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ARJAS at Glance

Company Mission, Vision & Values

OUR COMPANY MISSION

TO BE A LEADING SPECIAL STEEL PRODUCER

in India and be a benchmark for supply chain solutions to our customers

OUR COMPANY VISION

TO CREATE VALUE

for all our stakeholders by operating our steel business, in a sustainable manner

OUR COMPANY VALUES

Be the **CUSTOMER's** choice

SAFETY first

EMPLOYEE engagement with Respect

Achieve **EXCELLENCE** with **SIMPLICITY**

RESULTS Orientation

INTEGRITY always

SUSTAINABLE practices

Plant Location

Strategic Location

- Plant is 250 km from Hospet/Bellary region which is the source of iron ore which comes in by railway rakes
- Coking coal is imported and comes in through Krishnapatnam and Ennore ports (approx. 300 km)
- The plant is located on the main trunk line between Chennai and Mumbai and the plant has its own railway siding

Plant Address: Jambhadasa Village, Tadipatri Mandal, Anantapur District, Andhra Pradesh - 515411

Cultural Attributes

The kind of company we aspire Arjas Steel to be

- OPENESS**
Accept that we don't know everything. Seek advice freely and share your ideas and knowledge freely.
- LEADERS DEVELOP LEADERS**
Devote time to develop team and your immediate direct reports
- EMPOWERMENT WITH ACCOUNTABILITY**
Empower employees but with that responsibility comes accountability.
- SIMPLICITY AND AUSTERITY**
Keep things, processes simple. Do things with a sense of ownership.

Arjas Steel in Numbers

PRODUCTION YEARLY

SSiQ round bars, hexagons and heat treated bars and bright bars

260,000 TONS

ENGAGED EMPLOYEES

1600 engaged employees with over 60% from Andhra Pradesh

CERTIFICATIONS

ISO 9001, ISO 14001, ISO 18001, ISO 50001, ATF 16949, ISO/IEC 17025

SHARED VALUES

CERTIFIED

NEW APPLICATIONS SERVED

133 Steel developed for specific applications

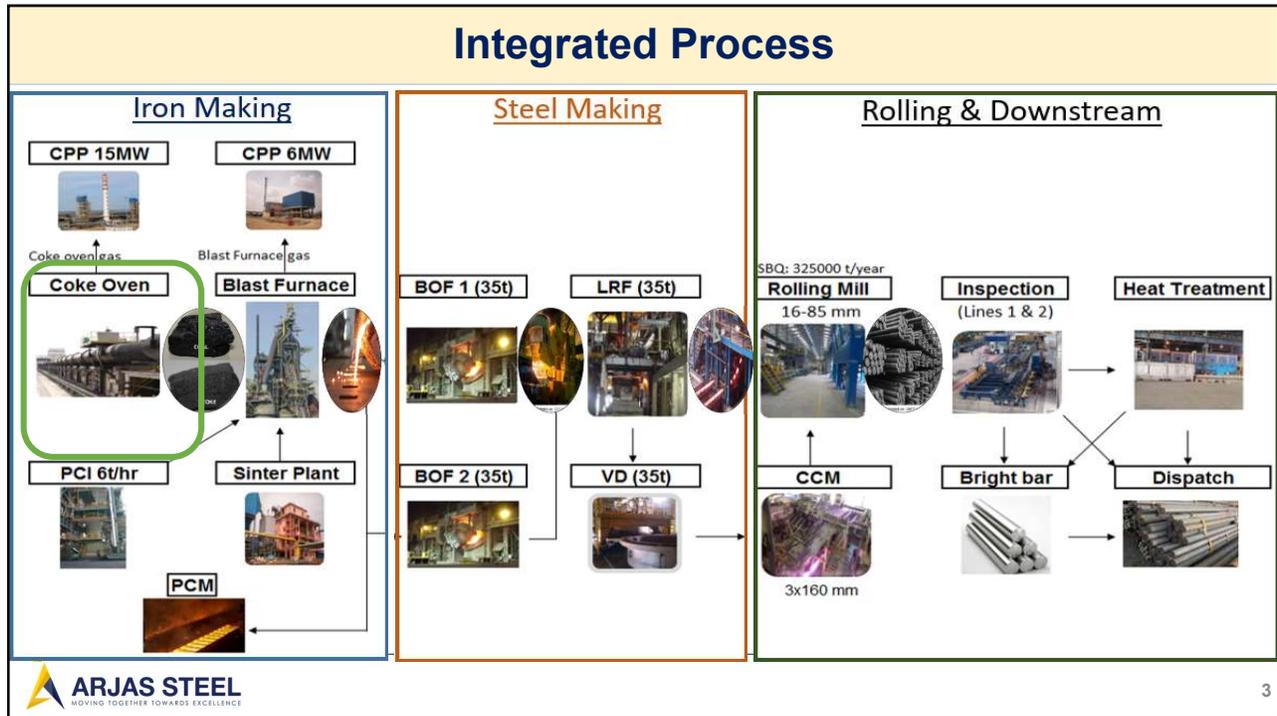
CREDIT RATING

BBB+

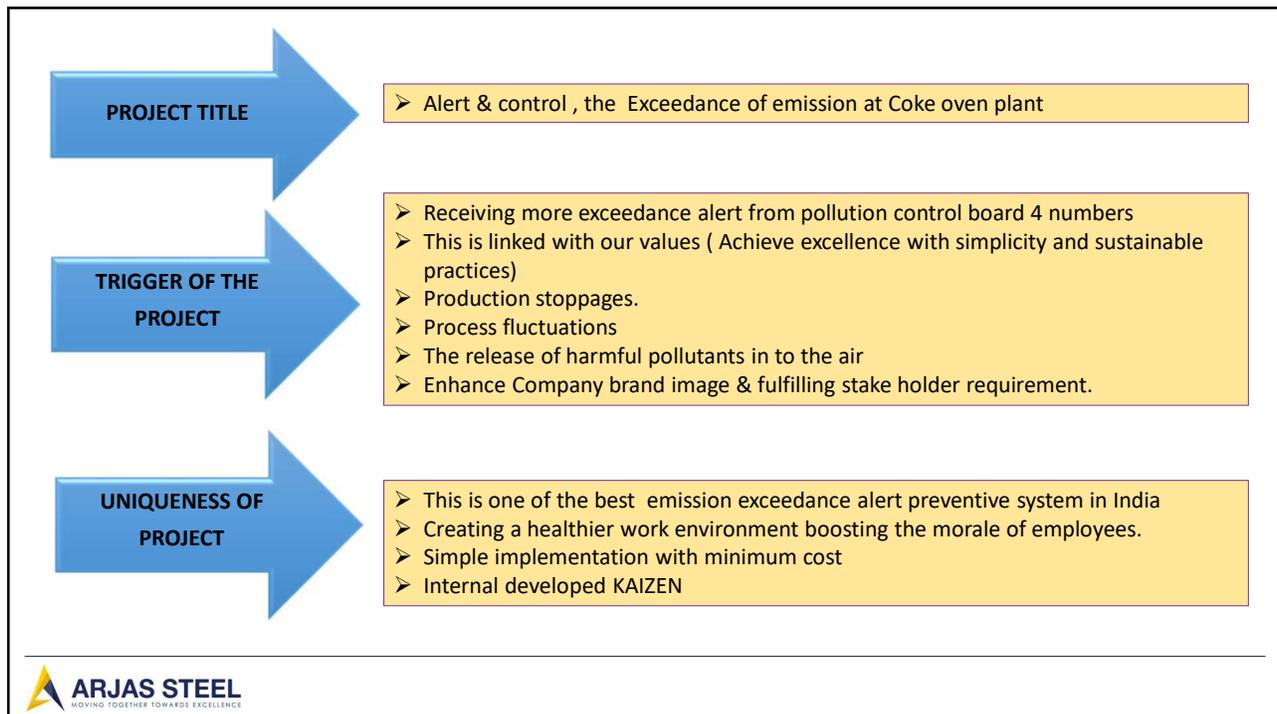
SYSTEMS

Strong SS, Kaizen and process controls to ensure traceability, root cause determination and problem solving

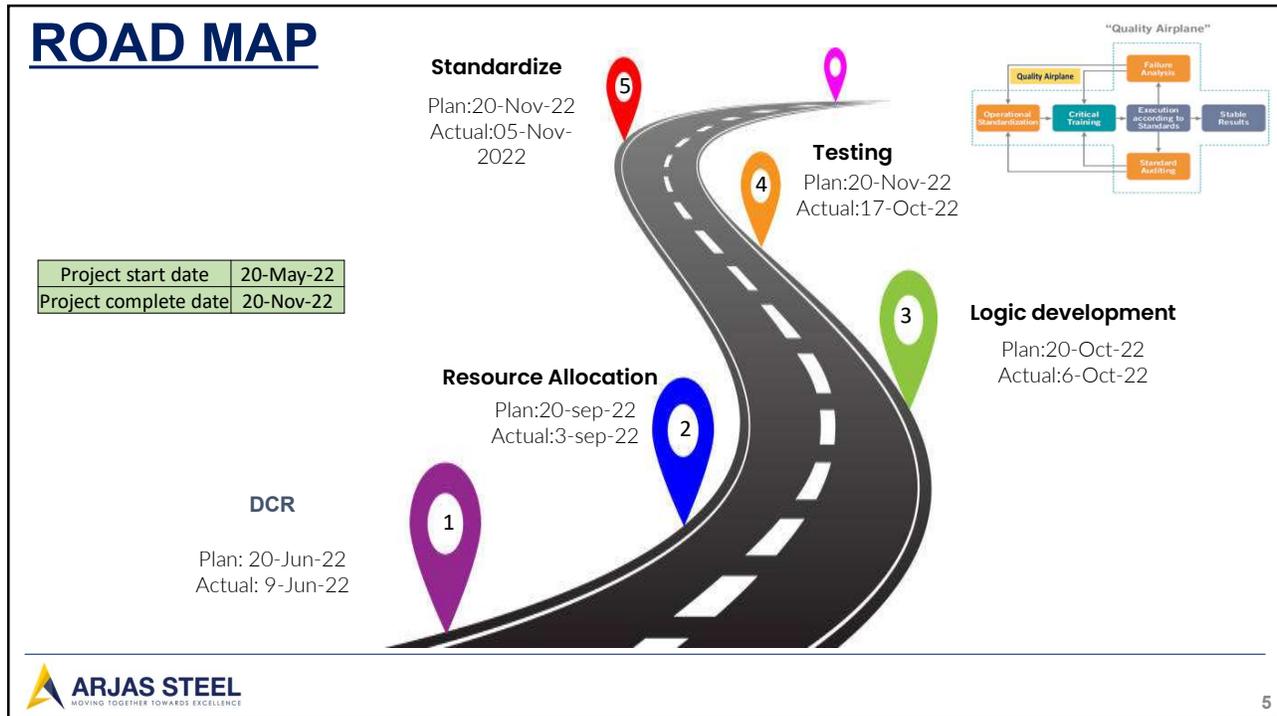
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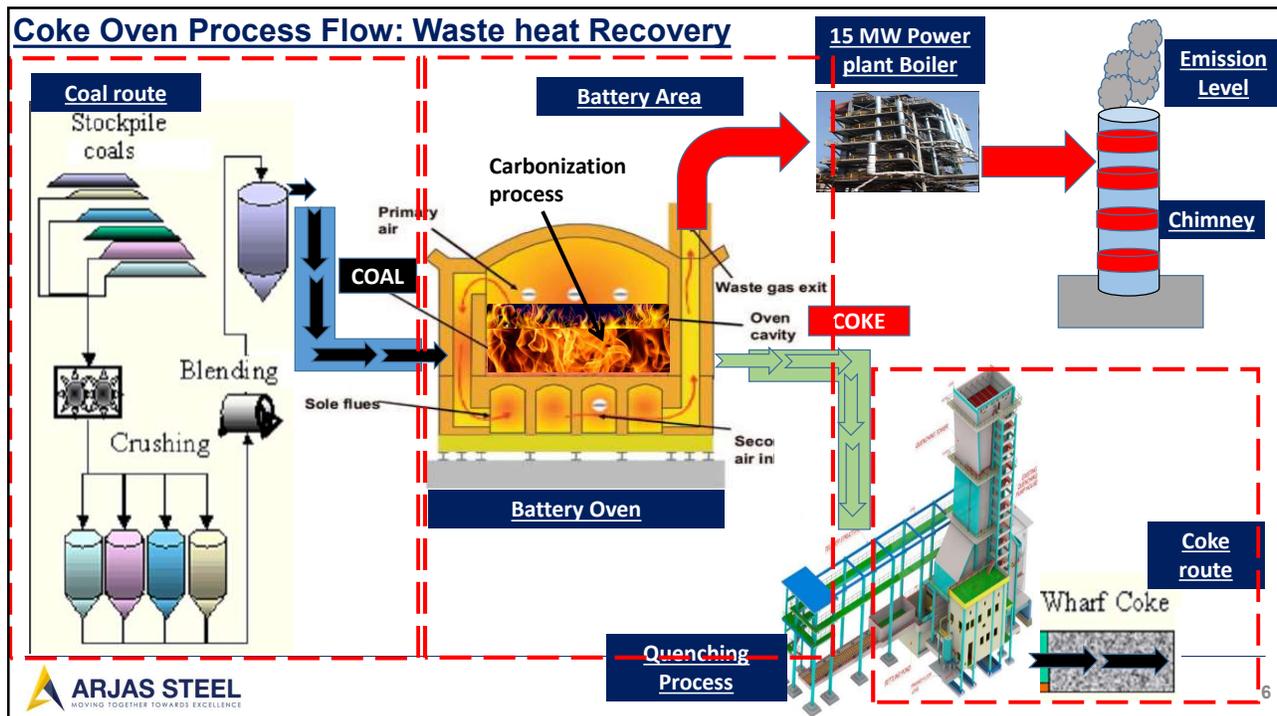
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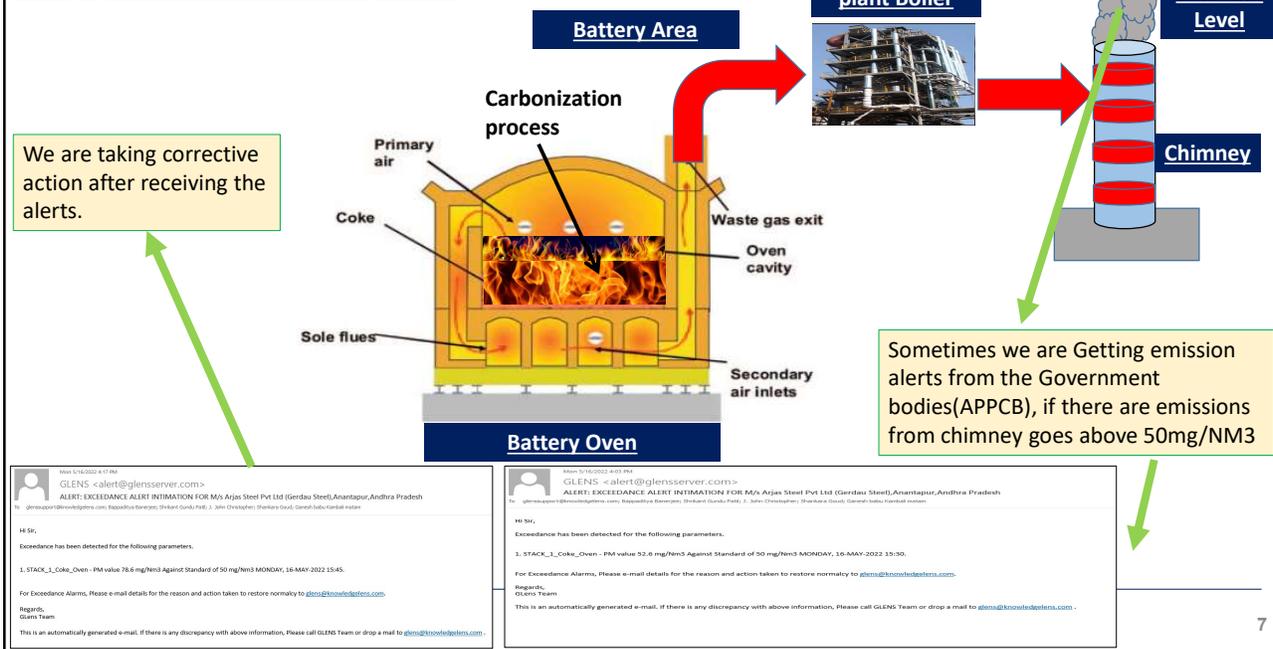


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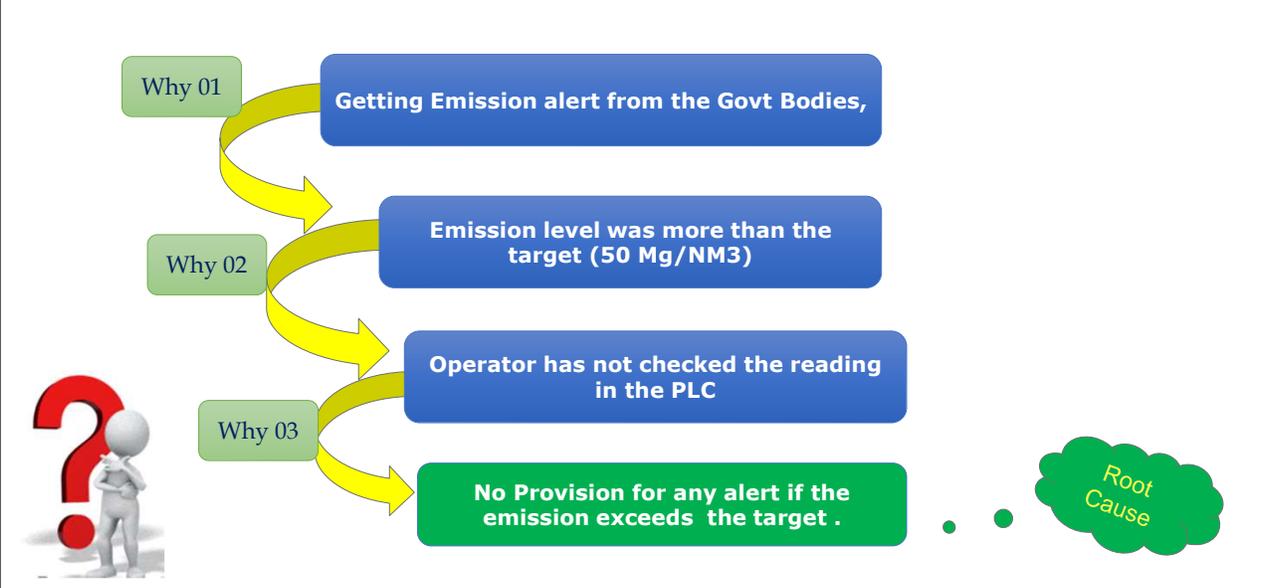
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Trigger Of the Project:



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Route Cause analysis:



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Brain Storming Result:

Option 1 – Providing the alert pop up in the scada



Operator attention will not move towards pop up in scada.

Option 2 – Imparting training to all the operator to monitor the SCADA continuously



This is not a foolproof system

Option 3 – Additional manpower need to be keep for monitoring

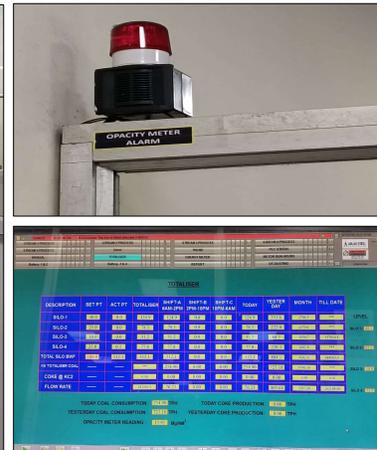
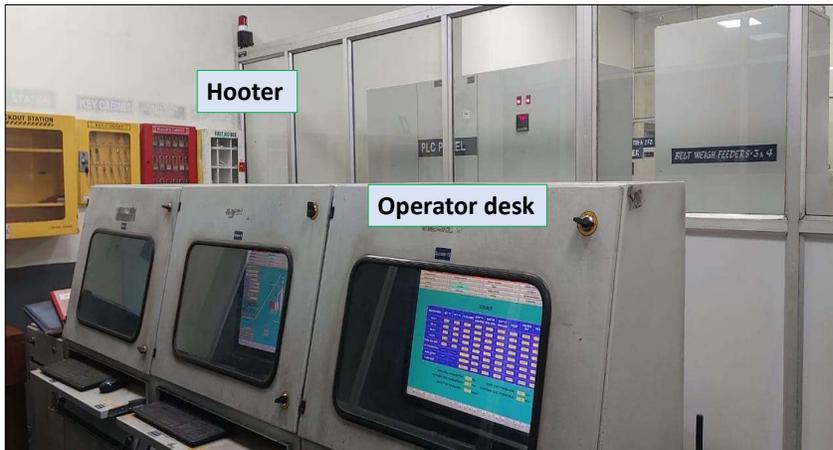


Again this will not be a foolproof system

Option 4 - Providing the hooter arrangemnet in the control room to alert the Operator.

Project Details:

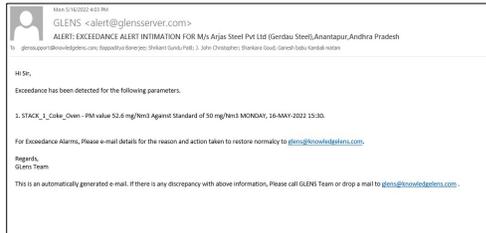
Installed a hooter in the control room to alert the operator when the emissions form the chimney exceeds 40 Mg /Nm³)



Project : Installation of Hooter & trail run

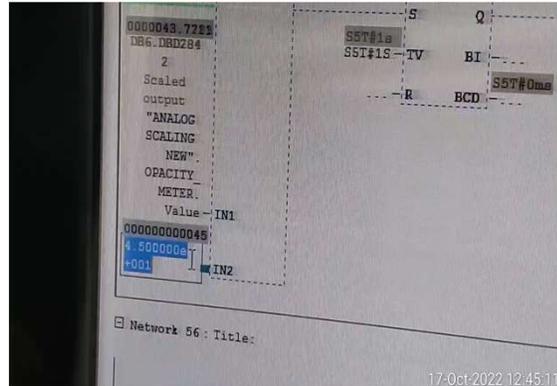
Before

- Sometimes we are Getting emission alerts from the Government bodies(APPCB), if there are emissions from chimney goes above 50mg/NM3
- Legal issues will be there from the Government bodies(APPCB).
- We are taking corrective action after receiving the alerts



After

- Emission is with in the limit
- Alerts will be eliminated from the legal bodies(APPCB).



Project :Result & Benefits

Title: Providing hooter in the control room to alert the operator when the emissions form the chimney exceeds (40 Mg /Nm3)		<table border="1"> <tr> <td>Dept.</td> <td>Coke oven</td> <td>Sl.no:</td> </tr> <tr> <td>Sub area</td> <td>Battery Process</td> <td>2</td> </tr> <tr> <td rowspan="2">Category</td> <td>Control</td> <td></td> </tr> <tr> <td>Alarm</td> <td></td> </tr> <tr> <td></td> <td>Shutdown</td> <td></td> </tr> </table>	Dept.	Coke oven	Sl.no:	Sub area	Battery Process	2	Category	Control		Alarm			Shutdown	
Dept.	Coke oven	Sl.no:														
Sub area	Battery Process	2														
Category	Control															
	Alarm															
	Shutdown															
Brief Explanation Before Implementation: <ul style="list-style-type: none"> ➤ Getting emission alerts from the Consultancy /Government bodies(APPCB) if there are emissions from chimney . ➤ Legal issues will be there from the Government bodies(APPCB). 	Brief Explanation After Implementation: <ul style="list-style-type: none"> ➤ We will take corrective action before receiving the notification from APPCB (Corrective actions such as checking the instruments & process deviations) 															
Before Photo	After - Photo	No of times Alert Received <table border="1"> <tr> <th>Before</th> <th>After</th> </tr> <tr> <td>3</td> <td>0</td> </tr> </table>	Before	After	3	0										
Before	After															
3	0															
Root Cause Analysis (Why Why): <ul style="list-style-type: none"> Why 1: Getting Emission alert from the consultancy/Govt bodies) Why 2: Emission level was more than the target (50 Mg/NM3) Why 3: Operator has not checked the reading in the PLC Why 4: No Provision for any alert if the emissions exceeds the target 		Results & Benefits: <ol style="list-style-type: none"> 1.Emission notification are eliminated from APPCB. 2. Legal Issues will be eliminated from the legal bodies(APPCB). 														
		Team: <ol style="list-style-type: none"> 1. Sayyad vatee (101912) 2.Suresh Kuche(101749) 3. Vijaya Vardhan Raju (101994) 4. Udaykiran (100305) 5.Ganesh (101908) 														

Tangible Benefits



- Maintaining emission level below 50 mg/NM3 (standard Norms).
- Compliance with regulations
- The release of harmful pollutants in to the air is minimized



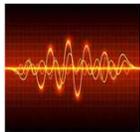
- Sustainable development and corporate social responsibility.



- Emission notification are eliminated from APPCB & CPCB



- Productivity enhanced
- Reduction of process delay (240 min/month)



- Process Fluctuations are Minimised.

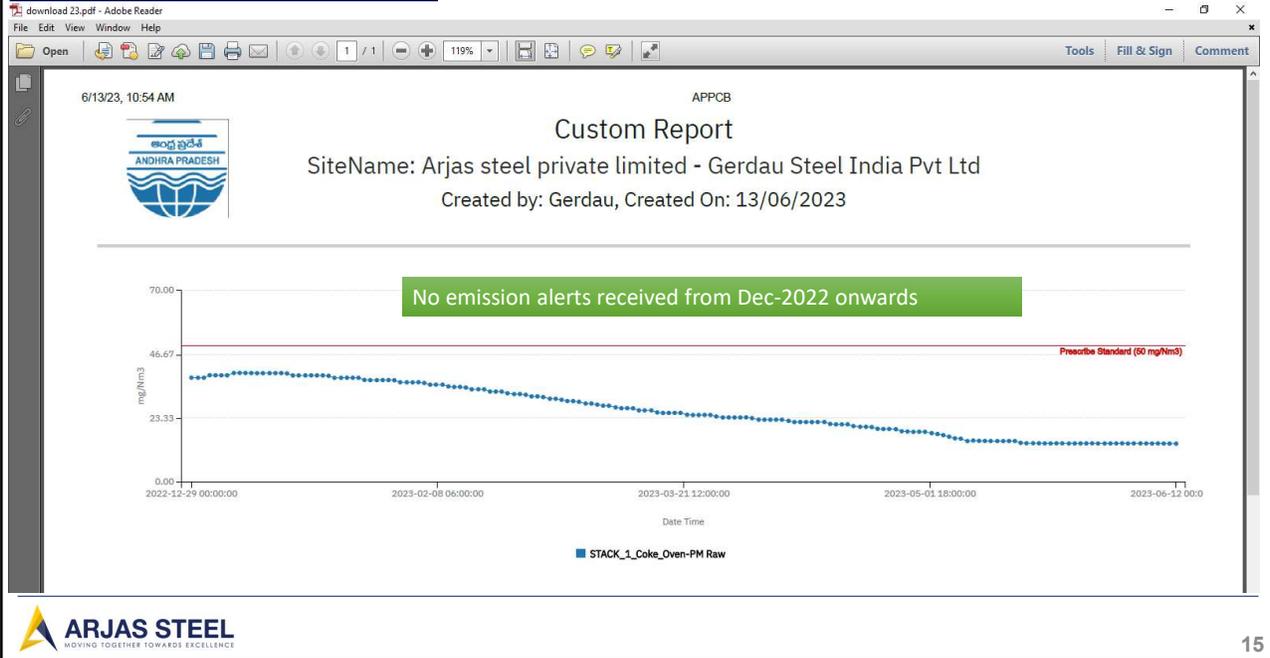


- Cost benefit of 7.2 L (considering 6000 profit margin)

Solution: Trend of SPM level



Solution: trend result



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Intangible Benefits



- Minimising the Visible emissions from Stack
- Exposure of dust levels were reduced.



- Employee morale improved.
- Improved Skills Level



- Enhance Company brand image & fulfilling customer requirement.
- Social acceptance and community relations improved.



- Ease of operation & Maintenance
- Avoided unplanned stoppages

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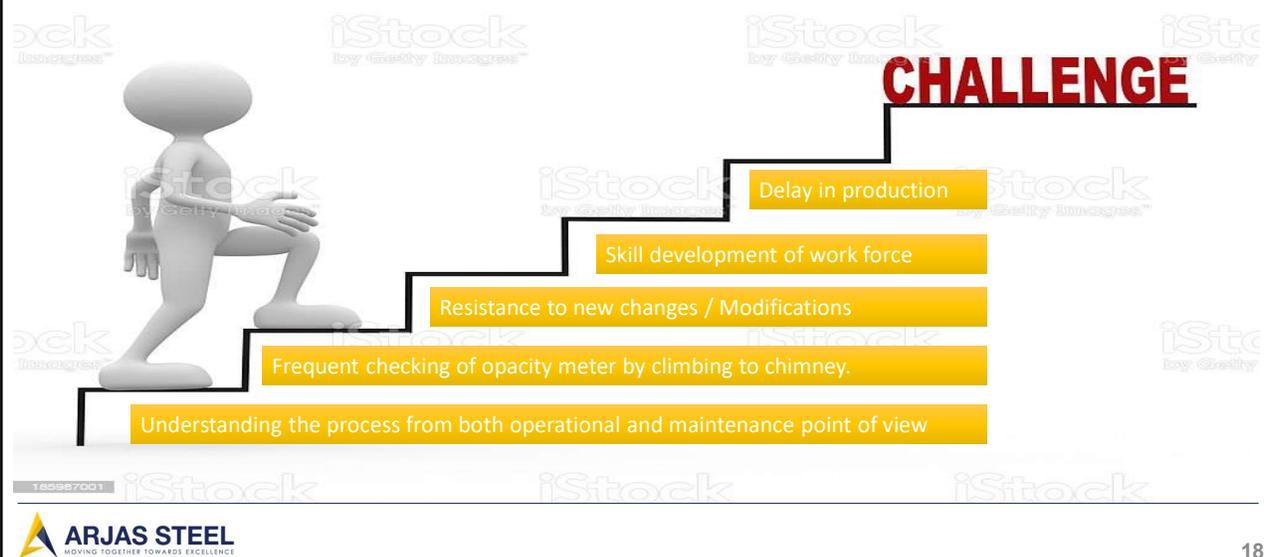
Replication of project with in Sector

➤ Horizontal deployment Within our Plant

Sr No	Department	Target date	Status	No of Stacks
1	Coke oven	20-Nov-22	Completed	1
2	Sinter Plant	20-Jul-23	In progress	3
3	Rolling Mill	20-Aug-23	In progress	1
4	Blast Furnace	20-Jul-23	In progress	1
5	SMS	20-Aug-23	In progress	2

➤ It can be replicated in any sectors in India and globe

Challenges Faced



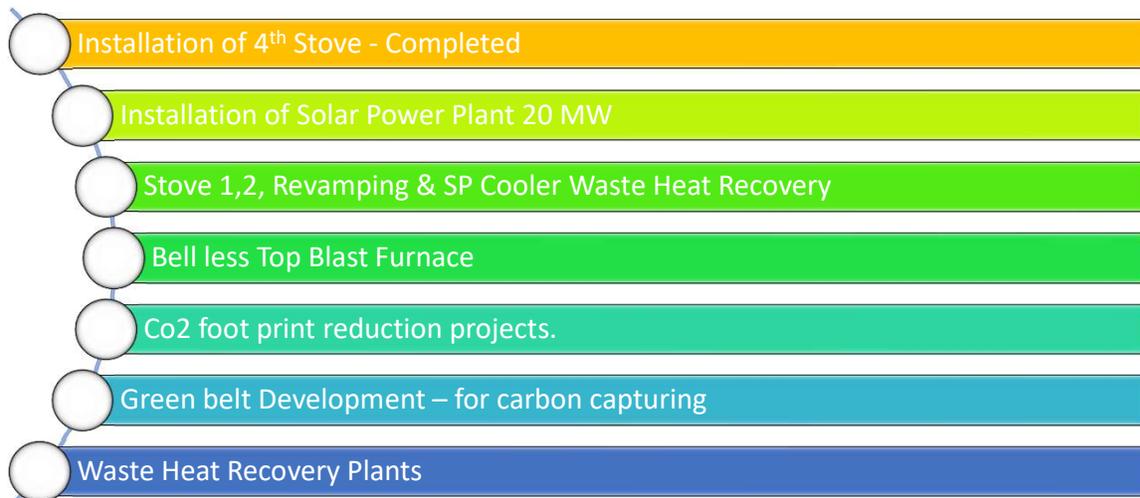
Achieving national benchmark / standards

1. No exceedance alerts from the APPCB & CPCB at Coke oven Plant



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Priority plans on fast track for 1 year & 2 year



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Best Practices

- Green India mission : ARJAS has planted ~83000 plants across the plant premises
- Continuous Air quality monitoring and connected to PCB server.
- Zero Liquid Effluent Discharged system implemented
- APCE Monthly inspection
- One person one spillage system developed.
- Monthly Environment progress meeting with Management & monthly audits .
- Implemented Good Waste management & maintained by M/S Ramky .

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THANK YOU

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