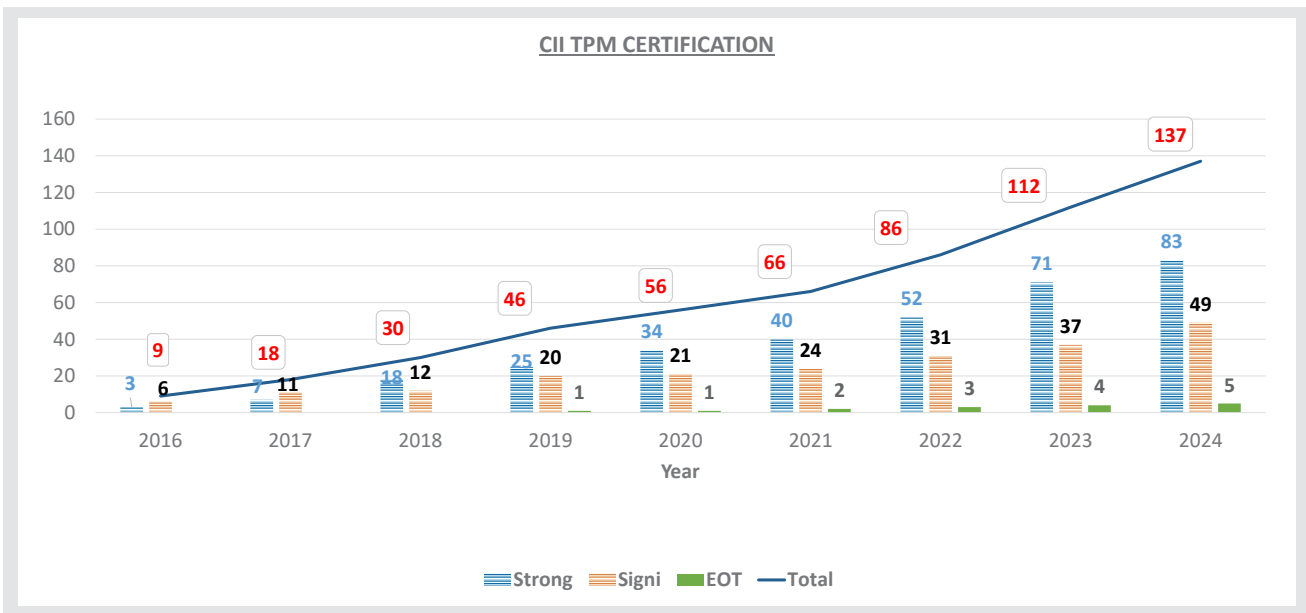
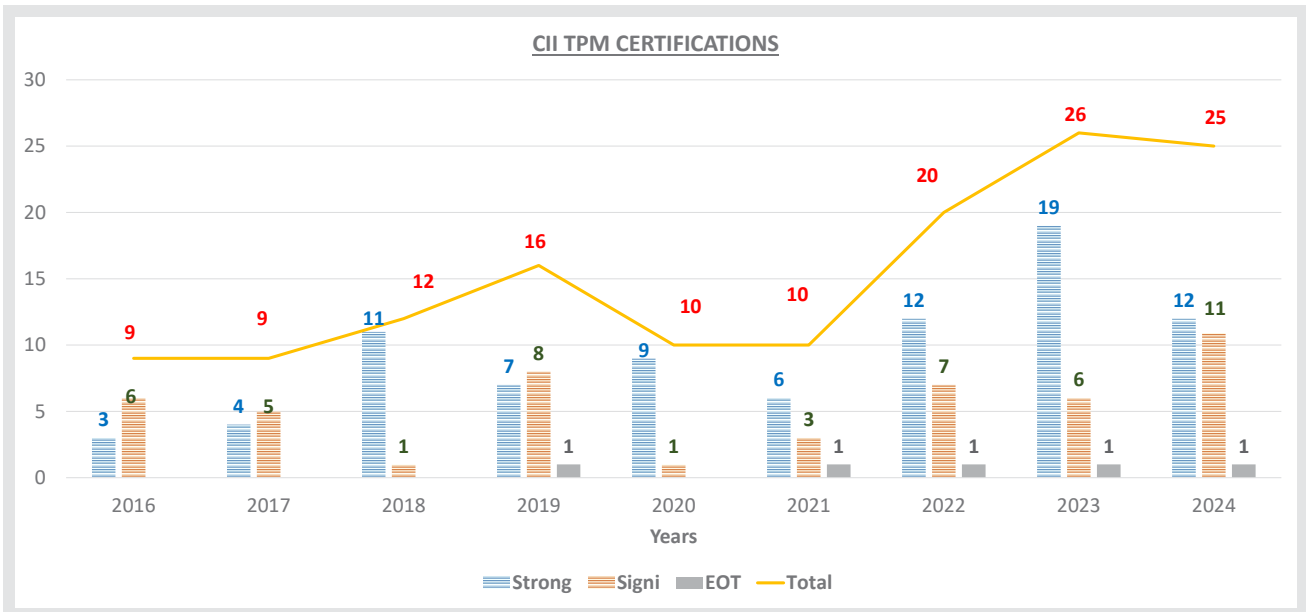
🏆 Sun Tyre & Wheel Systems, Division of Sundaram Industries Pvt. Ltd., Maraimalainagar

🏆 Sundaram Auto Components Limited, Hosur


🏆 Titan Company Limited, Jewellery Division, Pantnagar



Award Winners of TPM Strong Commitment,
TPM Significant Achievement and Excellence in Operations Technology



Company	: NITTA GELATIN INDIA LTD
Factory	: OSSEIN DIVISION
Product	: OSSEIN, LIMED OSSEIN,DCP
TPM Kick-off	: 2019

 Award year: 2024



Mr Deepu K Cherian
AM (BE)

Company Profile:

Nitta Gelatin India Ltd. (NGIL), an affiliate of Japan-based Nitta Gelatin Inc. (NGI), is a global leader in gelatin and collagen with over 100 years of history. Founded in 1975, NGIL excels in the pharmaceutical, nutraceutical, and food sectors, offering high-quality gelatin and collagen peptides. Collagen Peptides are gaining popularity for its health and beauty benefits, contributing to the growth of the nutraceutical industry. NGI is having global operations with manufacturing units located in Japan, USA, Canada, India, China & Vietnam.

Uses:

- Pharmaceutical: Capsules and tablets
- Food: Confectionery, dairy, meat processing
- Nutraceutical: Health and beauty benefits

Key Highlights:

- Ownership: Joint venture between NGI (43%) and Kerala's KSIDC (32%)
- Listed on: Bombay Stock Exchange (BSE)
- Headquarters: Cochin, Kerala
- Factories: 4 in India (Kerala, Gujarat, Maharashtra)
- Exports: 50%+ revenue from 30+ countries
- FY23-24 Revenue: ₹5,439 million | PBT: ₹1164 million



Expectations from TPM:

- **Productivity:** Achieving zero breakdown, ultimately improve "Overall Equipment Efficiencies" (OEE) of the plant.
- **Quality:** Achieving and sustaining condition of zero defects
- **Cost:** Reduce cost of production – By reducing- Man power cost, Chemical cost, Power cost, Fuel cost & maintenance cost
- **Delivery:** To achieve on time delivery and thereby improve customer satisfaction
- **Safety:** Achieve zero reportable accidents and minimize first aid & minor accidents
- **Morale:** Achieving higher level of employee engagement by ensuring employee participation in improvement activities
- **Environment:** Minimizing impact on environment by reducing natural resources usage

Achievement area - Tangible Benefits

Please specify with respect to P, Q, C, D, S & M

S.No.	Category	Parameter	Unit	Before (2020)	After (2024)
1	PRODUCTION	OEE- DCP PLANT %	%	79	90
2	QUALITY	OSSEIN INHOUSE DEVIATION	%	5.7	0
3	COST	OSSEIN CONVERSION COST	%	100	94
4	DELIVERY	OTD- OSSEIN	%	92	99
5	SAFETY	MINOR ACCIDENT & FIRST AID	Nos	12	0
6	MORALE	5S SCORE-OD	%	73	79

Company : Brakes India Pvt Ltd
 Factory : Jhagadia - Gujarat
 Product : Calliper & Drum brake Assembly
 TPM Kick-off : 28th Aug'23

🏆 Award year : 2024



Mr Atul Kharul
General Manager

Company Profile:

1. Manufacturing Vehicle Safety part – Front Caliper Brake & Rear Drum brakes for Light commercial vehicle
2. Customer – Maruti Suzuki, Tata Motors, Mahindra & Mahindra, Fiat, Stellantis, Advics

Expectations from TPM:

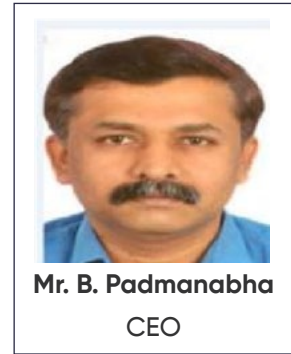
1. Understand TPM Journey & approach for way of working
2. Productivity improvement, Improve M/C life, Cost reduction , Operational efficiency improvement
3. Reduce Breakdowns , accidents and defects due to lack of skill


Achievement area - Tangible Benefits

Please specify with respect to P, Q, C, D, S & M

S.No.	Category	Parameter	Unit	Before/ Month	After / Month
1	P	Measurement & adjustment losses time reduction	no's	653	50
2	P	Tool waiting & Inspection time elimination	min	100	0
3	P	Measurement & adjustment loss reduction	no's	2089	495
4	P	Measurement & adjustment time reduction	no's	990	130
5	P	Productivity improvement – Hourly	no's	80	84
6	P	Productivity improvement – Hourly	no's	86	88
7	P	Productivity improvement – Hourly	no's	63	100
8	Q	Bleed port thread diameter O/S	no's	44	3
9	Q	Thermal Clip Lug Damage	no's	12	0
10	C	Tool cost reduction	CPC	0.85	0.62

Company : Grotek Enterprises Pvt Ltd
 Product : Manufacture Grey & SG Iron Castings
 TPM Kick-off : 22.07.2022



 Award Year : 2024

Company Profile:

Grotek Enterprises Pvt Ltd., is an ISO 9001: 2015 certified company and subsidiary of Yuken India Ltd, located in Southern part of India in the City of Bangalore.

We manufacture Grey & SG Iron Castings through Green Sand Moulding process mainly for Hydraulic Valve and Pumps. (Also supplies castings in machined condition)

Expectations from TPM:

- i. Aiming zero accident, zero breakdown and zero losses
- ii. Upgrading knowledge and skill of employees by training and encouraging TPM activities.
- iii. Improving customer satisfaction with quality products and delivering on time.

Achievement area - Tangible Benefits

Please specify with respect to P, Q, C, D, S & M

S.No.	Category	Parameter	Unit	Before/ Month	After / Month
1	P	OEE of Line 01	%	44	81
2	P	OEE of Line 02	%	32	69
3	P	Productivity Ton/Hour	Tons	0.8	1.2
4	P	Breakdowns due to Lack of Knowledge	Nos/ month	84	12
5	P	MTBF	Hrs	20	105
6	P	MTTR	Hrs	4	0.2
7	P	CLIT	No's	0	18
8	Q	In-house Rejection	%	12	9.1
9	Q	Customer end Rejection	%	5	4
10	C	Diesel Consumption cost	Lac / year	46	16
11	D	Delivery Adherence	%	89	95
12	S	Number of First aid cases	No's	24	2
13	M	Training for person /year	Hrs / Year	1	15
14	M	Multi skilled employees	No's	4	15
15	M	Kaizens / Year	No's	26	264
16	M	Awards in National Events	No's/Year	0	13

Company : IFB Industries Limited

Factory : Kolkata Engineering Division

Product : Fine Blanked Components & Sub-assemblies for Automotive & Engineering Industry.

TPM Kick-off : 21/04/2023



 Award Year : 2024

Company Profile:

IFB Industries Limited originally known as Indian Fine Blanks Limited started operations in India during 1974 in collaboration with Hienrich Schmid AG of Switzerland. Now engaged in diverse businesses that span across Home Appliances, Precision Engineering Components, Automotive Sub-assemblies, Steel, Alcohol and Seafood etc.

Kolkata Engineering Division of IFB Industries Limited excels in the precision manufacturing of fine-blanked components and sub-assemblies. Equipped with Design & Developments, state-of-the-art tool rooms, advanced fine blanking presses, Heat Treatment facilities and comprehensive support machineries; IFB is the leader in Fine Blanking. With over 50 top-tier clientele across various industries, specialized in manufacturing of precision components for engine, transmission, clutch, brake, seat belt, switchgear and compressor valve plates etc. IFB Kolkata Engineering Division is proud direct supplier of esteem customers like Maruti Suzuki, Tata Motors, HMCL, HMSI, Yamaha, Baja Auto, GE, L&T, Schneider, JCB and many more OEMs.

Expectations from TPM:

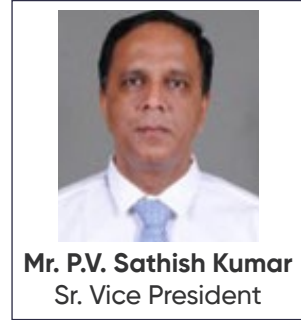
1. Zero Accident
2. Zero Customer Complaint
3. OEE Improvement.
4. Losses Elimination.
5. Machine Breakdown Elimination.
6. Tool Breakdown Elimination
7. In-house Rejection Reduction.
8. Over all Morale Upliftment of Employees across levels.

Achievement area - Tangible Benefits

Please specify with respect to P, Q, C, D, S & M

S.No.	Category	Parameter	Unit	Before	After
1	P	Fine Blank Press OEE (Average)	%	74	77
2	P	Heat Treatment Furnace OEE (Average)	%	70	77
3	Q	Internal Rejection	PPM	10200	9200
4	Q	Cost of Poor Quality (COPQ)	% of Sales	0.80	0.42
5	C	Premium Freight	INR in Lakhs	6	3
6	C	Operational Cost	% of Sales	20	15
7	D	Delivery	% of Schedule	100%	100%
8	S	Accident	Nos	0	0
9	M	Suggestion	Nos	0	360

Company : JSW Paints Ltd.
 Factory : Vijayanagar, Bellary, Karnataka
 Product : Paint Manufacturing
 TPM Kick-off : 28th Aug,2023



 Award Year : 2024

Company Profile:

JSW Paints Ltd is Fully-automated, Water-based Paint Manufacturing Plant @ Vijayanagar, Production Capacity of 150,000 ktpa.

We have another Automated industrial and Solvent based paint manufacturing plant @ Vasind.

JSW Paints aims to inspire minds to bring out the true beauty in everythingbecause Beautiful thoughts make the World Beautiful

Expectations from TPM:

JSW Paints Private Limited, Vijayanagar Plant is committed to implement and practice TPM principles in our activities for achieving manufacturing excellence with the participation of all stakeholders for achieving the below objectives.

Objectives:

1. Achieve Zero Breakdown, Zero Defects and Zero Accidents.
2. Improve morale of our employee and everybody associated with us in creating Clean, Green, Safe and Healthy working environment.
3. Attaining Timely Delivery and Prompt Service
4. Maximizing operational efficiency
5. Eliminating all type of losses.
6. Building culture of continual improvement leading to capability enhancement.

Achievement area - Tangible Benefits

Please specify with respect to P, Q, C, D, S & M

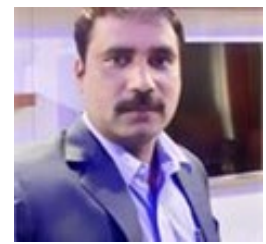
Category	Index (Calculation Formula)	UOM	Bench mark (Oct '2023)	Actual (Jul' 2024)
P	Breakdown	Number	360	185
	OEE	%	63	85
	Cycle time reduction	Batch/Min	109	66
	MTTR	Min	27.8	15.6
	Labour Productivity	Mandays / KL	0.97	0.88
Q	Customer Complaints	Number	31	25
	RFT	%	72	84
C	Maintenance cost	Rs/Month	22.5 Lacs	18.2 Lacs
	Yield improvement	%	1.1	0.33
D	Plan adherence	%	100%	Sustain
S	Accident (LTI)	Number	1	0
M	Total Employee involvement (Kaizen)	Number	0	237
	One Point Lesson	Number	0	328
	Plant 5S Score	%	44	83

Company : Minda Corporation Limited

Factory : Die Casting Div. Gr. Noida

Product : Die Casting (GDC), Low Pressure Die Casting (LPDC),
High Pressure Die Casting (HPDC) & Zinc Hot Chamber
Casting products.

TPM Kick-off : 30.11.23



Mr. Bharat Bhusan
Plant Head

 Award Year : 2024

Company Profile:

Spark Minda is a leading manufacturer of Aluminium & Zinc die casted and machined components for Automotive and Non-Automotive Industry in India and across the globe. We offer end-to-end solutions across strategic product families covering- Prototyping, Tool Designing & Manufacturing, Casting Simulation, Core Making, Die Casting, Shot Blasting, Powder Coating, Assembly & multi process Foundry services. With three state-of-the-art Manufacturing facilities located in Pune & Greater Noida, we deliver the best-in-class Gravity Die Casting (GDC), Low Pressure Die Casting (LPDC), High Pressure Die Casting (HPDC) & Zinc Hot Chamber Casting products.

Expectations from TPM:

- Increase Productivity by eliminating the process waste
- Reduction of Equipment Down Time, Zero Equipment Failure
- Improve product Quality
- Enhance the Safety, Zero Accident
- Improve Employee engagement and ownership
- Knowledge sharing among the Deptt.

Achievement area - Tangible Benefits

Please specify with respect to P, Q, C, D, S & M

S.No.	Category	Parameter	Unit	Benchmark (Before) - FY 22-23	After
1	P	Sales & Revenue	Cr.	210	242
2	Q	CSI	%	95%	97%
3	C	Cost Reduction	Cr.	3.63	4.12
4	D	Delivery	%	100%	100%
5	S	Safety Accident	Nos.	0	0
6	M	Kaizen/Month/Man	Nos.	3824	4900

Company : Padget Electronics Private Limited

Factory : Plot A14, Sector 68, Noida

Product : Mobile and Laptop



Mr. Kamlesh Kumar Mishra
President, Mobile Division,
Dixon Technologies (India)

 2024 Strong commitment for operational excellence

Company Profile:

Padget is a manufacturing facility (Mobile and Laptop) to Dixon Technologies (India) Limited has been leading the electronic manufacturing services (EMS) space in India. Founded in 1993 and commenced manufacturing of colour television in 1994, Dixon has now expanded its operations to various sub-segments of electronics. Dixon Technologies (India) Limited is the largest home grown design-focused and solutions company engaged in manufacturing products in the consumer durables, lighting and mobile phones markets in India. Their diversified product portfolio includes (i) consumer electronics like LED TVs; (ii) home appliances like washing machines; (iii) lighting products like LED bulbs and tube lights, down lighters; (iv) mobile phones; and (v) CCTV & DVRs (vi) Wearables (vii) Refrigerators. Dixon also provides solutions in reverse logistics i.e. repair and refurbishment services of LED TV panels.

Expectations from TPM:


Zero BAD (Breakdown, Accident and defects) and enhanced productivity and customer experience

Achievement area - Tangible Benefits

Please specify with respect to P, Q, C, D, S & M

S.No.	Category	Parameter	Unit	Before	After
1	P	Productivity in Assembly	Unit per hour	180	200
2	Q	Quality – First time pass	%	95	97.5

Company : Rane Engine Valve Limited
 Factory : Plant-4, Aziz Nagar
 Product : Manufacturing of IC Engine Valves
 TPM Kick-off : Q2, 2023-24

 Award Year : 2024



Company Profile:

Rane Engine Valve Limited is the Leader in Manufacturing of IC Engine Valves in India and supplying the valves to all Major OEMs in India with the Significant Export Market, Company is having the turnover around the 600 Crores & employed around 2000 employees, Company is having 5 Manufacturing Locations in India.

Expectations from TPM:

OEE Enhancement, Quality Improvement, Low cost automation, Profitability Improvement.

Achievement area - Tangible Benefits

Please specify with respect to P, Q, C, D, S & M

S.No.	Category	Parameter	Unit	Before	After
1	P	Overall Equipment Efficiency	%	56.8	72.6
2	P	Productivity	Nos/Day	44000	46000
3	Q	Overall Rejection	PPM	52000	42000
4	Q	Customer Line Rejection	PPM	4	0.5
5	C	Repair & Maintenance Cost	Lacs/Month	23	20
6	D	Schedule Adherence	%	94.5	97.2
7	S	Reportable Accidents	Nos/Year	1	0
8	M	Suggestions	Nos/Month	150	269
9	M	Kaizens	Nos/Month	44	152

Company	: Shanthi Feeds Pvt Ltd
Factory	: Pappampatti, Coimbatore
Product	: Poultry and Cattle Feeds
TPM Kick off	: Dec 2023

 Award Year : 2024



Dr. Sokkalingam
General Manager

Company Profile:

Shanthi Feeds Limited is an Indian multinational food products company headquartered in Coimbatore, India. The company was started in 1988 and is involved in broiler farming, hatcheries, feed mills for poultry and cattle, farming of soya, corn and wind energy projects. It markets and exports broiler chicken, frozen chicken, chicken eggs. The company has a production capacity of nearly 47 Million birds per annum.

Shanthi Feeds is a pioneer and leader in the poultry industry with over two decades of proven stature as a poultry integrator. The feed division has production capacity of 2,40,000 metric tons per annum for both captive and market consumption. The modern plants with state-of-the-art facilities and sophisticated laboratories are among the best in the country.. Shanthi Feeds, in pellet, crumble, and mash forms, has earned complete confidence of poultry farmers in across India and this is quite evident from the phenomenal growth of the organization during the past two decades.

Expectations from TPM:

Shanthi Feeds Pvt Ltd is committed to maintain customer confidence through timely supply of cost effective, consistent quality products manufactured in a sustainable, healthy & safe work environment for achieving the below objectives

To achieve Zero breakdown, Zero defects and Zero Accidents

To train and motivate of our employee and mitigate business, operational risk for continual improvement in process.

To attain product quality and manufacturing process in the first attempt

To Maximize efficiency and minimize variation

To minimize the losses and reduce manufacturing cost

To create a pleasant and productive work environment




Achievement area - Tangible Benefits

Please specify with respect to P, Q, C, D, S & M

Category	Parameter	UOM	Bench mark (Jun'2022)	Actual (Jun' 2024)
P	Breakdown	Number	212	44
	OEE	%	59	66
	MTTR	Min	166	39
Q	Customer Complaints	Number	23	15
	Rework reduction	%	0.75	0.25
	Maintenance cost	Lacs	25.2	13.5
	Spillage reduction	Tons	49.3	24.6
D	Plan adherence	%	92	98
S	Accident	Number	14	6
M	Total Employee involvement (Kaizen)	Number	0	50
	One Point Lesson	Number	0	20

Company : Sun Industrial Tires Limited, Srilanka
 Factory : Biyagama Export Processing Zone, Block A, Biyagama, Colombo
 Product : INDUSTRIAL SOLID RUBBER TIRES
 TPM Kick-off: February 2024

 Award Year : 2024



Company Profile:

We provide Industrial Solid Rubber Tires by design, Produce, Distribute & Market worldwide based on customer demand to cater on time within less turnover time and act as 4th Largest Manufacturer in the World.

Expectations from TPM:

- Convert production operator mindset to keep the machine live without interruption operation (Break Down) without affecting Product Quality
- To support the develop a multi-skilled workforce and it is in process.
- To enhance the knowledge of the operator on how to maintain as primary function of the machine
- Great support to inculcate operator quality gate establishment & get involvement of improve the process & product quality

Achievement area - Tangible Benefits

Please specify with respect to P, Q, C, D, S & M

S.No.	Category	Parameter	Unit	Before	After
1	P	Overall Productivity	Kg/Man hour	6.1	7.9
2	P	OEE (Plant)	%	62	71
3	C	Machine Breakdown Occurrence	Nos/Month	50	36
4	P	MTBF	Hrs/month	11.4	18.1
5	C	MTTR	Hrs/month	3.00	2.28
6	Q	R Grade	%	0.35	0.10
7	Q	FTR	%	89	93
8	Q	Customer Complaint	Nos	18	0
9	M	Suggestions/Kaizens Participation	%	55	93
10	M	Multi-skilled (workforce)	Nos	12	30

Company : Sundaram Industries Private Limited
Factory : Sun Tyres & Wheel system, Pudukkottai.
Product : Industrial Solid Tyres
TPM Kick-off : 20.04.2024

 Award Year : 2024



**Mr. P. Ganapathy
Shankar**
Operations Head

Company Profile:

Sun Tyre & Wheel Systems (SUN-TWS) is part of the TVS Mobility Group, a leader in Automotive Engineering, Rubber Tyres & Components Manufacturing, and Supply Chain Management. SUN-TWS is among the top five largest manufacturers of Off-Highway Solid and Pneumatic tyres in the world.

Operating from cutting-edge manufacturing plants in India and Sri Lanka, we export 70% of our Off-Highway tyres to customers across the globe. Our clientele includes specialized Original Equipment Manufacturers (OEMs) and distributors spanning Europe, North America, Central and South America, Asia, Australasia, and Africa.

Expectations from TPM:

Primary Goals:

1. Equipment Reliability
2. Reduced Downtime
3. Increased Efficiency
4. Cost Savings.

Key expectations:

1. Proactive Maintenance: Regularly inspect and maintain equipment.
2. Predictive Maintenance: Use data and analytics to anticipate equipment failures.
3. Autonomous Maintenance: Empower operators to perform routine maintenance tasks.
4. Continuous Improvement: Identify and implement process enhancements.
5. Training and Development: Enhance maintenance personnel skills.
6. Quality Control: Ensure high-quality production and minimize defects.
7. Safety and Compliance: Maintain a safe working environment.

Achievement area - Tangible Benefits

Please specify with respect to P, Q, C, D, S & M

S.No.	Category	Parameter	Unit	Before	After
1	P	OEE	%	64	68
2	P	Workmen Productivity	Kg/Man-hour	7.55	8.01
3	P	MTBF	Hours	190	212
4	P	Minor stoppages	Occ.	28	14
5	Q	Customer complaints	Nos	18	2
6	Q	Bought out rejection	%	0.09	0.01
7	C	Conversion cost	Rs/kg	41.03	35.72
8	S	Carbon emission	Kg co2/MT	138	130
9	M	Kaizens Trend	Nos	25	114

Company : Sundaram Lanka Tires Limited, Srilanka

Factory : Biyagama Export Processing Zone,
Block B, Biyagama, Colombo

Product : INDUSTRIAL SOLID RUBBER TIRES

TPM Kick-off : February 2024

 Award Year : 2024



Mr. Niranjana Seneviratne
Vice President-
Operations

Company Profile:

We provide Industrial Solid Rubber Tires by design, produce, Distribute & Market worldwide based on customer demand to cater on time within shorter turnover time and act as 4th Largest Manufacturer in the World.

Expectations from TPM:

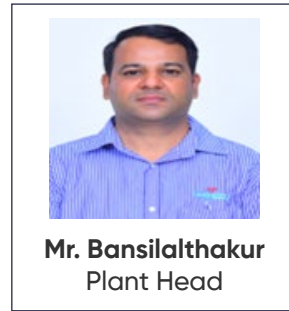
- Convert production operator mindset to keep the machine live without interruption operation (Break Down) without effecting Product Quality
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- To enhance the knowledge of the operator's how to maintain as primary function of the machine
- Great support to inculcate operator quality gate establishment & get involvement of improve the process & product quality

Achievement area - Tangible Benefits

Please specify with respect to P, Q, C, D, S & M

S.No.	Category	Parameter	Unit	Before	After
1	P	Overall Productivity	Kg/ManHour	7.2	8.02
2	P	OEE (Plant)	%	66.7	71
3	C	Machine Breakdown Occurrence	Nos/Month	45	37
4	Q	Customer Complaint	Nos	24	3
5	Q	COPQ	INR-Lacs	3.38	1
6	Q	In house Rejection-R Grade	%	0.22	0.09
7	Q	Reducing R Grade	Kg/Month	501	256
8	Q	In coming bought out Rejection	ppm	1100	400
9	M	Suggestions/Kaizens Participation	%	65	94
10	M	Multi-skilled work force	Nos	15	51

Company : Uno Minda Limited
 Factory : Seating Division – plant 1, Hosur
 Product : Seats & seating solution for Automobile industries
 TPM Kick-off : 2023



 Award Year : 2024

Company Profile:

Uno Minda Limited is a leading global manufacturer of proprietary automotive solutions and systems supplying to OEMs as Tier-1. The seating division specializes in manufacturing of automotive seats for two wheeler, three wheeler, commercial vehicle, bus passenger seat and off road. It also manufactures Polyurethane (PU) foam pads, two/three- wheeler seats, PU composites, MCU and interior modules for automobiles.

Expectations from TPM:

Our expectation to eliminate equipment breakdowns, defects, or any accidents that can cause downtime and impact production. TPM improves the quality of production and operations by making maintenance a shared responsibility of maintenance teams, plant floor workers, and senior executives.

Achievement area - Tangible Benefits


Please specify with respect to P, Q, C, D, S & M

S.No.	Category	Parameter	Unit	Before	After
1	S	Ergonomic study & improvement in T6 line	Reba Score	11	7
2	Q	Elimination of in house & customer rejection complaint in BPS line (USB port problem)	%	8	0
3	P	Minor stoppage elimination	Nos	24	0
4	C	Powder coating process cost reduction by improving powder yield	Rs./Sq.m	112	108
5	D	Machine availability improved	MTTR	70	45
6	M	Kaizen implemented	Emp / no / year	0.5	2

Company : Adwaith Lakshmi Industries Private Limited
 Factory : Coimbatore
 Product : Textile Machines Accessories & Terry towel Products
 TPM Kick-off : 2022



Mr. Ravi Sam
 Managing Director

 Award Year : 2024

Company Profile:

M/s. Adwaith Lakshmi Industries is a manufacturing company that specializes in Bright & Ground Bars, engineering components, and textile products in India. Established in 1992, it holds an ISO 9001:2015 certification, highlighting its commitment to quality management. With a strong focus on advanced technology, the company boasts a cluster of CNC machines, conventional machines, and special purpose machines (SPMs), along with an assembly section, making it a leading player in its field.

Adwaith expanded its portfolio by integrating the spinning business and established the home textile division in 2010. It holds a SA8000: 2014 and an ISO 13485:2016 certification, highlighting its commitment to Social compliance also. Adwaith Lakshmi has a dynamic and scalable terry towel production facility that has the capability of producing high quality terry towels. Bath robes, bath mats, blankets, in piece dyed, yarn dyed, both dobby and Jacquard with a wide range of finishing. Our collection and capabilities keep expanding to meet the unique needs of our customers.

Expectations from TPM:

Increase the business profitability by improving OEE, Reduce down time, safer work environment and total customer satisfaction.

Achievement area - Tangible Benefits

Please specify with respect to P, Q, C, D, S & M

S.No.	Category	Parameter	Unit	Before	After
1		Overall Equipment Effectiveness	%	70	80.7
2	Production	Productivity per Employee / month	In Units	7275	12932
3		Break down	In Hrs	832	150
4	Quality	Cost of Poor Quality	% of Sales	2.11	0.95
5	Cost	Conversion cost	% of Sales	32	27.4
6		RM Yield	%	86	87.6
7	Delivery	OTIF	%	88	94.4
8	Safety	Minor accidents	Nos.	17	5
9	Morale	No. of Suggestion	Nos.	48	124
10	Environment	Energy consumption	kW / Unit	2.34	0.38

AWARD FOR TPM EXCELLENCE IN SIGNIFICANT ACHIEVEMENT



Company : MANU YANTRALAYA PVT. LTD., JAIPUR
 Product : Ball Bearing Cages, Shields & metal stamping products
 TPM Kick-off : 15th July'22

Award year: 2024

Company Profile:

Established : Nov 1988
 Plant Locations : 4 Plants in Jaipur. (220,000 square feet of constructed area)
 Warehouses : Bengaluru (India), Pune (India), Buenos Aires (Argentina),
 Airasca (Italy), Sopot (Bulgaria) , St Cyr Louire (France)
 Employees : 320
 Products Manufactured: Sheet Metal and Plastic Components for bearings, auto industry, food,
 Aerospace and dental medicine application.
 Certifications : MARUTI SUZUKI: GREEN SUPPLIER
 HYUNDAI: 100 PPM Certified
 DIRECT ONLINE SUPPLIER TO OEMS

Expectations from TPM:

- To get cultural change & involving of employees in business excellence
- To reduce losses
- To reduce the breakdowns
- Future growth potential
- To increase the productivity

Achievement area - Tangible Benefits

Please specify with respect to P, Q, C, D, S & M

AREA	Parameter	Unit	BM	Actual		
			(FY2021~22)	FY2022~23	FY2023~24	FY-2024~25 YTD
BUSINESS	SALES	INR (LAKHS/M)	5.32	5.09	8.4	6.3
PRODUCTIVITY	OEE CAGE	%	61	85	90	95.3
	OEE RI	%	72	80	91	96.0
	OEE SHIELD	%	29	-	-	50.0
	BREAKDOWN OCCURANCES	NOS	289	384	365	7.7
QUALITY	COPQ	% OF REVENUE	0.51	0.37	0.19	0.070
	INTERNAL REJECTION	%	0.64	0.64	0.46	0.2
	SUPPLIER REJECTION	%	13.55	18.85	12.83	0.6
	L-3	%	2.42	1.78	0.85	0.3
	CUSTOMER COMPLAINTS	NOS	12	7	1	0.0
COST	MANUFACTURING COST	% OF SALES	56	45.6	53.7	57.6
	SPARES COST	INR/MONTH (LAKHS)	18	18	33.4	14.8
DELIVERY	OTIF	%	-	-	100	100.0
SAFETY	SPECIFIC ENERGY CONSUMPTION	KWH/M PIECES	6718	2807	2349	2624.0
	MAJOR ACCIDENTS	NOS	1	1	0	0.0
	MINOR ACCIDENTS	NOS	4	0	1	0.0
	FIRST AID CASES	NOS	-	16	8	2.0
MORALE	NO.OF KAIZENS/MONTH	NOS	7	1700	2609	3082.0

Company : NAPINO CONTROL SYSTEMS PVT. LTD.

Product : Electronic Fuel Injection Systems

TPM Kick-off : 21st December 2021

 Award Year: 2024



Company Profile:

M/s Napino Control Systems, a joint venture between M/s Napino Auto & Electronics Ltd. and M/s Vitesco Technologies, is a strategic partnership with an aim to provide System Solutions in the field of Electronic Fuel Injection Systems and Electrified Drive Systems for two-wheelers.

Expectations from TPM:

- Zero Breakdown
- Zero Accident
- Zero Defect
- Eliminate Losses
- Restore M/C basic condition
- Reduce Maintenance cost
- Improve OLE
- Improve Productivity
- Enhance Skill level

Achievement area - Tangible Benefits


Please specify with respect to P, Q, C, D, S & M

S.No.	Category	Parameter	Unit	Before	After
1	P	Overall Line Efficiency	%	76%	97%
2	P	Productivity	Nos. / Hrs.	170	255
3	P	Mean Time Between Failures	Hrs.	102	512
4	Q	First pass yield	%	82	99.3%
5	Q	In House PPM	PPM	482	110
6	Q	Customer Complaint	Nos.	2	0
7	C	Repair & Maintenance Cost	INR / Part	3.64	1.8
8	C	Scrap Cost	%	0.05%	0.01%
9	C	Manufacturing Cost	INR / Part	55	29.5
10	D	Schedule & Delivery Adherence	%	100%	100%
11	S	Accidents	Nos.	0	0
12	M	Employee Satisfaction Survey	%	82%	90%
13	M	Training Manhours	Hrs / Month	0.8	3.4
14	M	Attrition – Staff	%	26%	13%

Company : Rane Engine Valve Ltd
 Factory : Plant -5 , Viralimali, Pudukkottai-Dist
 Product : ICE & Non-ICE Engine Valve manufacturing
 TPM Kick-off : January - 2021



Mr. Alagupandi R
Plant Head

 Award Year : 2024

Company Profile:

- Rane Group is one of the most respected and oldest auto component group in India.
- The Group has a well-integrated design, development, testing & manufacturing at each of the group companies. Rane Engine Valve Limited (REVL) is part of this group.
- REVL was started in 1959 and currently has 5 manufacturing locations with an annual capacity of 62 Mn Valves & 15 Mn Valve Guides.

Expectations from TPM:


Improve the operational efficiency & Asset utilization.

Achievement area - Tangible Benefits

Please specify with respect to P, Q, C, D, S & M

S.No.	Category	Parameter	Unit	Before 2021-22	After 2023-2024
1	P	OEE	%	70%	83%
2	P	Production volume	No's/Annum	170 Lac	200 Lac
3	P	Plant turn over cost	Rs.	90.6 Cr	152.2 Cr
4	Q	Customer line rejection	ppm	13	6
5	C	Other variable cost	%	46 %	40 %
6	C	ROCE	%	-0.1%	32%
7	D	Delivery adherence	%	91%	96%
8	S	First aid incidents	No's	22	6
9	M	Total employee involvement	%	83	100

Company : Rane Engine Valve Ltd
 Factory : Tumkur - Karnataka
 Product : IC & Non-IC Engine Valve
 TPM Kick-off : January - 2021

 Award Year : 2024



Mr. Ch Vinay Chandra
Plant Head

Company Profile:

- Rane Group is one of the most respected and oldest auto component group in India.
- The Group has a well-integrated design, development, testing & manufacturing at each of the group companies. Rane Engine Valve Limited (REVL) is part of this group.
- REVL was started in 1959 and currently has 5 manufacturing locations with an annual capacity of 62 Mn Valves & 15 Mn Valve Guides.

Expectations from TPM:

Improve the operational efficiency & Asset utilization.

Achievement area - Tangible Benefits

Please specify with respect to P, Q, C, D, S & M

S.No.	Category	Parameter	Unit	Before 2020-201	After 2023-2024
1	P	OEE	%	47%	68%
2	P	Production volume	No's/Annum	41 Lac	57 Lac
3	P	Plant turn over cost	Rs.	85 Cr	148 Cr
4	Q	Customer line rejection	ppm	13	6
5	C	Other variable cost	%	37.6%	28.7%
6	C	ROCE	%	-0.01%	28.15%
7	D	Delivery adherence	%	86%	93%
8	S	First aid incidents	No's	10	2
9	M	Total employee involvement	%	59	75

Company : SKAPS Advanced Composites Pvt. Ltd.

Factory : Mundra SEZ (PET)

Product : PET Foam Sheet

TPM Kick-off : 12th October 2022

 Award Year : 2024



Mr. Sanket Gajjar
Plant Head

Company Profile:

SKAPS Industries is a leading manufacturer and supplier of Technical Textiles. Manufacturing experience of 20+ years. Strong market presence in over 60 countries. A wide range of products in Geosynthetics, Fiberglass Fabrics, PET, Structural Core materials and Hydrotex Product.

Expectations from TPM:

Increase Equipment reliability, Enhanced Productivity, Improved Quality, Employee Involvement, Cost reduction and Safety Improvement.

Achievement area - Tangible Benefits

Please specify with respect to P, Q, C, D, S & M

S.No.	Category	Parameter	Unit	Before	After
1	P	Production	MT	1751	2525
2	P	OEE	%	54	79
3	Q	Quality	%	30	1.82
4	Q	Process Waste	%	47	30.30
5	C	Manufacturing Cost	% of Sales	23	19.20
6	C	Yield Loss	%	55	27
7	D	On time Delivery	%	100	100
8	S	No. of Accidents	Nos/ Month	0	0
9	M	Attrition Rate	%	20	10.97

Company : SKAPS Industries India Pvt. Ltd.

Factory : Chennai Div.

Product : Kitting – Core & Glass

TPM Kick-off : 08th September 2022

 Award Year : 2024



Mr. Ramsinh Jadav
Plant Head

Company Profile:

SKAPS Industries is a leading manufacturer and supplier of Technical Textiles. Manufacturing experience of 20+ years. Strong market presence in over 60 countries. A wide range of products in Geosynthetics, Fiberglass Fabrics, PET, Structural Core materials and Hydrotex Product.

Expectations from TPM:

Increase Equipment reliability, Enhanced Productivity, Improved Quality, Employee Involvement, Cost reduction and Safety Improvement.

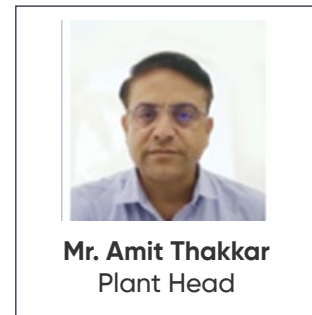
Achievement area - Tangible Benefits

Please specify with respect to P, Q, C, D, S & M

S.No.	Category	Parameter	Unit	Before	After
1	P	M/c OEE (Core kits)	%	68	88
2	P	M/c OEE (Glass kits)	%	87	90
3	Q	Product Quality Defect (Core kits)	PPM	9478	650
4	Q	Product Quality Defect (Glass kits)	PPM	1620	30
5	C	Yield Loss (Core kits)	%	9.40	9.4
6	C	Yield Loss (Glass kits)	%	2.0	4.0
7	D	On time Delivery (Core)	%	96	100
8	D	On time Delivery (Glass)	%	100	100
9	S	Zero Accidents	Nos	0	0
10	M	Attrition Rate	%	2.14	1.21

Company : SKAPS Industries India Pvt. Ltd.
 Factory : Mundra – SEZ Unit II
 Product : Non-Woven Geo Textile
 TPM Kick-off : 19th October 2020

 Award Year : 2024



Company Profile:

SKAPS Industries is a leading manufacturer and supplier of Technical Textiles. Manufacturing experience of 20+ years. Strong market presence in over 60 countries. A wide range of products in Geosynthetics, Fiberglass Fabrics, PET, Structural Core materials and Hydrotex Product.

Expectations from TPM:

Increase Equipment reliability, Enhanced Productivity, Improved Quality, Employee Involvement, Cost reduction and Safety Improvement.

Achievement area - Tangible Benefits

Please specify with respect to P, Q, C, D, S & M

S.No.	Category	Parameter	Unit	Before	After Up to Aug-24
1	P	Production	MT	21027	18088
2	P	OLE (Fiber Line)	%	66	95
3	P	OLE (Non - Woven)	%	85	90
4	P	Productivity	MT/Day	64	84
5	P	Productivity	MT/ Man	62	83
6	Q	First time not right (Inhouse defect)	Nos.	450	221
7	Q	First time not right (Vendor's defect)	Nos.	0	0
8	C	Manufacturing Cost	% of Sales	37	54
9	C	Yield Loss	%	6.33	5.39
10	D	On Time Delivery	%	40	83
11	S	Zero Accident	Nos.	5	1
12	M	Attrition Rate	%	30	9

Company : Sun Tyre & Wheel Systems
 Factory : MaraimalaiNagar
 Product : Industrial Solid Tyres
 TPM Kick-off : March'21

 Award Year : 2024



Mr. S. Santhan
Sr. General Manager

Company Profile:

Sun Tyre & Wheel Systems is a Division of Sundaram Industries Private Limited, Part of TVS group. Manufacturer of Industrial Solid tyres suitable for various applications.

Expectations from TPM:

To learn, Practise and implement the Total Employee Involvement towards Autonomous maintenance, Kaizen, and establish safety work environment which results in higher product quality and productivity.

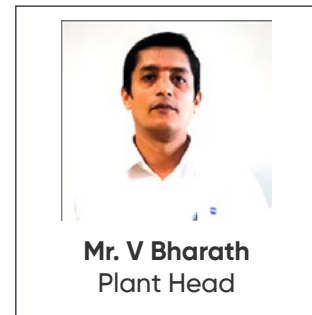
Achievement area - Tangible Benefits

Please specify with respect to P, Q, C, D, S & M

S.No.	Category	Parameter	Unit	Before	After Up to Aug-24
1	P	OEE	%	64	73
2	P	Workmen Productivity	Kg/Man Hr	13.8	14.92
3	Q	Customer Complaints	Nos	19	2
4	Q	Cost Of Poor Quality	Lakhs	1.09	0.7
5	C	Conversion Cost	Rs/Kg	30.71	28.32
6	C	Maintenance Cost	Rs/Kg	3.55	2.5
7	S	Minor Accidents	Nos	1	0
8	S	Carbon Emission	KG Co2/ MT	227	188
9	M	Kaizen	Nos	75	350

Company : Sundaram Auto Components Limited
 Factory : Hosur
 Product : Plastic injection moulding / joining process/Painting
 TPM Kick-off : 2022

 Award Year : 2024



Company Profile:

SACL, Part of TVS Group started its operations in 1988. We provide best in class solution for injection moulded plastics to the automotive industry. Over the year the company has expanded to Chennai, Mysore, Nalagarh, Bhiwadi and Sanand (Strategic manufacturing locations) to cater to the wide customer base and has proved its credentials as a total solution provider for injection moulded plastic components.

Development and manufacturing of product for two-wheeler, Passenger-vehicle, Three-wheeler and commercial vehicle segments in the automotive industry.

Expectations from TPM:

1. Achieve customer satisfaction through on-time delivery with best quality level at minimum cost.
2. Enhance overall equipment efficiency by minimizing losses with total employee involvement.

Achievement area - Tangible Benefits


Please specify with respect to P, Q, C, D, S & M

S.No.	Category	Parameter	Unit	Before	After	%
1	P	Value addition /Employee	Rs L/E/Y	1.80	3.70	106%
2	P	Sales per workmen/Y	Rs L/E/Y	41	50	22%
3	Q	In house rejection	%	2.3	1.8	22%
4	Q	Customer complaint	Nos/Month	24	17	29%
5	Q	Customer end rejection	PPM	144	80	44%
6	C	R&M cost	% to sales	1.95	1.34	31%
7	C	Manufacturing cost	Rs/KG	37.6	35.2	7%
8	D	Delivery performance	%	95	98	3%
9	S	Reportable accidents	No	0	0	Sustained
10	M	No of awarded suggestion	No	3621	5133	42%
11	M	No of people participated	%	70	100	43%

Company : TITAN COMPANY LTD.
 Factory : Jewellery Plant Pantnagar
 Product : Jewellery Manufacturing
 TPM Kick-off : 26th April 2022



Mr. Priyank Kumar
Plant Head

 Award Year : 2024

Company Profile:

TITAN has come a long way since 1984 when we started with one product category. Today, with over 8,000 employees and about 38,000 in the overall Titan ecosystem, 16 brands and over 2,000 retail stores, we are as committed as ever to delivering profitable and responsible growth for all our stakeholders.

Titan is India's leading lifestyle company and among the most admired and respected corporates in the country. We have established leading positions in the Jewellery, Watches and Eye-Care categories led by our trusted brands and superior customer experience. We have also diversified into Wearables, Indian Dress Wear and Fragrances & Fashion Accessories and are driving differentiation in these lifestyle categories, underpinned by our deep understanding of customer preferences.

Expectations from TPM:

1. Increase in Productivity by 50 %
2. Decrease in minor stoppages by 10 times
3. Elimination of Machine Breakdown
4. Zero customer Returns
5. Reduction in Lead Time of Product by 25 %
6. Sustain zero accident in plant
7. Increase in employee engagement and employee Morale
8. Improvement in Environment Performance Index

Achievement area - Tangible Benefits

Please specify with respect to P, Q, C, D, S & M

S.No.	Category	Parameter	Unit	Before	After
1	P	Increase in Turnover	Crores	1301	2639
2	P	Increase in Gold Wt. Production	Kgs of Gold Processed	326	542
3	Q	Reduction in Customer Returns	Nos.	171	137
4	C	Reduction in overhead charges/ gms of gold produced	Rs/gm of gold produced	1119	898
5	D	Lead time Reduction	Days	15	11
6	S	Sustain zero accident	No. of Accidents	0	0
7	M	Improvement in Employee Morale	GPTW Score	3.7	3.7
8	M	Improvement in Environment performance Index	EPI Score	3	4

**INSTITUTE
of QUALITY**



Confederation of Indian Industry

With an objective of supporting Indian Industry to become competitive through adoption of TPM, Confederation of Indian Industry (CII) signed an MoU with Japan Institute of Plant Maintenance (JIPM), Japan in March 1998 and created TPM Club India as an entity within CII. CII TPM Club India thus became the launch vehicle to promote TPM in India.

Since then, TPM Club India has been supporting the Indian Industry through propagation and implementation of TPM technologies. To further promote and create a wide support structure across India through a network of professionals, the CII IQ TPM Club India has launched the TPM Club Professional Membership. This forum will provide an opportunity to connect, learn, propagate, and contribute actively to further improving the competitiveness of the Indian Industry towards the goal of Competitive, Inclusive and Self-reliant India.

The TPM Club India is only organization whose previous two Heads were awarded Nakajima Award by JIPM due excellent work done in spreading TPM in India. It's only Indian organization and among few in the world whose present head is nominated by JIPM in the Global team to decide Global TPM Implementation Standard under guidance of BSI, England.

CII TPM Club India

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