

## REGIONAL OFFICES OF JSSL

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Chennai	Jindal Stainless Steelway Ltd. Survey No. 2 of No. 19, Chinna Puliyar Village, Gummidipoondi Taluk, Thiruvallur Distt., Chennai-601201, India	Mr. Sushil Rajpoot	9916800034	sushil.rajpoot@jindalsteelway.com
Vadodara	Jindal Stainless Steelway Ltd. Plot No.629/B, Gidc Savli At Manjusar, Po- Alindra, Taluka Savli, Distt Vadodara-391775, Gujarat, India	Mr. Ketan Shah	7600818230	ketan.shah@jindalsteelway.com
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JINDAL STAINLESS STEEL  
**ENSURES  
HIGHEST EFFICIENCY  
FOR YOUR RICE MILLS**  
ENHANCING SAFETY AND LIFE  
OF YOUR MILL



# CHANGE IN STAINLESS STEEL CONSUMPTION (RICE MILLS)

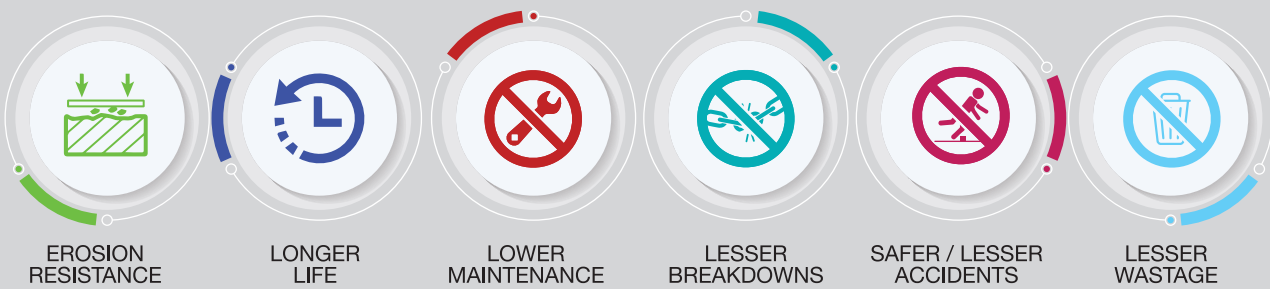


Traditionally, rice mills have had a raw paddy de-husking technique. The issue with that is that it produces low quality rice and only 65% of the paddy is converted to rice.

In contrast, modern rice mills require soaking, boiling & steaming of paddy which produces good quality rice.

Another change to note is that the parboiling units have changed from using mild steel to using stainless steel, due to the continuous repairs required in the former.

## RIGHT METAL FOR YOUR RICE MILLS



# LEGACY & LEADERSHIP

- Jindal Stainless ranks amongst the top global stainless steel conglomerates
- State-of-the-art R&D facility for continuous innovation along with modern manufacturing technologies. Doing value driven business worldwide with established distribution network
- Strong presence in the manufacturing category of specialty steel for Indian Defence & Aerospace segment
- **Success factors:** customisation as per customer needs and cross market expertise
- A part of USD 22 billion O.P. Jindal Group, Jindal Stainless manufactures superior quality steel and a wide range of products for defence purposes
- Melting capacity of 1.9 MTPA
- Accredited with internationally recognised Quality Management Systems





## APPLICATIONS OF SS USED

HODI  
ELEVATOR

1

PADDY PRE  
CLEANER

2

RAW PADDY  
ELEVATOR  
FEEDING  
THE BIN

3

PARBOILING  
TOP BIN

4

PRE  
STEAMING  
TANK

5

SOAKING  
TANK

6

POST  
STEAMING  
TANK

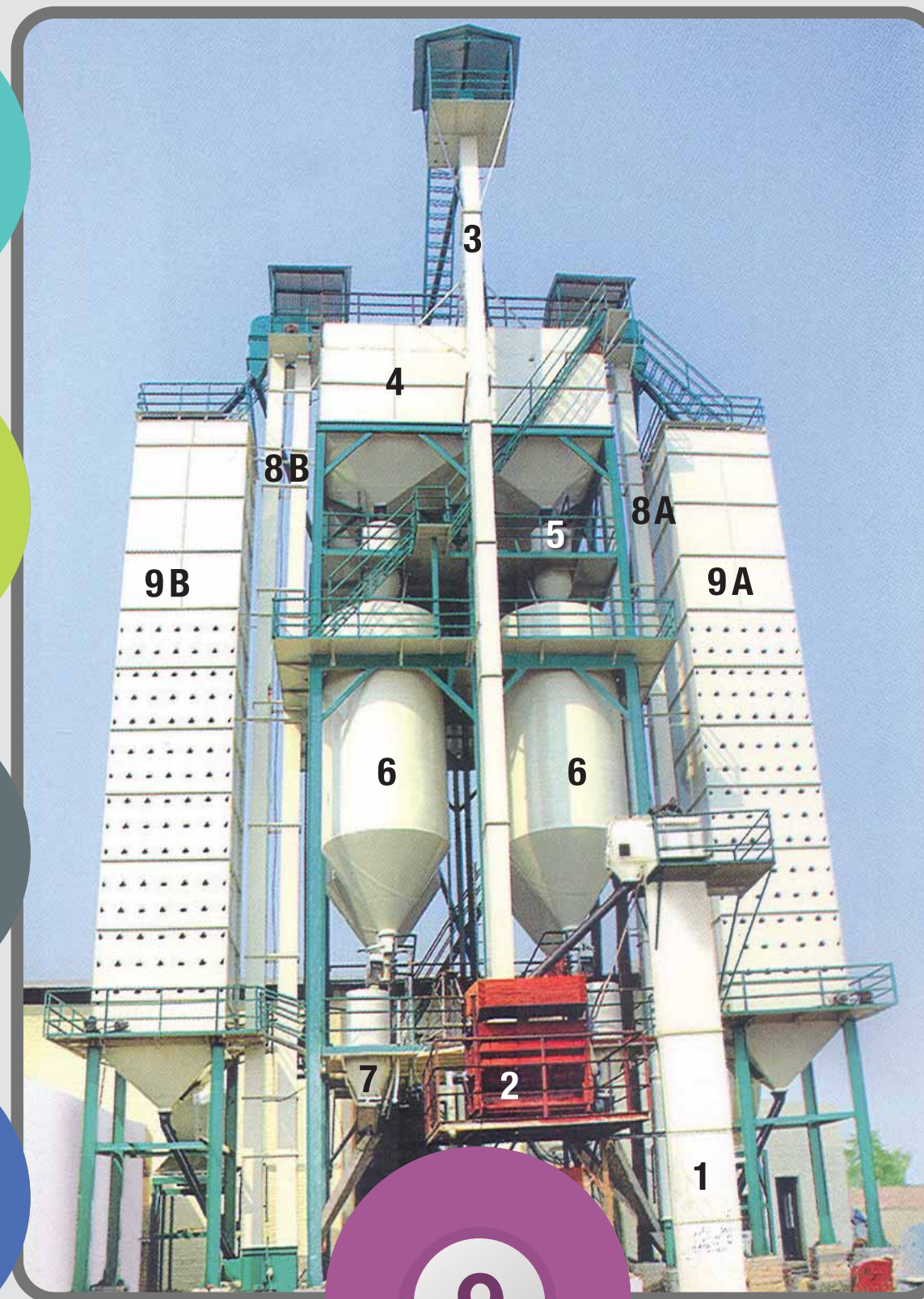
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DRYER  
ELEVATOR

8

9

DRYER





SPECIFICATIONS OF SS USED

	DRIER UNITS	BOILER UNITS	CONVEYORS/ ELEVATORS	FEEDING TANK	HOT AIR CHAMBER	V-POT	PRE-STEAMING TANK	AIR DUCT
Grade	J4	J4	J4	J4/JT	J4	J4	J4	Grade J4/JT
Thickness	1.5mm to 2.5mm	4.0mm	1.5mm to 2.5mm	1.5mm to 3.0mm	1.2 mm	2.0 to 2.5 mm	2.5mm	1.5mm
Surface Finish	2B	No1	2B	2B	2B	2B	2B	2B
Width /Length	Depends on capacity & requirement	Depends on capacity & requirement	Depends on capacity & requirement	Depends on capacity & requirement	Depends on capacity & requirement	Depends on capacity & requirement	Depends on capacity & requirement	Depends on capacity & requirement

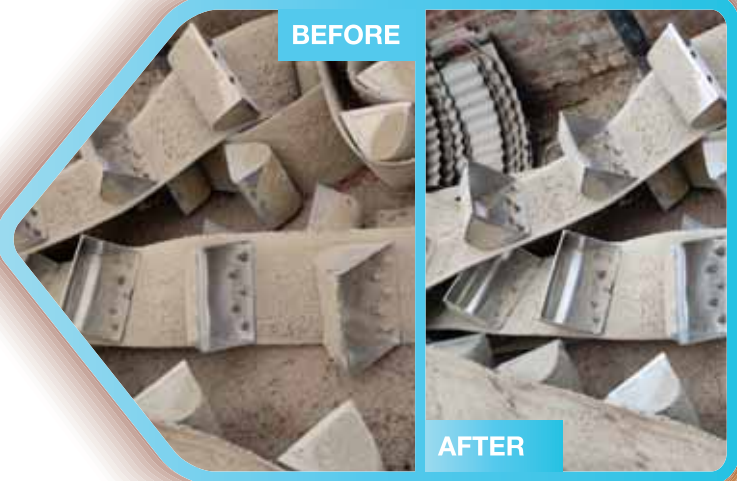
HOW MILD STEEL IS IMPACTING  
PRODUCTION OF RICE

- Galvanic Corrosion occurs at the point of contact of Stainless Steel and Mild Steel (Refer to picture). This further leads to the spread of corrosion
- Reason why, it's better to build the entire structure with Stainless Steel, which offers better life cycle cost



- The picture shows Mild Steel getting corroded, while for the same period of exposure Stainless Steel lasts longer without any sign of corrosion

- The picture depicts the conveyor belt along with stainless steel buckets
- It's been more than 10 years and still the buckets have not faced any corrosion



## APPLICATIONS

SS A BETTER FIT FOR RICE MILLS

1

### DRIERS

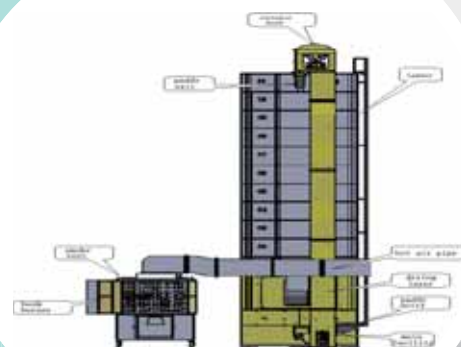
For a 40 MT/batch rice mill, SS consumption in one drier is 12 MT .

Two driers with 20 MT capacity each.

Total SS used in driers is 24 MT.

Grade 304 / JSL AUS/J4 /JT

Thickness 1.50mm, 2.0mm, 2.5mm , 3mm & 4mm



2

### SOAKING TANKS

(for soaking, boiling & steaming)

4 boilers, each 10 MT capacity.

Two boilers attached with each drier

SS used in one tank is about 5 MT, J4 4.00 mm thick material.

Total requirement of SS comes out to be 20 MT.



3

### ELEVATORS

(To transfer paddy from one place to other)

4 boilers, each 10 MT capacity

Two boilers attached with each drier.

SS used in one tank is about 5 MT, J4 4.00mm thick.

Total requirement of SS comes out to be 20 MT.



4

### RAW MATERIAL FEEDING TANK

Raw material feeding tank over the boilers consists of four outlets used to supply paddy to all the four boilers, requirement of SS is about 2 MT.



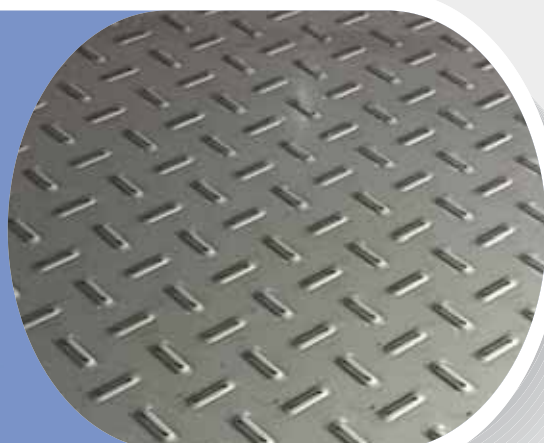
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### CHECKERED PLATE APPLICATION

Anti-corrosion and rust

Anti-high temperature and alkaline

Self-cleaning and minimized the maintenance



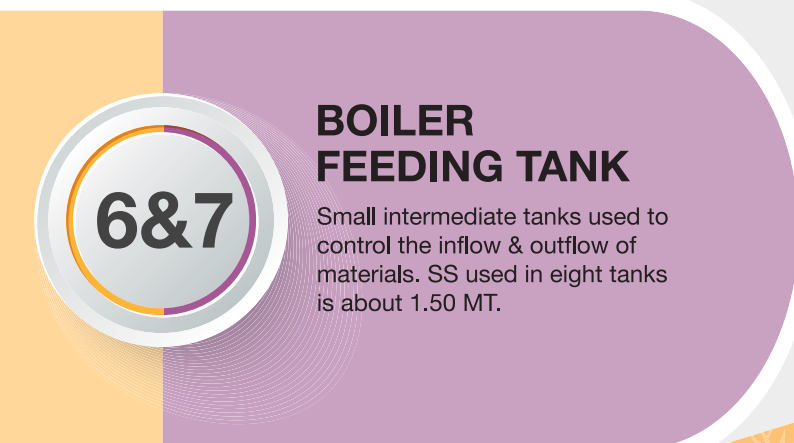
6&7

### DRIER FEEDING TANK

Small intermediate tanks used to control the inflow & outflow of materials. SS used in eight tanks is about 1.50 MT.

### BOILER FEEDING TANK

Small intermediate tanks used to control the inflow & outflow of materials. SS used in eight tanks is about 1.50 MT.



## NOTES