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## PARBOILING & DRYING PLANT





# Technical Specifications of Parboiling Plant

## Raw Paddy Storage Bins

Raw Paddy bins are generally made of stainless steel to ensure the strength and makes the bins more suitable for long term storage. These bins consist of panels which are bolted, Hoppers can be delivered in square and round outlet, and the roof is designed with two side inclinations.



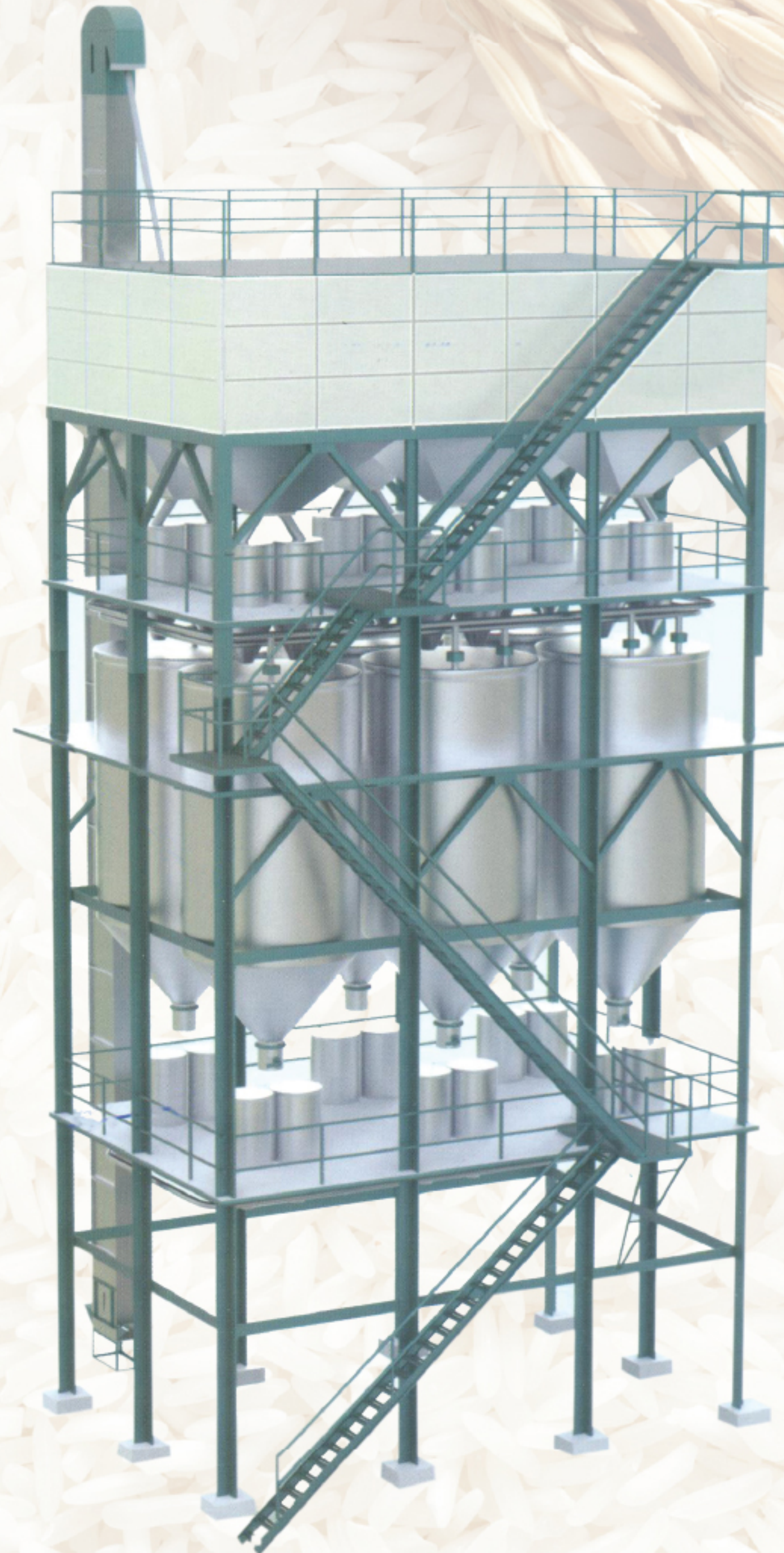
## Soaking Tanks

Stainless Steel soaking tank is made professionally for commercial soaking of paddy in the huge water-filled vessels at a particular temperature for a specific period of time. Our tanks have been designed to obtain a homogeneous soaking quality of the paddy, equally important for the soaking time of paddy, water quality and soaking temperature. These tanks are non-toxic and non-corrosive, meaning a safer, cleaner and more hygienic in nature.



## Steaming Tanks

Stainless Steel Steaming Tanks made up with free-circulation steam system, Stainless steel Filters protect the grain, maintain processing efficiency. Steaming in tank is evenly distributing precisely moving and reach every single part of grain.



## Material

The Material is delivering in parboiling complete with Nut-bolts, support construction, hoppers, Platform, roof construction, Plant decks, ladders etc. for outdoor or indoor installation. Due to the modular design and construction, the parboiling allows easy extension in case of later demands for higher processing volume.



## Structure

Normally, the Parboiling are installed on a certified steel construction according to the plant design. Structural analysis and design for new/existing according to parboiling process and storing facility of grain and civil parameters with high degree of gentleness.



## Ladders

Our Parboiling Plant Ladders and cages are assembled from the floor to row section. Provided easy access to the each section of parboiling unit.



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### Elevators

The efficient and silent rectangular profiled bucket elevator guarantees fast operations and loading/un loading of the dryer. The elevator will give many years of service: all its structures are manufactured from Stainless steel. The elevator comes equipped with a shaft-mounted geared motor, High tensile HR grade belting, Stainless Steel Buckets and Bolts, Heavy Duty Top and Bottom and delivery pipe all are specially designed for wet paddy circulation

### Storage Bins

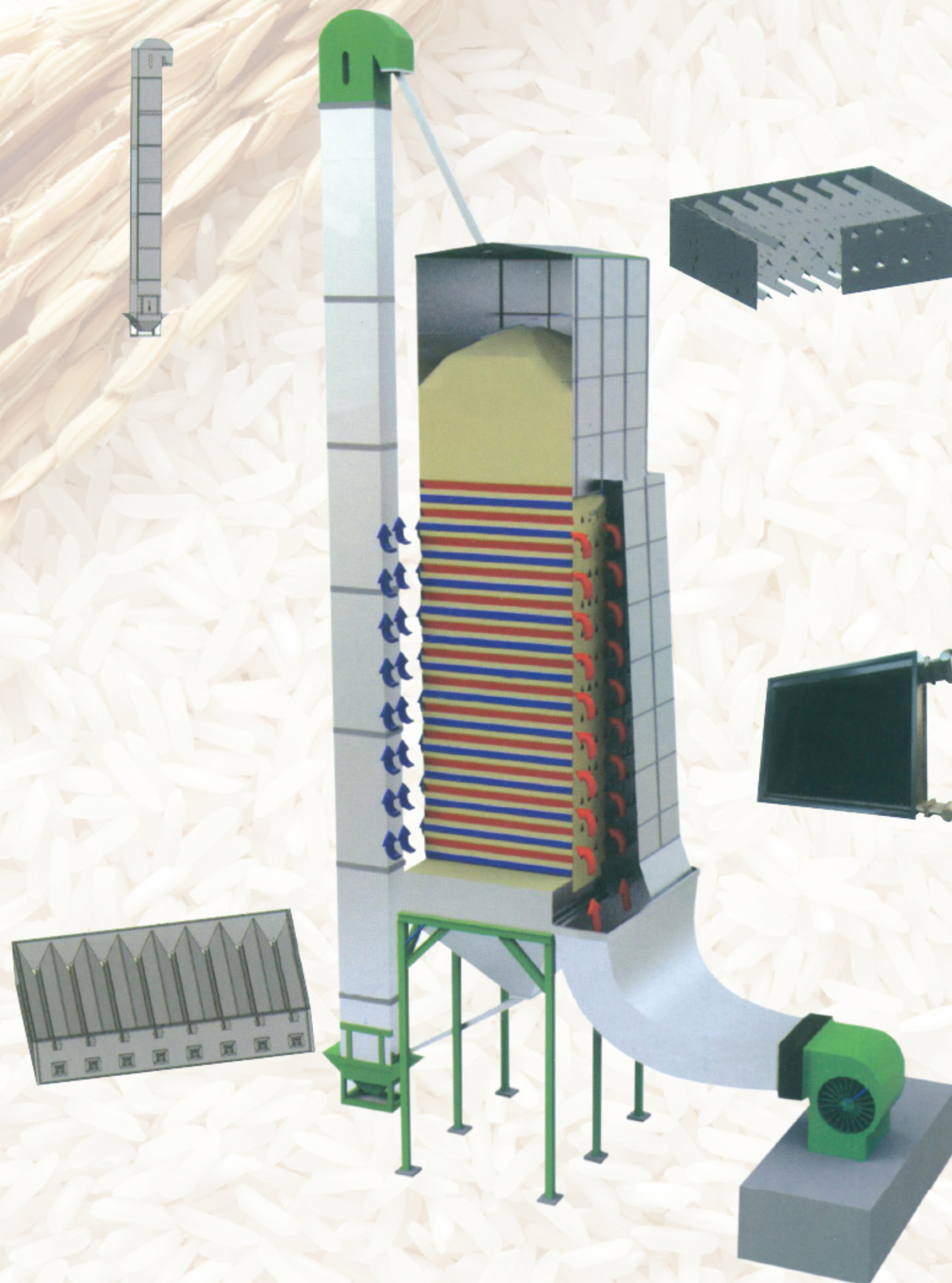
Maximum no. of Tied Rods Supports higher peak loads and allowing more grain to move into storage faster than ever before. The design of storage bins increases the strength, allowing you to go taller with your grain drying system and have more flexibility in design.

### Sturdy Construction

The driers consist of high grade Stainless Steel, and Heavy duty Steel Structure which ensures a great strength and concise structure. Heavy-duty construction makes durability for longer operation and minimal maintenance. Drier leg extensions are available and can be easily installed as needed for added clearance under the dryer.

### Discharge Section

A heavy duty Multi rotors discharge gates provide work for the first-in-first-out of grain flow. Provided variable-speed motor, the unloading system's speed can be automatically adjusted. This discharge system gives a homogeneous flow, easy to clean and gently deliver it to the unloading point at the perimeter of the dryer.



### Drying Section

Homogeneous Grain Flow as number and thickness of baffles in chamber is more for smooth drying without formation of cracks in grain. All heated air must pass through the grain column resulting in total use of heated air. The dryer sections are designed to eliminate the rapid contact of the drying grain column with incoming hot air which reduces excessive grain breakage. Air baffles are Zig-Zag from row to row to maximize grain turnings during drying stages.

### Air Ducts

Air Ducts for the grain and finest airflow through the dryer. The Stainless Steel air duct designed in such way which provides equal and even hot air towards drier turnings during drying stages.

### Steam Heat Exchanger

To reach the drying temperature level a steam heat exchanger is applied according to the source of steam (either Boilers or Rice Husk Furnace). The Heat Exchanger made of seamless Carbon Steel tube with Aluminum extruded Fins. Steam pressure should be around 7kg/cm.

### Centrifugal Fan

Immense air volume enables the use of low drying temperature thus minimizes internal breakage of grain. A high competence, back-ward curved centrifugal fan with low revolution speed ensures trouble free operation and long service life. Power is economically and fully utilized to produce the best yield.



## Parboiling Plants 25 to 2500 TPD Capacity

Three Stage (Kachhi & Pakki Processing) for Basmati and Superfine Paddy.  
Single Stage Parboiling & Half Steaming Plant  
Murri Rice & Drying Plant  
Pressure Parboiling for Normal, Coarse & Puff Rice.  
CAD designed Steam Ejection prevents grain damage.  
Minimizing load on Sorting System.



## Driers 16 to 60 TPD Capacity (Dryer is Completely Folding System)

Continuous Flow Mechanical Type  
Extra Heavy duty Rotar Chamber Frame.  
Easily replaceable V baffle ducts.  
Even Drying of Paddy with less broken.  
Does not effect weather conditions.  
Very low Power & Labour consumption.  
Stainless Steel parts (optional) available



## OUR PROJECTS



AN ISO 9001:2015 Certified Company

# BHULLAR RICE

## MACHINERY MFG. CO.

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