Key No	Key Description	Stage Score	Stage1	Stage 2	Stage3	Stage4	Stage5
1	Cleaning & Organising		Untidy. Paper,	Dispose of	Clean up	Organise and	Eliminate
			Tools, Parts	unneeded	equipment,	mark all	causes of dirt
			scattered	items. Keep	clear out	sections.	and disorder
				floor clean	corners	Organise	
						storage	
2	Rationalising (Hoshin)		No clear	Clear	Instructions	Levels work co-	Work together
			management	Responsibility	from top broken	operatively to co-	to create
			system		down at each	ordinate efforts	common goals,
					level		individual skills
3	Improvement Team Activities		No desire to get	Suggestion	Autonomous	Alignment of	After work team
			involved in	Scheme. Team	Teams begin.	teams &	activities.
			teams	activities start	Groups: 2	company.	Groups: 6
					projects pa	Groups: 4	projects pa
					Individual: 1	projects pa	Individual: 5
					suggestion /	Individual: 2	suggestions /
					month	00	month
						month	
4	Reducing Inventory & Lead Times		WIP is a	Inventory	Start a	•	Make only what
			necessary evil	reduction	handbook-	production lines	customers want
				launched.	based inventory	results in lower	
				Inventory	reduction	inventory. 75%	
				reduced in at	program	inventory	
				least one area		reduction	
5	Changeover		Nothing done	Some	10% of	SMED on all	Single operators
				employees learn	•	machines.	can do SMED
				SMED	are SMED	Single files in	on all machines
					-	office	
6	Value Analysis & Methods Improvement		Shotgun	Systematic	People have	Pokayoke and	Improvement
			approach to	improvement	learned how to	low cost	making is
			improvement	has begun	do system	automation	systematic and
					improve at all	result in	continual
					processes	doubling	
						productivity	

7	Zero Monitoring Manufacturing	Low recognition	•	10% process	All machines	All machines
		that monitoring	recognises that	have unmanned	•	are running on
		(watching	monitoring is	operation during	•	one-cycle
		machines) is	waste	breaks	operators	automation zero
		waste				monitoring
		- 	<u> </u>		machine	A 11
8	Coupled/Synchronised Manufacturing	Each workplace	•	Factory	Clearly visible	All inter-
		functions	connections	employees set	kanban	department
		independently	between	up kanban	established	walls are
			processes	stores		demolished.
					Fishbowl offices	
			<u> </u>			flow freely
9	Maintenance	Run machines	Everyone	Operator	Full commitment	
		into the ground		•		improvement
			need for TPM.	elimination of 3	•	programme is in
			OEE is	evils	Zero breakdown	l ·
			measured.	(contamination,	U	95%
				inadequate	reduced by 75%	
				lubrication,		
				disoperation)		
10	Time Control & Commitment	Work & break	Morning	Supervisors	Workers are	Rhythm is
'		times left to	meetings are	meet to		established.
		operators	held. Safety	establish time	about time. No	Value adding
		discretion	equipment is	control issues.	early stops.	work performed
			worn at all times			for full shift
				promptly. Tools	assignments	
				returned	known	
11	Quality	Quality left to	Operators	Defect info	Pokayoke's are	Full pokayoke.
		inspectors	inspect their	passed along	being built	Zero customer
			own products	immediately.		complaints
			· .	Prevention		·
				takes place		
				immediately		

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12	Supplier Development	Manufacturer / Supplier relationship limited to purchasing, acceptance, price negotiation	supplier queries. Support for	suppliers. Provide QC and	9	Suppliers have reached a score of at least 70 on the 20 keys
13	Waste Elimination	Little understanding of waste	Everyone knows what waste really is	Waste elimination begins by operators	Actual work ratio is 85% (Value Add v Waste)	Actual work ratio is at least 95%
14	Worker Empowerment	Improvement is someone else's job	Improvement corners set up. Teams make their own shelves, tables, etc	making their own tools.		Factory makes and uses its own automation devices such as detectors, sensors, sorters
15	Skill Versatility	No one is intersested in skill versatility	Cross training begins. Willingness to learn	training being implemented. Everyone's core skills have	goal of the adaptable factory. Cross	The factory is fully able to adapt to change by re-assigning trained employees. Most on 'Master' level

16	Scheduling	Deliveries rarely on schedule	Some late delivery. Non uniform production still exists		100% on time delivery, level schedules, plus level 3 on all keys	Level schedules, with pull, plus level 4 on all other keys
17	Efficiency Control	Indirect efficiency control reporting used	Labour content reported by family. Efficiency charts established	and reviewed.	• .	Everyone motivated to achieve suitably challenging goals
18	Shop Floor Information Systems	Low awareness of CIM, OA, POP information	Used in limited areas	policy developed	CIM system fine- tuned after level 3 in other keys. POP system implement	
19	Energy & Materials	Conservation not considered	Company wide conservation policy begun	savings on existing equipment begun	Comprehensive programme in place	Full pursuit of conservation
20	Leading Technology & Benchmarking	No monitoring of competitors	Position with respect to competitors established	the industry	One step ahead of industry average. Easy incorporation of new technologies	Site technology amongst the best in the industry. Monitors leading edge technology