



www.coreaxisglobal.com 

CORE AXIS GLOBAL SOLUTIONS

"Reliable. Renewable. Worldwide"



Group of Companies

WELCOME TO OUR COMPANY

Core Axis Global Solutions is an ISO 9001-2015 Certified Company, established by Group of Professional Engineers having Extensive Experience in Boilers, Power Plants and Air Pollution Control Equipment, having expertise in the field of Boiler & Power Plant Efficiency Improvement, Sustainable Operation, Trouble Shooting, Fuel Conversion and Capacity Enhancement.



Visit Our Website

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CORE AXIS AND ITS ASSOCIATE COMPANIES –CREDENTIALS & STRENGTHS



Certifications

Boiler Manufacturer, Class 1 – Water Tube Boiler upto 125 Kg/Cm² (g)
Boiler / Economiser Repairer, Class 1 – Pressure upto 125 Kg/Cm² (g)
Economiser Manufacturer, Class 1 – Pressure upto 125 Kg/Cm² (g)
Pipe Fabricator, Class 1 – Pressure upto 125 Kg/Cm² (g)
Pressure Part Manufacturer – Special Class Pressure > 125 Kg/Cm² (g)
Pressure Vessel Manufacturer – Special Class Pressure > 125 Kg/Cm² (g)
Plates & Flanges, Upto 1000 NB



ASME 'S'



ASME 'U'



ASME 'R'



IBR (Indian Boiler Regulation)



ISO 14001 : 2015



ISO 9001 : 2015



OHSAS 45001 : 2018



Infrastructure

1,00,000 Sq. Feet Land
35,000 Sq. Feet Covered Shed
200 HP Power/200 KVA DG Backup
16 MT EOT Cranes
14 MT Hydra Cranes 3 Nos
SMAW / TIG / MIG / ARC Welding Facilities
Multiple Tube Bending Machines
Multiple Welding Machines
Multiple Radial Drill Machines
Multiple Conventional Lathe Machines
Multiple CNC/VMC Machines
Multiple Bandsaw Machines
Equipped with many more facilities for Manufacturing



Accomplishments

700+ Customers Across India and Abroad
30,000+ Tons of General and Non Pressure Parts Fabrication Multiple Boilers Supplied of Various Capacity
Multiple Steam & Water Drums and Shells
600+ Headers
200+ Waterwall Panels
80,000+ Bed Coils and Bed Super Heaters
10,000+ Economiser Coils
30,000+ Bank Tubes
5,000+ Superheater Coils
1,00,000+ Boiler Bends
Multiple Nos of APH Assembly, Pressure Vessels & Tanks Multiple Nos of Heat Exchangers
Multiple Nos of Sparger Headers Assembly
Multiple Nos of Expansion Joints & Dampers
Various Pressure and Non Pressure Parts Spares



OUR INFRASTRUCTURE

The Head Office, serving as our strategic planning and engineering management hub, is located in Delhi. This facility oversees the execution of all our marketing, design, purchasing, and project management activities.



In Pune, our facility is equipped to handle the production of pressure parts with a minimum capacity of 5000 MT per year. Additionally, we manage the production of non-pressure parts with value-added equipment, boasting a minimum capacity of 3000 MT per year. Both capacities can be scaled upwards, to meet specific needs.



**AKAYA
ENGINEERING LLP**
(A Joint venture with **DEHU** Group)

**Upcoming Manufacturing Unit in
Muzaffarnagar, Uttar Pradesh**

CORE AXIS AND IT'S ASSOCIATE COMPANIES OFFERING



POWER PLANTS

WITH OVER 20 YEARS OF OPERATIONAL EXPERIENCE AND MORE THAN 200 PROJECTS IMPLEMENTED, CORE AXIS IS A PLAYER FOR EXCELLENCE IN THE PROCESS AND POWER INDUSTRY PROVIDING SOLUTIONS TILL 15 MW POWER PLANTS

SPARES

COREAXIS OFFER AN EXTENSIVE SELECTION OF SPARE PARTS FOR STEAM BOILERS, WE TAKE PRIDE IN SATISFYING OUR CUSTOMERS. OUR PRICING, DELIVERY TIMING, PRODUCT QUALITY AIMS TO ACCOMMODATE VARIOUS BUDGETS WHILE MAINTAINING HIGH-QUALITY STANDARDS. OUR SPARE PARTS ARE RENOWNED FOR THEIR PRECISION AND DURABILITY.

STEAM BOILER RANGE

CORE AXIS WITH ITS RICH HANDS ON EXPERIENCE OF MORE THAN TWO DECADES IN BIOMASS / FOSSIL FUELS COMBUSTION TECHNOLOGIES IN ASSOCIATION WITH TECHNICAL EXPERTS WHO HAVE WORKED WITH BIG INSTITUTIONS / COMPANIES HAVE JOINTLY DESIGNED AND DEVELOPED OUR SPECIALIZED STEAM BOILERS

AIR POLLUTION CONTROL EQUIPMENTS

CORE AXIS PROVIDES A COMPREHENSIVE RANGE OF POLLUTION CONTROL EQUIPMENT NECESSARY FOR COMPLIANCE WITH VARIOUS POLLUTION CONTROL STANDARDS AND INDUSTRIES LIKE STEEL, SUGAR, TEXTILE, PHARMACEUTICAL, AGRO, OIL & GAS

CORE AXIS WASTE TO ENERGY POWER PLANTS SOLUTIONS



Waste to energy (WTE) is an innovative process that converts non-recyclable waste materials into usable forms of energy, such as electricity, heat, or fuel. This approach not only addresses waste management challenges but also contributes to sustainable energy solutions

Why Core Axis For Waste (Municipal Waste) To Energy Plants ?

- With years of expertise in the field, our company has mastered the art and science of firing Waste in Boilers, Our comprehensive approach has led to significant improvements in efficiency, sustainability, and economic performance for our clients.
- Core Axis can cater to customer variable requirements like New Boilers, Modifications, Engineering Services
- With more than 7000 Tons of **Municipal Solid Waste** Burning in our Boiler Daily. We have completed numerous successful New and Retrofitting projects across various industries, helping our clients transition to Waste with minimal disruption and maximum benefits.
- India's First Dual Combustion Technology on AFBC + RG Combustion system firing Waste.

Environmental Benefits:

Waste Reduction: Helps divert waste from landfills.
Carbon Footprint: Lower carbon emissions compared to conventional fossil fuels.
Resource Efficiency: Utilizes waste materials that would otherwise be disposed of

Economic Advantages:

Cost Savings: Cheaper than traditional fossil fuels.
Waste Management: Provides a solution for managing municipal and industrial waste.

Regulatory and Policy Support:

Many governments support RDF use through incentives and regulations to promote renewable energy and sustainable waste management.

CORE AXIS PROVIDES ONE STOP SOLUTION FOR WASTE TO ENERGY PLANTS....

WASTE TO ENERGY PLANTS



**PRE-PROCESSING /
SEGREGATION OF FUEL**

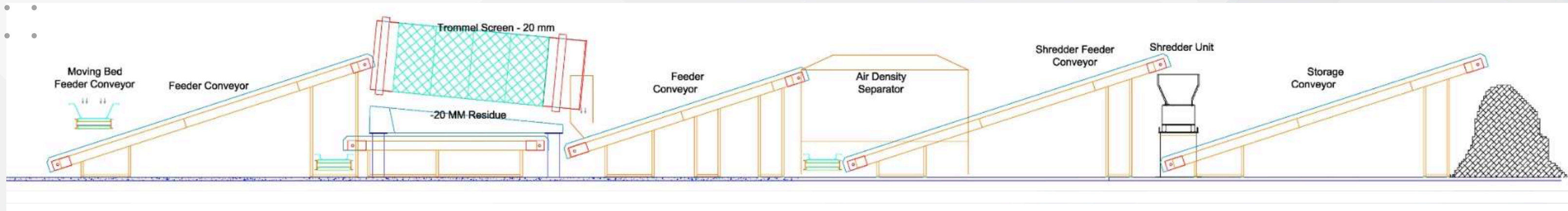


POWER PLANT



**AIR POLLUTION
CONTROL EQUIPMENT**

PRE PROCESSING / SEGREGATION OF FUEL



Processing of Municipal Solid Waste to Formation of Refuse-Derived Fuel (RDF) involves several steps to convert municipal solid waste (MSW) and other waste streams into a suitable fuel for combustion in boilers or other thermal systems. Effective pre-processing ensures that RDF has consistent quality, appropriate calorific value, and is free from contaminants that could harm combustion systems or produce harmful emissions

Core Axis can Provide complete Pre-Processing / Preparation equipment like:

- MOVING BED FEEDER
- TROMMEL / DUSTER DRUM
- AIR DENSITY SEPERATOR
- SHREDDER



OUR PRESTIGIOUS PAPER MILL CLIENTS

GARG DUPLEX & PAPER MILL PVT. LTD.

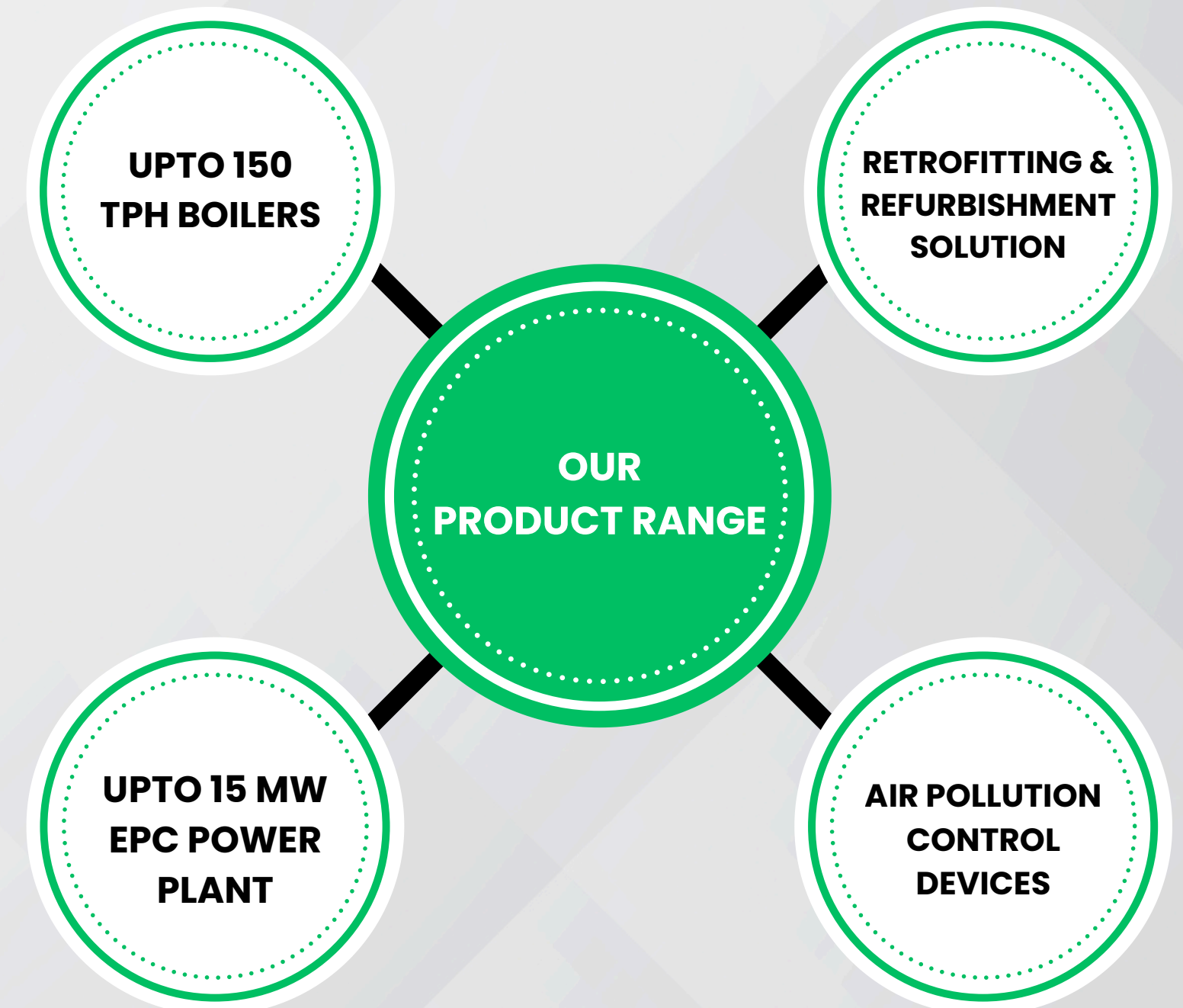
NEW BONANZA INDIA LTD

JANKI NEWSPRINT LTD

more than 40 Paper Mills.....

Products & Services

- Boilers
- Pressure Parts
- Non Pressure Parts
- Air Pollution Control Equipment
- Steam at Cost
- **Retrofitting & Renovation**
- Operation & Maintenance
- Modernization & Efficiency Improvement
- Fuel Conversion & Capacity Enhancement



COMPREHENSIVE SOLUTIONS FOR STEAM BOILERS

Core Axis draws on over two decades of extensive, hands-on experience with a diverse range of biomass and fossil fuels, including bagasse, wood chips, sawdust, coal, rice husk, and oil and gas combustion technologies Pan World. Collaborating with technical experts who have served prominent institutions and companies, we have jointly designed and developed our specialized steam boilers.

Core Axis has Successfully Met the Diverse Needs of Various Industries with Its Steam Boiler Solutions:

- **Sugar Industry**
- **Paper**
- **Steel**
- **Oil and Gas**
- **Chemical**
- **Textile**



AIR **POLLUTION** CONTROL EQUIPMENT

Controlling pollution in Waste firing is crucial to ensure compliance with environmental regulations and to minimize the environmental impact of RDF combustion. Effective pollution control strategies involve a combination of pre-combustion, combustion, and post-combustion measures to manage emissions of pollutants such as particulate matter (PM), sulfur oxides (SO_x), nitrogen oxides (NO_x), carbon monoxide (CO), dioxins, furans, heavy metals, and other toxic compounds.

Core Axis specializes in Providing comprehensive Solution considering different Regulations :

1) Particulate Matter Control

- Electrostatic Precipitators (ESP)
- Baghouse Filters
- Cyclone Separators

2) Sulfur Oxides (SO_x) Control

- Flue Gas Desulfurization (FGD)

3) Nitrogen Oxides (NO_x) Control

- Selective Non Catalytic Reduction (SNCR)

4) Activated Carbon and Lime Dosing System



**ELECTRO STATIC
PRECIPITATORS**



BAG FILTER



SCRUBBER

SPARES

Effective spare parts management serves as the cornerstone for ensuring the smooth and reliable operation of a plant, ultimately facilitating the achievement of designated production goals. Factors such as operational strategy, inventory control, and lead times are critical elements that warrant careful consideration in this process.

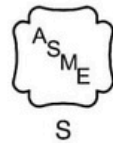
BOILER ADD-ON & SPARES

- Single Cyclone Dust Collector
- High Efficiency Cyclone
- Flue Gas Desulphurizer
- Water Bath Scrubber
- ESP
- Economisers
- Water Pre-heater
- Air Pre-heater
- Petcoke Refiring System
- Smart Panel (SCADA)
- Online TDS Control
- Steam Accumulator
- Super Heaters
- PRDS
- De-aerator
- Blow-down Recovery Vessel
- Blow-Down tank
- Sampling Coolers
- Feed Water Pumps
- Ash Handling System (Mech. & Pneumatic)





ACCREDITATION



CERTIFICATE OF AUTHORIZATION

The named company is authorized by The American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the ASME Single Certification Mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with the ASME Single Certification Mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

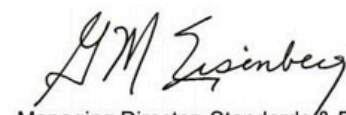
Dehu Engineering (India) Private Limited
Gat No.: 390, Dehu-Alandi Road,
Near Talawade IT Park Circle, Talawade
Pune, Maharashtra State 411062
India

SCOPE:

**Manufacture and assembly of power boilers at the above
location and field sites controlled by the above location**

AUTHORIZED: **June 16, 2023**
EXPIRES: **June 16, 2026**
CERTIFICATE NUMBER: **60879**


Board Chair, Conformity Assessment


Managing Director, Standards & Engineering Services



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COMPANY:

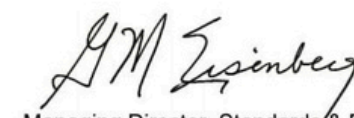
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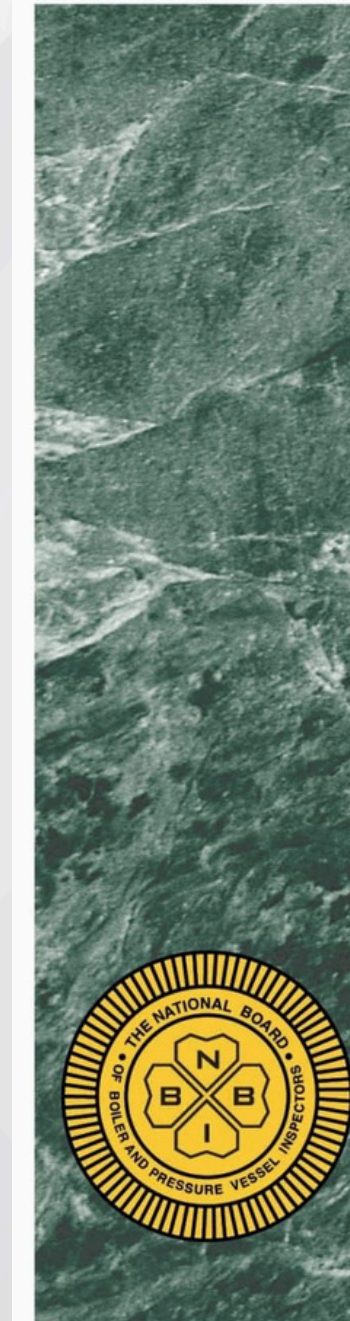
SCOPE:

**Manufacture of pressure vessels at the above location and field sites controlled
by the above location (This authorization does not cover impregnated graphite)**

AUTHORIZED: **June 16, 2023**
EXPIRES: **June 16, 2026**
CERTIFICATE NUMBER: **60882**


Board Chair, Conformity Assessment


Managing Director, Standards & Engineering Services



THE NATIONAL BOARD OF BOILER & PRESSURE VESSEL INSPECTORS

Certificate of Authorization



This is to certify that

Dehu Engineering (India) Private Limited
Gat No.: 390, Dehu-Alandi Road
Near Talawade IT Park Circle, Talawade
Pune, Maharashtra State 411062
India

Acceptable Abbreviation: DEIPL

*is authorized to use the R Symbol in accordance with the
provisions of the National Board Inspection Code and NB-415,
Accreditation of "R" Repair Organizations.*

All activities within the scope of this Authorization shall be
controlled by the above location.

The scope of this Authorization is limited to:

Metallic
Repairs and Alterations
At
Shop and Field Locations

Certification Number: 12244

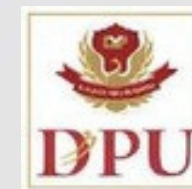
Issue Date: June 23, 2023

Expiration Date: June 16, 2026

Executive Director



A FEW OF OUR CUSTOMERS



and many more.....



**CORE AXIS
GLOBAL SOLUTIONS**

a part of **Dehu Group of Companies**



Thank You

For Your Attention

**You can
contact us at**



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+91- 78350 52921



www.coreaxisglobal.com

