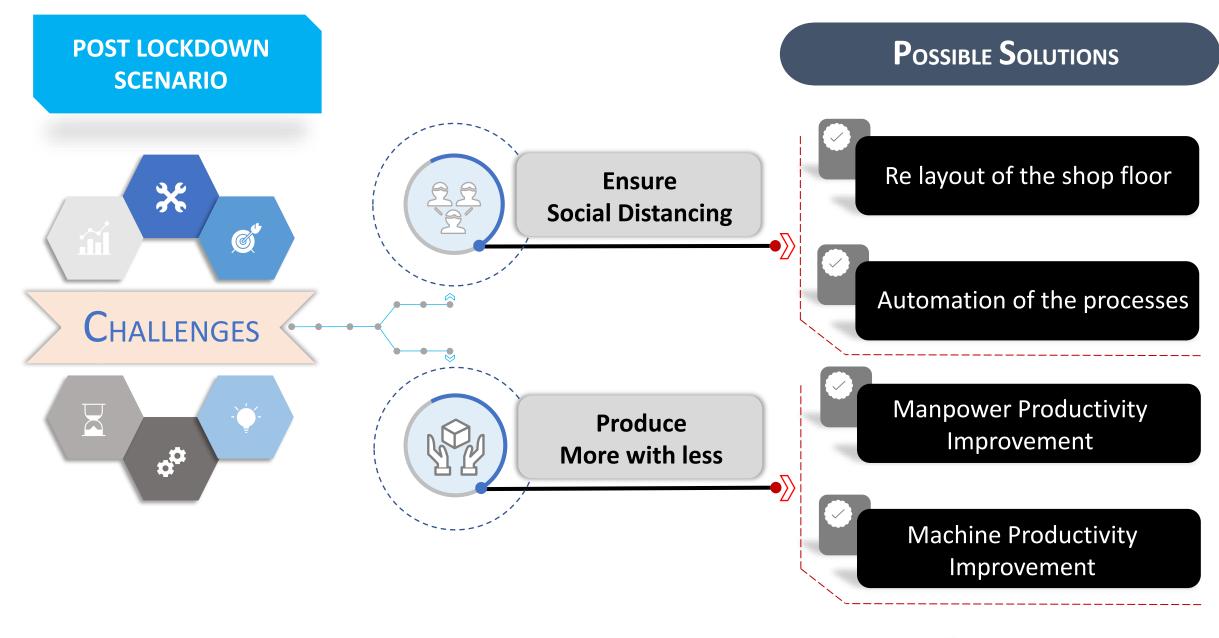
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Operations Realignment of Discrete manufacturing set up-In Post lockdown scenario

Operations realignment-

Post Lockdown



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Case Study-Shop floor re-layout

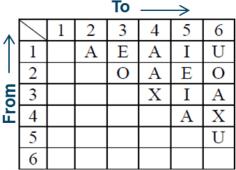
We deployed a 4 step methodology to measure the extent of desirability between two departments/workstations/cells

Map the From-To chart for workstations/cells

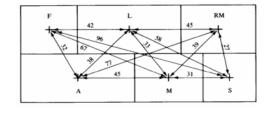
Rank the desirability of closeness of 2 workstations by A, E, I, O, U & X

Map the total transportation distance for various options

Select one based on lowest transportation cost



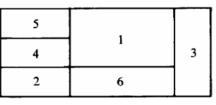
6 U O	Importance of closeness	Typical reason for closeness	Rank
A X	A – Absolutely essential	Use of same equipment & facilities	4
U	E – Essential	Share same personnel/re cords	3
	l – Important	Sequence of work flow	2
	O – Ordinary preferred	Ease of communicati on	1
	U - Unimportant	Unsafe/plea sant condition	0
	X - Undesirable	Similar work	-4





6		1	
5			1
4	3		2





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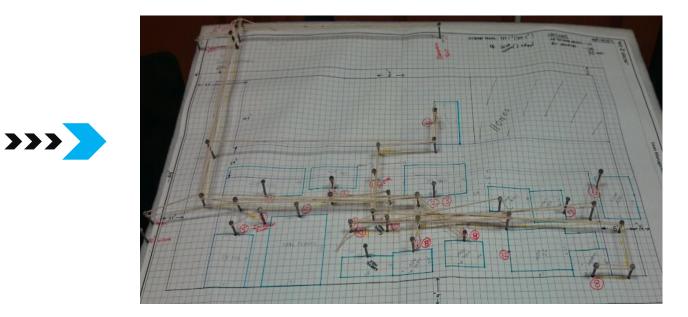


Affinity Diagram to map machines 'To be' & 'Not To be' together



2

Spaghetti Chart to understand 'As-Is' layout



3

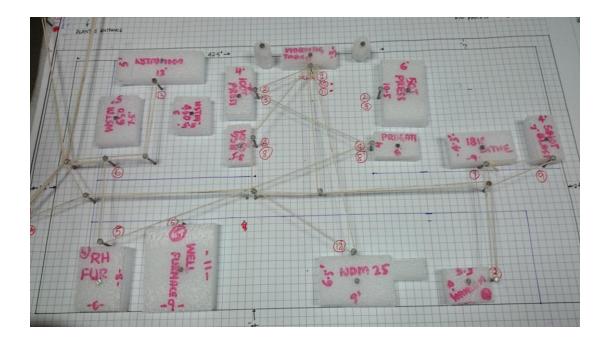
Cross overs and Total distance covered measured

As-Is layout:

- 46 cross overs
- Total product travel distance: 3.1 kms

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New Layout complying the affinity diagram



Results:

- Without any additional investment/expansion, the plant layout was reconstructed
- The new layout is 100% compliant to safety guidelines
- Guide ways and machine positions are clearly marked
- Cross overs reduced from 46 to 8. Travel distance reduced from 3.1 Kms to 1.9 Kms
- Ergonomically the layout is better and comfortable for operators to work

New layout:

- 8 cross overs
- Total product travel distance: 1.9 kms
- 38% reduction without any extra cost

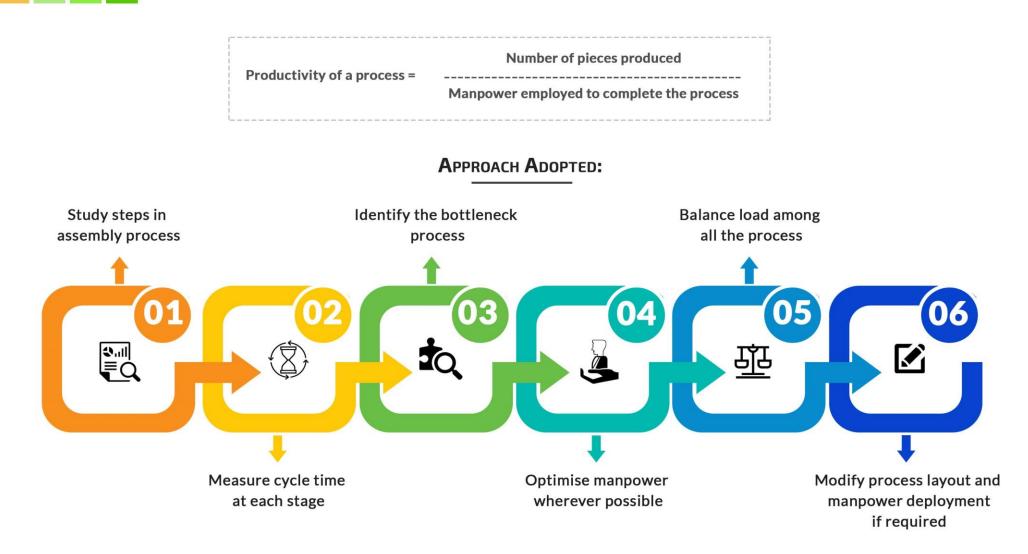
gap between operators... Social distancing

More space in the shop floor resulted in higher

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Case Study- Manpower Productivity

LOAD BALANCING & ELIMINATING NVA'S TO IMPROVE PRODUCTIVITY



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21% IMPROVEMENT IN PRODUCTIVITY ACHIEVED THROUGH MANPOWER OPTIMIZATION

IMPROVED PROCESS

Process.1

26 S

Process.2

26.5 S

Process.3

27 S

Process.4

40 S

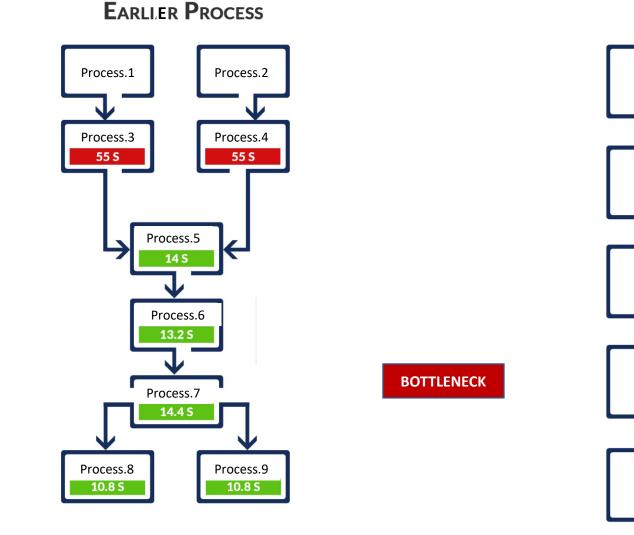
Process.5

26 S

 \mathbf{V}

 \mathbf{V}

 \mathbf{V}



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Case Study- Machine Productivity Improvement

PRODUCTIVITY IMPROVEMENT LEADING TO PROFITABLE TURNAROUND



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LEAN & EFFICIENT PRODUCTION LINE THROUGH PROCESS IMPROVEMENTINITIATIVE

#	Focus Area	Product	Baseline value	Improved value	Improvements realized	Business Benefit established
1	Capacity improvement in Injection moulding process	Product-A	72 %	75%	19 extra pcs over base line daily output	 Addition revenue due to higher productivity from same capacity 3% reduction in fixed cost/piece
2		Product-B	46 %	78%	128 extra pcs over baseline daily output	 Addition revenue due to higher productivity from same capacity 25% reduction in fixed cost/piece
3		Product-C	61%	65%	22 extra pcs over baseline daily output	• 4% reduction in fixed cost/piece
4	Improve Productivity	Manpower Optimization			Better output with same manpower	

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