



CII National Award For Environmental Best Practices- 2023

Presenter -
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ReCon India DTA – Overview	
Name:	New & ReCon Parts – DTA Phaltan
Established in:	February 2011
Location:	Phaltan, Maharashtra
Product Families :	<ol style="list-style-type: none"> 1. Cylinder head 2. PT Fuel Injector 3. PT Fuel pump 4. Cam follower 5. Filter Head
Total area:	4635 Sqm (2072 Sqm ReCon DTA ; 2563 Sqm CES)
Total headcount:	Total : 129 On Roll : 98 (Including Trainees/Apprentice/Interns/FTC) Off Roll : 31 Exempt : 5, Office: 3 Shop : 45, Apprentice : 13, FTC 32, House Keeping 8, Security 7, Garden 2, Canteen 2, Material Handling 9, ETP 2.CWK-1
Gender diversity:	34%
Key customers:	HHP Rebuild Center, India Parts Distribution Center and Kothrud Engine Plant
Certifications	ISO 14001:2015; ISO 45001:2018 for HSEMS ISO 9001: 2015 for Quality Management System GreenCo Gold in 2018 and Platinum in 2019 NAMC Gold Certification in 2019 for Manufacturing Competitiveness





New & ReCon Parts,
Phaltan, Maharashtra

Plant Achievements

- BIS PPM sustenance for **65** consecutive months
- NRPO Won Winner “Sustained Commitment to **AMaZe 2.0** Excellence Journey” (ISCM Awards)
- CII Gold and Silver Recognitions for Plant.

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India MRC - HHP Rebuild, Phaltan



Plant Covered Area: 5900 SQ. MTR
 Plant Headcount : 124 (Exempt 18, Non-Exempt 106)
 Current Annual Capacity: 1250 Engines (750 HHP + 500 MR/HD)

Plant is ISO9001:2015, ISO 14001:2015 & ISO 45001:2018 certified

Products families: Rebuild from B3.3L to QSK78L Engines

Horsepower Range	45 - 2000
Displacement Range	3.3L to 78L



Key Customers:



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Reuse of Discarded Cyl Head By Developing Defect Removal Process

Trigger – Higher rejection of cylinder head

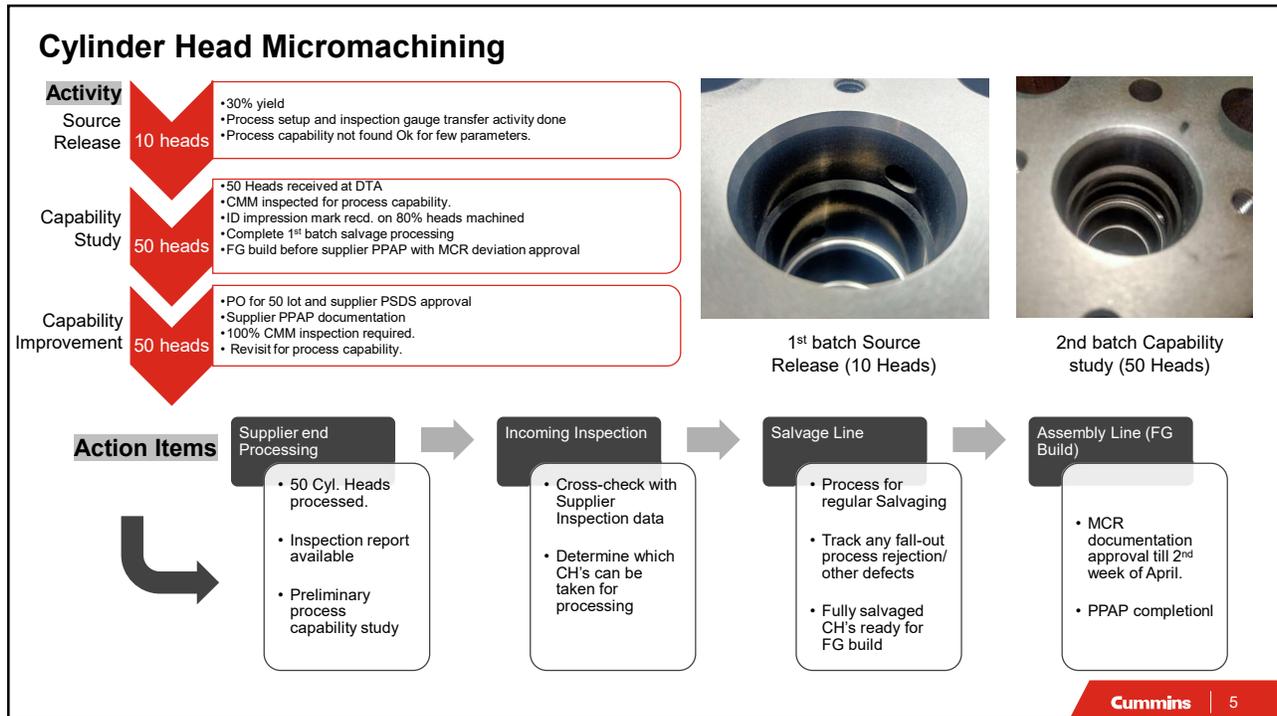
Pitting Defect on Injector bore



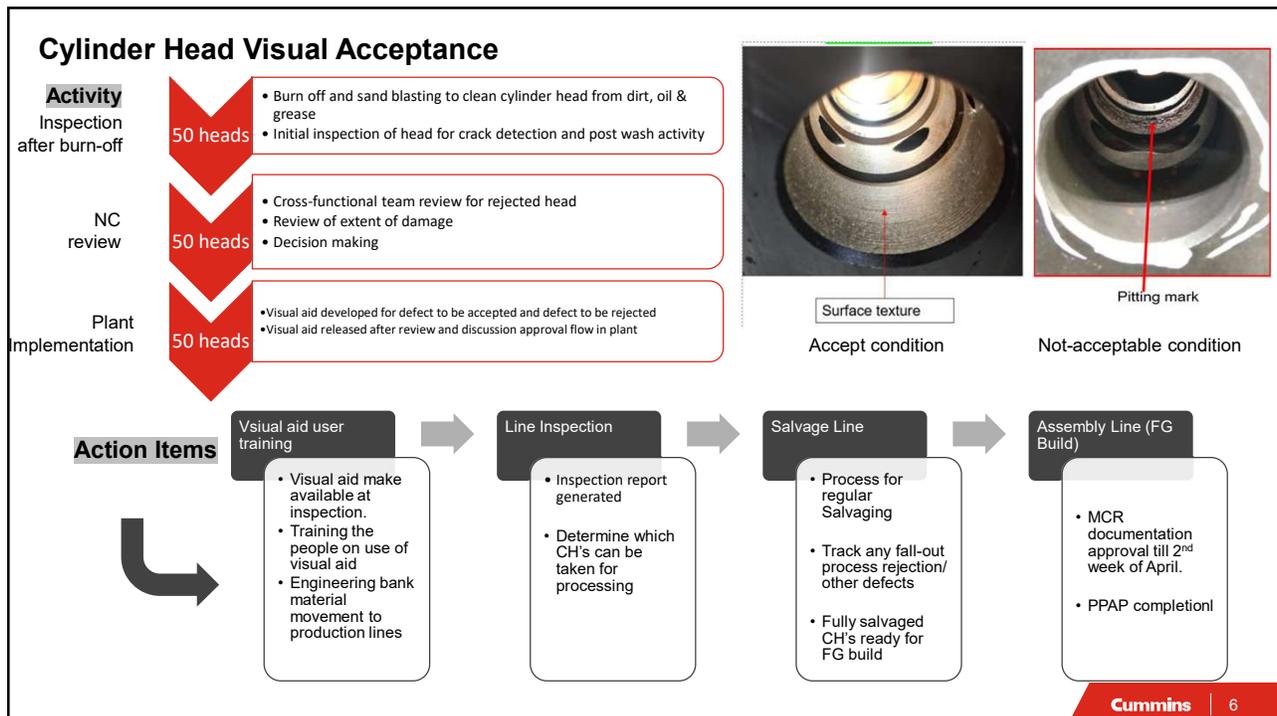
Dent on Injector Bore



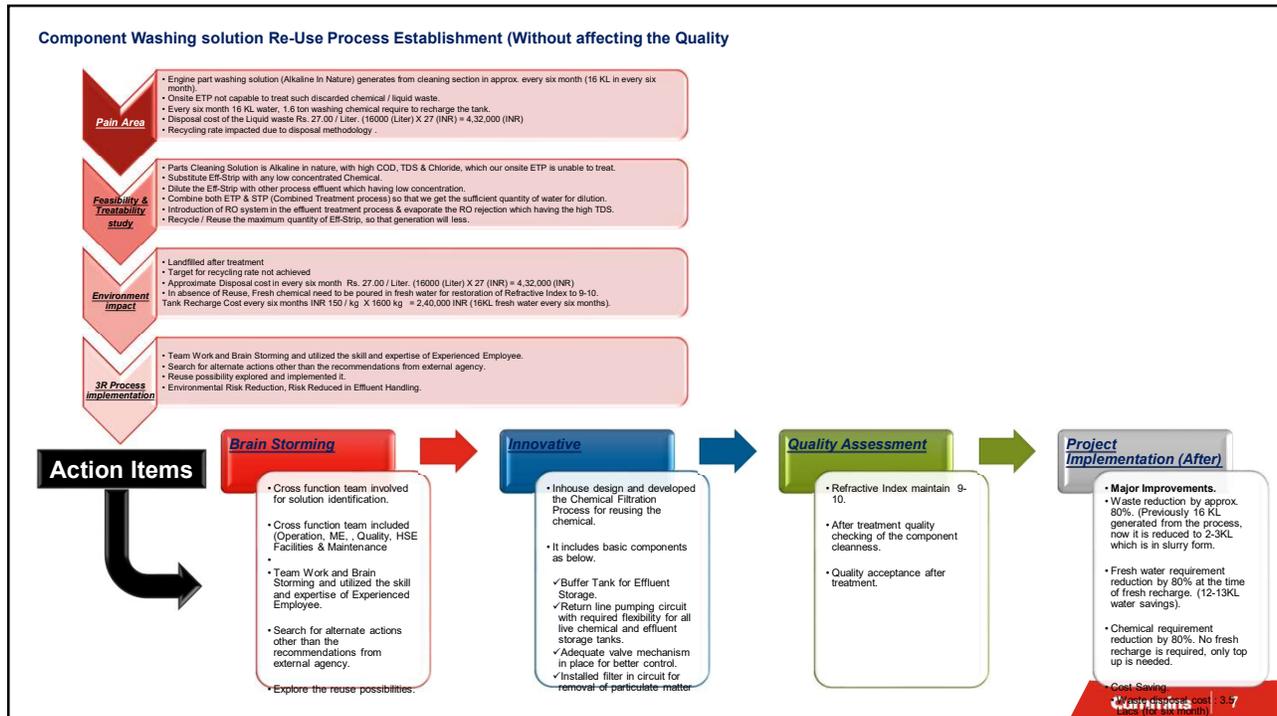
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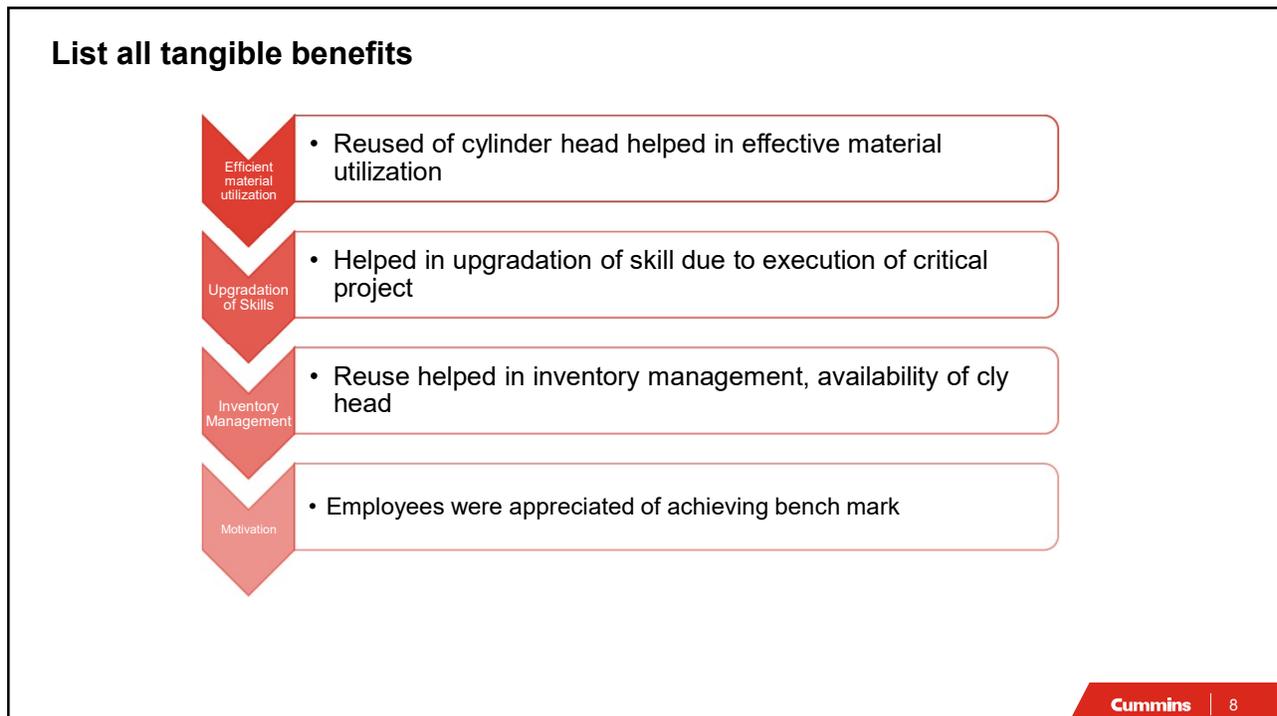
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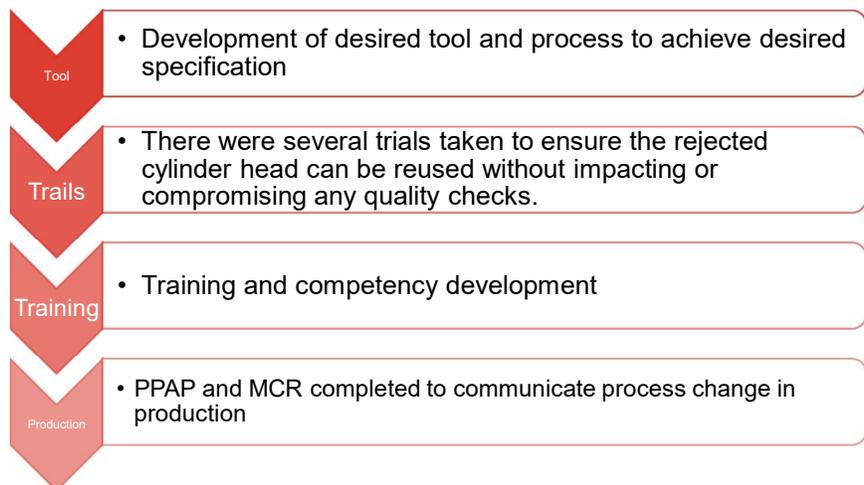
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List Intangible Benefits



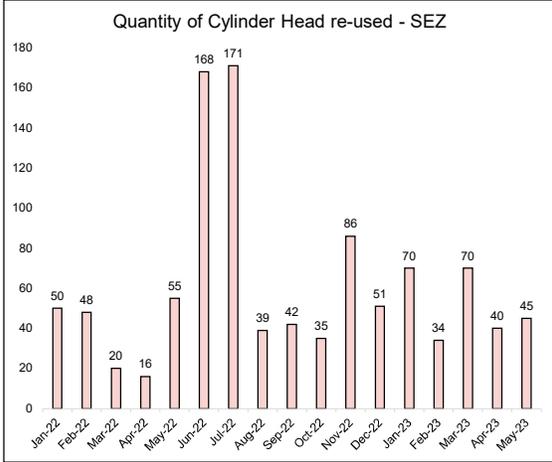
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List Challenges Faced

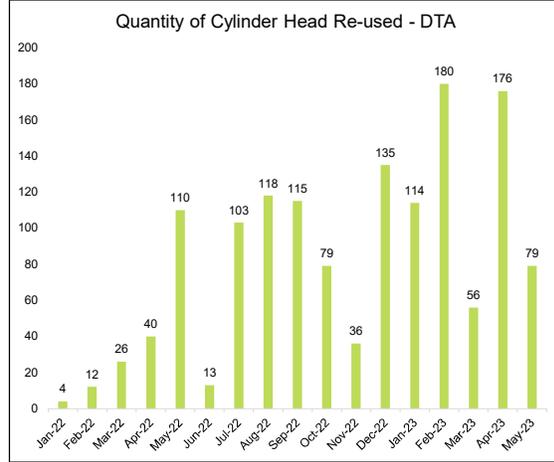


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Resources Conserved and Horizontal Deployment



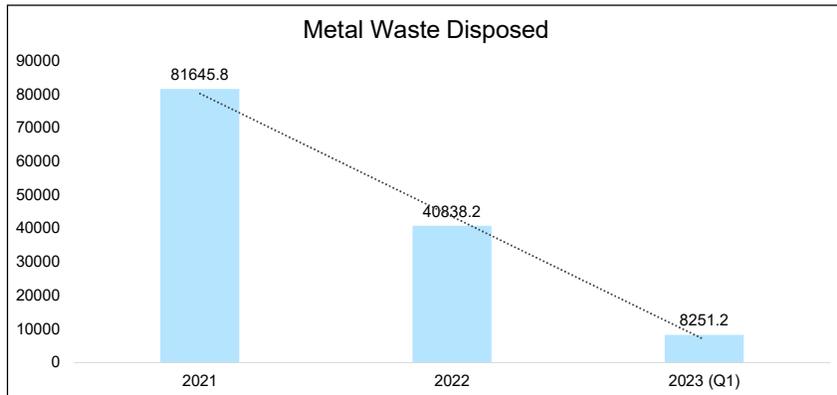
36.4 MT Material Reused /Saved at SEZ Plant



35 MT Material Reused /Saved at DTA Plant

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Metal Waste Disposal Trend



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Achieving national benchmarks/Standards

Benchmarked this micromachining process in the remanufacturing standards where other remanufacturing plants can implement the same when similar issue arises.

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Priority plans on fast track for +1 year and +2 year, including resource requirement

QST 30	<ul style="list-style-type: none"> Defect - Exhaust face gasket impression Salvage - Welding
VT head	<ul style="list-style-type: none"> Defect - Exhaust face gasket impression Salvage - Welding
KKV Head	<ul style="list-style-type: none"> Defect – Below DDL Specification Salvage – Thermal spray
KKV Head	<ul style="list-style-type: none"> Defect – Side expansion plug bore pitting and damage Salvage – Threaded plug
Plunger Coating	<ul style="list-style-type: none"> Defect – Coating wear out, taper Salvage – Plunger de-coating & coating
Injector Adaptor & Retainer	<ul style="list-style-type: none"> Defect – Pitting in Adaptor & Retainer Salvage – Visual inspection with engine test & Performance

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Top Ten Best Practices

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Waste Management



Zero Waste Disposal

100% recycling of waste



Environmentally friendly processes

Burn-off process instead of chemical cleaning process



Returnable packaging

Returnable skids, reuse of packaging material

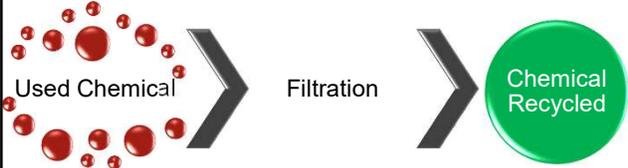


Sustainable materials

Biodegradable chemicals



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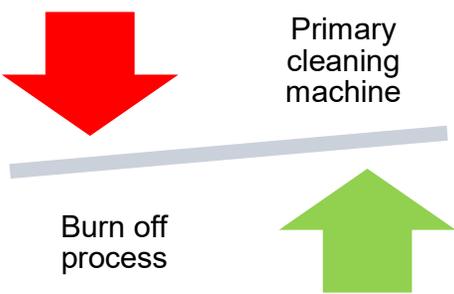
Elimination of primary chemical cleaning machine

Chemical cleaning replaced with burn off process leading to significant amount of chemical reduction

Recirculation of chemical for cleaning

More than 50% of chemical recirculated after introducing a filtration unit.

Fresh chemical consumption and waste chemical disposal drastically reduced.



Cummins | 17

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Water Conservation

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Water Neutral
1: 13 water generation for communities as compared to water used for the plant
- 

Water reduction
Waterless urinals
Low flow faucets
- 

Water recycling
Component cleaning
- 

Rainwater harvesting
Groundwater recharge
Reuse for domestic purpose



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Green Supply Chain



Supplier & vendor management

i-supplier portal
Supplier conference



Green procurement

Cardboard made from recycled material
Recycled plastic packaging
EPR



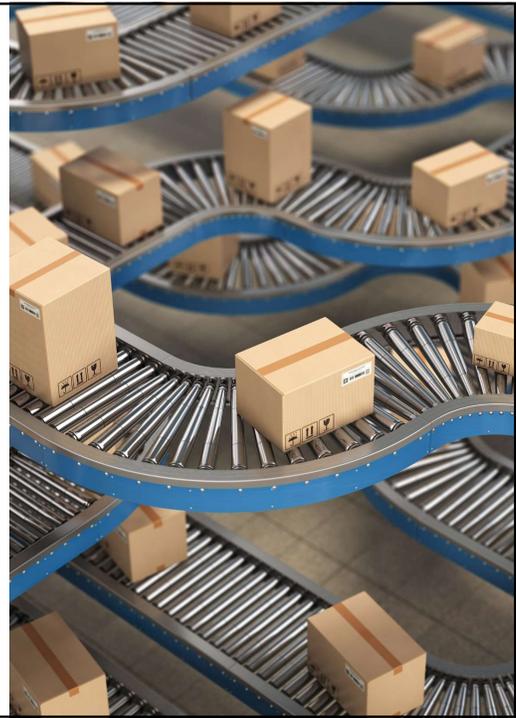
Milk runs

Transportation management system
Local supplier identification



Returnable packaging

Build to ship to packaging
Returnable skids



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Q+A

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