



Capability Document

**IMAGEX TECHNOLOGIES INDIA PVT LTD
(ISO 9001 2008 Company)**

About Imagex

WE AT IMAGEX offer Engineering, Project management, Designed products, systems and solutions for Power & Food Industry, such as Rice Mills, Flour Mills, Sugar and Bio mass Power plants, Cogeneration plants, Solar & Diesel power plants, Heat exchangers for drying plants, Air Filtration, Acoustics, Air pollution control & water treatment systems, around the globe to be energy efficient and environment-friendly. We are committed to Customer satisfaction across the world.

The products and services we offer are developed, sold and serviced through the eyes of the customer and measured by their voices. When we are dedicated to the quality of our products, services and our customer, growth and profit are bound to follow. Our business expertise covers Concept to Commissioning.

We bring to customers extensive experience in Rice milling, Power plants and expertise through technology partnerships and strategic alliances.

WE have always kept our focus on constant up-gradation of technologies and an in-depth understanding of market needs. In the process, we have acquired a reputation for successfully delivery of challenging projects.

IMAGEX TEAM**Prasanna Kulkarni – Director**

Prasanna has domain expertise in the area of Bio Mass energy, Husk based power plants, Rice milling, Food processing & Environment Industry. Prasanna has overall responsibility for the Administration, Finance, Human Resources, Corporate Marketing and Investor Relations. **He has 28+** years of industry experience, with wide exposure to diverse technologies & markets. Prasanna is a B.E in Chemical Engineering & MBA from Pune. He was serving as General Manager in a large MNC. head of the company's project business, He is known for his strategic and human relations skills and is a keen champion of green technologies. He is also an alumnus of Engineering Staff college Hyderabad & Kirloskar institute of Advanced Management Programme

B Suresh – Director

Suresh has overall responsibility for the Design & Projects and special purpose machines. **He has 30 years'**experience in Design, engineering and product development & new Technologies. He was earlier General manager in a German associate company. Suresh holds a M tech from IIT Chennai & MBA degree from Pune University, India.

A keen eye for detailing, & product development, Suresh has developed many products in the field of DG based power plants & Turbo machineries

IMAGEX SPECILISES IN HUSK POWER INTEGRATED RICE MILL



IMAGEX EXPERTISE IN INTEGRATION OF RICE MILLS WITH CO GENERATION

1. Complete Balance of Plant required for integration with Parboiling
2. Complete Co generation (husk) power plant
3. Synchronisation of Rice mill Power requirement from Co Generation
4. Making Rice mill Power Free
5. Supply of Process steam from power plant to rice mill
6. Automation with PLC & SCADA system

Major Equipment tie - ups & OEMs

Over the years we have worked with global technology majors like: AAF, Thermax, Buhler, JBC Japan, Powerica -Cummins, Caterpillar-Gmmco, etc. Some of our significant partnerships:

Thermax	Buhler	MAN	American Air Filter & APC Solutions	JBC-Yamato Engineering, Japan
<ul style="list-style-type: none"> • Boilers <p>Power generation systems with Imagex as the EPC partner</p>	<p>Rice mill</p>	<ul style="list-style-type: none"> • Turbines <p>Generators</p>	<ul style="list-style-type: none"> • High Efficiency Air Filter 	<ul style="list-style-type: none"> • Magnetic field Municipal waste incineration power by utilizing the Ionisation at process

Presence- Global & India

Imagex has successfully handled projects in following countries

1. Maa Durga Rice mill Cuttack - India 1.2 MW Co Gen for rice mill
2. Anjaneya agro Davangere – 0.5 MW for Rice bran oil extraction plant
3. Maser Food Corporation – Malaysia /Thailand
4. Ram E&I - Sudan D.G Based power plant
5. Dome International – Yemen WTP/ETP & D.G Based power Plant
6. Maa Durga Rice mill Cuttack India 1.2 MW Co Gen Second Plant
7. Pallavi Rice mills – 5.0 MW Cogeneration Plant
8. Vickers Hoskins - Malaysia G.T power plant
9. Energy Du Maali – Angeliq - Rep of Maali 10 MW D G based power plant
10. Ndola Energy Great lakes Power corpn (for Dangote Inds) - Zambia
11. SNC rice mill 6 MW Karatgi India
12. Power Breeze / Everest Energy – Bangladesh
13. Kudos Chemicals (Thermax) 10 MW - Chandigarh India
14. Raichur Bio Energy – 9 MW IPP India
15. Dev Kiran paper mill – 1.2 MW Husk power plant
16. Embee Agro rice mill Davangere 1.0 MW Co Gen for 16 TPH rice mill(under execution)
17. Wacot Rice mill – Nigeria – 1.0 MW Cogeneration Power plant (Under execution)
18. Embee Agro - 1.5 MW Solar PV Power plant (under execution)

Business Divisions in Imagex

In tune to our vision to be a globally respected high performance organization offering Sustainable solutions in Food (Rice mills), Energy and Environment, we have segregated our offerings into various business divisions.

Power Division

The Power Division offers a range of solutions to meet the power requirements of the industry. Our scope of work includes design & engineering, manufacture, supply, erection, commissioning, project management.

Offerings:

- ❖ Turnkey/ EPC (Engineering-Procurement- Construction) solutions for complete power plants:
 - Biomass based power plants
 - Solar PV/ CPV and solar thermal power plants
- ❖ Turnkey/ EPC of Balance of Plant
- ❖ Power projects on Project management (Front End Engineering & Design)
- ❖ Design & Engineering

We have designed a 9.0 MW power plant for Raichur Bio Energy Pvt. Ltd in Karnataka that has the largest culmination of rice millers coming together for their energy needs.



*Engineering Procurement Construction and Operation & Maintenance

Rice milling Integration Division

Rice milling division has done many projects across the Globe with Buhler & many other rice mill equipment manufacturers.

The Rice mill capacity ranging from 8 TPH to 32 TPH mills (multiples of 16 TPH) with Cogeneration & parboiling systems.

Design Engineering & concept to commissioning of Rice mill Integration with Power plant
COMPLETE INTEGRATED SOLUTION - ONE STOP SHOP CONCEPT TO COMMISSIONING



- ❖ Project management consultancy
- ❖ Single source of integration of rice mills & Power
- ❖ Co Generation Plants
- ❖ & Training

Our Air Filtration & Air Pollution Control Division's is the system integrator for **AAF** range (American Air Filter) products & systems with over 20 years expertise in handling any challenges in Air handling and Air pollution Control systems. AAF is the pioneer & world leader in supplying air Filtration, Acoustics & Air pollution control equipments. The Division also offers turnkey systems & retrofit options built around its products.

Offerings:

- ❖ Bag Filters & Silencers
- ❖ **Brick making from Fly ash**
- ❖ Particulate & Gaseous Scrubbers
- ❖ Mechanical Dust Collectors
- ❖ Gas cleaning & filtration
- ❖ Air Intake systems & silencers

FLY ASH BRICK MAKING PLANT



3000 bricks produced / day from 1 MW



Bricks made from Fly ash – good acoustic
& Thermal insulation properties



Water and Waste Solutions Division

Water and Waste Solution Group offers comprehensive water management systems to a wide range of industries like Rice mills, power plants, refineries and steel mills that use water softeners, demineralisers, filters, reverse osmosis, etc for their water treatment requirements.



Water filtration & R.O treatment units



ETP at a Rice mill

Solar Division

We have developed indigenous cost competitive turnkey solutions for solar power plants based on technologies like PV/ CPV, etc. With many commercial installations in various applications, we are the leader in solar for process applications.

Offerings:

- ❖ Solar Photovoltaic: –
Photo Voltaic –
Concentrated Photo
Voltaic

We designed and commission Solar power plants atop Rice mills & commercial Building to cater to incidental power.



1.5 MW PV SOLAR POWER PLANT IN KARNATAK INDIA

Manufacturing facility

Imagex has its own manufacturing facility in Bangalore India with ISO 9001-2008 Certification
The facility caters to OEMs like Cummins, ABB, Siemens, Wartsila, Kirloskars Buhler Thermax etc...



The above facility is approved by many leading consultants
We also have a contract manufacturing facility in Bangalore

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Quality Policy

We are an ISO 9001 -2008 certified company

Our Quality Policy starts and ends with the customer as a focal point, understanding the customer's requirements, designing optimal solutions to meet those requirements, building systems and processes in place to ensure quality at every stage and achieving our commitments on delivery and service before and after sales.

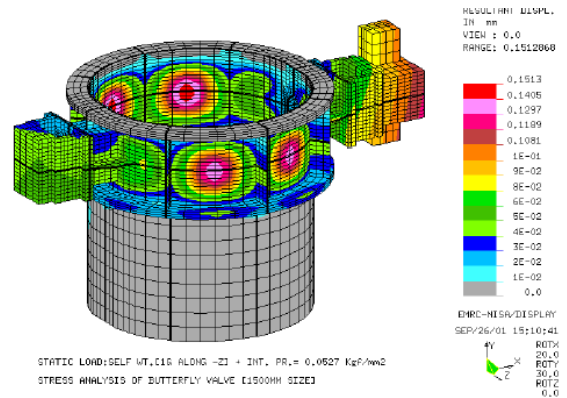
Engineering Capabilities

The synergy between skills, experience and information technology has been the basic platform for our dedicated Plant& Project engineering group which combines its experience with specialized solutions. We have more than 25 dedicated in- house engineers for design as well as detailed engineering.

Specialized Engineering solutions

- ❖ Pipe Stress Analysis including Dynamic Analysis.
- ❖ AutoCAD
- ❖ STAAD PRO for Structural Analysis.
- ❖ Solid works
- ❖ PLANT P&ID, Layouts & Building Indication.
- ❖ SMART PLANT 3D (Latest Version of PDS).

We deliver solutions at par with some of the best engineering practices in the globe.



*Over 20 engineers work in the area of Civil,
Mechanical, Electrical Instrumentation
With latest AutoCADD, Solid Works, PRO-E

Procurement Capabilities

We are backed by the in-house capabilities of procurement management systems, we source certain machines/equipments from top global suppliers to ensure delivery of the best quality equipments that too on time. We assess the capabilities and work load patterns of key vendors and sub contractors from before selecting them for the supply of any key equipment.

Our established and experienced sourcing capability enables us to supply quality components, with the best cost and quality advantage.



Some of our Vendors:

- ❖ Rice mills from Buhler
- ❖ Steam Turbine:, Skinner, Dressor rand, Triveni,Maxwatt
- ❖ Generator: Kirloskar, TDPS, Leroy,
- ❖ Boilers from Thermax/Thermodyne
- ❖ Paddy parboiling: Induss, SKF
- ❖ Diesel Generator Power plants - Cummins/powerica

Strong working relationship with Vendors of critical packages.

Long association & good relationship

Wide database of domestic and overseas vendors having undergone our stringent approval processes

Project Management Capabilities

The core competency of Imagex lays in its project management capabilities. We have Project Management Experts ,who are responsible for detailed project management, Site Co ordination, QA & unique network scheduling till the tertiary levels and timely completion of the project.

Highlights

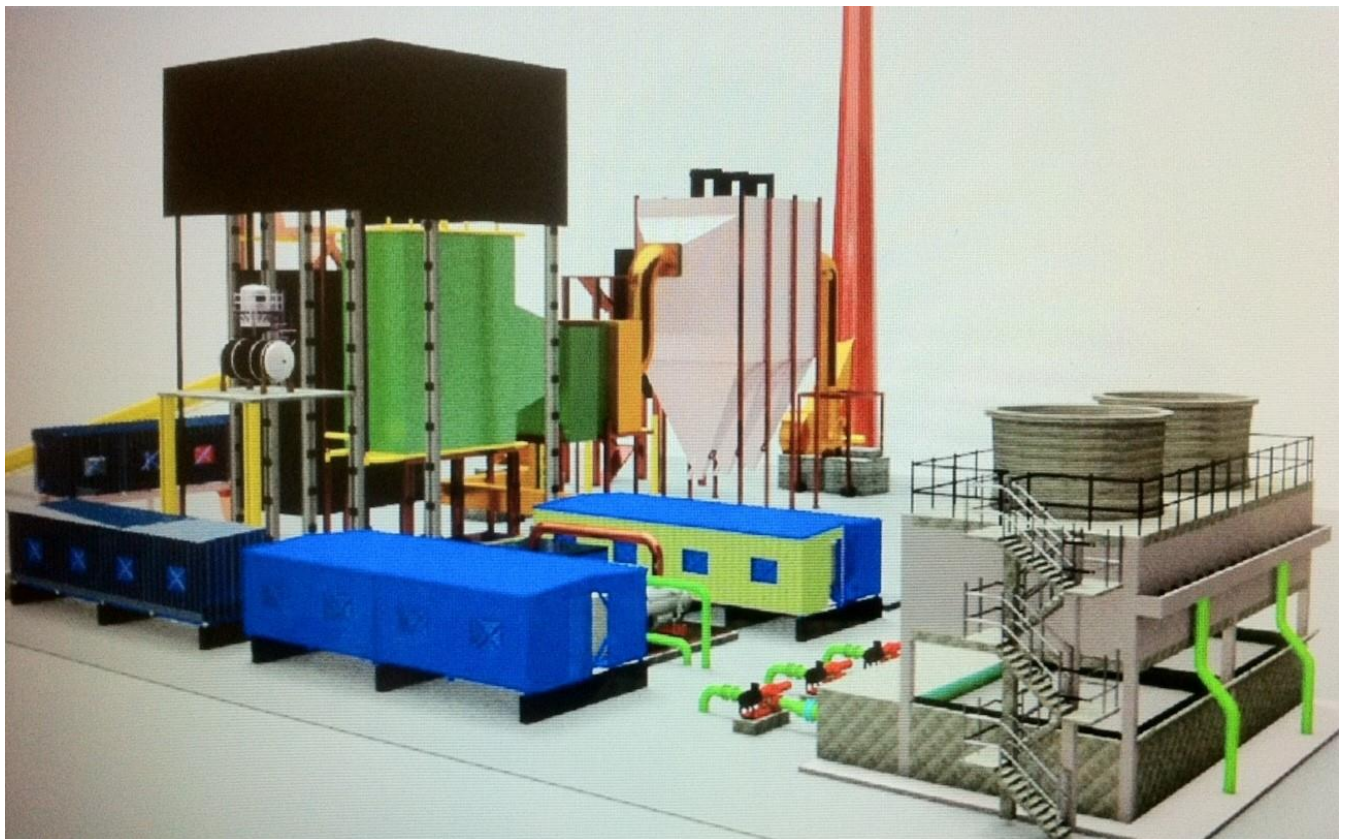
- ❖ Recipient of repeated orders from customers for timely completion of projects.
- ❖ Responsible for seamless integration of the engineering and construction interface, is the
- ❖ Acts as a single point contact for all agencies including customers, internal divisions, and vendors.
- ❖ Technically competency with experience in manufacturing & erection of different work packages in the Rice mill / Power plant.
- ❖ Capability of handling 2-3 projects concurrently.
- ❖ Use advanced tools like MS Project, for systematic monitoring of schedules
- ❖ A detailed progress report is handed over to the customer on a monthly basis.



Our Project Manager also...

- Analyses the project, identifies critical issues and finalizes the plan of action.
- Formulates the execution strategy in consultation with other departments.
- Monitors cost and cash flows
- Monitors and controls the project.
- Liaises with customers/consultants for reviewing/resolving issues related to engineering drawings, negotiating post contract changes & reviewing progress.

5 MW Husk power Plant at Karatgi India



1.0 MW CONTAINERISED POWER PLANT FOR EXPORTS

Key project profiles

32 TPH RICE MILL ASSOCIATED WITH 3 MW POWER PLANT



Highlights

Customer:	PALLAVI RICE MILL VIJAYWADA INDIA
Capacity:	2 x 16 TPH RICE MILL WITH 3 MW POWER PLANT
Schedule:	12 Months
Boiler:	Thermax
Turbine Package:	MAN India
Rice mill	Buhler
Green field Site:	Black cotton soil



1.2 MW HUSK POWER PLANT FOR A RICE MILL

Highlights

Customer:	Maa Durga Cuttack India
Capacity:	2 x 8 TPH RICE MILL
Schedule:	12 Months
PMC:	Imagex India
Rice mill	Buhler
Green field Site:	BOILER BY THERMAX



1.0 MW POWER PLANT ITEMS GETTING PACKED FOR EXPORTS TO NIGERIA



WHY IMAGEX ?

- › Thorough knowledge & experience of setting Rice mills & power plants
- › Investment and Cash flow known upfront
- › Zero miss outs and surprises
- › Integration and Interfacing
- › Single Point responsibility
- › Lower resources required
- › Total scope responsibly
- › Customer satisfaction
- › High performance
- › Long term support

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THANK YOU FOR YOUR ATTENTION !

LOOK FORWARD TO BE PARTNER IN YOUR PROGRESS !!!!!

Disclaimer: The contents herein are for information purpose only and do not form part of any offer.

