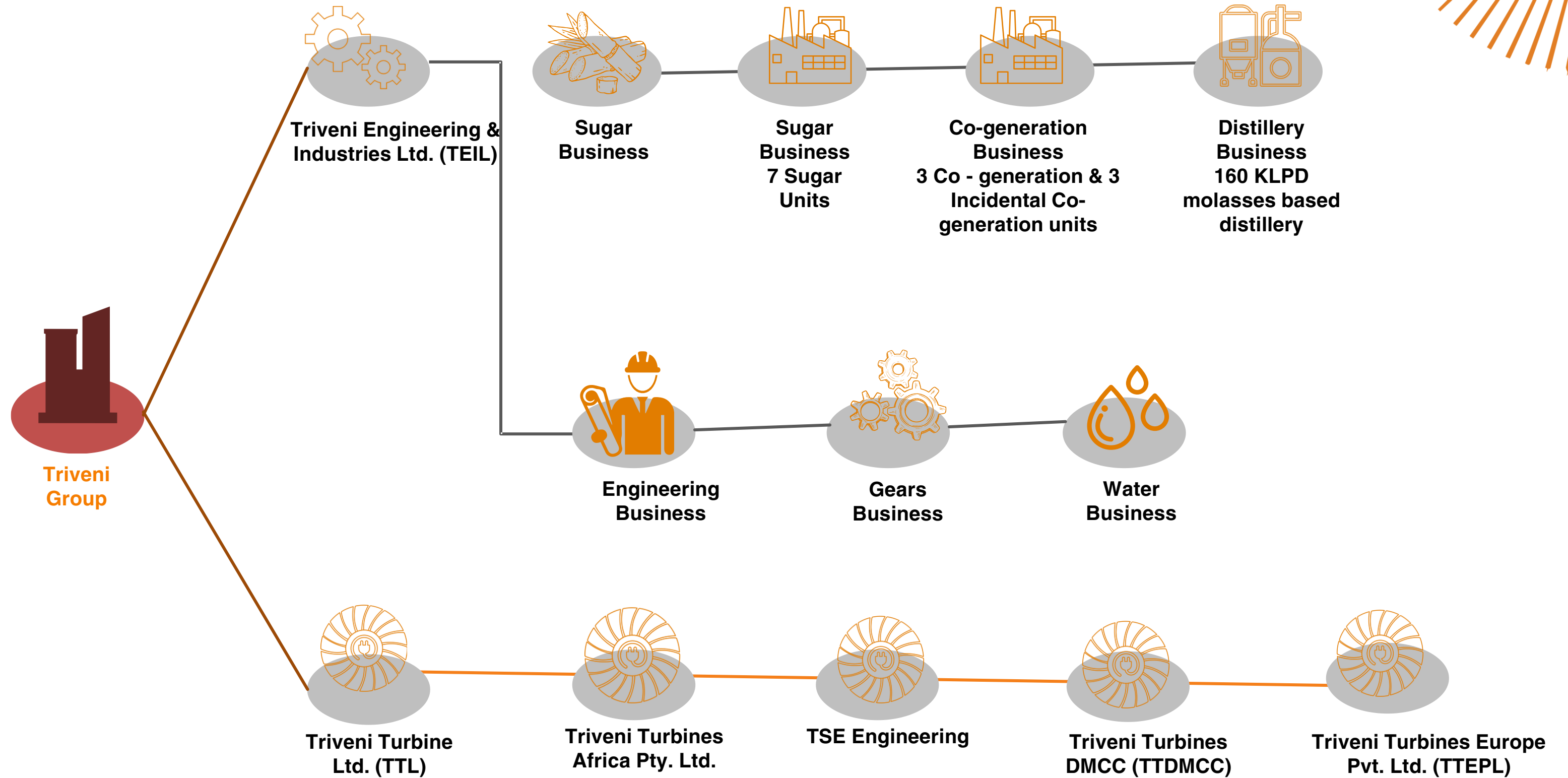


Parts Sales & services

Triveni Group Organization

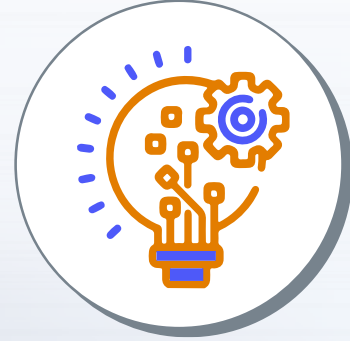


Triveni Turbine Ltd Fact sheet



50+ years

Of Excellence in
Industrial Steam
Turbine



16000+ MWe

Global Installed
Power Generation
Capacity



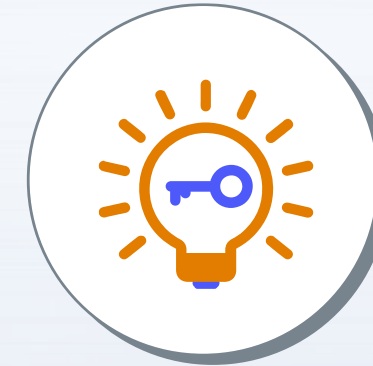
6000+

Global Steam turbine
Installation



20+

Industries Served



330+

Total Intellectual
Property Rights Filed



80+

Countries of presence

The global leader in steam turbine manufacturing, dominating the market with the world's largest capacity of up to 100MW, specializing in industrial and renewable power solutions, and maintaining a dominant 60% market share in India for the past decade.

Triveni Turbines Ltd. headquartered in Bengaluru for designs, supplies and services advanced technology steam turbines Upto 100 MW range for power generation applications globally

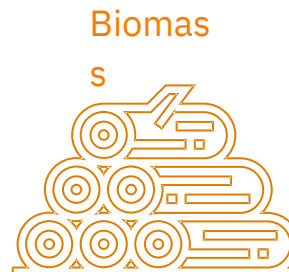
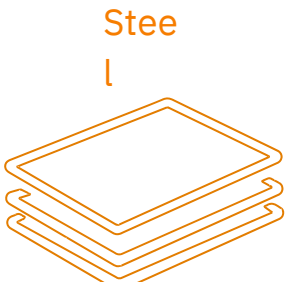
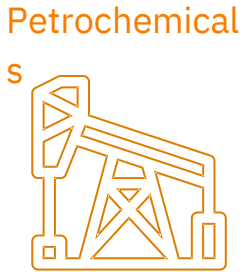
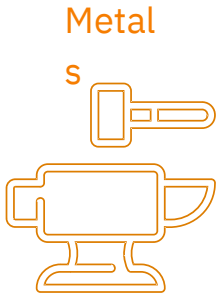
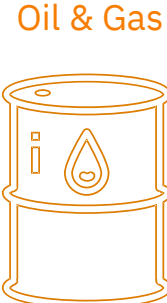
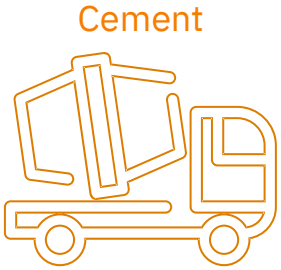
Turbine Blade Machining Centre



Manufacturing Bay View



Applications



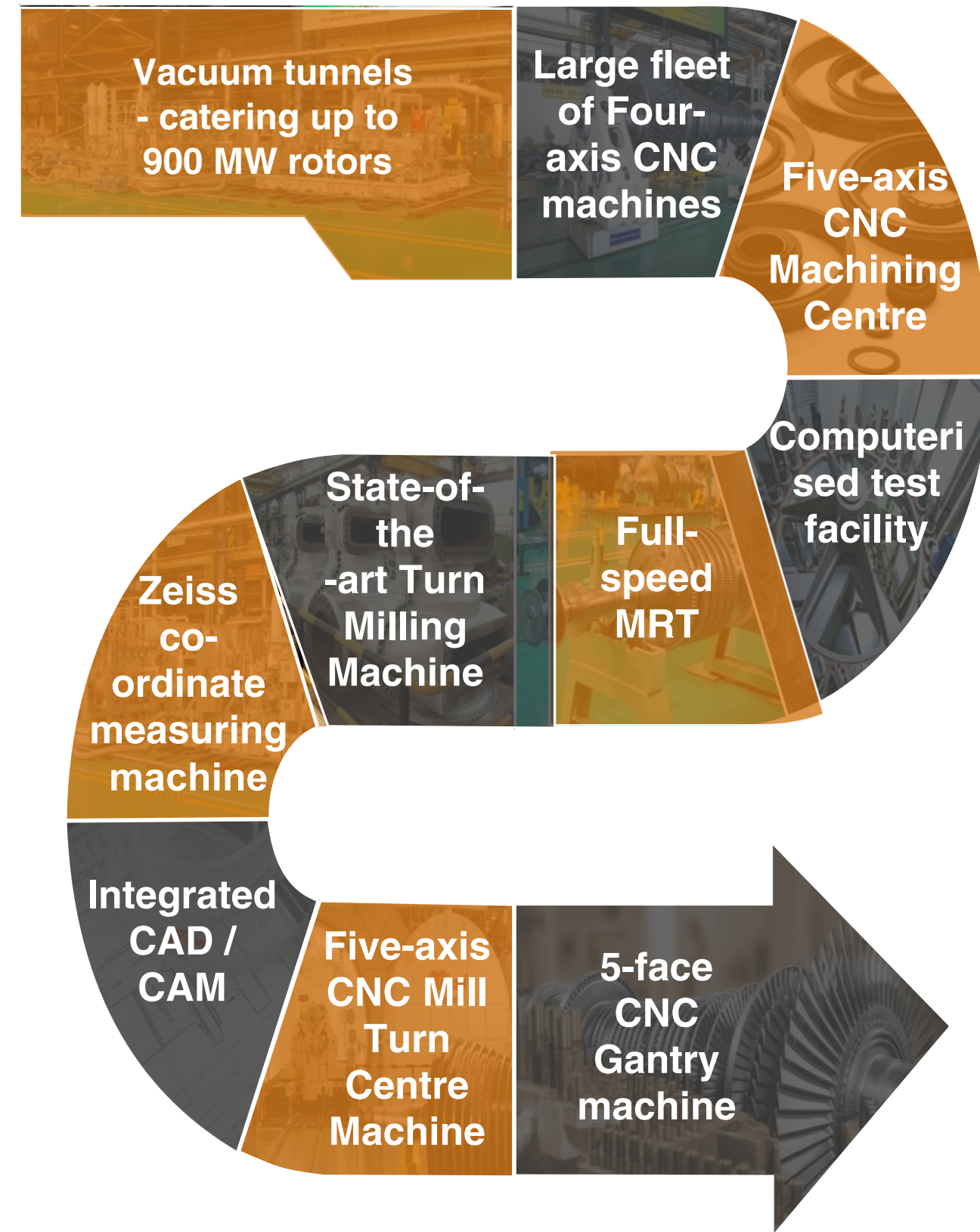
Infrastructure



State-of-the-art facilities equipped to provide manufacturing of critical components, assembly, testing and refurbishing services



Latest design tools and software to deliver innovative solutions to customers



Triveni Works



2 vacuum tunnels for Dynamic Balancing



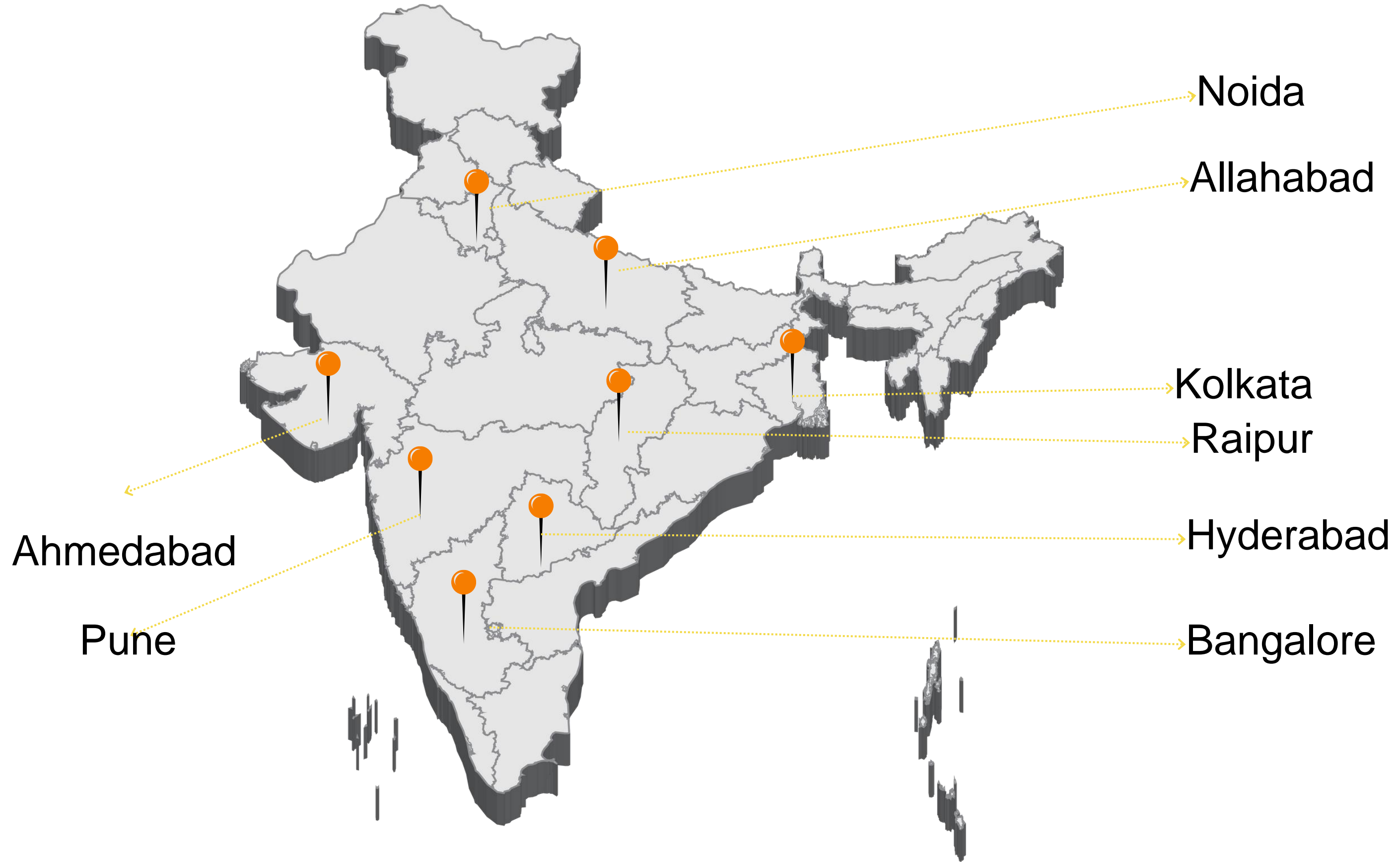
Parameters	DH 4	DH 7	DH 8	DH9
Job Weight	1.2 Tons max	0.6-12.5 Tons	1.6 - 37 Tons	30 – 55 Tons
Job Length	2800 mm	8700 mm	8700 mm	11000 mm
Max Diameter	900 mm	2900 mm	2900 mm	4100 mm
Max Speed	12000 RPM	12000 rpm	8000 rpm	8000 RPM

Typical turn around is 10 days if bearings are provided

Global footprint



Domestic service center



Our USP

Making a difference today for a better tomorrow



Customer Centric
Approach



OEM Expertise



Shorter Lead
Time



24x7 Customer
Support

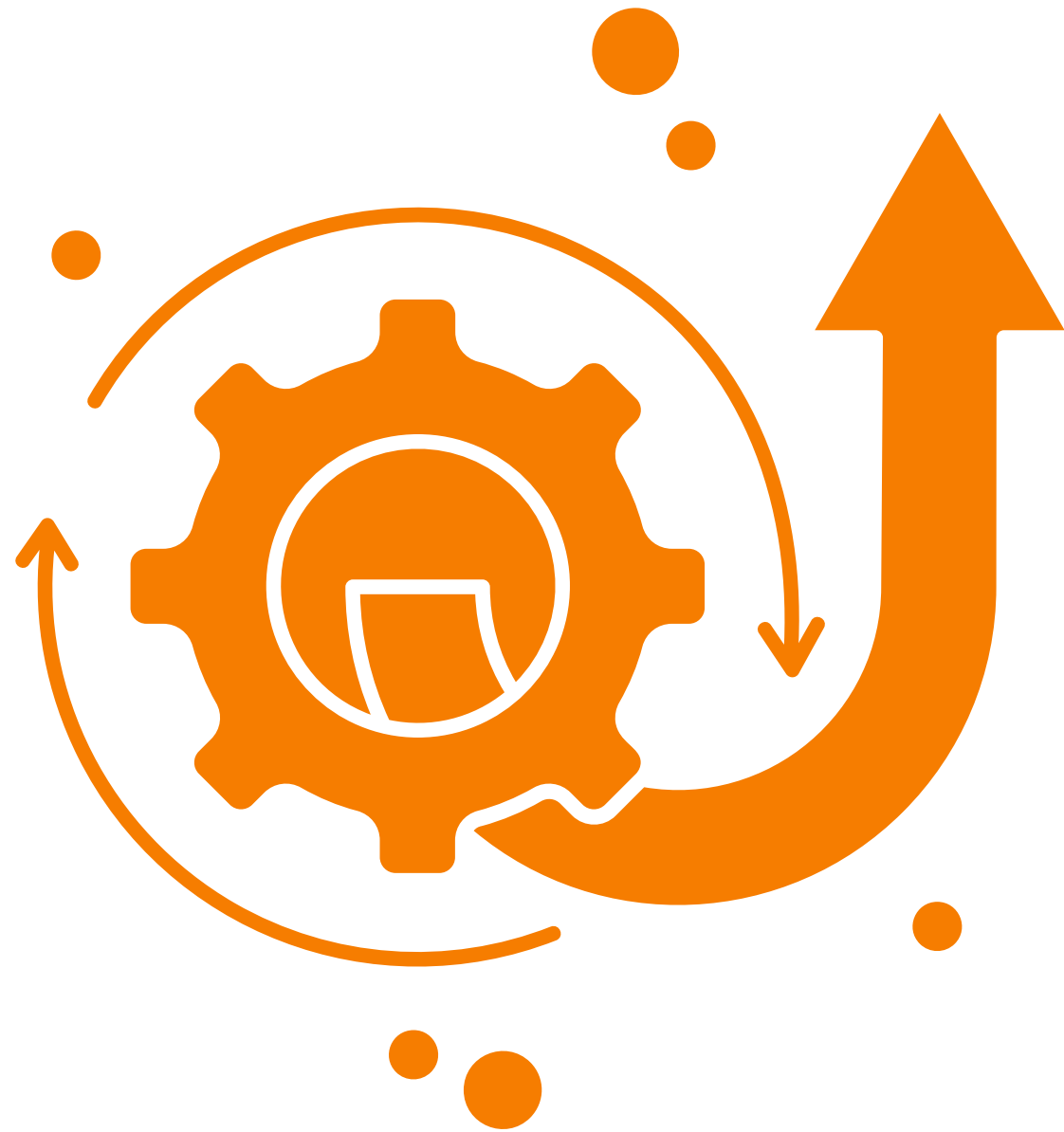


Spares Parts Sales

- Predictive Spares
- Recommended Spares
- Insurance Spares
- Balance of Plant Spares
- Breakdown support Mechanism for Spares



Upgrades & Modernization of Old TG Sets



- **Power upgradation to fulfil the present & future demands**
- **Optimizing Blades & Nozzles for Higher Energy Extraction**
- **Smart automation solutions minimizes manual interventions & enhances operational reliability**
- **Improved plant economics through conversion of condensing turbine to back pressure mode**
- **Advanced design concepts to capitalize on the latest technological innovations & staying competitive in the market**
- **Efficiency Boost through Steam Turbine Retrofits and Upgrades**

Power Upgradation



Factors	Before	After Upgrade
Inlet Pressure (Ata) :	63	63
Inlet Temp (°C) :	485	485
Bleed Pressure (ata) :	2.75	4.70
Bleed Flow (TPH) :	4.02	3.92
Exhaust Pressure (ata) :	0.18	0.18
Speed Ratio (RPM) :	7556 / 1500	7018 / 1500
Power (KW) :	10,000	12,000

- Existing turbine was in operation for over a decade
- Required modifications carried out in the existing TG system
- Upgraded from 10 MW to 12 MW

ADVANTAGES :

- Overall Power Cost Reduced
- End of Dependency on Grid
- Excellent ROI
- Turbine Automation Carried Out
- Customized Solution Brought Down the Turbine Shutdown Period
- Renewed the Life of the TG system
- Reduced Manual Interventions & Improved Reliability

Condensing to Back Pressure



Factors	Before	After Conversion
Inlet Pressure	43 Ata	43 Ata
Inlet Temp	430 Deg C	430 Deg C
Extraction Pressure	2.50 Ata	-
Extraction Flow	77 TPH	-
Exhaust Pressure	0.12 Ata	2.80 Ata
Power Output	12,000 KW	As per TTL

- Modifications carried out utilizing the existing rotor assembly
- Majority of existing turbine components retained

ADVANTAGES :

- Additional Steam for Process for its expansion
- No wastage of heat in the condenser
- Maintenance costs diminished
- Cooling Water & Other Operational Costs Reduced
- Brought the Sugar Mill Back to Life
- Almost Full Rated Power After Conversion as well

Service Offerings



Predictive and Preventive Maintenance



LTSA (Long Term Service Agreement) / AMC (Annual Maintenance Contract)



Troubleshooting and Health Check-ups



Efficiency Improvement and Restoration



Balance of Plant Solutions



Turnkey Solutions



Automation Solutions



Upgradation, Modification and Conversion package

The background features a series of concentric circles in shades of orange, centered on the left side of the frame. The circles vary in opacity, creating a subtle, layered effect. The right side of the image is a solid, uniform orange color.

Thank You