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Address	<b>Combustion &amp; Heat Transfer Engineering Company (CHT)</b> Division of Appropriate Heat Transfer and Energy Conservation 318, 3rd Floor, Abhishek Complex, Akshar Chowk, Old Padra Road Vadodara, Gujarat - 390 020
Country	India

## PRODUCTS OR MACHINERY

The design / manufacturing range of the company covers:

1. all types of Burners for furnaces / kilns / Ovens / ladles
2. Recuperators ( cage & radiation type )
3. Hot air generators
4. Glass furnace equipments like Batch Chargers / Pressure Control Dampers / Reversal Valves.

Technology Consulting Services and Turnkey activities for Engineering Industries are:

1. Detailed Engineering and Design solutions
2. System design for fuel oil/tar installations, gas mains, burner front pipe work train for any fired equipments like furnaces, boilers, kilns, BF stoves, combustion system & metalling preheater for hot air (900°C) blast for mini blast furnaces, etc., complete ladle heaters, tundish heaters, combustion system for hot mixer, drier for moist granulated slag, lime calcination plant, dolomite sintering plant, waste heat recovery systems, combustion & control systems.
3. Design, manufacture, supply & installation of unfired pressure vessels, Combustion System (burners), recuperators, fired heaters, preheaters, superheaters, heat exchangers, etc.
4. Technological fabrication & erection of carbon steel & alloy steel materials.
5. Detailed inspection, refractory laying, refractory dry out & preheating of any large refractory installations.

We have successfully completed dry-outs and heat-ups on: Rotary Kilns Fluidized Beds Raw Mills Alumina Calciners Coolers Mills Vertical Kilns Calciners Coal Finish Mills We have a special designed set of "HIGH VELOCITY BURNER" to completely remove moisture during the dry out process.

**Furnace Emergency Services** : Furnace Draining (Tapping) : Our unique draining service allows draining rates up to 40 tons per hour per tap. Furnaces at or below grade can be quickly drained using our high-pressure water pumps, which allow a 2-meter lift, and pipe runs in excess of 70 meters.

**Cullet Filling** : We offer fast cullet filling systems capable of up to 60 tons per hour. We offer the original "dry" filling equipment where air is used as the medium for conveying the cullet out into the furnace for quick melting and elimination of thermal shock to the fill pockets plus systems to filter out fines or wetting equipment to eliminate the dusting of the superstructure.

**Sulfate Removal** : We use special outlet nozzles in conjunction with our unique Hotwork burners to quickly and safely remove sulfates and borates from checker settings to allow the furnace to operate at or near original design parameters.

1. Block Checker Work
2. Sulfate Burning Away
3. Air Passage Ways Reestablished Regenerator Decongestion by using advance modern High Velocity Burner System with the best advance method.

Furnace Drilling / Tapping / Draining by using sophisticated light- weight Drilling Machine, High Pressure Water Pump & appropriate drained Glass Conveying System.

Furnace Control Cool Down – Applying modern method & Equipment.

Furnace Hot Repair Services : For Furnace Inspection For Furnace Inspection & Ceramic Welding to enhance the Life of Furnace with the international proven technology.

Furnace Hot Repair – With the guidance of Hot Repair Specialist from abroad. Experience/ Specialization of SPECIALIST is enclosed.

Details of Furnace Hot Repair Projects :

Emergency glass leak repairs / prevention  
Over coating melter sidewalls  
Crown repairs to melter, regenerator, ports, using hot insertion refractory or casting.  
Burner block replacement / Thermal couple block replacement.  
Tweel stone / crutch arch replacement / canal assembly change - out.  
Checker pack unplugging / checker change - out.  
Water shut off gate fabrication / installation.  
Furnace sealing after start-up.  
Stopping breastwall roll-in.  
Waist area - rebuilding stirrer grid, arch replacement.  
Furnace construction & demolition.  
Training of personal for day to day furnace preventive maintenance.

Regenerator Decongestion – by using advance

#### Company Profile of **Combustion & Heat Transfer Engineering Company (CHT)**

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