

# WALCHANDNAGAR INDUSTRIES LTD.

End to End Solutions for Co-Generation & Captive Power Plants  
on Turnkey Basis

- Engineering Excellence • High-tech Manufacturing
- Quality Assurance • Global Presence



# Turnkey Solutions

Walchandnagar Industries Limited (WIL) offers a complete array of solutions from concept to commissioning of plants on Turnkey basis. The scope can vary from new plant installations, plant expansions to plant modernizations and plant improvements.

Our forte lies in our superior technical expertise backed by high quality standards. Our experienced and qualified team of managers and engineers strive to ensure that the projects are executed with commitment and perfection and leading to entire satisfaction of our customers.



44MW Cogeneration Power Plant [With 2 x 115 TPH, 110 kg/cm<sup>2</sup> (g)]



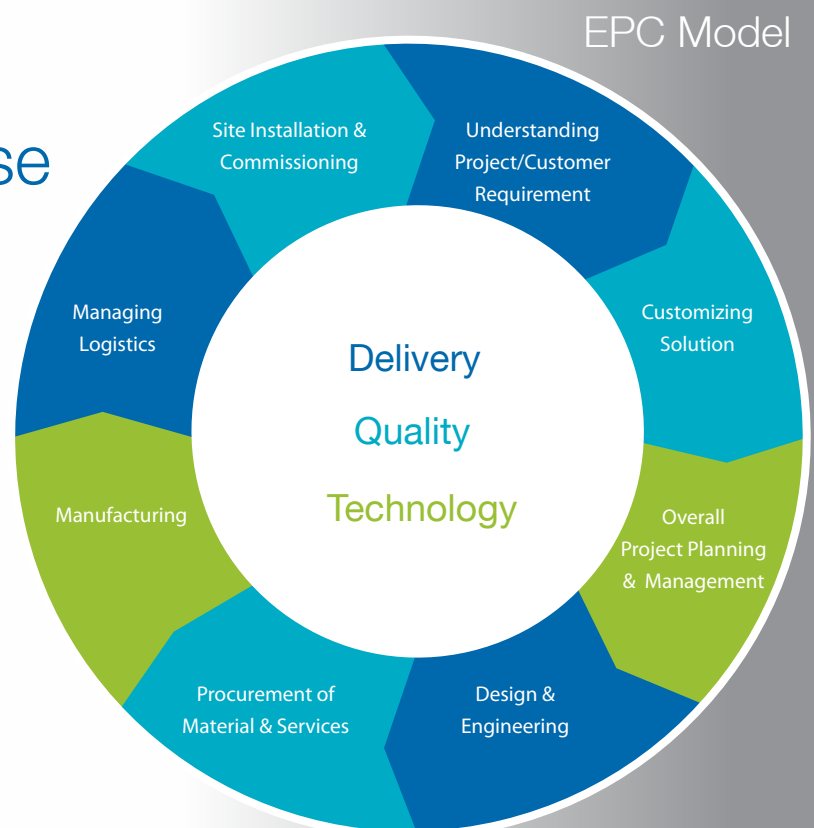
6.6 MW Municipal Solid Waste Based Power Plant on EPC Basis

WIL makes use of the latest engineering and project management tools like MS Projects, Prima Vera for effective and optimised design to help shorten cycle time of projects.

## Proven EPC Expertise

### Why WIL

- Quality culture
- State of the Art manufacturing set up
- Assurance of quality of raw materials
- Superior project management expertise
- Strong technical and engineering support
- Established track records and experience
- Compliance to codes and specifications
- Superior after Sales Service







181 TPH, 67 kg/cm<sup>2</sup> (g), 510 Deg. C

# WIL Capabilities

- Capability to execute captive as well as independent power projects up to 100 MWe
- Boilers with capacity up to 300 TPH, steam at pressure up to 110 kg/sq cm and temperatures up to 540 Deg. C; based on world renowned Foster Wheeler technology.

## EPC Range

- Multi-fuel fired Biomass based independent power plants (IPPs)
- Cogeneration plants for Sugar industry and Process industries
- Municipal solid waste based power plants
- Coal/Lignite/Petcoke/Washery rejects based power project [with fluid bed technology (AFBC/CFBC)]

## Product Range

- Travelling Grate/Pumping Grate boiler
- Atmospheric Fluidised Bed Combustion (AFBC) boilers
- Municipal solid waste (MSW) fired boilers
- Oil/Gas fired boilers
- Waste Heat recovery boilers (WHRB)
- Package Boilers

## Combustion Technology to fire various fuels

Bagasse | Mustard husk | Wood chips | Corn cob | Coconut shell | Cotton Stalk | Soyabean Stalk | Groundnut shell | Subabul wood | Gram husk | Rice husk | Woody biomass | Cane trash | Cane pith | Other agricultural wastes | Coal | Lignite | Oil | Natural gas | Bio-gas and many other



# WIL Manufacturing Facilities

## Highlights

- Area under the crane: 56000 sq. Mtr.
- Single piece lifting capacity of 150 T
- Overhead crane with Plate bending capability up to 200 mm
- Large lathe for machining diameters up to 6.5 m
- Sophisticated automatic welding systems capable of precision welding of exotic materials
- Complete in house set up to carry out NDT such as X-RAY, UT and destructive testing on test bars
- Modern measuring instruments for precision measurement of dimensions
- Well trained & experienced work force



## Quality Assurance & Control

- Elaborate quality systems to meet the requirements of National & International Standards.
- WIL has been approved by reputed Inspection Agencies and have successfully executed many projects to their satisfaction.



## Complying With Various Codes

WIL Manufacturing conformance to codes: IBR, ASTM, ANSI, DIN, BS, AGMA, TIMA & ASME

Approved by various agencies like: EIL, LLOYDS, PDIL, BUREAU VERITAS, UHDE, TOYO, NTPC, BARC, IBR, DAE, FCI etc.



## Critical Materials Handled

Cladded steel (Stainless steel, Titanium cladding), Alloy steel (including varieties of Cr, Mo steels), Stainless steels (Austenitic, Martensitic & super duplex types), High strength Maraging steel, Vanadium steel, Inconel, Monel, Incoloy, Titanium alloys, Aluminum alloys, Cobalt alloys etc.



# Our Success Stories

- 15 Cogeneration power plants/PPs on EPC basis
- 44 MW Cogeneration Power Plant (One of the largest cogen plants in India)
- 540+boilers installed globally
- 181 TPH Bagasse & Coal fired Boiler for Colombia
- 2 x 115 TPH 110 kg/cm<sup>2</sup> (g) pressure boilers for 44 MW cogen plant
- Waste heat recovery boilers on gas Engines exhaust for 100 MW combined cycle power plant
- 6.6 MW Municipal Solid Waste Power Plant on EPC basis **(First in India)**

2500 TCD Sugar Plant with 12 MW Cogen Power Plant



110 TPH, 110 kg/cm<sup>2</sup> (g), 540 Deg. C for 20 MW Power Plant



10 MW Power Plant with 50 TPH Mustard Husk Fired Boiler



## Our Customers

### International

- Miwani Sugar works, Kenya • West Kenya Sugars , Kenya • Kagera Sugar, Tanzania • Kinyara Sugar Works, Uganda
- Metahara Sugar Co. Ethiopia • Tendaho Sugar Factory, Ethiopia • The Nigerian Sugar Co. Ltd., (Bacita) Nigeria
- Bangladesh Sugar Corporation • Eastern Sugar Mills, Nepal • Gula N S, Malaysia • Ingenio Providencia, Colombia, South America
- Indu Shankar Chini Udyog Limited, Nepal • Mittal Steel Annaba, Algeria • Nagarjuna International (Vietnam) Limited
- Sri Ram Sugar Mills, Nepal and many more...

### Domestic

- Bajaj Hindustan Ltd. • Balrampur Chini Mills – Kumbhi • Doodhganga, Chikodi • Empee Sugars • Food Fats & Fertilizers Ltd.
- HPCL Biofuels • IndBarath Energies • Indreshwar Sugars Ltd. • KM Sugar • Laxshmi Gayatri • Nandi S.S.K.N • Parle Bisuits Pvt. Ltd.
- Purna SSK Ltd. • Raghurama Renewable Energy Ltd. • Shri Balaji Biomass Power Ltd. • Tamil Nadu Electricity Board • Ugar Sugar
- Warana SSK Ltd. and many more...

# About WIL

Walchandnagar Industries Limited (WIL), India is an ISO 9001: 2008 certified heavy engineering conglomerate specializing in Turnkey project execution and Hi Tech manufacturing, catering to customers across the globe.

Backed by a strong foundation and a century old engineering excellence, WIL is known for its pioneering achievements and for its contribution to nation building activities.

WIL offers an entire spectrum of services from Design, Engineering, Manufacturing to Erection and Commissioning of plants and machinery for the sugar, boiler, cement and mining industry; Hi tech manufacturing of critical and complex components for nuclear, defense, aerospace and missile sectors and Engineering products like heavy duty gearboxes for marine and industrial applications, castings and precision instruments.

With over 540 solid fuel fired boilers working across 12 countries, WIL caters to a large, satisfied customer base leading to repeat orders.

A perfect blend of superior technical expertise, sound project management capabilities as well as a relentless commitment to the highest standards of quality, ethics and efficiency is what makes WIL a preferred supplier and solution provider of choice.



## Other Business Areas

Sugar | Cement | Gear Boxes | Mining and Metals | Process Equipment | Defence and Missiles | Aerospace | Nuclear | Foundry | Precision Instruments |



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