

You're just one step away from joining the rest of the world

A revolution in the energy space is sweeping the world. Let's help you take your place in the new world order of energy efficient and sustainable companies.

Over the course of the last 25+ years, we have installed our turbines and provided energy solutions for some of the most respected brands across the world.



1 US Patent

8 pending Indian patents

Present in **17** countries

4,385,300,192
KG CO₂ emission prevented

3,140,785_{MW}
units generated hourly

ABOUT US



One-stop global energy solutions provider



Manufacture turbines, turbine parts and other power generation equipment



Provides BOOT, EPC, FEED, engineering and project management services



Highly experienced design team striving for the best techno-commercial solution



**25+ YEARS OF
EXCELLENCE**



**GLOBAL
PRESENCE**

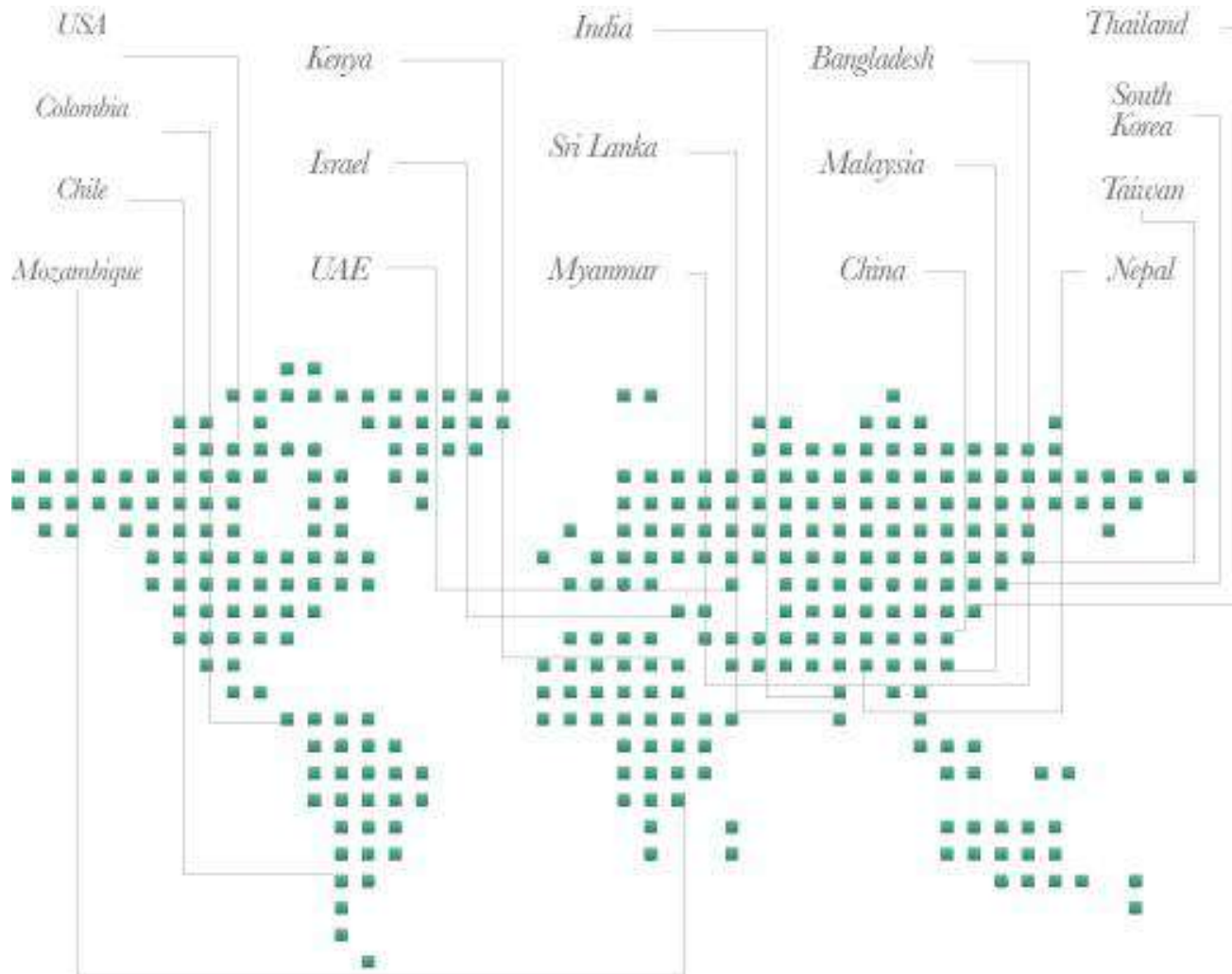


**DESIGN
EXPERTISE**



**ENGINEERING
& TECHNOLOGY
COMPETENCE**

OUR PRESENCE



Present in
17 countries

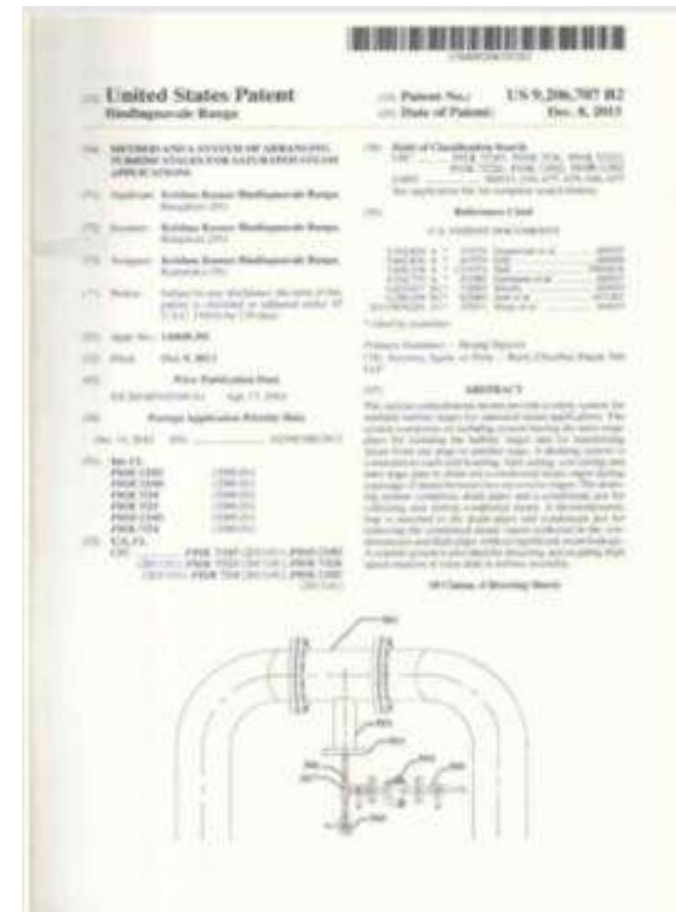
SOME OF OUR CUSTOMERS



LAURELS



Green Product Certification



United States Patent; 8 India Patents Pending

LAURELS



ISO 9001 & 140001



AS9100D (Aerospace Manufacturing)

12,000 RPM
Better performance

*Aerospace-grade precipitated,
hardened, stainless steel*
Corrosion resistant

*Electro-pneumatic
control (web-enabled)*
Finer process control

IoT ready
*Easy status
monitoring*

*Aerodynamic
blade design*
*Higher
efficiency*

*Multiple starts
and stops possible*
Operational flexibility

QuickStart
*Full load
in 5-10
minutes*

Energy Conservation Turbine

ECTTM

OUR FLAGSHIP PRODUCT

RELIABILITY

After a few years of operation:

CONVENTIONAL TURBINES

Condition when
opened



TURBOTECH TURBINES



Upon cleaning with
cloth

Condition
when opened

Overhaul Time

20 DAYS

Overhaul Cost

5 LAKHS



RELIABILITY

99.5% uptime

Erosion resistant steam wetted parts made of stainless steel

Force lubricated journal and thrust bearings having long life

Labyrinth + carbon seals for effective sealing



SAFETY

CONVENTIONAL TURBINES



Inserted blade rotor



Split casing

TURBOTECH TURBINES



Blisk rotor



Volute casing

Blisk rotors

Stainless steel volute casings

Blades never dislodged during operation

Offer superior containment



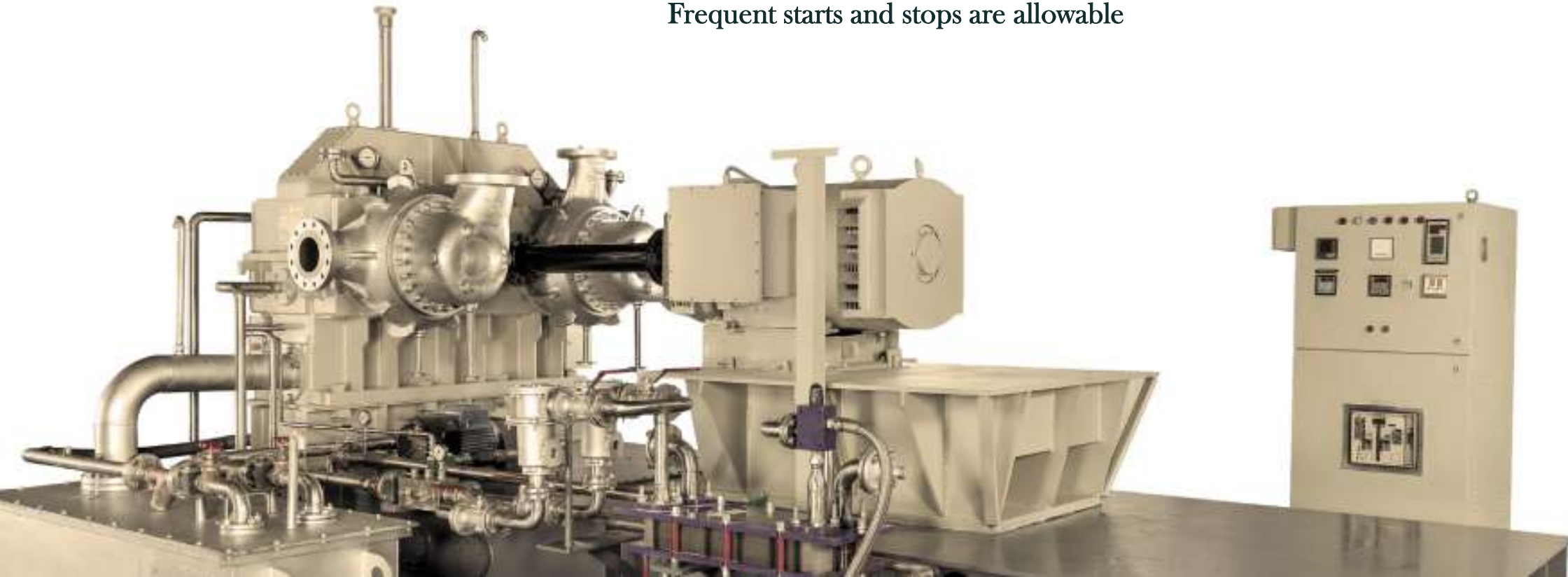
SUPERIOR PERFORMANCE

High speed, high efficiency = higher power generation (8%)

Well suited for *super-heated and saturated* steam

Startup time - 15 mins vs 90 mins

Frequent starts and stops are allowable



LOW LIFE-CYCLE COST

CONVENTIONAL TURBINES

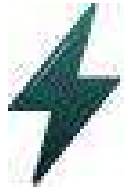
Civil foundation	Isolated foundation with separate deck required
Turbine house	3-4 floors; approximate cost of 150 lakhs
E&C period	45 days
Gestation period	9 months
Operation	Specialized operator required
Overhaul Time	30 days
Consumables	Lube oil top up is more

TURBOTECH TURBINES

Civil foundation	<i>Not Required, mounted on AVM</i>
Turbine house	<i>Single level; approximate cost of 10 lakhs</i>
E&C period	<i>7 days</i>
Gestation period	<i>6 months</i>
Operation	<i>No specialized operator required</i>
Overhaul Time	<i>7 days</i>
Consumables	<i>Lube oil top up is less</i>



S U M M A R Y



High speed, high efficiency =
Higher power generation (8%)



Lifetime reliability of steam wetted
parts *vs.* Overhaul cost of 5 lakhs +
Downtime of 20 days every few
years



Cost of new turbine house 10
lakhs *vs.* 150 lakhs

E&C time of 7 days
vs. 45 days



Overhaul maintenance time of
7 days *vs.* 30 days



Emphasis on safety –
Zero accidents





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