

GET IN TOUCH



Agro Solution Industries

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www.agrosolutionindustries.com



AGRO SOLUTION INDUSTRIES

BETTER TECHNOLOGY KEEPS YOU AHEAD OF OTHERS



- Rice Mill Machinery
- Paddy Parboling Rice Mill
- Rice & Multigrain Color Sorter Machine
- Rotary Air Screw Compressor with VFD Technology
- Fortified Rice & Pulses and Food Processing Unit

www.agrogen.com

ABOUT US



Agro Solution Industries is well-acclaimed as an adept organization from India that specializes in providing top-notch lab equipment, automation products, material handling equipment, milling machine, grain cleaning machine, food processing machine, packing machine and much more. Being a renowned manufacturer and supplier of the above mentioned products, we are bedecked with state-of-the-art machinery and hygienic methods of production to bring about A-grade quality. We are capable of catering to the specific demands of our venerable clients with the utmost competence.

Established in the year 1973, our veteran organization has gained an immense market reputation within a short span of time. We strive to meet the quality requirements of the market by sincerely complying with the norms set by the industry.

Logistic Team

Our distribution network is competent to meet the requirements of geographically scattered clients. We are even capable to meet the bulk orders on an urgent basis and our logistic network always works towards the betterment of services. We are equipped with adequate commercial vehicles to suffice the divergent market requirements within the given time frame.

Why Us?

- Committed Quality
- Turnkey Based System
- Competitive Product Pricing
- Trained Operators with Fully Supportive Management
- Ethical Business Policies
- Complete Client Satisfaction
- Wide Distribution Network



Our Certifications



We are specialises in designing and manufacturing state-of-the-art

Paddy Parboiling Plant

ensuring efficient and high-quality Rice Processing for our clientele. They comes in different specification and capacities.



Paddy Parboiling Plant is an important part of the rice manufacturing. The plant is made using high quality metal and is easy to operate. The parboiling is a process in which the paddy/rice is steamed in a controlled environment. The offered plant is very safe and helps in effective parboiling of paddy without breaking the pieces. The plant is highly suitable for use in the various industries. The Paddy Parboiling Plant is very cost effective and easy to maintain.

Paddy Processing Concept

Our plant is equipped with high degree of automation in order to produce variety of parboiled rice with desired quantity and quality of carbohydrate, protein, vitamins and minerals. These plant ensures that the rice produced is of International standards in terms of color, texture and flavor. These plant is suitable to produce three types of rice called Basmati, Creamy, Golden and White Rice.

In this process, first pre-steaming the cleaned raw paddy for about 2-3 minutes by soaking via circulated water at particular temperature till the desired moisture is achieved. Thereafter, the paddy is drained and transferred to steaming cooker for final steaming. The steamed paddy is then transferred to dryer for uniform drying, where the moisture content is reduced to 11-12% range.

ASI-00246 60 Ton Drier

Space requirement	24x 37 fts.
Power Requirement	55 HP
Steam Kg/Hr.	2250
Blower CFM	62000
Height Elevator	82 fts.
Buckets in Elevator	14x2 inches
Height of Drier	67 fts
Loading	130 min

ASI-00248 40 Ton Drier

Space requirement	13x30 fts.
Power Requirement	35 HP
Steam Kg/Hr.	1600
Blower CFM	46000
Height Elevator	82 fts.
Buckets in Elevator	12 inches
Height of Drier	67 fts
Loading	90 min

ASI-00250 24 Ton Drier

Space requirement	13 x 30 fts.
Power Requirement	25 HP
Steam Kg/Hr.	800
Blower CFM	25000
Height Elevator	70 fts.
Buckets in Elevator	10 inches
Height of Drier	55 fts
Loading	60 min



ASI-00247 50 Ton Drier

Space requirement	22 x 37 fts.
Power Requirement	55 HP
Steam Kg/Hr.	1900
Blower CFM	52000
Height Elevator	82 fts.
Buckets in Elevator	14 inches
Height of Drier	67 fts
Loading	110 min

ASI-00249 32 Ton Drier

Space requirement	13x30 fts.
Power Requirement	28 HP
Steam Kg/Hr.	1100
Blower CFM	34000
Height Elevator	75 fts.
Buckets in Elevator	12 inches
Height of Drier	60 fts
Loading	75 min



Pre Cleaner

This machine is used to remove all the foreign material like Straw, Dust, Heavy Impurities and Unmatured Grain from paddy.

Agro Solution Paddy Cleaner specially designed and well equipped machine with powerfull Dust Aspiration System.

Specifications:

Model No	Capacity	Power
ASI-00201	6 Ton	9.5 HP
ASI-00202	8 Ton	9.5 HP
ASI-00203	10 Ton	12 HP



Paddy De-Stoner

Vibro Paddy De-Stoner is meant to clean paddy and remove dust, impurities and Stones, the machine consists of mainly two Vibro Motors and Screen Frame.

It plays the role in enhancing both the quality rice and the efficiency of production. Our paddy de-stoner are durable and easy to instal.

Specifications:

Model No	Capacity	Power
ASI-00207	4 Ton	8.5 HP
ASI-00208	6 Ton	11 HP
ASI-00209	8 Ton	16 HP

Pre Cleaner

This machine is used to remove all the foreign material like Straw, Dust, Heavy Impurities and Unmatured Grain from paddy.

Agro Solution Paddy Cleaner specially designed and well equipped machine with powerfull Dust Aspiration System.

Specifications:

Model No	Capacity	Power
ASI-00204	8 Ton	9.5 HP
ASI-00205	12 Ton	13 HP
ASI-00206	15 Ton	14 HP



Paddy De-Stoner

This machine is used to remove all the foreign material like Straw, Dust, Heavy Impurities and Unmatured Grain from paddy.

Agro Solution Paddy Cleaner specially designed and well equipped machine with powerfull Dust Aspiration System.

Specifications:

Model No	Capacity	Power
ASI-00210	4 Ton	8.5 HP
ASI-00211	6 Ton	11 HP
ASI-00212	8 Ton	16 HP





De-Husker

The Paddy De-Husker is uniquely designed to be efficient in De-Husking of Raw Paddy, Parboiled Paddy, Steamed Paddy, Boiled Paddy, Basmati, Big or Small type of Grain.

Agro Solution De-husker specially designed remove outer husk from paddy or hull from rice grains leaving behind the edible rice kernels

Specifications:

Model No	Capacity	Power
ASI-00213	3-4 Ton	12.5 HP
ASI-00214	4-5 Ton	15 HP
ASI-00215	5-6 Ton	17.5 HP



Rice Silky Master

Agro Solution specially designs Silky Master is used full to get Silk smooth finish rice. It is uniquely designed & highly efficient for Raw Rice, Parboiled Rice, Boiled Rice, Steamed Rice, Basmati Rice and any type of small or long grain.

It improves the appearance and texture of rice grains by polishing them and enhances the visual appeal of the grain and gives smooth, shiny appearance.

Specifications:

Model No	Capacity	Power
ASI-00239	3 Ton	60 HP
ASI-00240	4 Ton	75 HP

De-Husker

The Paddy De-Husker is uniquely designed to be efficient in De-Husking of Raw Paddy, Parboiled Paddy, Steamed Paddy, Boiled Paddy, Basmati, Big or Small type of Grain.

Agro Solution De-husker specially designed remove outer husk from paddy or hull from rice grains leaving behind the edible rice kernels

Specifications:

Model No	Capacity	Power
ASI-00216	3-4 Ton	12.5 HP
ASI-00217	4-5 Ton	15 HP
ASI-00218	5-6 Ton	17.5 HP



Paddy Separator

Paddy Separator is machine used to separating the unhusked paddy rice grains from the brown rice grains after dehusking. This process helps in achieving high-quality rice by removing impurities and ensuring uniformity in grain size.

Agro Solution's Paddy Separator is designed to efficiently separate paddy rice from brown rice based on specific processing needs.

Specifications:

Model No	Capacity	Power
ASI-00221	4 Ton	3 HP
ASI-00222	6 Ton	3 HP



Paddy Separator (Butterfly Type)

Paddy Separator is machine used to separating the unhusked paddy rice grains from the brown rice grains after dehusking. This process helps in achieving high-quality rice by removing impurities and ensuring uniformity in grain size. Agro Solution's Paddy Separator is designed to efficiently separate paddy rice from brown rice based on specific processing needs.

Specifications:

Model No	Capacity	Power
ASI-00223	6Ton	3 HP
ASI-00224	8 Ton	3 HP
ASI-00225	10 Ton	3 HP



Rice Whitener

Rice Whitener is uniquely designed for uniform polish with less broken and highly efficient for polishing raw rice, parboiled rice, boiled rice, steamed rice and basmati rice.

Our Rice Whitener are used to enhance the appearance and texture of rice by removing the outer bran layer. This process also helps improve the shelf life of the rice

Specifications:

Model No	Capacity	Power
ASI-00226	2.5 Ton	50 HP
ASI-00227	4 Ton	50 HP

Bucket Elevator

The Elevator (Bucket Type) is uniquely designed and highly efficient for lifting all kinds of grains and granulate produces.

It is constructed using strong, non-corrosion, non-sparking and tough material for longer life. Belts never come back in case of power failure. It has less wear and tear or belts.

The size of the Elevator can be customized as per requirement.



Rice Whitener

Rice Whitener is uniquely designed for uniform polish with less broken and highly efficient for polishing raw rice, parboiled rice, boiled rice, steamed rice and basmati rice.

Our Rice Whitener are used to enhance the appearance and texture of rice by removing the outer bran layer. This process also helps improve the shelf life of the rice

Specifications:

Model No	Capacity	Power
ASI-00228	3 Ton	30 HP
ASI-00229	4 Ton	50 HP





Rice Whitener

Rice separators play an important role in the rice milling industry by helping to produce high-quality rice that meets market standards and consumer preferences for uniformity in grain size.

Rice Separator helps in separating rice from the unhusked paddy and husk. This machine is a machine used in the rice milling process to separate rice grains based on their size and shape.

Specifications:

Model No	Capacity	Power
ASI-00230	4-5 Ton	37-45 HP
ASI-00231	6-7 Ton	45-55 HP
ASI-00232	8-10 Toh	55 HP



Rice Separator

Rice separators play an important role in the rice milling industry by helping to produce high-quality rice that meets market standards and consumer preferences for uniformity in grain size.

Rice Separator helps in separating rice from the unhusked paddy and husk. This machine is a machine used in the rice milling process to separate rice grains based on their size and shape.

Specifications:

Model No	Capacity	Power
ASI-00233	3 Ton	2+2 HP
ASI-00234	4 Ton	2+2 HP



Length Grader

Length Grader is designed for separation of broken rice as its length wise with cylindrical motion. This machine is equipped with heavy steelstructure and precious indented cylinder, cylindricalrotary brushes equipped for self cleaning for helping good performance of indent cylinder toseparate the broken rice and head rice and a screw conveyor to discharge the broken rice.

Specifications:

Model No	Capacity	Power
ASI-00235	1 Ton	2 HP
ASI-00236	2 Ton	4 HP

Length Grader

Length Grader is designed for separation of broken rice as its length wise with cylindrical motion. This machine is equipped with heavy steelstructure and precious indented cylinder, cylindricalrotary brushes equipped for self cleaning for helping good performance of indent cylinder toseparate the broken rice and head rice and a screw conveyor to discharge the broken rice.

Specifications:

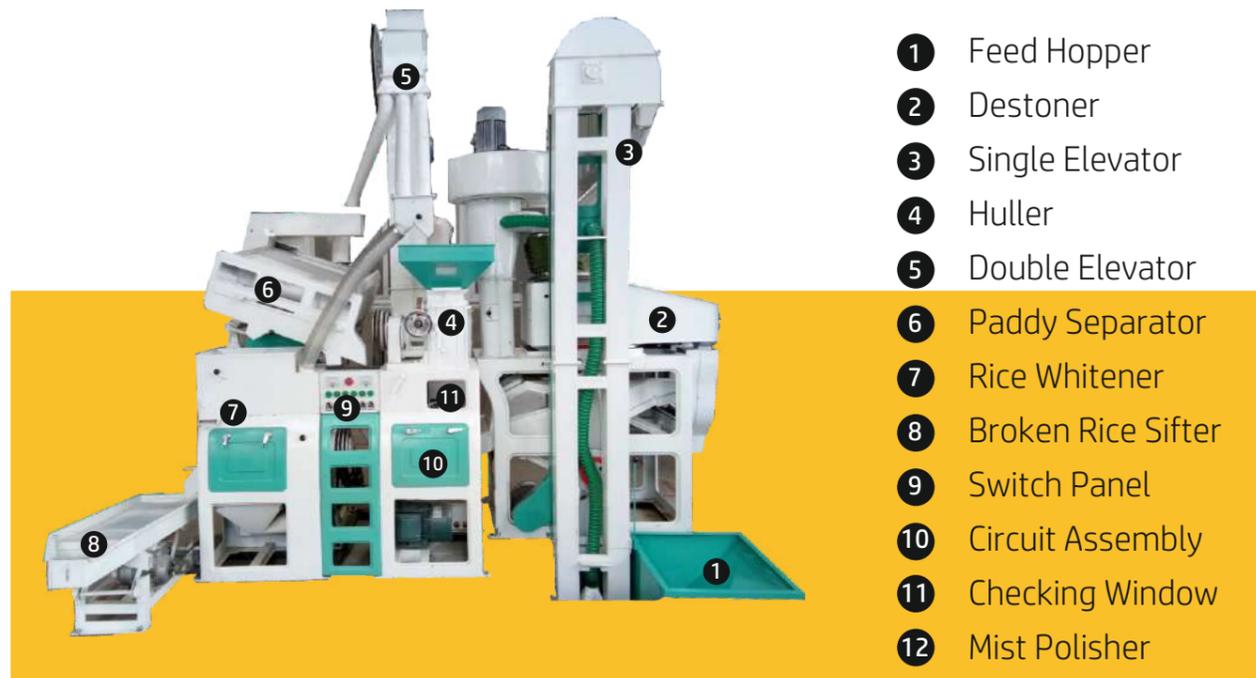
Model No	Capacity	Power
ASI-00237	1 Ton	2 HP
ASI-00238	2 Ton	4 HP



Combined Rice Mill Plant with Mist Polisher

Capacity: 1000 Kg/hr.

Features: Compact structure, simple operation, convenient maintenance, little noise, high yield. It is suitable for processing rice in farmlands, towns, grain shops and specialized households. The machine can work well with follow-up equipment, such as husk grinder, white rice grader, rice color sorter, emery/iron roller rice whitener, mist polisher, packaging machine, etc.



- 1 Feed Hopper
- 2 Destoner
- 3 Single Elevator
- 4 Huller
- 5 Double Elevator
- 6 Paddy Separator
- 7 Rice Whitener
- 8 Broken Rice Sifter
- 9 Switch Panel
- 10 Circuit Assembly
- 11 Checking Window
- 12 Mist Polisher

Technical Specification:

Capacity	Voltage	Speed of Main Spindle	Dimension (LxWxH)	Weight
1000 kg/hr	415-50Hz	1350 rpm	2800x1500x2900mm	1620 kg

Main Parts

- Single bucket elevator with loading hoppers, drive motors and discharge heads with pipes to connect units in sequence.
- Combined double flat Pre-cleaner with aspirator and De-stoner
- Horizontal Emery-roller Whitener with bran aspirator and cyclone
- Rubber roll Husker with aspirator
- Double bucket elevator
- Gravity paddy separator
- Broken rice grader

Power (24kw)

- Pre-cleaner & De-stoner single elevator: 1.1 kw
- De-stoner blower: 2.2 kw
- Double elevator: 0.75 kw
- Husker: 4 kw
- Paddy separator: 0.75 kw
- Rice whitener: 15 kw
- Small rice grader: 0.25 kw

Main Machine Functions:

- **Rice De-Stoner Machine**
This Machine combines the functions of paddy cleaning and stone removal. Multi-layered, removes stones and dust and other impurities from paddy.
- **Rubber Roll Husker**
Used for paddy shelling
- **Single Elevator**
Used to deliver paddy to the De-stone machine
- **Gravity Paddy Separator**
Used to separate rice and brown rice
- **High-power suction type EmeryRoller Mill (Rice Whitener)**
Capable of effectively removing the silver skin & the bran layer from dehusked rice

Automatic Fortified Rice Blending Machine with Load Cell

We are India's Leading Fortified Rice Kernels (FRK) Blending Machine manufacturers to give optimum production.

- Stainless Steel Body
- High accuracy and less spacious
- PLC Integrated System
- Option for Data Storage through Pen Drive
- No Vibration

Technical Specification:

Processing Capacity: 2-6 Tons/hr Rice

Power Required: 1.0 HP 1410rpm/70rpm

Dimension: 2459x1063x4199 (mm)

Weight: 736 kg (Approx)



Rice & MULTIGRAIN COLOR SORTER

for Sorting any kinds of Rice and Multigrain



Key Features



High resolution camera

Two 16200 pixels CCD (charged coupled device) sensor Toshiba company, made in Japan RGB cameras are used for each chute. It can detect up to 50000 lines/sec.



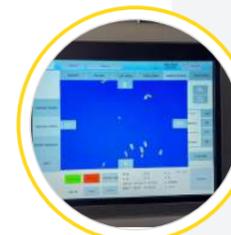
High Precision Ejector

High Precision Ejector Valves are used as per the customer demand or engineer's recommendations. It has life of more than 5 billion times shoots. Capable of high-speed accurate ejection process, 0.9ms response time Easy maintenance.



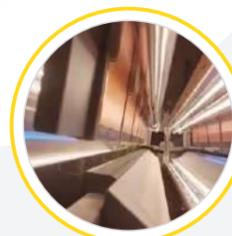
Intelligent Processing

International standard, top level ARM [Advanced RISC (Reduced instruction set computer) Machines FPGA [Field-programmable gate array] dual core processing system. Proprietary operating software makes commanding and control reliable and consistent



Human Machine Interface HMI

15-inch ultra-high resolution colour touch panel. Various important functions like image capturing, LED background colour change, RGB configuration, shape sorting, grading and many other setting modes to meet the customer demand.



Smart Background LED

High resolution LED lamp having life more than 50,000 running hours. High brightness and programmable LEDs. Smart LED: Color can be changed by changing the RGB (Red Green Blue) configuration



Line Filter Separators

Act as extra layer of safety in order to prevent oil and moisture to enter in the input air. It has higher the capacity than regular filters. It helps increasing life of ejector valves. Protect the machine from dust and oil.

Modern days competitive market requires agroindustries to produce grain output of high purity and less contamination. To solve this problem of agro industrialists and millers, we at **AGROGEN PVT. LTD.** are committed to provide our customers new generation grain sorter machines having advanced scanning features so that even tiny defects or errors of the grain can be detected and sorted out.

We have varieties of Most Advanced Intelligent COLOR SORTER for Sorting any kind of GRAINS



AG-64 Series



AG-160 Series



AG-192 Series



AG-256 Series



AG-320 Series



AG-384 Series



AG-448 Series



AG-512 Series



AG-640 Series

Rotary Air Screw Compressor



Key Features

- Built with European Quality standards
- Large Pre Filter to increase life of internal components
- Easy access to all components, doors open from all sides



High Efficiency Combi Cooler

Oversized Coolers designed for High Ambient Temperatures upto 48° C

Touch Screw Controller

- Large Display Size
- Additional parameters such as amperes/voltage and power displayed for main motor and fan motor
- Consumable lifetime/service due Indicator

Complete Stainless Steel Piping

- No Rubber Hoses
- Less Maintenance cost

Energy Efficient Drive

- Specially designed for compressor application
- Safety protections like Single Phasing "Motor Overload, Current imbalance, over voltage, low voltage, High Pressure Tripping"

High Efficiency Motor

- Permanent Magnet IE4 Efficiency Motor

Radial Fan

- High Efficiency Radial Fan
- VFD Controlled (25 HP Onwards)
- No Thermostat Fan Start/Stops on the basis of temperature

Low Speed-Direct Drive Screw Element

- Low Maintenance Cost
- Increased Life of Bearing

High Efficiency Oil Separator

- Less Oil Carryon

Choose Agrogen to
Choose Intelligent & Clean
Air Solution

ADVANTAGE AND FEATURES

- Permanent magnet motor+efficient two-stage compressor host+permanent magnet frequency conversion control technology, saving 1 kilowatt hour of electricity per cubic meter of compressed air produced by a single low-voltage host 2
- New generation of frequency conversion control system, with pressure fluctuation controlled within $\pm 0.01\text{Mpa}$, almost no energy loss caused by pressure rise
- Energy loss caused by non unloading state directly saves 45% of no-load power consumption
- High performance frequency converter, small starting impact, avoid starting overload
- Specially designed frequency conversion cabinet, the operation is still perfect when the temperature reaches 45 °C

TECHNICAL SPECIFICATIONS

Model	Power (KW/HP)	Pressure Kg/cm ²	Air Flow CFM	Noise Level db (A)	Compressor Size L x W x H (mm)	Weight Kgs
AG 7-11	7.5/10	8-10	46-32	67	800 x 600 x 1050	310
AG 11-15	11/15	10-8	69-54	69	1000 x 800 x 1310	450
AG 15-18	15/20	10-8	91-76	69	1000 x 800 x 1310	500
AG 18-22	18/25	10-8	114-93	71	1360 x 800 x 1330	650
AG 22-30	22/30	10-8	133-113	71	1360 x 800 x 1330	650
AG 30-37	30/40	10-8	197-166	71	1500 x 1000 x 1450	820
AG 37-45	37/50	10-8	239-204	72	1500 x 1000 x 1450	900
AG 45-55	45/60	10-8	287-247	72	1500 x 1000 x 1450	1080
AG 55-65	55/75	10-8	371-317	73	1800 x 1150 x 1680	1520
AG 65-75	75/100	10-8	511-420	73	2000 x 1210 x 1750	1880

TYPICAL COMPRESSED AIR SUPPLY SYSTEM



Most Advanced & High Quality

Fortified Rice Kernel FRK Machine

Model
Agrogen 1200 R

28:1 L/D Extruder barrel consisting of segmented heads and rotating elements. Total & Extruder barrel (Bimetallic Barrel) with replaceable wear constructed of special hardened alloy stainless steel. Water injection device is included oil system; twin screw feeder, motor with frequency control can adjust according to material and product, so to meet different production demand. With forced oil lubrication system, promise long service life.



Special features :-

1. Moveable cutter system;
2. Super torque gear box;
3. Direct connection between gear box and motor;
4. Twin screw feeder with mixing agitator;
5. Cooling system on gear box and barrel;
6. Oil filter and visible oil lubrication indicator;
7. Interlocking control on controller system;
8. Siemens motor brand Delta inverter

Technical Specification :

Capacity (Kg/h)	: 1000-1200
Total Power	: 153 kw
Main Motor Power	: 110 kw
Band Heater	: 55 kw x 7
Feeding Power	: 1.5 kw
Cutting Power	: 2.2 kw
Fan	: 0.1 kw
Oil Pump	: 0.75 kw
Dimension (m)	: 5.8 x 1.0 x 2.2
Screw Diameter	: 85 mm





Food Processing Line

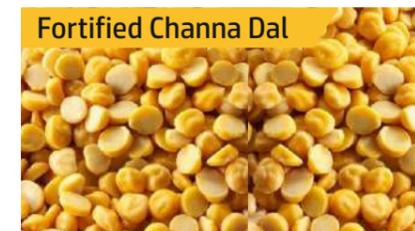
FORTIFIED PROCESSING LINE

Fortified Rice / Fortified Pulses / Soya Chunks / Fish & Cat Food / Puff Snacks production line

We have capacity from 150 kg to 2000 kg per hour and more...

ECO		COMBO		ULTRA		ULTRA SMART			
200	400	400	500	600-800	1000-1500				
Cap 150-200 kg/hr	Cap 300-400 kg/hr	Cap 300-400 kg/hr	Cap 500-600 kg/hr	Cap 600-800 kg/hr	Cap 1000-1500 kg/hr				
Grinder	1	Grinder	1	Grinder	1	Grinder	1	Grinder	1
Mixer	1	Mixer	2	Mixer	1	Mixer	1	Mixer	1
Screw Conveyor	1	Screw Conveyor	2	Screw Conveyor	1	Screw Conveyor	1	Screw Conveyor	1
Extruder 70mm	1	Extruder 70mm	2	Extruder 75 mm	1	Extruder 75 mm	1	Extruder 1200 R	1
Vibrator Cooling	1	Vibrator Cooling	2	Vibrator Cooling	1	Vibrator Cooling	1	Vibrator Cooling	1
Air Conveyor	1	Air Conveyor	1	Air Conveyor	1	Air Conveyor	1	Pre Dryer	1
---	1	---	1	---	1	---	1	Air Conveyor	1
Multi-Layer Dryer (7-9) 1000mm	1	Multi-Layer Dryer (7-9) 1000 mm	1	Multi-Layer Dryer (7-11) 1000mm	1	Multi-Layer Dryer (7 L, 11 M) 1200mm	1	---	1
Cooling Conveyor	1	Cooling Conveyor	1	Cooling Conveyor	1	Cooling Conveyor	1	Multi-Layer Dryer (7 L, 11 M) 1200mm	1
Chiller	1	Chiller	1	Chiller	1	Chiller	1	Cooling Conveyor	1
								Chiller	1
Power - 150 KW	Power - 250 KW	Power - 260 KW	Power - 250 KW+ Steam 1500 kg/hr	Power - 265 KW+ Steam 2000 kg/hr	Power - 450 KW+ Steam 4000 kg/hr				
2400 sq ft	2700 sq ft	2700 sq ft	3600 sq ft	4500 sq ft	6000 sq ft				

Sample of Raw Material



ENGINEERING LAYOUT FOR FORTIFIED PROCESSING LINE