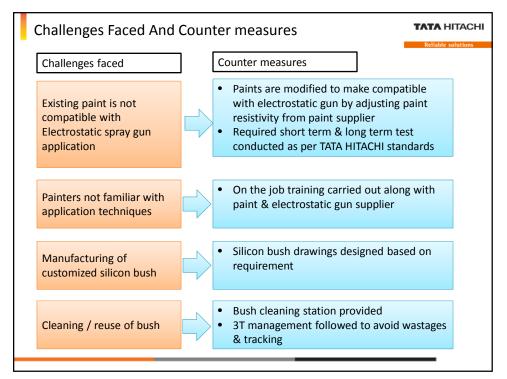
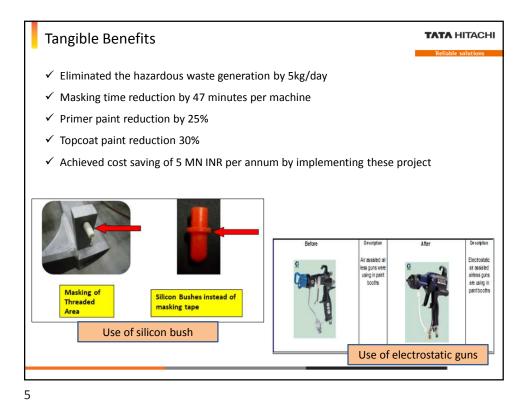


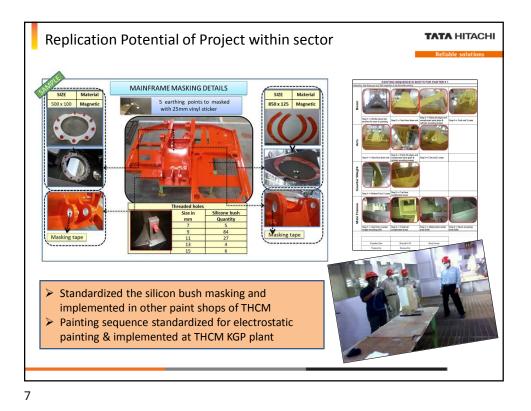
Project Details	Reliable solutions
Project title:	
 Resource Conservation Projects Implementation of reusable Silicon bushes instead of masking and threaded portion Implementation of Electrostatic paint spray gun to improve pareduce paint consumption 	
Dataile of the Projector	
Details of the Projects:	
During painting of the components, functional area (electrical protected from paint deposition for fastening provision. Earlie in those functional areas, masking tapes were being used & si segregated hazardous waste for disposal. In order to reduce of the second se	er to prevent the painting ame will be removed and or eliminate hazardous
waste generation, masking by silicon bushes implemented an painting operation.	

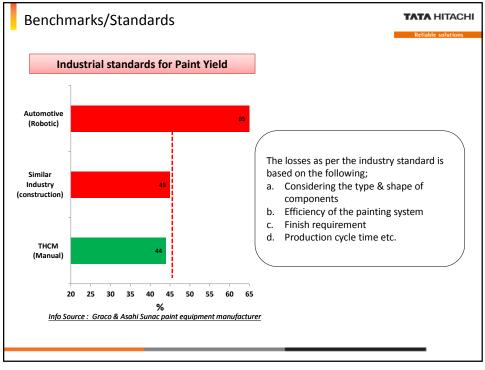
Trigger For The Project	Reliable solutions
TATA HITACHI Reliable solutions Business & Quality Objectives FY 2019-20	To adhere THCM Business & quality objectives, our Sr. Management geared up the young Dharwad team for reduction in paint wastages & to conserve the natural resources by kaizens, workplace improvements.
Work towards being a Socially Responsible Organisation by: B Antowina ZERO Academia in Al Construction, and Construction Starter Construction of the Social Starter Constructinter Constructing Starter Construction of the Social Starter Const	Silicon is paint repellant & can sustain higher temperature up to 200 ° C. These properties of silicon used in silicone bushes development. Silicon bushes car be reused till self destruction while masking tapes car not be used more than single use.
Bachhos Loader Achive Cashre Achive Cash Reduction in Readation Readation Readation Roman Prode Achive Strik Achive Strik Achive Cash Roman Prode Load by 5% Achive Cash Achive Cash Load by 5%	In case of air assisted airless guns, transfer efficiency of paint sprayed is 45% only & remaining 55% is totally wastage which further results in hazardous waste generation in terms of paint sludge. Electrostation
10. Achieve GBD pase score of 95% for Manufacturing (As per new norms) & 97% for Guilly 11. Achieve Level production (22/35/35/25) 12. Strongthan angloyse angagement Through Engloyse Welfare initiatives 12. Enhance skill at of manpower of Tata Hitschi & Statashciders 0 Declarinips 14. Compliance to Tata Hitschi Code of Cenduct Bandese Singh	painting gun has transfer efficiency of 60% which reduces the paint wastage by 15%. Consecutively paint sludge generation reduced.
aurony angu Mengrotwar Tata Hitachi Construction Machinery Company Private Limited	 Date of commencement : April 2019 Date of completion of project : April 2020











Prior	Priority plans		
Sl.no	Projects	Target	
1	Use of high solids paint to reduce paint consumption	21-22	
2	Thinner intake reduction for liquid paints	21-22	
3	Mono coat paint implementation to eliminate primer painting on C class parts	21-22	

Ν	Major learnings fr	om the proje	ct implement	ation	Reliable solutions
	Category	Strength	Weakness	Opportunity	Threat
	Choice of Theme	Capacity to take up the Challenge	• • •	Effective Way of Communication	
Р	Initial Background				-
	Goal Setting				
	Activity Planning				
D	Analysis of Issue	Knowledge of	Time Span : 3 Months	Improving Upon the Efficiency	Splitting Up of the Team
	Action and Reaction	QC tools			
С	Verification And Validation	Effeciveness of QC Tools	-	Implementation of QC Tools	-
A	Standardization and Horizontal Deployment	Summarization through 5W 1H	Dedicated Time for Meetings	Pro Active approach	Consequential Hurdles during Horizontal Deployment
Team's Capacity to take up challenge Opportunities for Increasing the Operation Efficiency					

Environmental Performance Evaluation (EPE)

1. Management performance indicator (MPI) of the plant– environmental performance indicator that provides information about the management efforts to influence an organization's environmental performance.

Parameter	2018-19	2019-20	2020-21
Power usage KWh / Mc	1440	1526	1415
Haz waste generated kgs/ mc	4.63	4.24	3.93

2. Operational performance indicator (OPI) - environmental performance indicator that provides information about the environmental performance of the project submitted.

Parameter	2018-19	2019-20	2020-21
Water consumed	6.25 KL/ Mc	7.74 KL/Mc	7.23 KL /Mc
Waste water generated	51.61 KLD	40.92KLD	40.77 KLD
Tco2/Machine	1.32	1.21	1.18
VOC	1179.65	984.92	982.54

