

SITSON INDIA PVT. LTD.

Boiler • Sugar • Power • Ethanol



For Perfect
ENERGY SOLUTIONS



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We are the best for offering Energy solutions

- 130 Boiler Installations up to capacity 150 TPH, pressure 130 Kg/cm², temperature 545°C
- 7 Sugar Mills & Co-generation Projects commissioned on turnkey basis
- Installed Sugar Mills up to 5000 TCD with mill size up to 40" x 80"
- Power Projects up to 50 MW on various fuels like Bagasse, Coal, Biomass etc. executed on EPC basis including civil work & Switch yard
- Exported sugar mill plant, boiler pressure parts, soot blowers, ESP to other countries

Our Business Areas

- Coal, Bagasse, Biomass, oil, gas, spent wash, MSW fired boilers upto 300 TPH, 130 Kg/cm², 545°C
- High Pressure Travelling Grate Boilers
- Waste Heat recovery Boilers
- Spent wash incineration Boilers
- Soot Blowers
- AFBC, CFBC Boilers
- Dumping Grate Boilers
- Municipal solid waste fired boilers
- Revamping of Boilers & Turbines

Traveling Grate Boilers

Salient features :

- Suitable for fuel with
 - High moisture content
 - High ash content
- Fuel Size up to 25 mm
- Large range of grate speed variation Range is 0 – 15 m/hr
- Continuous ash discharge due to Continuous rotation
- Overlapping of grate bars prevents air leakages
- Easy for maintenance without boiler shutting down
- Complete combustion because of turbulence of over fire / secondary air
- System & mixing of the volatile gases. Less unburnt.
- High volatile matter
- High ash softening temperature

Operating range :

- Capacity – Up to 200 TPH
- Pressure – Up to 130 Kg/cm²
- Temperature – Up to 545 °C

High Pressure Single drum boilers

In modern sugar industry cogeneration plant high pressure boilers are increasing day by day to get maximum plant efficiency and less fuel consumption. Single drum boiler has its own advantages over bi drum boiler in both technical and commercial aspect.

Advantages of SITSON's single drum boiler –

- Super heater is provided in convection zone, radiation zone is eliminated so more life of superheater coils.
- Super heater is completely drainable.
- Small evaporation heating surface is required for boilers having super heater steam pressure more than 87 ata to avoid steaming in economizer.
- More residence time for complete combustion of fuel in suspension.
- More steam volume in steam drum which ensures better steam quality.
- Two stage top header ensure moisture return back to furnace tube so moisture separation load reduced in steam drum so better steam quality.

Power Generation

Sitson offers a range of solutions addressing the electrical power requirements of industry. We Offer Captive power plants and Cogeneration systems for industry and Independent power plants for fuels like coal, biomass, bagasse etc. We have a well-established design & engineering set up for :

- System engineering for the complete plant
- Mechanical systems including boilers, auxiliaries, structural, piping
- Electrical systems design and engineering of electrical equipment
- Instrumentation and control systems for field and control room
- Civil work & skilled manpower for Erection & commissioning.

We offer a wide range of Power Generation solutions right from setting up of Power Plants to O & M Services for Power Plants. Our Power Generation Business offers Turnkey Power Project Solutions for Thermal Captive & Cogeneration power plants.

Fluidized Bed Boilers

Salient features :

- Over bed and under bed designs
- High combustion efficiency
- High turn down ratio – 1:4.
- Easy ash removal
- Easy maintenance
- Flexibility in burning fuels
- Burning of coal having high ash content – up 45 %

Operating range :

- Capacity – Up to 120 TPH
- Pressure – Up to 110 Kg/cm²
- Temperature – Up to 540 °C

Electrical & Instrumentation

Our sister concern M/s Sitson Process Control Systems Pvt. Ltd. is a reputed company engaged in the field of electrical & instrumentation. Our Process Control Systems has engineered, supplied & commissioned PLC, DCS system and automation for all our projects.

Air Pollution Control Equipments

SITSON has developed and supplied Electrostatic Precipitator (ESP) for Sponge Iron, Cement Application, Bagasse, Coal, and Biomass Fired Boilers. We have supplied ESP for Boilers up to 200 TPH Bagasse, Coal Fired boilers.

Salient features :

- Suitable for gas flow rates 5000 m³/hr to 400,000 m³/hr.
- Hot gas design up to 250° C temperature
- Effective cleaning system by top rappers for collecting electrodes and emitting electrodes.
- Low pressure drop of flue gas.
- Low power consumption.
- High collection efficiency for all type of dust.
- Plate type collection electrodes are designed for high gas flow treatment and high collection efficiency.
- Specially designed and manufactured critical path line for Collecting Electrodes & Emitting Electrodes.

MAJOR EPC PROJECTS

Bagasse & Coal based 33 MW Cogeneration Project with Sugar mill Modernization.

VRD Power Projects Ltd. Delhi

- 150 T/Hr, 125 Kg/cm², 545±5°C Bagasse & Coal Fired Boiler
- 33 MW STG Set & BOP
- Modernization of 6250 TCD Sugar mill & Boiling House
- Switch Yard and Power Evacuation
- Complete Civil Work

Coal Based 30 MW Thermal Power Stations.

Midindia Engineering Ltd., Gandhidham, Gujrat.

- 02 Nos. 90T/Hr., 63Kg/cm², 510°C, Pulverized Fuel Fired Boilers
- 30 MW Turbo Generators
- Complete EPC with supporting BOP Equipments
- Switch Yard and Power Evacuation
- Complete Automation with DCS System

2 Nos. 8 MW Biomass Based Grid Connected Power Plant at

Hassan Biomass Power Co. Pvt. Ltd., Hassan, Karnataka and Chambal Power Ltd., Kota, Rajasthan.

- 38T/Hr., 67Kg/cm², 490°C Multi Fuel Fired Boiler
- 8 MW Turbo Generators & BOP
- Switch Yard and Power Evacuation
- Complete Automation with DCS System
- Complete Civil Work

Bagasse Based 25.5 MW Co- generation project with Sugar Mill modernization.

Shahabad co-op. Sugar Mill Ltd., Shahabad, Haryana.

- 130T/Hr., 87Kg/cm², 520°C±5°C, Bagasse fired Boiler with travelling grate
- 25.5 MW Turbo Generator Shin- Nippon Make
- 02 Nos. 40"x60" Mills with A.C. motors VFD Drives
- Switch Yard and Power Evacuation
- Complete Automation with DCS System
- Complete Civil Work

3500 TCD Sugar Mill with 15 MW Co- generation on EPC Basis

Shree Renuka Sugars Limited, Gokak (Distt. Belgaum), Karnataka and Manali Sugar Ltd., Bijapur Karnataka

- Complete Sugar Mill Plant
- 90T/Hr., 87Kg/cm², 520°C Bagasse fired Boiler
- 15 MW - 87Kg/cm², 515°C T.G. Set
- Complete BOP, Switchyard & Power evacuation

Other EPC Projects

3500 TCD Complete Sugar Mill with 15 MW Co-genetations Power Plants

Sangam SSK Niyamit Ltd., Belgaum, Karnataka

2500 TCD Sugar Mill

Mandvi Vibhag Sahakari Khand Udyog Mandali Ltd., Surat, Gujrat Shri. Kaveri Vibhag Khand Udyog Mandali Ltd, Chikhali, Gujrat

18 MW Bagasse Based Power Plant

Sahakar Shiromani Vasantao Kale SSK Ltd., Chandrabhaganagar Solapur M.S.

50 MW Coal based Power Plant

Facor Alloys Limited. A.P.

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FEW RECENT REFERENCES

SN	Customer	Travelling grate Boiler					Other details
		Capacity TPH	Pressure Kg/cm ²	Temp. °C	Type	Fuel	
*1	M/s. VRD POWER PROJECTS LTD., DELHI.	150	125	540	Tra.Grate	Bagasse/Coal/ Biomass	Other Details
2	M/s. SHRI SHANKAR S.S.K. LTD., SOLAPUR, M.S.	120	110	540	Tra.Grate	Bagasse / Coal / Biomass	Turnkey EPC
3	M/s. SHAHABAD CO.OP SUGAR MILLS LTD., HARYANA	130	87	510	Tra.Grate	Bagasse / Coal / Biomass	
4	M/s. NARAINGARH SUGAR MILLS LTD., HARYANA	130	87	515	Tra.Grate	Bagasse / Coal / Biomass	Turnkey EPC
5	M/s. SHRI DNYANESHWAR S.S.K. LTD., AHMEDNAGAR, M.S.	110	87	520	Tra.Grate	Bagasse	Turnkey EPC
6	M/s. BIDAR KISAN SHAKKAR KARKHANA LTD., BIDAR, K.S.	90	87	515	Tra.Grate	Bagasse / Coal / Biomass	
7	M/s. MANALI SUGARS LTD., DIST.: BIJAPUR, K.S.	80	87	515	Tra.Grate	Bagasse/ Wood chips / Coal	Turnkey EPC
*8	M/s. R.N. BAGWAN SUGAR LTD., BEEDI, BELGAUM, K.S.	80	87	515	Tra.Grate	Bagasse/ Wood chips / Biomass	Turnkey EPC
9	M/s. ASHOK S.S. K. LTD., SHRIRAMPUR, AHMEDNAGAR, M.S.	80	87	520	Tra.Grate	Bagasse / Coal / Biomass	Turnkey EPC
10	M/s. SAHAKAR SHIROMANI VASANTRAO KALE SAHAKARI SAKHAR KARKHANA LTD., SOLAPUR, M.S.	2 x 50	87	515	Tra.Grate	Bagasse / Coal / Biomass	Turnkey EPC
11	M/s. L.H. SUGAR FACTORIES LTD., PILIBHIT, U.P.	120	67	520	Tra.Grate	Bagasse / Rice husk	
12	M/s. PURTI SAKHAR KARKHANA LTD., NAGPUR, M.S.	100	67	495	Tra.Grate	Bagasse / Coal / Biomass	
13	M/s. DHAMPUR (MANSURPUR) SUGAR LTD., DELHI.	100	67	510	Tra.Grate	Bagasse / Coal	
14		90	67	510	Dum.Grate	Bagasse	
15	M/s. GOKAK SUGAR LTD., GOKAK, BELGAUM, K.S.	90	67	490	Tra.Grate	Bagasse / Biomass	
16	M/s. SHAKUMBHRI STRAW PRODUCTS LTD., MORADABAD, U.P.	80	67	495	Tra.Grate	Bagasse / Rice husk / Biomass	
17	M/s. DAURALA SUGAR WORKS, DAURALA, U.P.	90	67	515	Tra.Grate	Bagasse / Coal	
18		90	67	515	Tra.Grate	Bagasse/ Mustard Husk / Biomass	
19		70	68	515	Tra.Grate	Bagasse / Coal	
20		40	45	515	Tra.Grate	Bagasse/ Mustard Husk / Biomass	
21	M/s. ROHTAK CO-OP. SUGAR MILLS LTD., HARYANA (THRO' S.S. ENGINEERS, PUNE)	100	72	520	Tra.Grate	Bagasse / Coal / Biomass	
22	M/s. SATISH SUGAR LTD., TAL. GOKAK, BELGAUM, K.S.	100	67	505	Tra.Grate	Bagasse / Coal / Biomass	
23	BBELGAUM SUGARS LTD, BELGAVI, KARNATAKA	100	87	520	Tra.Grate	Bagasse / Coal / Biomass	
24	M/S. PARAG AGRO FOODS & ALLIED PRODUCT LTD. PUNE, M.S.	75	45	480	Tra.Grate	Bagasse	Turnkey EPC
*25	M/s. JAIN RENEWABLE ENERGY PVT. LTD., DEWAS, M.P.	48	67	445	Tra.Grate	Biomass / Coal	Turnkey EPC
*26	M/s. JAIN RENEWABLE ENERGY PVT. LTD., SEHORE, M.P.	48	67	445	Tra.Grate	Biomass / Coal	Turnkey EPC
27	M/s. CHAMBAL POWER LTD., KOTA, RAJASTHAN	38	67	490	Tra.Grate	Biomass / Coal	Turnkey EPC
28	M/s. HASSAN BIOMASS POWER CO. (P) LTD., HASSAN, K.S.	38	67	490	Tra.Grate	Biomass / Coal	
29	M/s. KALPATARU POWER TRANSMISSION, UNIARA, TONK, RAJASTHAN	38	45	425	Tra.Grate	Mustard husk / Biomass	
30	M/s. SRI JYOTI RENEWABLE ENERGY PVT. LTD., BHIWANI, HARYANA	42	67	485	Tra.Grate	Mustard husk / Biomass	Turnkey EPC
31	M/S. GHODAWAT FOODS INTERNATIONAL PVT. LTD., KOLHAPUR, M.S.	35	67	510	Tra.Grate	Bagasse/Coal	

CFBC & AFBC Boilers

32	*M/s. FACOR ALLOYS LIMITED, GARIVIDI, A.P.	210	110	540	CFBC	Indian Coal/ Washery Rejects /Indonesian Coal	Turnkey EPC
*33	M/S. NEPA LTD., NEPANAGAR, M.P.	85	64	460	AFBC	Indian Coal / Imported Coal	Turnkey EPC
34	M/s. A.B. GRAIN SPIRIT PVT. LTD., DELHI	60	87	520	AFBC	Rice husk / Coal / Biomass	
35	M/s. APOLLO TYRES LTD. CHENNAI, T.N.	60	67	485	AFBC	Indian Coal / Imported Coal	Turnkey EPC
*36		35	67	485	AFBC	Indian Coal/ Imported Coal	Turnkey EPC
37	M/s. THE BOMBAY DYEING & MFG. CO. LTD., MUMBAI, M.S.	50	10.5	Saturated	AFBC	Coal / Biomass	
*38	M/s. CHHINDWARA INFRASTRUCTURE PVT. LTD., CHHINDWARA, M.P.	45	68	490	AFBC	Coal	Turnkey EPC
39	M/s. SHREE MAHAVIR FERRO ALLOYS PLTD., KALUNGA, SUNDARGARH, ORISSA	40	67	495	AFBC	Coal / Char	
40	M/s. GARG DUPLEX & PAPER MILLS PVT. LTD., MUZAFFARNAGAR, U.P.	35	67	485	AFBC	Coal / Lignite / Biomass	
41	M/s. THREE (3) M PAPER MFG. CO. PVT. LTD., CHIPLUN	30	67	490	AFBC	Coal	Turnkey EPC
42	M/s. CENTURY LAMINATING CO. LTD., GHAZIABAD, U.P.	25	48	425	AFBC	Saw dust / Rice husk / Coal	
43	M/s. KRISHNA S.S.K. LTD. KARAD, SATARA, M.S.	15	42	420	AFBC	Bagasse / Coal / Spent Wash	
44	M/s. SANJIVANI S.S. K. LTD. AHMEDNAGAR, M.S.	15	21	340	AFBC	Coal, Bagasse	

Dumping Grate Boiler

45	M/s. SANGAM SAHAKARI SAKKARE KARKHANA NIYAMIT, BELGAUM, K.S.	80	45	485	Dum.Grate	Bagasse	Turnkey EPC
46	M/s. DHAMPUR (MANSURPUR) SUGAR LTD., DELHI.	90	67	510	Dum.Grate	Bagasse	
47	M/s. VITTHALRAO SHINDE S.S.K. LTD., SOLAPUR, M.S.	70	67	510	Dum.Grate	Bagasse	
48	M/s. SHREE MANDVI VIBHAG SAHAKARI KHAND UDYOG MANDLI LTD., MANDVI, SURAT, GUJARAT.	60	45	500	Dum.Grate	Bagasse	Turnkey EPC
*49	M/s. KAVERI VIBHAG SAHAKARI KHAND UDYOG MANDALI LTD., NAVSARI, GUJARAT	50	55	505	Dum.Grate	Bagasse	

*Under Execution

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